

Trina Solar Co., Ltd.

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During the period from 2011 to 2018, the issuer provided certain solar modules to the U.S.

The national customs respectively paid anti-subsidy and anti-dumping deposits ("double anti-dumping deposits"). The margin is based on According to the anti-subsidy and anti-dumping measures declared effective by the U.S. Department of Commerce when the goods are declared to the U.S. market. Calculated by prepayment margin rate. According to relevant laws and regulations and the opinions of the lawyers for double counter litigation, refer to the following Circumstances, the amount of litigation, for cases that are still uncertain, the pending litigation is calculated at a rate of 5% Estimated liabilities. The aforesaid deposit is included in the cost of inventory when prepaid and included in the operating cost when the corresponding inventory is sold. After the final determination of the tax rate, the amount of more refunds and less supplements will be reduced or included in the operating costs of the year.

In 2018, the United States passed the "201 Act", which will impose an anti-dumping and anti-subsidy policy on photovoltaic cell modules. The 201 tariff is added on the basis of the tax rate, and the tax rate is 30%. The 201 tariff is four years, the first year (that is, 2018) the tax rate is 30%, and thereafter it will be reduced by 5% every year. At the same time, there are 2.5GW of imported solar cells or modules each year. Exemption. The above-mentioned 201 tariffs are included in the inventory cost when prepaid and included in the operating cost when the corresponding inventory is sold.

Since 2016, the issuer has successively supplied the U.S. market directly from overseas factories, so the double anti-margin deposit is no longer applicable. The amount of payment is decreasing year by year. In 2019, the issuer only paid the corresponding 201 tariff of 44,686.21 Ten thousand yuan.

(3) Gross profit and gross profit margin

1. Analysis of gross profit composition

During the reporting period, the gross profit of the company's main business classified by product structure is as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Photovoltaic products						
Photovoltaic modules	282,310.67	70.99%	234,589.44	61.42%	331,328.86	74.89%
Photovoltaic system						
System Products	17,759.47	4.47%	13,111.16	3.43%	17,100.72	3.87%
Power station business	60,093.81	15.11%	71,024.43	18.60%	22,712.44	5.13%
Smart energy						
Smart microgrid						
Multi-energy Unify	-93.51	-0.02%	506.55	0.13%	181.44	0.04%

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project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Power generation business	37,580.16	9.45%	62,694.46	16.42%	71,108.67	16.07%
And operations						
total	397,650.60	100.00%	381,926.04	100.00%	442,432.13	100.00%

During the reporting period, photovoltaic module products were the main source of the company's gross profit and accounted for the proportion of The cases were 74.89%, 61.42% and 70.99%.

The main reasons for the overall decline in the gross profit of photovoltaic modules are: (1) The average unit price of photovoltaic products continued to decline. The average selling price of modules in 2017, 2018 and 2019 was 2.56 yuan/W, 2.17 yuan/W and 1.87 yuan/W; (2) In 2018, affected by relevant policies and the company's technological transformation of production lines, the issuer's components were replaced. The volume has declined, and the gross profit of the component business that year has dropped significantly.

During the reporting period, the gross profit of the power station business accounted for 5.13% and 18.60% of the total gross profit of the main business in 2017 and 2018 respectively, and 15.11%. The main reason for the rapid increase in gross profit of this business in 2018 was that the sales of power stations increased rapidly that year. In addition, the power station engineering construction business in the power station business also continued to grow steadily during the reporting period.

In addition to photovoltaic modules and power station businesses, the power generation business and operation and maintenance businesses that company also have. The main reason is that the gross profit margin of photovoltaic power generation is much higher than the average gross profit margin of other businesses.

2. Gross profit margin analysis

(1) Gross profit margin of main business by product

During the reporting period, the company's gross profit margin analysis by product structure is as follows:

project	2019 year	2018 year	2017 year
Photovoltaic products			
Photovoltaic module	17.22%	16.35%	15.28%
Photovoltaic system			
System Products	15.18%	10.94%	21.16%
Power station business	13.70%	9.68%	13.53%
Smart energy			
Intelligent microgrid and multi-energy system	-2.60%	5.01%	1.67%
Power generation business and operation and maintenance	66.59%	62.78%	60.10%
Main business gross margin	17.59%	15.92%	17.38%

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In each period of the reporting period, the company's main business gross profit margin was 17.38%, 15.92% and 17.59% respectively.

① Component business

During the reporting period, the overall gross profit margin of the company's component business was relatively stable. The company's component

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

It will be affected by the market price of component products, raw material prices, double anti-corrosion deposit and 201 tariffs.

In each period of the reporting period, the gross profit margin changes of the company's photovoltaic modules are as follows:

category	2019 year	2018 year	2017 year
Component gross margin	17.22%	16.35%	15.28%
After deducting double reverse and 201 tariffs			
Component gross margin	17.28%	15.79%	15.19%
Changes in component gross profit margin of 0.87 percentage point, an increase of 1.07 percentage point, a decrease of 2.51 percentage points			
Unit price (yuan/W)	1.87	2.17	2.56
Unit price change rate	-13.88%	-15.18%	-23.33%
Unit cost (yuan/W)	1.55	1.82	2.17
Change rate of unit cost	-14.77%	-16.25%	-20.99%

During the reporting period, the impact of changes in the unit price and unit cost of component products on the gross profit margin is as follows:

project	2019 year	2018 year	2017 year
Effect of unit price	Down 13.48 percentage points	Down 15.16 percentage points	down 25.02 percentage points
Impact of unit cost	Increase of 14.35 percentage points	increase of 16.23 percentage points, an increase of 22.51 percentage points	
Change in gross profit margin	Increased by 0.87 percentage points	increase of 1.07 percentage points	2.51 percentage point reduction

Note: The impact of unit price = (unit price of the current period-unit cost of the previous period) / unit price of the current period-gross profit margin of the previous period

The impact of unit cost = (unit cost of the previous period-unit cost of the current period)/unit price of the current period

Gross profit margin of the current period-gross profit margin of the previous period = impact of unit price + impact of unit cost

During the reporting period, affected by the overall price drop of the photovoltaic module industry, the unit price of the company's photovoltaic modules decreased year by year. At the same time, due to technological progress and the decline in raw material prices, the unit cost of components has also decreased year by year. Then it decreases year by year.

In summary, the annual decline in the unit cost of photovoltaic modules is the main reason for the overall upward trend in gross profit margin.

During the reporting period, changes in the issuer's unit price and sales volume of photovoltaic modules are as follows:

category	2019 year	2018 year	2017 year
Sales revenue (ten thousand yuan)	1,639,519.55	1,434,568.16	2,167,742.49
Unit price (yuan/W)	1.87	2.17	2.56
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category	2019 year	2018 year	2017 year
Sales volume (MW)	8,756.91	6,598.64	8,457.61

During the reporting period, the issuer's photovoltaic module sales were 8,457.61MW, 6,598.64MW and 8,756.91MW, a decrease in 2018. The issuer's unit price of photovoltaic modules is 2.56 yuan/W, 2.17

Yuan/W and 1.87 Yuan/W, showing a downward trend year by year, sales volume and unit price changes are basically consistent with industry trends.

During the reporting period, the unit price and sales volume of the company's photovoltaic module products were analyzed as follows:

Industry policy: Since 2015, the national authorities have gradually established a policy to subsidize electricity

In order to guide the industry to gradually achieve the overall goal of parity grid access, and successively launched the photovoltaic leader plan,

To promote the continuous improvement of the technical level of the industry. Driven by relevant policies, the overall selling price of photovoltaic modules

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

decline. In 2018, the domestic photovoltaic market was affected by the "5•31 Policy", and the market demand declined.

Product prices have fallen rapidly, resulting in a decline in the issuer's 2018 module sales and unit prices compared with 2017. 2019

The annual module prices are relatively stable.

Technological changes: In the field of silicon wafers, in recent years, the diamond wire slicing technology in the silicon crystal section has gradually Continue to replace the traditional mortar slicing process, and make the cost of monocrystalline silicon wafers drop significantly, reducing the The cost gap between the market and the component cost and price will be further reduced; in the field of solar cells, monocrystalline PERC The popularity and maturity of the technology has continuously improved the efficiency of the cell and the corresponding increase in the power of the m The unit selling price of the calculated components decreased.

Market price trend: At the upstream silicon material end, with the expansion of silicon material companies, the price of raw materials continues to In the field of downstream module sales, in 2017, the newly installed capacity of the domestic photovoltaic market remained high. The company's production capacity was fully released, and component prices continued to drop accordingly.

Analysis of gross profit margin of photovoltaic module business:

During the reporting period, the issuer's revenue, cost, and gross profit margin of photovoltaic modules are as follows:

Unit: ten thousand yuan			
year	income	cost	Gross margin
2019 year	1,639,519.55	1,357,208.88	17.22%
2018 year	1,434,568.16	1,199,978.72	16.35%
2017 year	2,167,742.49	1,836,413.62	15.28%

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Overall, the issuer's photovoltaic module business's gross profit margin was relatively stable during the reporting period. 2019 components The gross profit margin of the product after excluding the effects of double reverse and 201 tariffs was 17.28%, a slight rebound.

During the reporting period, the unit cost of the issuer's photovoltaic module products is as follows:

Unit: ten thousand yuan						
project	2019 year		2018 year		2017 year	
	Amount	unit cost (Yuan / watt)	Amount	unit cost (Yuan / watt)	Amount	unit cost (Yuan / watt)
Operating costs	1,357,208.88	1.55	1,199,978.72	1.82	1,836,413.62	2.17
Deduction: Double reverse guarantee						
Gold and 201 tariff pair	1,047.61	0.00	-8,042.05	-0.01	-2,131.56	0.00
Cost impact						
Manufacturing related						
Operating costs	1,356,161.27	1.55	1,208,020.76	1.83	1,838,545.19	2.17
Manufacturing related	2019 year		2018 year		2017 year	
	Amount	unit cost (Yuan / watt)	Amount	unit cost (Yuan / watt)	Amount	unit cost (Yuan / watt)
Operating costs						
direct material	990,802.04	1.13	870,654.96	1.32	1,471,541.10	1.74
Direct labor	119,504.99	0.14	103,448.84	0.16	104,031.48	0.12
Manufacturing costs	229,027.68	0.26	222,601.04	0.34	233,448.08	0.28
Outsourcing costs						

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

	16,826.56	0.02	11,315.92	0.02	29,524.53	0.03
total	1,356,161.27	1.55	1,208,020.76	1.83	1,838,545.19	2.17

The direct materials of component products include silicon materials, main auxiliary materials required for each process, outsourcing silicon wafer Silicon materials and auxiliary materials corresponding to the cells.

Compared with 2018, the unit cost of photovoltaic module products decreased by RMB 0.28/W in 2019, mainly due to In: (1) The price of silicon materials and semi-finished products in the direct materials of this product has fallen, which affects the unit cost reduction by Yuan/W; (2) Changes in the structure of some models of this product have led to a decrease in the price of auxiliary materials and other materials, affect The cost is reduced by 0.10 yuan/watt.

Compared with 2017, the unit cost of photovoltaic module products decreased by 0.34 yuan/W in 2018, mainly due to The price of direct materials for this product has dropped. The price of silicon materials and semi-finished products in the direct The bit cost is reduced by 0.24 yuan/watt, and the decrease in the prices of auxiliary materials and other materials will affect the unit cost by 0.18 yuan/v The main reason for the large drop in prices of semi-finished products and semi-finished products is that due to the “5•31 policy”, the installed capacity Volume growth has slowed down, while the silicon material market has increased more capacity and silicon material prices have fallen, causing the cost The drop in component prices.

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In each period of the reporting period, the issuer's unit price and manufacturing cost of photovoltaic modules (excluding double-reverse deposits and After the cost) and gross profit margin changes are as follows:

project	2019 year		2018 year		2017 year	
	Amount	Volatility	Amount	Volatility	Amount	Volatility
unit price	1.87	-13.88%	2.17	-15.18%	2.56	-23.33%
unit cost	1.55	-15.41%	1.83	-15.78%	2.17	-17.18%
Among them: unit material	1.13	-14.25%	1.32	-24.17%	1.74	-14.82%
Unit labor	0.14	-12.95%	0.16	27.45%	0.12	-25.23%
Unit depreciation	0.11	-32.71%	0.16	30.15%	0.13	-16.59%
Unit other manufacturing expenses	0.15	-12.79%	0.17	15.55%	0.15	-30.89%
Unit outsourcing expenses	0.02	12.05%	0.02	-50.88%	0.03	-29.51%
Unit gross profit (excluding double reverse & 201)	0.32	-5.75%	0.34	-11.79%	0.39	-45.82%
Unit gross profit	0.32	-9.32%	0.36	-9.25%	0.39	-34.14%

Note: unit cost = manufacturing related operating cost / annual component sales

Unit other manufacturing expenses = unit manufacturing expenses-unit depreciation

The amount in the above table is rounded to two decimal places, the volatility is directly calculated, and there is a tail difference

During the reporting period, the unit price of component products, unit raw materials, unit labor, depreciation, manufacturing expenses and outsourcing The contribution of changes in expenses to gross profit margin is as follows:

project	2019 year	2018 year	2017 year
Effect of unit price	13.57 percentage points lower	15.18% reduction	23.89 percentage point reduction
Influence of unit material	10.04 percentage points increase	An increase of 19.34 percentage points	10.11 percentage points increase
Impact of unit labor	Increased by 1.08 percentage points	1.55 percentage points lower	1.62 percentage points increase

Effect of unit depreciation	Increased by 2.87 percentage points	1.75 percentage points lower	Increased by 0.98 percentage points
The impact of unit other manufacturing costs ring	1.18 percentage points increase	1.07 percentage point reduction	Increased by 2.62 percentage points
The impact of unit outsourcing costs	0.11 percentage point reduction	0.82 percentage point increase	Increased by 0.57 percentage points
Gross profit margin (excluding double reverse & 201) Variation	1.49 percentage points increase	0.61 percentage point increase	Decrease by 6.30 percentage points
Change in gross profit margin	Increased by 0.87 percentage points	An increase of 1.07 percentage points	1.15 percentage point reduction

Note: unit cost = manufacturing related operating cost / annual component sales

Effect of unit price = (unit price of the current period-unit cost of the previous period)/unit price of the current period-gross profit margin after excluding double reverse & 201 in the previous period

Impact of unit material = (unit material of the previous period-unit material of the current period)/unit price of the current period

Impact of unit labor = (unit labor of the previous period-unit labor of the current period)/unit price of the current period

The impact of unit depreciation = (previous period unit depreciation-current period unit depreciation) / current unit price

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The impact of unit other manufacturing expenses = (unit other manufacturing expenses of the previous period-unit other manufacturing expenses of the current period)/unit price of the current period

Influence of unit outsourcing = (unit outsourcing of the previous period-unit outsourcing of this period)/unit price of this period

The gross profit margin after excluding the double reverse & 201 in the current period-the gross profit margin after excluding the double reverse & 201 in the previous period = the impact of unit price + impact of unit cost + impact of unit double reverse & 201

Gross profit margin of the current period-gross profit margin of the previous period = impact of unit price + impact of unit cost + impact of unit double reverse & 201

The amount in the above table is rounded to two decimal places, and the contribution to the gross profit margin is directly calculated, and there is a tail difference

During the reporting period, affected by the decline in the overall price of the photovoltaic module industry, the issuer's product unit price also declined year by year. At the same time, with the improvement of photovoltaic module production technology and the decrease of raw material prices, the unit cost of the company has decreased. Therefore, the gross profit margin of the company's photovoltaic module business has shown an upward trend.

With the decline in the price of raw materials and the increase in module power, the unit price per watt and the unit gross profit have decreased year by year. The overall gross profit margin is on the rise.

②System product business

During the reporting period, the issuer's system product business gross profit margin was 21.16%, 10.94% and 15.18%, respectively.

The system products mainly include household products, commercial products and TRW Smart

For commercial users, the gross profit margin of this business declined significantly in 2018, mainly due to the

The adjustment of the subsidy policy for photovoltaic products has led to a decline in market demand and product prices.

During the reporting period, the issuer's system products mainly include household products, commercial products, and Trina Smart. The gross profit rate of related businesses is as follows:

			Unit: ten thousand yuan
project	income	cost	Gross margin
2019 year			
Household products	14,445.33	10,913.33	24.45%
Commercial Products	26,568.93	22,077.93	16.90%
Tianhe Intelligent Optimal Matching	75,991.63	66,255.16	12.81%
total	117,005.89	99,246.42	15.18%
2018 year			
Household products	73,111.02	61,528.49	15.84%
Commercial Products	38,716.20	38,188.48	1.36%
Tianhe Intelligent Optimal Matching	7,994.75	6,993.84	12.52%

total	119,821.97	106,710.81	10.94%
2017 year			
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project	income	cost	Gross margin
Household products	50,987.61	37,617.42	26.22%
Commercial Products	29,845.05	26,114.52	12.50%
Tianhe Intelligent Optimal Matching	-	-	-
total	80,832.65	63,731.94	21.16%

In general, the large fluctuations in the issuer's system products are mainly due to the market development stages of products in various sub-category. Due to changes in the period and the impact of the "5•31 Policy" policy. The issuer will follow the macro policy and market development. Change product layout to maintain a relatively stable comprehensive gross profit margin.

③Power station business

During the reporting period, the issuer's power station business gross profit margin was 13.53%, 9.68% and 13.70%, respectively. Power station. The reason for the decline in business gross profit margin was mainly due to changes in the power plant business structure. The gross profit margin of power stations is lower than that of photovoltaic power station engineering construction services. In 2018, the revenue from the power station business decreased. As a result, the gross profit margin of the power station business decreased.

A. Analysis of gross profit margin of power station sales

During the reporting period, the issuer's overall revenue, cost and gross profit margin of the power station sales business are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
income	105,824.83	572,964.68	40,434.18
cost	95,761.89	531,304.58	37,008.24
Gross margin	9.51%	7.27%	8.47%

The gross profit margin of the power station sales business did not experience major fluctuations.

B. Analysis of gross profit margin of power station construction management business

During the reporting period, the issuer's power station project construction management business (hereinafter referred to as "EPC business") cost. The structure and gross profit margin are as follows:

Unit: ten thousand yuan									
project	2019 year			2018 year			2017 year		
	income	cost	Gross margin	income	cost	Gross margin	income	cost	Gross margin
China	66,595.04	55,036.50	17.36%	52,343.81	39,190.20	25.13%	27,396.11	21,431.88	21.77%

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project	2019 year			2018 year			2017 year		
	income	cost	Gross margin	income	cost	Gross margin	income	cost	Gross margin
Japan	121,425.05	100,127.44	17.54%	56,445.80	47,631.94	15.61%	99,981.66	86,659.40	13.32%
South America	408,030.72	96,545.31	10.63%	31,720.44	28,031.53	11.63%	-	-	-
other	36,892.92	31,203.60	15.42%	20,533.01	16,825.06	18.06%	-	-	-
total	332,943.72	282,912.85	15.03%	161,043.05	131,678.72	18.23%	127,377.77	108,091.28	15.14%

The power plant construction management business was mainly concentrated in Japan and China in the early stage. In 2018, it started in South America to expand the market in other regions abroad.

Compared with 2017, the gross profit margin increased by 3.09% in 2018, mainly due to the domestic EPC business.

Impact: (a) Due to the significant drop in the prices of some raw materials, the prices of the EPC business in the same period have not been correspondingly reduced. The decrease has resulted in a slight increase in the gross profit margin of this business; (b) The concentration of power station projects has formed a scale effect that reduces costs. For example, there was only one project in 2016, and the 28MW projects in 2017 were all located in Chenzhou. In 2018, the 35MW of the Fengning project was concentrated in Fengning County; (c) the impact of the Fengning project, the gross profit margin is 39.82%, and its project gross profit accounted for 62.45% of the total gross profit in China in 2018.

Compared with 2018, the gross profit margin decreased by 3.20% in 2019, mainly due to the development of South America, Europe, etc. Emerging market regions, such regions have relatively low gross profit margins at this stage. In addition, the gross profit margin in Japan increased, and the main reason is that some EPC projects were signed earlier and construction costs continued to decrease.

In summary, the gross profit margin of the power station business declined from 2017 to 2018, mainly due to the scale of business sales has increased year by year, and the proportion has increased year by year, while the gross profit margin of the power station business declined. In 2019, the gross profit rate of power station sales business increased, and the gross profit rate of power station business rebounded accordingly.

In each period of the reporting period, the issuer's EPC business distinguishes the gross profit margin of the "transfer-build" and "build" models as following:

project	Transfer - build model			Construction mode		
	income	cost	Gross margin	income	cost	Gross margin
2019 year	212,863.14	182,068.64	14.47%	120,080.57	100,844.21	16.02%
2018 year	70,257.49	60,294.34	14.18%	90,785.56	71,384.38	21.37%
2017 year	99,981.66	86,659.40	13.32%	27,396.11	21,431.88	21.77%

In 2017, the gross profit margin of the EPC business under the "transfer-build" model was low because the issuer

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Nine projects were completed in Japan's EPC. The project was difficult to execute that year, and some overruns occurred. To.

In 2017 and 2018, the gross profit margin of EPC business under the "construction" model was higher than that in 2016.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The significant increase was mainly due to the rapid increase in the issuer's domestic EPC business during the year and the construction of the project. The establishment of land is also relatively concentrated, forming a scale effect and further reducing costs. In 2019, the issuer The gross profit margin of the EPC business under the "engineering" model decreased by 5.35 percentage points year-on-year, mainly due to the domestic Due to a drop in the grid.

④Power generation business and operation and maintenance business

During the reporting period, the issuer's power generation business and operation and maintenance business gross margins were 60.10%, 62.78% and 60.39%. The business has improved in 2018, mainly due to the gradual decline in the curtailment rate of domestic photovoltaic power plants. The issuer's operation and maintenance management level has improved, and the effective power generation hours of the Business gross profit margin increased.

A. Explanation on the rate of abandonment and the impact of the decline in the rate of abandonment on the issuer's power generation business and

The issuer's power generation business and operation and maintenance business consist of two parts. The power generation business mainly refers to Large-scale ground power stations and distributed photovoltaic power stations, and sell the power generation of the power stations to obtain income; operation and maintenance business mainly refers to the provision of maintenance services for the daily operation of photovoltaic power plants held by third parties, including power plant operation and maintenance, record and analysis of regular operation and maintenance, overhaul and operation and maintenance operations.

During the reporting period, the revenue, cost and gross profit rate of the above two businesses are as follows:

project	2019 year			2018 year			2017 year		
	income	cost	Gross margin	income	cost	Gross margin	income	cost	Gross margin
Photovoltaic Electricity	55,297.54	20,219.20	63.44%	94,090.39	31,748.25	66.26%	117,281.04	44,957.05	61.67%
Photovoltaic Station operation and maintenance	6,931.05	4,429.22	36.10%	5,767.46	5,415.14	6.11%	1,029.60	2,244.92	-118.04%
total	62,228.59	24,648.43	60.39%	99,857.85	37,163.39	62.78%	118,310.64	47,201.97	60.10%

Unit: ten thousand yuan

During the reporting period, the issuer's photovoltaic power station operation and maintenance business income accounted for a relatively low proportion of the overall income of the power generation business. The overall income of the power generation business is relatively large, and the gross profit margin is relatively stable. The specific analysis is as follows:

(A) Explanation about the abandonment rate

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The phenomenon of abandonment of solar energy refers to that the photovoltaic power station is limited by the peak shaving of the grid, the grid load capacity, and other factors. Factors such as low and insufficient transmission capacity are forced to reduce photovoltaic power generation.

The calculation formula of the abandonment rate is as follows:

Curtailment rate = (theoretical power generation of photovoltaic power station - actual power generation of photovoltaic power station) / theoretical power generation of photovoltaic power station

I. The relationship between operation and maintenance business and abandonment rate: As the issuer usually provides operation and maintenance services for photovoltaic power stations, the issuer charges a fixed fee to the owner based on the installed capacity of the station and the service time limit. The power generation is not necessarily related to the operation and maintenance business. Therefore, the abandonment rate has no substantial impact on the gross profit margin of the operation and maintenance business.

II. The relationship between the power generation business and the curtailment rate: the curtailment rate directly affects the power generation revenue of the power generation business.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The service cost is mainly the depreciation of the fixed assets of the photovoltaic power station, which is relatively fixed. Therefore, the abandonment rate

The increase in volume and the relatively fixed cost have increased the gross profit margin. Conversely, an increase in the abandonment rate will make the

The gross profit margin of business declined.

Taking Xinjiang Tuokexun Phase I Power Station as an example, the quantitative calculation of the curtailment rate will affect the gross profit margin. Impact.

Unit: ten thousand yuan			
project	2019 Nian 1-4 Yue	2018 year	2017 year
Abandonment rate	12.12%	18.50%	24.77%
Theoretical power generation (MWh)	49,527.21	150,914.58	145,890.55
Actual power generation (MWh)	43,524.51	122,996.51	109,758.00
Average electricity price excluding tax (yuan /kWh)	0.68	0.71	0.73
Power generation revenue	2,938.75	8,786.99	7,975.39
Generation cost	982.60	3,259.75	3,171.67
Gross margin	66.56%	62.90%	60.23%

Note: Xinjiang Tuokexun Phase I Power Station was sold in May 2019

As can be seen from the above table, as the average tax-exclusive electricity price of Xinjiang Tuokexun Phase I Power Plant is decreasing year by year, the light rate has been declining year by year, making the actual power generation and power generation revenue of the power station steadily increase,

(B) Analysis of gross profit margin of power generation business

The gross profit margin of the photovoltaic power generation business was relatively stable during the reporting period: 2018 increased from the previous year. The National Development and Reform Commission and the National Energy Administration issued the "Implementation Plan for Solving the Problem of

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Following the "Notice on Promoting Hydropower Consumption in Southwest China", the western region has implemented the control of power

High power system peaking capacity, perfect grid infrastructure, and fully promote the realization of clean energy consumption goals.

The issuer's power plant curtailment rate in the western region has been declining year by year, which has increased the gross profit margin of the power

The year's gross profit margin decreased compared with 2018, mainly due to the fluctuation of gross profit margin caused by the external sales of some

(c) Analysis of gross profit margin of operation and maintenance business

The gross profit margin of photovoltaic power station operation and maintenance business fluctuated greatly during the reporting period, and the scale is also less stable. In 2017, this business was still in the market exploration period. As the

The additional purchase of a monitoring system and high local labor costs have resulted in a negative gross profit for the project. cut

By 2018, with the expansion of the operation and maintenance business and the maturity of the photovoltaic power station operation and maintenance business, interest rates have increased.

B. Combine the issuer's unit price, unit cost, effective power generation hours and power generation factors to further

Step-by-step analysis of the issuer's power generation business and operation and maintenance business gross profit margin remains stable under the current Reason and rationality

During the reporting period, the cost structure of the issuer's photovoltaic power generation business is as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Depreciation of fixed assets cost	17,079.46	84.47%	27,616.58	86.99%	37,753.92	83.98%
Daily maintenance costs	3,139.74	15.53%	4,131.67	13.01%	7,203.12	16.02%
total	20,219.20	100.00%	31,748.25	100.00%	44,957.05	100.00%

During the reporting period, the overall situation of the issuer's unit price, unit cost, annual effective power generation hours and power generation is as follows:

project	2019 year	2018 year	2017 year
Power generation (MWh)	727,905.28	1,302,072.26	1,579,866.53
Effective power generation hours (h)	886.50	1,348.20	1,316.00
Average electricity price excluding tax (yuan /KWh)	0.76	0.72	0.74
Average power generation cost (yuan /KWh)	0.28	0.24	0.28
-Including depreciation (yuan/KWh)	0.23	0.21	0.24
-The maintenance cost (yuan /KWh)	0.05	0.03	0.05

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Note: PV effective power generation hours = power generation / average installed capacity at the beginning and end of the period

The changes in the gross profit margin of the issuer's photovoltaic power generation business in each period of the reporting period are as follows:

Unit: Yuan/W

project	2019 year		2018 year		2017 year	
	Amount	Volatility	Amount	Volatility	Amount	Volatility
unit price	0.76	5.13%	0.72	-2.66%	0.74	-7.95%
unit cost	0.28	13.92%	0.24	-14.31%	0.28	-8.80%
Of which: unit depreciation	0.23	10.63%	0.21	-11.24%	0.24	-7.24%
Unit maintenance cost	0.05	35.93%	0.03	-30.40%	0.05	-16.20%
Unit gross profit	0.48	0.65%	0.48	4.59%	0.46	-7.60%

Note: The amount in the above table is rounded to two decimal places, the volatility is directly calculated, and there is a tail difference

During the reporting period, changes in the unit price, unit depreciation, and unit maintenance costs of the photovoltaic power generation business contributed to the gross profit margin as follows:

project	2019 year	2018 year	2017 year
Effect of unit price	1.65 percentage points increase	1.05 percentage point reduction	0.34 percentage points lower
Effect of unit depreciation	Reduced by 2.97 percentage points	Increased by 3.72 percentage points	Reduced by 2.51 percentage points
The impact of unit maintenance costs	1.50 percentage point reduction	1.92 percentage points increase	1.19 percentage points increase
Change in gross profit margin	1.65 percentage points increase	Increased by 4.59 percentage points	Increased by 0.36 percentage points

Note: The impact of unit price = (unit price of the current period-unit cost of the previous period) / unit price of the current period-gross profit margin of the previous period

The impact of unit depreciation = (previous period unit depreciation-current period unit depreciation) / current unit price

The impact of unit maintenance costs = (previous unit maintenance costs-current unit maintenance costs) / current unit price

Gross profit margin of the current period-gross profit margin of the previous period = impact of unit price + impact of unit cost

The unit price, unit depreciation, and unit maintenance costs in the above table are rounded to two decimal places. The contribution to the gross profit margin is directly calculated.

There is a tail difference

During the reporting period, the issuer's photovoltaic power generation business was affected by policy guidance, and the decline in the

The number of electricity hours increased, and the gross profit margin increased slightly.

In summary, the simultaneous decline in the rate of abandonment is due to the issuer's power generation business and operation and maintenance a

The main reason for the stable business gross profit margin.

⑤ Intelligent microgrid and multi-energy system

During the reporting period, the gross profit margin of the issuer's smart micro-network and multi-energy system is as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year

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	income	cost	Gross margin	income	cost	Gross margin	income	cost	gross profit rate
Energy storage business	975.09	1,215.14	-24.62%	9,061.79	8,867.59	2.14%	10,697.20	10,524.89	1.61%
Can manage wisdom energy	63.72	62.77	1.48%	436.75	378.09	13.43%	184.95	175.82	4.94%
intelligent Microgrid	1,668.72	1,627.38	2.48%	591.74	339.48	42.63%	-	-	-
total	3,597.80	3,691.31	-2.60%	10,102.39	9,595.84	5.01%	10,882.15	10,700.71	1.67%

The issuer's smart microgrid and multi-energy system products are divided into energy storage business, energy management business, smart energy service business and other businesses. Among them, the energy storage business accounts for a relatively high proportion of revenue. And the main reason for the fluctuation of gross profit margin of multi-energy system.

The main reason for the large fluctuations in the gross profit margin of this business is that since 2016, the issuer has

The exploration in the field has just started, the overall scale of related businesses is small, and it is still in the promotion stage. Therefore, Mao

Interest rates fluctuate greatly.

(2) Compared with the gross profit margin of comparable listed companies

During the reporting period, the gross profit rate indicators of comparable companies in the same industry are as follows:

company name	2019 year	2018 year	2017 year
Yijing Optoelectronics	10.13%	14.07%	13.34%
GCL Integration	9.99%	13.12%	11.92%
Oriental Risen	20.92%	18.11%	16.92%
Average domestic comparable company	13.68%	15.10%	14.06%
JinkoSolar	18.26%	14.03%	11.30%
Canadian Solar	22.45%	20.70%	18.81%
JA Solar	21.27%	18.58%	15.23%
Average overseas comparable company	20.66%	17.77%	15.11%
Average domestic and overseas	17.17%	16.44%	14.59%
Same industry company scope	9.99%-22.45%	13.12%-20.70%	11.30%-18.81%
Trina Solar	17.59%	15.92%	17.38%

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During the reporting period, the company's main business gross profit margin was basically the same as that of comparable companies in the same industry. The reason for the difference is that the industrial chain of listed companies in the photovoltaic industry is longer, from the upstream crystalline silicon b... Ingots, to the cells and photovoltaic modules in the midstream, and then to the downstream photovoltaic power plants, the gross profit margin is differen... Although there are certain similarities with listed companies in the same industry in terms of main business, each listed company has... There are big differences in product structure, which leads to the market competition pattern and new product development faced by various companies. There are differences in development difficulty, manufacturing complexity, and business scale, which in turn leads to differences in gross profit margins.

The issuer's main business is photovoltaic modules, system products, power station business, smart microgrid and multi-energy systems, Power generation business and operation and maintenance, etc. Considering the factors of comparability comprehensively, the following select comparal... More photovoltaic modules business, power station project construction management business, and power generation business are compared for gross pi...

①Photovoltaic module business

During the reporting period, the gross profit rate indicators of comparable companies in the photovoltaic module business in the same industry are

company name	2019 year	2018 year	2017 year
Yijing Optoelectronics	7.24%	11.87%	11.79%
GCL Integration	8.72%	11.49%	12.16%
JA Solar	21.02%	18.65%	14.72%
Oriental Risen	18.85%	14.31%	13.82%
JinkoSolar	18.26%	14.03%	11.30%
Industry average	14.82%	14.07%	12.76%
Trina Solar	17.22%	16.35%	15.28%

Data source: related company announcement
Note 1: JA Solar passed the review of the China Securities Regulatory Commission in 2019 and listed on the A-share backdoor. In 2017 and 2018,
The relevant data is taken from "Qinhuangdao Tianye Tonglian Heavy Industry Co., Ltd. Major Asset Sale and Issuance of Shares to Purchase Assets Related Transactions Report", the 2019 data is taken from the annual report of A shares.

JinkoSolar's 2019 annual report did not disclose the gross profit margin of its segmented business.
The revenue of the photovoltaic module business accounted for 96.92%, 96.20% and 95.81% respectively. The component business accounts for a relati...
Therefore, the gross profit margin of its main business is selected for comparison in the same industry.

During the reporting period, the issuer's gross profit margin was relatively close to the industry average, and the trend of change was... In line with the average. In 2017, due to the downward trend in the overall price of the photovoltaic module industry, comparable public... The gross profit margin of the company's photovoltaic modules has declined to varying degrees. Issuer's... The gross profit margin is slightly higher than the industry average, mainly due to the higher gross profit margin of components exported to the United S...

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②Power station business - power station project construction management business

During the reporting period, the gross profit rate indicators of comparable companies in the power station construction management business in the

company name	2019 year	2018 year	2017 year
Yijing Optoelectronics	Not applicable	Not applicable	Not applicable
TBEA	17.15%	19.04%	23.40%
Oriental Risen	15.08%	15.78%	11.33%
Industry average	16.12%	17.41%	17.36%
Trina Solar	15.03%	18.23%	15.14%

Data source: related company announcement

From 2017 to 2018, the issuer's gross profit margin was basically the same as the industry average.

In a significant difference. The issuer's gross profit margin in 2019 has declined compared to 2018, mainly

Due to the decline in the gross profit rate of the power station business in South America, the 100MW power station project in Mexico in South America

During the expansion stage, the gross profit margin is low.

③Power generation business and operation and maintenance business - power generation business

During the reporting period, the gross profit rate indicators of comparable companies in the power generation business industry are as follows:

company name	2019 Nian	2018 year	2017 year
Yijing Optoelectronics	68.96%	67.38%	67.38%
Zhongli Group	55.40%	47.23%	53.92%
Oriental Risen	56.39%	64.79%	66.92%
Longji shares	65.10%	63.11%	71.55%
JA Solar	65.07%	62.18%	55.04%
Industry average	62.18%	60.94%	62.96%
Trina Solar	63.44%	66.26%	61.67%

Data source: annual reports of comparable companies

Note 1: JA Solar passed the review of the China Securities Regulatory Commission in 2019 and listed on the A-share backdoor. In 2017 and 2018,

The relevant data is taken from "Qinhuangdao Tianye Tonglian Heavy Industry Co., Ltd. Major Asset Sale and Issuance of Shares to Purchase Assets Related Transactions Report", the 2019 data is taken from the annual report of A shares.

During the reporting period, the issuer's gross profit margin for power generation business was basically the same as that of comparable companies. Comparable companies' gross profit margin differences are relatively small.

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(4) Taxes and surcharges

During the reporting period, the company's tax and additional details are as follows:

Unit: ten thousand yuan

project	2019 year	2018 year	2017 year
Urban maintenance and construction tax	4,563.84	4,274.28	6,769.64
Education surcharges and			
Local education surcharges	3,280.88	3,064.87	5,007.59
Stamp duty	1,977.17	2,613.87	4,332.18
land holding tax	837.81	1,439.19	1,801.52
property tax	1,913.65	1,982.50	1,815.69
Business tax	-	-	0.19
other	590.81	595.71	574.15
total	13,164.16	13,970.42	20,300.94
Of operating income			
proportion	0.56%	0.56%	0.78%

During the reporting period, taxes and surcharges were 203,094 million yuan, 139,704,200 yuan and 13,164.16 yuan respectively.

Ten thousand yuan, accounting for 0.78%, 0.56% and 0.56% of current operating income respectively.

In 2019, the issuer's land use tax declined rapidly, mainly due to the issuer's location in Tuokexun County, Xinjiang.

The power station covers a large area and accounted for a relatively high amount of land use tax in previous years, but the power station has been Sold in May.

(5) Period cost

During the reporting period, the composition of the company's period expenses is as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Accounted for Proportion	Amount	Accounted for Proportion	Amount	Accounted for Proportion
sales expense	138,170.88	5.92%	114,394.56	4.57%	147,914.42	5.65%
Management fees	92,653.66	3.97%	88,554.59	3.53%	86,481.96	3.31%
R&D expenses	29,843.53	1.28%	22,134.16	0.88%	20,212.93	0.77%
Financial expenses	35,392.73	1.52%	66,133.56	2.64%	72,873.96	2.79%
total	296,060.81	12.69%	291,216.87	11.62%	327,483.27	12.52%

During the reporting period, the company's period expenses were RMB 3,274,832,700, RMB 2,912,168,700 and

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RMB 296,060.81 million, accounting for 12.52%, 11.62% and 12.69% of operating income respectively.

From 2017 to 2018, as the company's business structure changes, the transportation and storage fees will be reduced accordingly.

Has fallen. The details of the company's expenses during the period are as follows:

1. Sales expenses

During the reporting period, the company's sales expenses are as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Warranty	19,189.12	13.89%	16,844.22	14.72%	22,028.87	14.89%
Transportation and storage fees	68,787.12	49.78%	47,440.41	41.47%	74,730.83	50.52%
employee's salary	28,572.36	20.68%	28,114.10	24.58%	24,788.39	16.76%
Promotion fee	6,523.37	4.72%	9,628.08	8.42%	12,383.88	8.37%
Travel expenses	3,125.97	2.26%	3,634.62	3.18%	3,789.73	2.56%
insurance	1,956.54	1.42%	1,169.03	1.02%	2,139.26	1.45%
Share payment cost	-	-	-	-	151.53	0.10%
Business Hospitality	693.88	0.50%	709.07	0.62%	940.86	0.64%
Material consumption	1,477.66	1.07%	842.94	0.74%	649.67	0.44%
Rental fees	796.27	0.58%	841.17	0.74%	901.49	0.61%
Depreciation and amortization	62.33	0.05%	98.51	0.09%	117.21	0.08%
other	6,986.27	5.06%	5,072.42	4.43%	5,292.70	3.58%
total	138,170.88	100.00%	114,394.56	100.00%	147,914.42	100.00%
Of operating income proportion		5.92%		4.57%		5.65%

During the reporting period, the issuer's sales expenses were RMB 1,479,144,200, RMB 1,143,945,600 and 1,381,708,800 yuan, accounting for 5.65%, 4.57% and 5.92% of operating income respectively, of which the main components are transportation and storage fees, employee salaries and quality guarantee funds.

The issuer's miscellaneous storage fees are mainly due to the large amount of transportation required during the photovoltaic module sales process. Miscellaneous storage fees accounted for a relatively stable proportion of module revenue, which basically matched the photovoltaic module business revenue.

Unit price: ten thousand yuan

project	2019 year	2018 year	2017 year
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Transportation and storage fees	68,787.12	47,440.41	74,730.83
Component sales revenue	1,639,519.55	1,434,568.16	2,167,742.49
Percentage	4.20%	3.31%	3.45%

(1) The specific composition of transportation and storage fees

During the reporting period, the company's sales expenses included the following specific components of transportation and storage fees:

Unit: ten thousand yuan

project	2019 year	2018 Nian	2017 Nian
Transport fees	62,030.74	39,697.64	65,610.45
Storage fee	6,756.38	7,742.77	9,120.38
total	68,787.12	47,440.41	74,730.83

(2) Reasons for changes in freight and miscellaneous expenses and matching relationships

During the reporting period, the issuer's transportation expenses and sales volume of component products are shown in the following table:

project	2019 year	2018 year	2017 year
Domestic sales (10,000 watts)	247,565.64	236,596.48	312,393.72

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Domestic transportation fees (ten thousand yuan)	7,438.58	8,266.88	14,087.71
Unit price of domestic transportation fees (yuan/watt)	0.030	0.035	0.045
Overseas sales (10,000 watts)	628,125.04	423,267.56	533,367.51
Foreign transportation and miscellaneous expenses (ten thousand yuan)	61,348.54	31,430.76	51,522.74
Unit price of overseas transportation fees (yuan/watt)	0.098	0.074	0.097
Total sales (10,000 watts)	875,690.68	659,864.04	845,761.23
Total transportation and miscellaneous expenses (ten thousand yuan)	68,787.12	39,697.64	65,610.45
Unit price of transportation and miscellaneous expenses (yuan/watt)	0.079	0.060	0.078

During the reporting period, the issuer's transportation and miscellaneous expenses were mainly affected by sales volume, sales area, sales model, and the impact of trade terms. The unit price analysis of transportation and miscellaneous expenses is as follows:

①Unit price of domestic freight

During the reporting period, the issuer's domestic unit freight and miscellaneous expenses continued to decrease, mainly due to the proportion of d Change, for domestic sales, most of the corresponding freight is borne by the issuer.

Sales in the western region have been declining year by year, while sales in the eastern region have increased year by year, and the transportation radius The drop.

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②Unit price of overseas transportation and miscellaneous expenses

During the reporting period, the issuer's overseas unit freight rates showed a downward trend and then an upward trend, mainly due to: (1) Sales As a result of changes in the regional structure, the transportation distance of modules in the Americas and Europe is longer, and the corresponding trans The cost is higher, and the change in module shipments will have a certain impact on the overall overseas transportation and miscellaneous expenses; (2) The proportion of different types of trade terms (including the way of bearing freight) agreed by customers has changed.

The details of overseas transportation fees and sales volume are as follows:

area	years	2019 year	2018 year	2017 year
United States	Sales (10,000 watts)	118,599.79	43,769.07	139,294.26
	Transportation fees (ten thousand yuan)	18,232.52	5,401.41	19,843.62
	Unit price of transportation and miscellaneous expenses (yuan/watt)	0.154	0.123	0.142
Europe	Sales (10,000 watts)	180,935.86	171,681.36	122,338.45
	Transportation fees (ten thousand yuan)	23,011.34	12,841.19	11,617.30
	Unit price of transportation and miscellaneous expenses (yuan/watt)	0.127	0.075	0.095
Japan	Sales (10,000 watts)	54,036.99	57,650.63	47,391.44
	Transportation fees (ten thousand yuan)	5,472.26	3,760.05	4,177.98
	Unit price of transportation and miscellaneous expenses (yuan/watt)	0.101	0.065	0.088
other	Sales (10,000 watts)	274,552.41	150,166.50	224,343.36
	Transportation fees (ten thousand yuan)	14,632.42	9,428.10	15,883.84
	Unit price of transportation and miscellaneous expenses (yuan/watt)	0.053	0.063	0.071
total	Sales (10,000 watts)	628,125.04	423,267.56	533,367.51
	Transportation fees (ten thousand yuan)	61,348.54	31,430.76	51,522.74
	Unit price of transportation and miscellaneous expenses (yuan/watt)	0.098	0.074	0.097

0.098

0.074

0.097

Among them, the transportation and miscellaneous charges decreased from 2017 to 2018, mainly due to the U.S. trade protection policy in 2018.

Due to the drop in shipments in the U.S. in 2018.

This is due to the increase in the proportion of FOB in regional trade terms. The fluctuation of unit freight in 2019 is mainly the second in 2019

Shipments were mainly shipped to the eastern United States during the quarter, leading to an increase in unit freight rates.

The FOB clause in the European trade clause in 2018 (that is, the issuer shall bear the

To the port of departure), while the CIP clause (that is, the issuer bears the storage fee, and the freight and miscellaneous fee covers the customer

The proportion of project sites has declined. Therefore, the unit price of sales and miscellaneous charges in the European region in 2018 decreased significantly

The fluctuation of the unit price of shipping and miscellaneous charges in 2019 is mainly due to the transportation cost of shipping to France, Italy, Israel

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The proportion of higher countries rose.

Among them, the unit transportation and miscellaneous rates in Japan decreased from 2017 to 2018, mainly due to the

This is due to the increase in the proportion of FOB in trade terms in this region. The increase in unit transportation and miscellaneous rates in 2019 is mainly

The logistics costs (truck fees, fuel, labor costs, etc.) in the region are caused by price increases.

In summary, with the changes in the issuer's overall sales regional structure and changes in trade terms, the issuance

The transportation and miscellaneous rates per person showed a downward trend and then an upward trend.

③ Reasons and rationality of changes in storage fees

There is no clear correspondence between the number of warehousing contracts and warehousing costs. Due to geographical and area reasons,

The amount of each warehousing contract varies greatly.

From the perspective of the regional distribution of storage costs, the storage costs of major countries or regions are

The proportion of the quantity is as follows:

Unit: ten thousand yuan									
area	2019 year			2018 year			2017 year		
	Storage fee	Sales (10,000 watts)	unit Warehouse Fee (yuan / Watts)	Storage fee	Sales (10,000 watts)	unit Warehouse Fee (yuan / Watts)	Storage fee	Sales (10,000 watts)	unit Warehouse Fee (yuan / Watts)
China	2,395.91	247,565.64	0.010	2,883.23	236,596.48	0.012	2,746.57	312,393.72	0.009
Europe	1,487.22	180,935.86	0.008	1,999.86	171,681.36	0.012	1,646.41	122,338.45	0.013
United States	1,562.77	118,599.79	0.013	915.89	43,769.07	0.021	2,636.67	139,294.26	0.019
other	1,310.48	328,589.40	0.004	1,943.79	207,817.13	0.009	2,090.71	271,734.80	0.008
total	6,756.38	875,690.68	0.008	7,742.77	659,864.04	0.012	9,120.38	845,761.23	0.011

Sales expenses-warehousing fees are mainly related to the supplier's warehousing management services (goods warehousing, warehousing, loading

Daily operations of warehouse management such as quality acceptance, shelf loading, cleaning, and month-end inventory management services), distribu

Transportation, sorting, distribution, review, packaging and other services), return and exchange services (return and exchange receipt, inspection,

Re-listing or returning to the factory and other services), bills and data services (providing the issuer with invoicing goods data). 2017

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. By 2018, the issuer's unit price of storage fees was relatively stable. In 2019, the unit price reduction of storage fees in the United States was mainly due to the fact that some components are sold directly from the place of production to the destination of American customers, and no longer pass through the storage of the issuer.

During the reporting period, the per capita salary of the company's sales staff is as follows:

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Unit: ten thousand yuan

project	2019 year	2018 year	2017 year
Selling expenses-employee compensation	28,572.36	28,114.10	24,788.39
Per capita salary of sales staff	43.82	35.27	38.25

Note: Per capita salary = sales staff salary \times 2 / (number of sales staff at the beginning of the period + number of sales staff at the end of the period)

The per capita salary of sales staff decreased in 2018 compared with 2017, mainly due to the implementation of the "Policy", business declines, and sales staff bonuses are reduced.

The per capita salary of sales staff increased in 2019 compared with 2018, mainly due to the issuer component in 2019 Revenue from business and power plant construction management business increased, and sales staff bonuses increased.

During the reporting period, the issuer's warranty deposits were all accrued at 1% of PV module sales, and there was no change.

Unit: ten thousand yuan

project	2019 year	2018 year	2017 year
Warranty	19,165.69	16,844.22	22,028.87
Other income warranty	921.93	2,498.54	351.45
Component income warranty money (a)	18,243.75	14,345.68	21,677.42
Component sales revenue (b)	1,639,519.55	1,434,568.16	2,167,742.49
Actual proportion (a/b)	1.11%	1.00%	1.00%

Note: In 2019, the actual percentage of component revenue quality assurance fund is higher than 1%, mainly due to the higher cost of components replaced during the current period. Based on the principle of prudence, the portion exceeding 1% will be included in the current warranty.

During the reporting period, the issuer carried out a 25-year quality assurance for the component products it sold. The issuer has established a product quality guarantee deposit system. The characteristics of the products and the historical records of returns and exchanges, as well as the relevant accrual ratios of listed companies in the same industry are the basis for the issuer to set the product quality guarantee deposit. The product quality guarantee deposit is based on 1% of the component sales revenue, which is basically the same as that of comparable listed companies. To, as follows:

company name	Stock code	Warranty deposit
JinkoSolar	JKS.N	According to industry experience, 1% of the component sales revenue will be withdrawn as product quality guarantee deposit
JA Solar	JASO.O	Accrued at 0.5% of module sales revenue
Artes	CSIQ.O	Accrued at 1% of PV product sales
Yijiang Optoelectronics	600537.SH	The sales of solar cell modules that have purchased quality insurance are based on 1% of their sales revenue
		Withdraw product quality guarantee deposit;
		For those who have not purchased quality insurance, the product quality deposit shall be withdrawn at 1.5% of their sales income

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2. Management expenses

During the reporting period, the company's management expenses are as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
employee's salary	49,359.76	53.27%	47,644.52	53.80%	45,048.21	52.09%
Legal affairs, auditing, etc.	9,954.17	10.74%	9,765.61	11.03%	9,436.00	10.91%
Business service fee						
Depreciation and amortization	3,311.53	10.05%	8,542.29	9.65%	7,238.71	8.37%
Share payment						
cost	-	-	-	-	1,268.80	1.47%
insurance	4,644.91	5.01%	3,787.55	4.28%	4,716.72	5.45%
Rental fees	3,817.05	4.12%	3,331.40	3.76%	2,291.33	2.65%
Travel expenses	3,337.10	3.60%	2,263.78	2.56%	2,065.47	2.39%
Taxes and surcharges	-	-	-	-	-	-
Hospitality	1,160.23	1.25%	1,354.68	1.53%	948.05	1.10%
Office expenses	5,130.10	5.54%	4,081.69	4.61%	3,666.28	4.24%
Material consumption	570.18	0.62%	316.29	0.36%	384.52	0.44%
Recruitment fees	340.77	0.37%	849.28	0.96%	718.95	0.83%
other	5,027.86	5.43%	6,617.49	7.47%	8,698.92	10.06%
total	92,653.66	100.00%	88,554.59	100.00%	86,481.96	100.00%
Of operating income						
proportion		3.97%		3.53%		3.31%

During the reporting period, the issuer's administrative expenses were RMB 864,819,600, RMB 885,545,900 and 92,653.66, respectively.

Ten thousand yuan, accounting for 3.31%, 3.53% and 3.97% of operating income respectively, of which the main components are

Employee compensation and professional service fees such as legal affairs and auditing.

During the reporting period, the per capita salary of the company's management personnel is as follows:

Unit: ten thousand yuan

project	2019 year	2018 year	2017 year
Administrative expenses-employee compensation	49,359.76	47,644.52	45,048.21
Per capita salary of managers	23.65	22.70	21.82

Note: Per capita salary = management staff salary × 2 / (number of management staff at the beginning of the period + number of management staff at the end of the period)

The salary of the company's management staff is 218,200 yuan, 227,700 yuan, and 236,500 yuan respectively.

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Relatively stable.

(1) The composition, number, salary composition, bonus and performance of personnel included in management expenses during the reporting period

The issuer shall set up departments and personnel accordingly in accordance with its own strategic development and business development needs. At the end of each period of the reporting period, the issuer’s departmental composition and number of personnel included in management expenses are

Department name	2019/12/31		2018/12/31		2017/12/31	
	Number of people	Percentage	Number of people	Percentage	Number of people	Percentage
Legal Affairs Department	34	1.67%	27	1.26%	25	1.21%
Corporate Shared Services Department	576	28.28%	609	28.50%	624	30.29%
Corporate Branding and Public Affairs Department	20	1.00%	30	1.40%	28	1.36%
The company's comprehensive monitoring and management department	334	16.62%	334	15.63%	284	13.79%
Overseas Power Station Business Department	121	5.94%	100	4.68%	73	3.54%
Energy Cloud Platform Business Department	7	0.34%	17	0.80%	16	0.78%
Global components and overseas distributed wisdom	423	20.77%	443	20.73%	418	20.29%
Energy Business Department						
Asia Pacific Power Station Business Department	27	1.32%	27	1.26%	8	0.39%
Strategic Development Department	8	0.39%	10	0.47%	-	0.00%
China Smart Distributed Energy Business Unit	28	1.38%	53	2.48%	57	2.77%
China Smart Energy System Business Unit	427	20.96%	469	21.95%	509	24.71%
Headquarters platform	20	1.00%	18	0.84%	18	0.87%
total	2,037	100.00%	2,137	100.00%	2,060	100.00%

In order to standardize management and promote the development of the issuer’s business, the issuer has formulated corresponding salary Remuneration incentive policy.

The remuneration of the issuer’s management staff mainly consists of basic salary, allowances, bonuses, and employee benefits. management Staff bonuses are mainly divided into three parts, which are linked to individual performance, company performance, and business department performance. Bonuses are positively related to performance.

During the reporting period, the total remuneration of the issuer’s management personnel is as follows:

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Unit: ten thousand yuan						
management personnel	2019 Nian		2018 Nian		2017 Nian	
Salary	Amount	Percentage	Amount	Percentage	Amount	Percentage
project wage (Including allowance)	29,128.95	59.01%	29,430.40	61.77%	23,668.92	52.54%
bonus	6,687.57	13.55%	4,316.10	9.06%	6,734.32	14.95%
Social Security Reserve						
gold	6,809.52	13.80%	6,403.46	13.44%	5,168.43	11.47%
Welfare fee	6,733.73	13.64%	7,494.57	15.73%	9,476.54	21.04%

29.10.2020 The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

total	49,359.76	100.00%	47,644.52	100.00%	45,048.21	100.00%
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In 2017, the issuer successively launched a number of new business areas and began to build a corresponding team. the Lord To include: Chinese household photovoltaic team, energy Internet business team, energy storage business team, and Tianhe You Equipped with an intelligent solution team and an overseas distributed team. In 2018, the new business and personnel became more stable due to The per capita salary of the issuer’s management personnel remained stable and increased naturally.

(2) The specific composition of professional service fees and reasons for changes

During the reporting period, the specific composition of the issuer’s management fees—professional service fees is as follows:

Unit: ten thousand yuan						
classification	2019 year		2018 Nian		2017 Nian	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Consulting fee	6,451.18	64.81%	6,688.55	68.49%	5,019.46	53.19%
Legal fees	2,621.11	26.33%	2,419.58	24.78%	3,485.00	36.93%
Audit fees	674.84	6.78%	449.74	4.61%	567.72	6.02%
other	207.03	2.08%	207.73	2.13%	363.82	3.86%
total	9,954.17	100.00%	9,765.61	100.00%	9,436.00	100.00%

Management expenses during the reporting period—professional service fees mainly consist of consulting fees, legal fees, audit fees and other Service fee composition. Among them, consulting fees and legal fees account for a relatively high proportion.

Consulting fees are mainly project development consulting service fees, technical development plan consulting service fees and tax consulting serv Service fee. The overall increase in consulting fees during the reporting period was mainly due to the relative Should be increased, which will increase consulting costs.

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Legal fees mainly refer to fees paid to lawyers. The legal fees in 2017 were higher, mainly The more intensive US lawyers’ service fees related to double anti-counterfeiting cases.

(3) Reasons for changes in depreciation and amortization, and the matching relationship between fixed assets and intangible assets

During the reporting period, the depreciation and amortization amounts are as follows:

Unit: ten thousand yuan			
project	2019 Nian	2018 Nian	2017 Nian
Depreciation of fixed assets	7,292.51	6,947.25	5,989.73
Intangible asset amortization fee	2,019.02	1,595.04	1,248.98
total	9,311.53	8,542.29	7,238.71

During the reporting period, the depreciation of fixed assets included in the management expenses is the office equipment and the management dep Building depreciation expenses, the original value of fixed assets related to management expenses and depreciation expenses during the reporting period

Unit: ten thousand yuan			
project	2019 Nian	2018 Nian	2017 Nian
Original value of fixed assets at the end of the reporting period	110,331.20	110,331.20	104,059.14

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Depreciation of fixed assets	7,292.51	6,947.25	5,989.73
Depreciation rate	6.53%	6.30%	5.76%

Note: Depreciation rate = depreciation of fixed assets / original value of fixed assets at the end of the period

During the reporting period, the issuer's management expenses—fixed assets depreciation expenses and the original value of fixed assets basically Consistent.

During the reporting period, the amortization of intangible assets included in management expenses was mainly software amortization and distribu The original value of intangible assets related to administrative expenses and depreciation expenses during the reporting period is as follows:

Unit: ten thousand yuan			
project	2019 Nian	2018 Nian	2017 Nian
Original value of intangible assets at the end of the period	45,187.95	43,742.95	42,946.99
Intangible asset amortization fee	2,019.02	1,595.04	1,248.98
Amortization rate	4.41%	3.65%	2.91%

Note: Amortization rate = amortization fee of intangible assets / original value of intangible assets at the end of the period

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The original value of intangible assets included in management expenses in 2018 increased compared with 2017, and the amortization fee of intang The increase was mainly due to the company's purchases of software including transportation management systems and warehousing systems at the end Software, data quality management system and global website system.

The original value of intangible assets included in management expenses in 2019 increased compared with 2018, and the amortization fee of intang The increase is mainly due to the fact that the issuer obtained a new power engineering construction project worth RMB 24,889,900 in 2019. Cost secondary qualification.

(4) Reasons for changes in office expenses, insurance expenses, lease expenses and travel expenses, and the issuer's business operations Matching relationship

During the reporting period, the details of office expenses, insurance expenses, lease expenses and travel expenses are as follows:

Unit: ten thousand yuan						
classification	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Office expenses	5,130.10	5.54%	4,081.69	4.61%	3,666.28	4.24%
insurance	4,644.91	5.01%	3,787.55	4.28%	4,716.72	5.45%
Rental fees	3,817.05	4.12%	3,331.40	3.76%	2,291.33	2.65%
Travel expenses	3,337.10	3.60%	2,263.78	2.56%	2,065.47	2.39%
total	16,929.15	18.27%	13,464.43	15.20%	12,739.80	14.73%

Note: Proportion refers to the proportion of the expenses in the current management expenses

During the reporting period, office expenses mainly consisted of property management fees, utilities, communication fees and other office expense The issuer's daily operating fixed costs, and the growth trend during the reporting period is consistent with the issuer's business operations.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

During the reporting period, insurance premiums were mainly composed of property insurance and specific contract insurance. In 2018, insurance The main reason is that in 2018 the issuer chose a more favorable specific contract insurance method, which made 2018 The annual insurance premium decreased by RMB 9,291,700 compared with 2017.

During the reporting period, the leasing fee mainly consisted of office house leasing, green plant leasing, car leasing and other leasing fees. The increase in rental fees in 2018 and 2019 was mainly due to the issuer's increase in North America and Europe based on business needs The office location and improvement of the office environment are consistent with the issuer's business operations.

The travel expenses during the reporting period were RMB 20,654,700, RMB 22,637,800, and RMB 33,371,100 respectively. The increase in per capita travel expenses in 2019 was mainly due to the relatively rapid development of the issuer's overseas business and the increase i

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Liters, as follows:

Unit: ten thousand yuan

classification	2019 year	2018 year	2017 year
Travel expenses	3,337.10	2,263.78	2,065.47
Number of management staff	2,073.00	2,137	2,060
Per capita travel expenses	1.61	1.06	1.00

3. R&D expenses

During the reporting period, the company's R&D expenses are as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Material consumption	12,169.99	40.78%	5,693.07	25.72%	3,838.21	18.99%
employee's salary	9,183.31	30.77%	7,856.50	35.49%	7,435.10	36.78%
Depreciation and amortization	4,306.47	14.43%	4,400.80	19.88%	4,962.74	24.55%
Certification fee	536.31	1.80%	314.30	1.42%	395.58	1.96%
Utility bill	1,148.17	3.85%	1,323.04	5.98%	1,640.58	8.12%
inspection fees	557.41	1.87%	189.13	0.85%	402.61	1.99%
Repair cost	51.72	0.17%	35.92	0.16%	38.44	0.19%
Travel expenses	323.05	1.08%	501.02	2.26%	237.22	1.17%
Consulting fee	285.54	0.96%	286.33	1.29%	249.54	1.23%
Share-based payment	-	-	-	-	87.45	0.43%
other	1,281.57	4.29%	1,534.04	6.93%	925.45	4.58%
total	29,843.53	100.00%	22,134.16	100.00%	20,212.93	100.00%
Percentage of operating income		1.28%		0.88%		0.77%

In order to continuously improve the technical content and brand advantages of the company's products, the issuer has always attached great importance. Into. During the reporting period, the company's research and development expenses were RMB 202,129,300, RMB 221,341,600 and RMB 29,843.53 million. Ten thousand yuan, accounting for 0.77%, 0.88% and 1.28% of operating income respectively. The company's R&D expenses mainly include Including employee compensation, material consumption, depreciation and amortization, etc.

The material consumption included in the issuer’s R&D expenses is mainly due to the R&D pilot process. report

During the period, the change in material consumption depends on the material consumption of R&D investment in the current period, deducting the im

The difference between the corresponding material consumption. Therefore, the changing trend of material consumption is related to the trial production

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The uncertainty of the result is related.

During the reporting period, the per capita salary of the company's R&D personnel is as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
R&D expenses-employee compensation	9,183.31	7,856.50	7,435.10
Per capita salary of R&D personnel	15.05	12.26	11.39

Note: Per capita salary = salary of R&D personnel × 2/(number of R&D personnel at the beginning of the period + number of R&D personnel at the end of the period)

The company’s R&D staff’s employee salaries were 113,900 yuan, 122,600 yuan, and 150,500 yuan, respectively.

For stability.

During the reporting period, the issuer's main R&D and research projects undertaking R&D investment are as follows:

Unit: ten thousand yuan				
Serial number	project name	2019 year	2018 year	2017 year
1	Anti-PID high efficiency P-type silicon solar cell and module product testing key technology research	completed	194.46	1,672.55
2	Research on accelerated aging test technology of photovoltaic modules	completed	139.34	3,099.96
3	Research and development of fusion technology for full-back crystalline silicon components	completed	2,366.29	4,162.00
4	Research and development of Honey plus project products	Completed	1,218.91	14,556.62
5	High-performance and low-cost N-type crystalline silicon solar cell double glass module production	77.45	5,106.33	1,753.59
6	Product development			
6	Research on new paste and fine printing technology	completed	918.80	1,373.95
7	Research and development of key technologies for high-efficiency standard cells	completed	1,444.94	2,731.26
8	Research on the cleaning equipment of trough wet black silicon textured cells	completed	2,000.26	-
9	Development of integrated component bracket	586.48	3,507.31	163.66
10	Research and development of key technologies for high-efficiency N-type silicon battery manufacturing	3,895.51	1,426.24	-
11	Research and development of new solar photovoltaic module products	2,239.63	completed	-
12	Development of ultra-thin glass and research and development of ultra-thin high-strength glass components	1,811.10	1,097.84	-
13	Research and development of low-cost bifacial battery modules	3,561.14	2,152.59	-
14	Research and development of multi-busbar component technology solutions	1,663.80	completed	-
15	Low-cost battery paste technology development	2,480.33	3,739.23	-
16	Research and development of key technologies for one-step black silicon	completed	3,821.81	-
17	Large silicon wafer technology development	2,805.95	3,787.06	-
18	Research and development of intelligent stacking and high-efficiency, high-strength and lightweight components	4,268.30	completed	-
19	Research and development of key technologies for high-efficiency and high-strength illuminated tile components	1,030.04	completed	-

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Serial number	project name	2019 year	2018 year	2017 year
20	Research and development of new low-cost solar module materials	4,640.96	completed	-
twenty one	Full fusion and co-doped crystal technology development project	1,525.59	completed	-
twenty two	Research on improving the efficiency of N-type solar cell technology	3,991.33	-	-
twenty three	Overall solution for BIPV components and systems	4,279.43	-	-
twenty four	Development of high-efficiency shingled bifacial module materials	2,944.96	-	-
25	Low attenuation rate and high efficiency module technology research and development	3,789.73	-	-
26	Development of efficient double-sided double glass modules	3,155.34	-	-
27	Research on New Differential Double Glass Module	3,074.57	-	-
28	MBB multi-bar high-efficiency module product development	3,194.29	-	-
29	Efficient wire mesh technology development	3,079.92	-	-
30	Efficient PERC new technology development	3,113.89	-	-
31	Research on key technologies of high-efficiency and low-cost solar cell	2,719.95	-	-
32	Millisecond-level minority carrier lifetime polysilicon and silicon tandem solar cell technology Technology R&D	2,370.09	752.37	-
33	Trinapro double-sided double glass segmented frame component design and tracking support Research on key technologies	3,965.19	125.94	-
34	High-efficiency shingled battery technology development	4,154.05	-	-
35	Development of high-speed and high-precision cleaning and cutting technology	2,514.20	-	-
36	Design and development of the combination of components and brackets on the pontoon	2,880.44	-	-
37	High-reliability, high-stability, double-sided double glass module tracking bracket technology the study	2,889.38	-	-
38	Research on Sunflower Photovoltaic Power Generation Technology	3,611.79	-	-
39	Research on key technologies of high-efficiency P-type crystalline silicon cell structure design and simulation Research	2,617.24	-	-
40	Research on Key Technologies of N-type Polycrystalline Silicon Cells with Controllable Attenuation	3,801.60	-	-
41	Research on metallization technology of high-efficiency N-type double-sided battery	2,495.45	-	-

4. Financial expenses

During the reporting period, the company's financial expenses are as follows:

Unit: ten thousand yuan

project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Interest expense	46,618.70	131.72%	60,543.13	91.55%	86,867.93	119.20%
Less: interest capitalization	2,291.13	6.47%	2,049.07	3.10%	3,582.45	4.92%

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project	2019 year		2018 year		2017 year	
	Amount	Percentage	Amount	Percentage	Amount	Percentage

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Less: interest income	8,097.96	22.88%	3,570.55	5.40%	4,458.37	6.12%
Net interest expense	36,229.60	102.36%	54,23.52	83.05%	78,827.11	108.17%
Exchange gains and losses	-4,799.40	-13.56%	7,700.34	11.64%	-8,758.36	-12.02%
Bank fees	4,880.45	13.79%	3,800.78	5.75%	3,918.69	5.38%
Cash Discount	-917.92	-2.59%	-291.08	-0.44%	-1,113.49	-1.53%
total	35,392.73	100.00%	66,133.56	100.00%	72,873.96	100.00%
Of operating income proportion		1.52%		2.64%		2.79%

During the reporting period, the company's financial expenses were RMB 728,739,600, RMB 661,335,600 and 35,392.73, respectively. Ten thousand yuan, accounting for 2.79%, 2.64% and 1.52% of operating income respectively. The company's financial expenses mainly include Including net interest expenses on loans and payables, as well as exchange gains and losses. The financial expenses in 2019 decreased rapidly, On the one hand, it is mainly due to the rapid growth of the company's power station sales since 2018, which makes the interest expenses related to pow On the other hand, the company incurred an exchange loss of approximately RMB 77 million due to exchange rate changes in 2018. In 2019, the company experienced exchange gains of approximately RMB 47.99 million due to exchange rate changes.

Due to the relatively long construction period of the power station project, the issuer shall pay the corresponding loan interest for the power station Capitalization. Changes in exchange gains and losses are largely affected by fluctuations in the RMB exchange rate, as the issuer holds USD loans In 2018 and 2019, the RMB is in the depreciation range against the US dollar, so there is a large exchange loss. However, the RMB appreciated in 2017, so the company received exchange gains that year.

(1) The amount, term, interest rate and interest expenses of bank loans and contractual commitments at the end of the latest period
Wait for the situation

①For the amount, term, interest rate and interest expenses of bank loans and contractual commitments, please refer to this proposal Attachment VI of the share certificate.

②Information on the amount of bills, term, interest rate and interest expense

Unit: ten thousand yuan

Discounted bills	Amount	Bill discount date	Maturity date	discount rate	Discount fee
Industrial Bank	1,000.00	2019/12/4	2020/6/4	2.75%	13.90
Industrial Bank	280.00	2019/10/31	2020/4/17	2.90%	3.81
Bank of Communications	400.00	2019/9/9	2020/9/4	4.35%	17.45

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Industrial Bank	1,500.00	2019/12/4	2020/6/4	2.75%	20.85
Industrial Bank	2,500.00	2019/12/4	2020/6/4	2.75%	34.76
Bank of Communications	200.00	2019/10/28	2020/9/30	4.35%	8.17
Bank of Communications	4,000.00	2019/10/12	2020/10/6	4.35%	609.00
Bank of Communications	8,000.00	2019/2/25	2020/2/20	3.60%	287.20
ABC	20,000.00	2019/8/20	2020/2/17	2.75%	276.53
total	47,880.00	-	-	-	-

(2) Basis for capitalization of borrowing costs

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

According to the "Accounting Standards for Business Enterprises No. 17-Borrowing Costs", "borrowing costs incurred by an enterprise can be directly attributed to the purchase, construction or production of assets that are attributable to the capitalization conditions shall be capitalized and included in the relevant capitalization costs." Assets that meet the conditions for capitalization refer to the fixed assets, investment real estate, inventory and other assets that can be used or sold before they can be used or sold; The borrowing costs that meet the conditions for capitalization refer to the borrowing costs of the borrowed money or the borrowing costs of the general borrowings occupied.

The issuer's power station construction project needs to be purchased and constructed for a long period of time before it can reach the intended use. Attributable to the construction or production of assets that meet the conditions for capitalization, they shall be capitalized and included in the relevant capitalization cost.

(3) Time and amount of capitalization of borrowing costs

The capitalization of borrowing costs occurs during the construction of the power station, and the issuer's borrowing costs are capitalized at the time when the power plant project has begun to be approved, the bank borrowed money to invest in the power plant project construction date, the reference criteria

Capitalization conditions of borrowing costs	Actual company capitalization	whether Satisfy
(1) Asset expenditure has occurred, and asset expenditure includes To pay cash and transfer non-cash capital Expenditure in the form of property or assuming interest-bearing debt;	According to the power station project Starting from the date of establishment	Satisfy
(2) Borrowing costs have incurred;	Loans that have been obtained and put into use cost	Satisfy
(3) Necessary for the assets to reach the intended usable or saleable state The purchase, construction or production activities have already begun.	The construction of the power station project has begun	Satisfy

The capitalized amounts of the company's borrowing costs in 2017, 2018 and 2019 are RMB 35,824,500, RMB 20,490,700 and RMB 22,911,300.

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During the reporting period, the company opened a bank account with Industrial Bank and made deposits, and collected daily deposit interest income. Due to normal business needs, the company shall pay fees such as certificate inquiry fee, transfer handling fee, and payment recovery procedure to Industrial Bank. The amount generated by related businesses is generally small, reasonable and compliant.

5. Comparative analysis of period expense ratio and comparable companies in the same industry

During the reporting period, the comparison between the company's period expense ratio and comparable companies in the same industry is as follows:

project	company name	2019 year	2018 year	2017 year
	Yijing Optoelectronics	4.48%	4.69%	3.84%
	GCL Integration	4.08%	3.82%	3.26%
	Oriental Risen	4.55%	4.67%	3.97%
	Average domestic comparable company	4.37%	4.39%	3.69%
	JinkoSolar	7.56%	6.82%	7.18%
Sales fee	Canadian Solar	5.63%	4.42%	4.60%
Utilization rate	JA Solar	5.66%	4.36%	4.42%
	Average overseas comparable company	6.28%	5.20%	5.40%

	Average domestic and overseas range	5.33% 4.08%-7.56%	4.80% 3.82%-6.82%	4.55% 3.26%-7.18%
	Trina Solar	6.11%	4.57%	5.65%
	Yijing Optoelectronics	3.31%	3.03%	5.70%
	GCL Integration	4.77%	4.53%	3.56%
	Oriental Risen	3.23%	4.05%	3.98%
	Average domestic comparable company	3.77%	3.87%	4.41%
management fee	JinkoSolar	3.56%	3.11%	1.78%
	Canadian Solar	7.59%	6.55%	6.81%
Utilization rate	JA Solar	3.30%	3.95%	3.00%
	Average overseas comparable company	4.82%	4.54%	3.86%
	Average domestic and overseas range	4.29% 3.23%-7.59%	4.20% 3.03%-6.55%	4.14% 1.78%-6.81%
	Trina Solar	4.10%	3.53%	3.31%
	Yijing Optoelectronics	0.13%	0.38%	0.24%
	GCL Integration	4.07%	3.55%	3.76%
Financial expenses	Oriental Risen	0.91%	0.68%	1.04%
Utilization rate	Average domestic comparable company	1.70%	1.54%	1.68%

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project	company name	2019 year	2018 year	2017 year
	JinkoSolar	1.32%	1.18%	0.93%
	Canadian Solar	Not applicable	Not applicable	Not applicable
	JA Solar	2.69%	1.84%	1.80%
	Average overseas comparable company	2.01%	1.51%	1.37%
	Average domestic and overseas range	1.82% 0.13%-4.07%	1.53% 0.38%-3.55%	1.55% 0.24%-3.76%
	Trina Solar	1.57%	2.64%	2.79%

Note 1: Data sources are Wind information, related company prospectus and periodic reports

Note 2: Some indicators are not applicable due to differences in standards

Note 3: JA Solar passed the review of China Securities Regulatory Commission in 2019 and listed on the A-share backdoor. In 2017 and 2018,

The relevant data is taken from "Qinhuangdao Tianye Tonglian Heavy Industry Co., Ltd. Major Asset Sale and Issuance of Shares to Purchase Assets Related Transactions Report", the 2019 data is taken from the annual report of A shares.

The company's sales expense ratio is slightly higher than the average level of domestic comparable companies and is basically the same as that of (The company's sales expense ratio is slightly higher than the average level of domestic comparable companies and is basically the same as that of (

Mainly because the company has more overseas business, the transportation and storage costs for overseas sales are relatively high, and the

The labor costs in China, Australia and other regions are relatively high.

The company's administrative expense ratio is slightly lower than the average of comparable companies, mainly due to the company's

The requirements of the company are caused by separately listing the R&D expenses that were originally combined in the management expenses. Consi

After the impact is listed, the company's management expense ratio is basically consistent with the average level of comparable companies.

From 2017 to 2018, the company's financial expense ratio was higher than the average of comparable companies, mainly due to the company's inte

Due to the large scale. The company's financial expense ratio in 2019 has declined compared with 2018. On the one hand, the company's

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Since 2018, the sales of power stations have grown rapidly, resulting in a significant drop in the interest expenses related to power station financing; on t In 2018, the company suffered an exchange loss of approximately RMB 77 million due to exchange rate changes.

The exchange rate change resulted in an exchange gain of approximately RMB 47.99 million.

(6) Other items in the income statement

1. Asset impairment loss

During the reporting period, the company's asset impairment losses were detailed as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Bad debt loss	-	128.61	10,643.81
Loss of inventory fall	6,187.26	7,177.33	11,526.31
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project	2019 year	2018 year	2017 year
Fixed asset impairment loss	1,092.02	894.52	3,000.19
total	7,279.29	8,200.46	25,170.31
Percentage of operating income	0.31%	0.33%	0.96%

Note: 1. In view of the fact that the company began to implement the "Accounting Standards for Business Enterprises No. 22-Financial Instruments Recognition and Measurement (Revised in 2017)" (Caikuai [2017] No. 7), according to the requirements of the standard, the company will start from January 1, 2019, The expected credit loss due to financial asset impairment provision is accounted for through the "credit impairment loss" account.

2. In 2019, the amount of "credit impairment losses" accounted for RMB 245,327,200, of which bad debt losses on accounts receivable RMB 101,114,300, bad debt loss of other receivables of RMB 142,178,800, bad debt loss of bills receivable of RMB 3.0349 million.

During the reporting period, the company's asset impairment losses were 251,703,100 yuan, 82,04,600 yuan and 7,279.29 yuan, respectively.

Ten thousand yuan. The company's asset impairment losses are mainly composed of bad debt losses, inventory depreciation losses and fixed asset impairment losses.

2. Gains and losses from changes in fair value

During the reporting period, the details of the company's gains and losses from changes in fair value are as follows:

Unit: ten thousand yuan			
Sources of income from changes in fair value	2019 year	2018 year	2017 year
Transactional financial assets	2,392.69	-	-
Of which: the fair value generated by derivative financial instruments	1,443.85	-	-
Value change income			
Bank wealth management products	948.84	-	-
Measured at fair value and its changes are included in the current period			
Financial assets	-	-74.09	-9,579.69
Of which: the fair value generated by derivative financial instruments	-	-74.09	-9,579.69
Value change income			
total	2,392.69	-74.09	-9,579.69

During the reporting period, the gains and losses from changes in fair value were -95.7969 million yuan, -740,900 yuan and RMB 23,926,900 was due to changes in the fair value of undelivered forward foreign exchange settlement and sales contracts caused by exchange rate changes.

As a globalized enterprise, issuers have a relatively high proportion of overseas sales. In order to avoid foreign exchange

The exchange rate risk caused by fluctuations, the issuer based on the foreign currency monetary assets held, the annual overseas business

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Budget and sign a forward foreign exchange contract with the bank. At the end of the reporting period, the company's assets and liabilities for the undeli

The gains and losses from changes in fair value are recognized at the market exchange rate on the balance sheet date, and the delivered part shall be

The cut amount shall confirm the investment income.

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3. Income from asset disposal

During the reporting period, the details of the company's asset disposal income are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Disposal of fixed assets not classified as held for sale			
Production, construction in progress, productive biological assets	361.44	-653.75	-142.14
And intangible assets disposal gains or losses			
Of which: fixed assets	-361.44	-653.75	-142.14
Intangible assets	-	-	-
Construction in progress	-	-	-
total	-361.44	-653.75	-142.14

During the reporting period, the company's asset disposal income was relatively small, mainly from the disposal of some eliminated fixed assets.

4. Investment income

During the reporting period, the company's investment income is as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Long-term equity investment income calculated by the equity method	1,196.89	870.73	953.67
Investment income from disposal of long-term equity investments	296.84	1,201.94	-1,576.84
Income from wealth management products	2,427.63	139.20	450.00
Investment income from disposal of assets held for sale	-	199.54	-
Delivery income of forward foreign exchange contracts	-10,621.54	-25,244.54	2,261.56
Dividends obtained during the holding period of other equity instrument investments income	405.15	-	-
total	10,264.96	-22,833.13	2,088.40
Percentage of operating income	0.44%	-0.91%	0.08%

During the reporting period, the company's investment income mainly came from the delivery of forward foreign exchange contracts.

(1) The background of the company's forward foreign exchange contract business

Globalization is one of the issuer's basic business strategies. The issuer has established branches in more than 40 countries

The products are exported to more than 100 countries or regions around the world; during the reporting period, the issuer's

High, the details are as follows:

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Unit: equivalent to RMB 10,000

Currency	2019 Nian		2018 Nian		2017 Nian	
	Income amount	Percentage	Income amount	Percentage	Income amount	Percentage
RMB	726,674.45	31.16%	1,404,078.67	56.04%	1,054,170.10	40.30%
USD	1,109,256.44	47.56%	741,587.59	29.60%	1,164,602.50	44.52%
EUR	325,849.01	13.97%	258,867.46	10.33%	164,050.98	6.27%
JPY	160,404.81	6.88%	93,919.04	3.75%	135,401.56	5.18%
AUD	8,000.54	0.34%	4,584.64	0.18%	35,911.79	1.37%
INR	541.54	0.02%	603.27	0.02%	429.31	0.02%
GBP	433.24	0.02%	530.26	0.02%	55,831.90	2.13%
THB	190.28	0.01%	151.16	0.01%	155.21	0.01%
other	819.28	0.04%	1,081.69	0.04%	5,304.36	0.20%

Total 2,332,169.59 100.00% 2,505,403.78 100.00% 2,615,857.70 100.00%

The issuer's foreign exchange income needs to be settled and used for domestic procurement and other turnover, in order to effectively avoid foreign exchange rate risk. The exchange rate risk generated requires corresponding hedging business. With the rapid development of domestic photovoltaic manufacturing related to rapid development, the localization rate of related production equipment and raw materials has greatly increased, and the price ratio advantage is prominent. The issuer's main production equipment and raw materials are purchased domestically. The procurement of manufacturing plants also basically originated from the country. During the reporting period, the issuer's purchase of raw materials (Purchase) settlement currencies are as follows:

Unit: equivalent to RMB 10,000

Currency	2019 Nian		2018 Nian		2017 Nian	
	Purchase amount	Percentage	Purchase amount	Percentage	Purchase amount	Percentage
RMB	1,710,570.56	84.38%	1,141,843.76	84.15%	1,620,159.81	78.92%
USD	205,829.02	10.15%	145,966.14	10.76%	340,957.57	16.61%
JPY	79,664.04	3.93%	46,254.30	3.41%	57,660.69	2.81%
EUR	19,841.20	0.98%	14,235.21	1.05%	23,608.60	1.15%
THB	6,263.44	0.31%	3,967.27	0.29%	4,865.25	0.24%
other	5,089.12	0.25%	4,652.44	0.34%	5,659.38	0.28%
total	2,027,257.37	100.00%	1,356,919.12	100.00%	2,052,911.30	100.00%

(2) Reasons and rationality of huge losses

The issuer experienced large hedging losses in 2018, mainly due to the Sino-US trade friction in 2018

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Due to rapid fluctuations in the foreign exchange market:

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

In recent years, as China's trade surplus with the United States continues to expand rapidly, at the end of 2017, the U.S. government A series of trade frictions were initiated by means of anti-dumping and tariff increase. China and the US

Several rounds of trade negotiations have been concluded. The continuous and extensive Sino-US trade frictions have affected the international market e

The movement has had a lasting and far-reaching impact. At the beginning of 2018, the central parity of RMB against the US dollar continued from 6.53

Appreciation, the exchange rate in mid-April was 6.2771, the appreciation was more obvious. In this context, all major banks have done

Unanimous expectations believe that the RMB exchange rate will continue to strengthen during the year. With Trump's tax cuts and dollar interest rate h

The stimulus effect of the U.S. economy and its impact on the macroeconomic fundamentals of major economies have gradually emerged.

A series of risk events in currency countries reversed the exchange rate trend; in May 2018,

U.S. trade frictions escalated. At the end of May, the Sino-U.S. trade negotiations failed to achieve substantive results, and the RMB exchange rate began

Depreciation trend. In mid-June, Trump asked for an additional 10% tariff on China's 200 billion goods.

The currency exchange rate depreciated rapidly. Subsequently, the U.S. imposed taxes on China's 34 billion and 16 billion U.S. dollars of goods, and the

The rate continues to depreciate. On September 18, after the U.S. imposed a 10% tax on China's 200 billion goods, the RMB exchange rate

It depreciated to around 6.86 and reached a high of around 6.97 at the end of October, after which the depreciation trend slowed down.

Note: The exchange rate trend comes from Bloomberg, and related events are compiled from public reports

The issuer's foreign exchange forward transactions in 2018 were mainly concentrated in the first half of the year. The specific operation is based on

The cash flow hedging arrangement is carried out for the forecast of payment, that is, the transaction is carried out on a rolling basis month by month acc

Sell forward US dollars to lock in the RMB amount obtained from future US dollar settlements. Since transactions were concentrated in the first half of 1

The period of holding the contract is generally from six months to one year. Because the forward exchange rate of foreign exchange forward transactions

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The year-on-year difference is quite large. As the exchange rate climbed to 6.87 at the end of September 2018, in order to avoid the loss

The company continued to appreciate and continue to expand. On the one hand, the company adopted an option protection plan, that is, buying US dolla

On the other hand, it was decided to close all foreign exchange transactions in hand at the end of October. Therefore, the foreign exchange

Derivatives delivery lost 252 million yuan.

5. Other income

During the reporting period, the company's other income details are as follows:

Unit: ten thousand yuan

project	2019 year	2018 year	2017 year
Related to income			
Export credit insurance	-	-	8.00
Foreign trade development	482.91	1,034.54	1,205.08
Technology funding and awards	1,714.49	1,510.91	1,039.10
Patent reward	96.18	25.58	84.57
Income tax refund	7.36	37.31	484.05
VAT refund	169.86	708.44	1,579.70
Job stabilization subsidy	110.76	495.42	26.06
Tax subsidy	1.00	270.12	50.00
Interest on interest-free loans	-	-	87.24
Talent development	173.81	-	-
other	2,247.20	4,969.77	810.32
Related to assets			
Infrastructure subsidy	470.72	531.57	127.57
Golden Sun Demonstration Project 2MW	141.47	135.75	139.22
Key laboratory project subsidy	371.28	354.73	364.33
Other project subsidies	1,004.63	1,037.44	1,028.12
total	6,991.68	11,111.56	7,033.36

According to the "Accounting Standards for Business Enterprises" issued by the Ministry of Finance on May 10, 2017, Caikuai (2017) No. 15 No. 16—"Government Subsidies" stipulates that government subsidies related to the daily activities of enterprises shall be included in other income beneficial. The company adopted the future application method for government subsidies that existed since January 1, 2017. Annual government subsidies related to the daily activities of the company are still included in non-operating income.

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6. Non-operating income and expenditure

(1) Analysis of non-operating income

During the reporting period, the company's non-operating income was as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Debt restructuring gains	429.97	738.28	-
government subsidy	2,301.26	12,721.13	-
Supplier compensation and late fees income	300.78	7.83	235.48
Insurance compensation and other income	1,419.62	2,467.82	2,351.60
total	4,451.63	15,935.06	2,587.08
Percentage of total profit	5.12%	22.32%	3.39%

In 2018, the company's non-operating income mainly came from government subsidies unrelated to the company's daily activities.

In 2018, the company's non-operating income increased, mainly because the company received more government subsidies that year.

During the reporting period, the company's government subsidies included in non-operating income are as follows:

Subsidies	Unit: ten thousand yuan		
	2019 (with corporate day Government subsidies not related to daily activities)	2018 (with enterprise Government subsidy)	2017 (with enterprise Policies irrelevant to daily activities)
Related to income			
Restructuring compensation	2,300.00	12,600.00	-
other	1.26	121.13	-
total	2,301.26	12,721.13	-

In May 2018, the Financial Affairs Office of the Changzhou Municipal People's Government and the Changzhou Finance Bureau Opinions of the Government on Accelerating the Development of Modern Financial Services (Chang Zhengfa [2018] No. 41)" Several Opinions on Speeding up Corporate Share Reform and Listing (Chang Zhengfa [2017] No. 107)" and other documents, jointly issued The "Notice on Organizing the Application of Special Funds for the 2017 Changzhou Financial Development (Enterprise Share Reform and Listing) (Changzheng Jinfa [2018] No. 7)", the notice requires that in order to support and promote the Use the capital market to speed up development, and include eligible companies into the "corporate share reform asset reorganization" and other support Surrounding. After the issuer's declaration and approval by the government department, the issuer obtained the The government financial work office and the Changzhou City Finance Bureau approved the documents and received the above compensation in the san

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"Accounting Standards for Business Enterprises No. 16-Government Subsidies [Cai Kuai 2017 (No. 15)]" Article 2 and Article 2 The three articles define the definition and characteristics of government subsidies as follows: "Government subsidies in this standard refer to Enterprises obtain monetary or non-monetary assets from the government for free"; "government subsidies have the following characteristics: ① It is economic resources from the government. There is conclusive evidence for subsidies received by enterprises from other parties It is indicated that the government is the actual disburser of the subsidy, and other parties only play the role of collection and payment, the subsidy also t Economic resources derived from the government; ②It is free, that is, the enterprise obtains economic resources from the government without Need to deliver goods or services to the government. "

In accordance with the provisions of the above standards, the RMB 126.0 million is a monetary economy obtained free of charge from the governn assets. After reviewing the bank bills for making payments of RMB 126.0 million, the payer was the Xinbei District Council of Changzhou City The calculation center is indeed derived from the monetary economic resources of the government; in addition, the currency of RMB 126 million Sexual assets do not need to be priced in the delivery of goods or services to the government, which reflects the economic Economic resources are free of charge, so the economic benefit flow from the government's RMB 126.0 million in monetary assets In accordance with the "Accounting Standards for Business Enterprises No. 16-Government Subsidies [Cai Kuai 2017 (No. 15)]", it should be It is recognized as a government subsidy and the accounting treatment is carried out in accordance with the provisions of government subsidies.

In addition, the related costs and expenses based on the government subsidy have been incurred and are not used to compensate the issuer's structu The establishment of long-term assets such as fixed assets and intangible assets, which have nothing to do with the daily production and operation activi Government subsidies considered to be related to income are included in the "non-operating income" subject.

In each period of the reporting period, the government subsidies obtained by the company have a clear legal or policy basis, and all have obtained

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The government department's approval document or the government department that has already issued relevant subsidies for confirmation. In each period, please refer to the appendix of this prospectus for information about government subsidies, including funding channels, subsidy ownership, and subsidy details.

(2) Analysis of non-operating expenses

During the reporting period, the specific composition of the company's non-operating expenses is as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Losses from debt restructuring	23.39	437.56	16.91
Donation expenditure	35.00	560.28	146.39
Fines and late fees	156.38	63.07	216.49
Compensation payments	412.26	26.79	5.25
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project	2019 year	2018 year	2017 year
other	572.27	809.99	527.98
total	1,199.30	1,897.68	913.02
Percentage of total profit	1.39%	2.66%	1.20%

During the reporting period, the issuer's non-operating expenses mainly included debt restructuring losses and external donations. Out of business Expenses account for a low percentage of total profits.

7. Income tax expenses

During the reporting period, the company's income tax expenses are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Current income tax expense	33,854.57	6,603.08	26,658.64
Deferred income tax expense	-17,727.15	7,010.46	-9,338.75
Final settlement difference	629.28	501.58	218.67
total	16,756.71	14,115.12	17,538.56
The total profit	86,981.24	71,389.55	76,327.52
Comprehensive income tax rate	19.26%	19.77%	22.98%

During the reporting period, the company's income tax expenses were 175,385,600 yuan, 141,151,200 yuan and 175,385,600 yuan respectively. The comprehensive income tax rate is 22.98%, 19.77% and 19.26% respectively. About deferred income tax assets and deferred income tax liabilities, please refer to "12/(1)/3/(11) Deferred Income Tax in this section Assets, deferred income tax liabilities".

(7) Non-recurring gains and losses and minority shareholders' equity

During the reporting period, the company's non-recurring gains and losses and minority shareholders' equity are detailed in the section "IX. Non-recurring gains and losses and minority shareholders' equity".

(8) Share payment

1. Background of share-based payment

TSL was established in March 2006 and listed on the New York Stock Exchange in December 2006. In March 2017 In December, TSL completed the privatization transaction and delisted from the New York Stock Exchange.

Since 2006, TSL has implemented equity incentives for its directors, supervisors, senior managers and other employees.

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Incentive plan ("Share Incentive Plan"), the share incentive plan mainly includes options (Option) and Restricted Shares. During the listing on the NYSE, TSL's equity-settled share payments Accounting for the aforementioned employee equity incentive plan.

2 , TSL privatization alternatives to employee stock incentive plan

In March 2017, TSL completed the privatization transaction. According to the merger agreement, on the merger day, TSL's Both options and restricted stocks automatically cease to exist. The company uses an incentive period, benefit conditions and original incentives. It has been replaced by a consistent payment plan, as follows:

Types of	condition	Alternative way	
		Cash consideration	Conditions for obtaining consideration
Option	Uncured Option	US\$0.232 per common share exceeds the exercise price of the uncured option	Original Equity Incentive Granting Association
		Amount (if the value is greater than zero), multiplied by the general	When the ban is lifted
		The number of shares; but if the exercise price of any uncured option is less than US\$0.232 per common share, the uncured option will be not exercised	Sometimes still in office
		Without any cash payment	State, will get cash price
Option	Cured But not yet Exercised Option	US\$0.232 per common share exceeds the exercise price of this type of cured option	
		The amount of the box (if the value is greater than zero), multiplied by the ordinary	Immediately after completion of privatization
		The number of shares; but if the exercise price of any such solidified option is equal to or greater than	obtain
		At US\$0.232 per common share, the cured option will be cancelled, Without any cash payment	
limit	Sex stock limit		Original Equity Incentive Granting Association
		Uncured limits	When the ban is lifted
		The cash consideration that the holder will receive: \$0.232 per common share,	Sometimes still in office
		Multiply by the number of ordinary shares corresponding to the uncured restricted stock incentive	State, will get cash price
Sex stocks ticket	Cured But not out Sale limit Controlling stock ticket		
		The cash consideration that the holder will receive: The cash consideration that the holder will receive: Immediately after completion of privatization	
		US\$0.232 per common share, multiplied by the solidified restricted stock	obtain
		Number of common shares	

Note 1: The option exercise price does not need to be actually paid to the company by the holder of the uncured option

Note 2: The actual employee's option exercise payment is less than 0.232 US dollars per share

Note 3: "Vested" options/restricted stocks refer to the period that meets the grant conditions and has actually been granted to employees

Right/restricted stock

3. Accounting treatment of equity incentive plans

As of March 2017 when the privatization of TSL is completed:

(1) For the solidified options/restricted stocks, the holder has actually become (or can do so at any time)

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And become a shareholder of TSL, therefore, the cash paid by TSL according to the aforementioned alternative method belongs to TSL Transactions with its shareholders will not affect TSL's own current profits and losses.

(2) For uncured options/restricted stocks, according to the Accounting Standards for Business Enterprises No. 11—"Share Payment" and other rules define the definition of share payment. The determination of share payment shall be based on the relevant equity instrument. Based on fair value, whether an incentive granted to employees belongs to the scope of share-based payment and the incentive. Whether the final payment consideration is closely related to the value of the granting party's equity instruments is the basis for judgment. Due to uncure. The amount of cash that option/restricted stock holders can obtain after the end of the waiting period and TSL's equity at settlement. The fair value of the tool is no longer relevant, so the revised payment plan no longer meets the definition of share-based payment. It is an employee compensation.

4. The company's share payment settlement situation

During the reporting period, the settlement of the aforementioned share-based payment is as follows:

Unit: ten thousand yuan

project	2019 Nian	2018 year	2017 year
The total amount of expenses confirmed by equity-settled share payments in the current period.		1,507.79	

12. Asset quality analysis

(1) Asset structure analysis

1. Analysis of asset composition

During the reporting period, the company's main asset composition is as follows:

Unit: ten thousand yuan

project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Current assets	2,233,922.77	61.22%	1,878,066.84	63.43%	2,719,004.53	73.60%
Non-current assets	1,415,200.70	38.78%	1,082,694.30	36.57%	975,398.67	26.40%
total assets	3,649,123.47	100.00%	2,960,761.14	100.00%	3,694,403.20	100.00%

At the end of each reporting period, the company's total assets were RMB 36,944,032 million and RMB 29,600,611,400 respectively. And RMB 36,491,234,700.

At the end of each reporting period, the company's total current assets accounted for 73.60% and 63.43% of total assets, respectively. And 61.22%, the proportion of total non-current assets to total assets were 26.40%, 36.57% and 38.78%.

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At the end of 2018, both the amount and proportion of the company's current assets decreased, mainly due to the company's sales of more power station

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Make the amount of inventory drop.

2. Analysis of main current assets

At the end of each reporting period, the company's current assets are as follows:

project	Unit: ten thousand yuan					
	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Money funds	582,744.95	26.09%	436,483.01	23.24%	442,519.40	16.28%
At fair value						
Amount and its variation	-	-	417.28	0.02%	563.25	0.02%
Into the current profit and loss						
monetary assets						
Transactional financial financing	173,394.73	7.76%	-	-	-	-
Produce						
accounts receivable	466,037.80	20.86%	484,354.17	25.79%	494,561.28	18.19%
Receivable financing	119,868.50	5.37%	-	-	-	-
bill receivable	-	-	132,053.23	7.03%	241,413.09	8.88%
Prepayments	71,292.54	3.19%	18,380.74	0.98%	43,026.60	1.58%
Other receivables	155,491.61	6.96%	110,708.78	5.89%	53,43.92	2.02%
stock	561,682.85	25.14%	540,158.03	28.76%	1,192,175.02	43.85%
Holding assets for sale	2,803.75	0.13%	-	-	8,714.12	0.32%
Due within one year	7,010.02	0.31%	7,374.59	0.39%	-	-
Non-current assets						
Other current assets	93,596.01	4.19%	148,137.02	7.89%	240,987.84	8.86%
Total current assets	2,233,922.77	100.00%	1,878,066.84	100.00%	2,719,004.53	100.00%

At the end of each reporting period, monetary funds, accounts receivable and inventory are the main components of the company's current assets.

At the end of 2017, 2018, and 2019, the total proportion of the company's current assets was 78.31%, 77.79% and 72.09%.

At the end of each reporting period, the specific analysis of the company's current assets is as follows:

(1) Monetary funds

At the end of each reporting period, the company's monetary capital structure is as follows:

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Trina Solar Co., Ltd.

Prospectus

project	Unit: ten thousand yuan					
	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
cash in stock	37.12	0.01%	17.45	0.00%	23.93	0.01%
Bank savings	383,489.40	65.81%	254,841.94	58.39%	272,212.78	61.51%
Other monetary fund	199,218.44	34.19%	181,623.62	41.61%	170,282.70	38.48%
total	582,744.95	100.00%	436,483.01	100.00%	442,519.40	100.00%

At the end of each period of the reporting period, the company's monetary capital balance was RMB 4,425,194,400 and RMB 4,364,830,100 respec

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

And RMB 5,827,449,500, accounting for 16.28%, 23.24% and 26.09% of current assets, respectively.

The company's monetary funds are mainly composed of bank deposits and other monetary funds, of which other monetary funds are mainly for insurance

Letter margin, loan margin, letter of credit margin, bank acceptance bill margin and power station loan margin

Wait.

The amount of monetary funds at the end of 2019 increased from the end of 2018, mainly due to the company's component business operations and

Receipts are in good condition, due to the increase in cash inflows from operating activities.

At the end of each reporting period, the company's other monetary capital details are as follows:

project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	Unit: ten thousand yuan
			2017 Nian 12 Yue 31 Ri
Guarantee deposit	85,687.35	53,738.32	57,534.69
Loan margin	32,325.59	80,453.27	42,924.36
Letter of Credit Margin	2,115.50	30,177.46	7,028.60
Bank Acceptance Draft Margin	73,785.71	14,469.53	57,093.20
Dedicated account for power station loan deposit and repayment	-	-	2,915.41
Other accounts with restricted funds	5,304.28	2,785.04	2,786.43
total	199,218.44	181,623.62	170,282.70

At the end of each reporting period, the company's balance of other currency funds remained stable.

(2) Financial assets measured at fair value and whose changes are included in the current profit and loss

project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	Unit: ten thousand yuan
			2017 Nian 12 Yue 31 Ri
Measured at fair value and its changes			
Financial assets included in current profit and loss	-	417.28	563.25

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The company's financial assets measured at fair value and whose changes are included in the current profit and loss are all companies and banks

The foreign exchange derivatives contracts signed mainly include: RMB purchases U.S. dollars, Japanese yen purchases U.S. dollars, and U.S. dollars purchase Euros and U.S. dollars purchase foreign exchange forward contracts for British pounds. According to the contractual cash flow characteristics of the above

The business model of collecting and managing the financial assets is based on the difference between the ending exchange rate and the execution exchange rate

Classify the above financial assets as "financial assets measured at fair value and whose changes are included in the current profits and losses" or "Financial liabilities measured at fair value and whose changes are included in current profits and losses". At the end of each period "in fair value

The amount of financial liabilities whose changes are included in the current profits and losses", please refer to "12/(2)/1/(2) in this section

Financial liabilities measured at fair value and whose changes are included in the current profit and loss." As of the end of 2019, the company

The balance of financial assets measured at fair value and whose changes are included in the current profit and loss is 0, because the company has since

Starting on the 1st, the implementation of the new financial instrument standards began. In conjunction with the Ministry of Finance issued on April 30, "Notice on Revising and Issuing the Format of General Corporate Financial Statements for 2019 (Cai Kuai [2019] No. 6)"

Requirement, the original item of "financial assets measured at fair value and whose changes are included in current profit and loss"

The financial assets of is changed to be listed under the subject of "transactional financial assets". 3

(3) Transactional financial assets

Unit: ten thousand yuan

project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Transactional financial assets	173,394.73	-	-
Of which: Bank wealth management products	171,946.71	-	-
Foreign exchange forward contract	1,448.02	-	-

As of the end of 2019, the balance of the company's transactional financial assets was mainly bank wealth management products.

In 2015, the company purchased capital-guaranteed floating-income banks issued by Agricultural Bank of China and Bank of Communications to improve liquidity. Caused by financial products.

(4) Notes and receivable financing, accounts receivable

At the end of each period of the reporting period, the company's bills receivable, financing and accounts receivable amounts are as follows:

Unit: ten thousand yuan

project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
bill receivable	-	132,053.23	241,413.09
accounts receivable	466,037.80	484,354.17	494,561.28

3 The following (3) The reason why the balance of transactional financial assets is 0 at the end of 2017 and 2018 is the same as here.

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Trina Solar Co., Ltd.

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project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Receivable financing	119,868.50	-	-
total	585,906.30	616,407.40	735,974.37

① Bills receivable and receivable financing

At the end of each reporting period, the company's bills receivable are as follows:

Unit: ten thousand yuan

species	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Bank acceptance draft	-	132,053.23	226,653.09
trade acceptance draft	-	-	14,760.00
total	-	132,053.23	241,413.09

At the end of each period of the reporting period, the company's bills receivable amounted to RMB 2,414,130,900 and RMB 1,320,532,300 respectively. And 0 million yuan, accounting for 8.88%, 7.03% and 0 of current assets respectively. Company notes receivable The amount at the end of 2018 decreased compared to the end of 2017. On the one hand, due to the influence of policies and market At the same time, the company took the initiative to reduce bill settlements. At the end of 2019, the company's bills receivable balance was 0 Ten thousand yuan, mainly due to the issuer's accounting standards for Business Enterprises No. 22-Recognition and Measurement of Financial Instruments. The standards require that the expected endorsement or discounted bills receivable are classified into the "receivable financing" subject.

At the end of each period of the reporting period, the book amount of the company's accounts receivable financing was RMB 0 million, RMB 0 million, RMB 1,198,685,500, accounting for 0%, 0% and 5.37% of current assets, mainly the issuer

According to the "Accounting Standards for Business Enterprises No. 22-Recognition and Measurement of Financial Instruments" and the Ministry of Finance

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Issuing the Notice on the Format of General Corporate Financial Statements for 2019 (Cai Kuai [2019] No. 6 Requirements) and other standards

It is required to classify bills receivable that are expected to be endorsed or discounted into "receivable financing" items.

A. The specific composition of the top five bills receivable at the end of each period

Starting from January 1, 2019, the issuer will implement the new financial instrument standards, in accordance with the "Accounting Standards for No. 22-Recognition and Measurement of Financial Instruments, the issuer shall issue bank acceptance drafts and commercial Acceptance bills are listed in the "receivable financing".

At the end of each period of the reporting period, the top five issues of the issuer's notes and receivable financing were all issuer's customers. The body is as follows:

As of December 31, 2019, the top five financing situations of issuers' receivables are as follows:

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Unit: ten thousand yuan

company name	Ending balance	Percent of the ending balance of receivable financing Total proportion
Sungrow Power Supply Co., Ltd.	21,454.65	17.85%
China Resources Power Holdings Limited	9,233.00	7.68%
Lanling Shengtai Steel Structure Bracket Factory	5,480.46	4.56%
Changzhou Guangtan New Energy Technology Co., Ltd.	5,275.82	4.39%
Shandong Shixian New Energy Technology Co., Ltd.	4,341.00	3.61%
total	45,784.93	38.10%

As of December 31, 2018, the top five issues of the issuer's notes receivable are as follows:

Unit: ten thousand yuan

company name	Ending balance	Percent of closing balance of bills receivable Total proportion
Sungrow Power Supply Co., Ltd.	35,120.66	26.60%
Changjiang Huasheng Energy Saving Service Co., Ltd.	6,032.03	4.57%
Digital China Group Co., Ltd.	5,133.24	3.89%
China Power Electronics Equipment Group Co., Ltd.	4,045.00	3.06%
Guangxi Xijiang Development Investment Group Co., Ltd.	3,350.72	2.54%
total	53,681.64	40.65%

As of December 31, 2017, the top five issues of the issuer's notes receivable are as follows:

Unit: ten thousand yuan

company name	Ending balance	Percent of closing balance of bills receivable Total proportion
Sungrow Power Supply Co., Ltd.	39,639.25	16.31%
Xinjiang Anpu Energy New Energy Investment Co., Ltd.	16,400.00	6.75%
TBEA Co., Ltd.	16,370.05	6.74%
Lanling Shengtai Steel Structure Bracket Factory	8,923.70	3.67%
Jiangsu Lantian Photovoltaic Technology Co., Ltd.	8,037.66	3.31%
total	89,370.67	36.77%

total

B. Changes in commercial acceptance bills received and endorsed by the issuer during the reporting period, and whether bad debts have been accrued. Preparation, whether the relevant commercial acceptance bill endorsement meets the conditions for termination of confirmation and whether it complies with the impact of relevant regulations on the issuer's financial statements without derecognition.

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During the reporting period, the changes in the issuer's commercial acceptance bills are as follows:

Unit: ten thousand yuan				
years	Opening Balance	Increase in this period	Decrease in current period	Ending balance
2019 year	-	14,320.32	13,410.54	909.79
2018 year	16,400.00	8,400.78	24,800.78	-
2017 year	841.34	44,259.87	28,701.22	16,400.00

The issuer made provision for bad debts on commercial acceptance bills at the end of the reporting period.

According to Article 5 of the "Accounting Standards for Business Enterprises No. 23-Transfer of Financial Assets" (revised in 2017)

If a financial asset meets one of the following conditions, it shall be terminated: "(1) Cash receipt of the financial asset

The flow's contractual rights are terminated. (2) The financial asset has been transferred, and the transfer meets the

Confirmation requirements." The China Securities Regulatory Commission's "2017 Annual Report Accounting Supervision Report of Listed Companies

The Negotiable Instruments Law provides for the right of recourse. In the case where the endorsement contract does not expressly stipulate the right of r

The main risks related to the ownership of the financial assets have not been transferred, and the endorsing company should not terminate the recognition

The "2018 Annual Report Accounting Supervision Report of Listed Companies" stated that "there is no clear agreement in the transfer contract

In the case of recourse, even if a commercial acceptance bill is discounted, endorsed or factored, the main issues related to its ownership

The risk has not been transferred and the conditions for termination of confirmation are not met. "

Based on the above provisions, the endorsement of corporate bills should be judged based on the circumstances of the bill acceptor (the issuer).

According to the size of credit risk and deferred payment risk, bills can be divided into two categories, one is higher credit rating

Bank acceptance bills, endorsement or discounting of such bills can be considered almost all risks in the ownership of the relevant assets

And remuneration has been transferred, the confirmation of notes receivable should be terminated; the other is the foreign exchange accepted by banks v

Bills or commercial acceptance bills accepted by enterprises, endorsement or discounting of such bills does not satisfy the derecognition of financial assets

Conditions, should continue to confirm notes receivable.

During the reporting period, based on a more cautious principle, the issuer did not endorse or discount the outstanding bills

The derecognition is in compliance with the "Accounting Standards for Business Enterprises" and the relevant guidelines of the China Securities Regula

②Accounts receivable

At the end of each reporting period, the book value of the company's accounts receivable was RMB 4,945,612,800 and RMB 484,354.17 respectively. RMB 10,000 and RMB 4,660,378,800, accounting for 18.19%, 25.79% and 20.86% of current current assets, respectively.

A. Accounts receivable are classified by nature

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During the reporting period of the company, the balance of accounts receivable classified by nature is as follows:

Unit: ten thousand yuan

nature	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Photovoltaic module	274,566.11	282,520.01	298,308.30
Photovoltaic system	41,592.33	35,366.95	23,102.49
Electricity bill	10,183.65	6,962.64	8,791.55
Subsidy	53,846.27	59,306.79	159,091.94
EPC project	53,150.97	36,337.16	38,815.03
Power station for sale	57,628.08	80,939.59	3,285.38
Operation and maintenance fees receivable	4,471.49	3,285.59	238.64
Material receivable	2,841.26	1,318.51	934.31
Receivable support engineering payment	14,783.28	11,579.15	-
other	1,277.67	6,927.50	5,483.95
total	514,341.13	524,543.88	538,051.59

The company's accounts receivable mainly represent the payment for photovoltaic modules. During the reporting period, the company's Shows a downward trend; the accounts receivable corresponding to the photovoltaic system and photovoltaic power plant business has increased year by year. The trend of changes in the structure is basically the same.

At the end of 2017 and 2018, the accounts receivable of photovoltaic systems increased, mainly due to the long return period.

At the end of 2018, the subsidy receivable decreased from the previous year, and the receivables for the sale of power stations increased, mainly due to the company sold more photovoltaic power stations.

At the end of 2018, the company's receivable support engineering funds mainly came from the acquisition of Nclave during the year. Main business includes photovoltaic module tracking bracket and its installation project.

At the end of 2019, the company's accounts receivable balance remained stable compared to the end of 2018. EPC project accounts receivable balance of funds increased from the end of 2018, mainly due to the continuous increase in the company's EPC business scale in 2019. The balance of accounts receivable for EPC projects also increased.

B. Withdrawal of bad debts of accounts receivable

During the reporting period of the company, the balance of accounts receivable and the provision of bad debts are as follows:

December 31, 2019:

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Trina Solar Co., Ltd.

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Unit: ten thousand yuan

category	2019 Nian 12 Yue 31 Ri	
	Book balance	Bad debt provision
Provision for bad debts per item	23,581.71	19,675.22
Provision for bad debts by portfolio	490,759.41	28,628.10
Combination 1: Receivable customer payment	490,759.41	28,628.10
Total accounts receivable	514,341.13	48,303.32

2017-2018:

category	2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Book balance	Bad debt provision	Book balance	Bad debt provision
Single large amount combined				
Separate provision for bad debts	12,261.30	12,261.30	14,030.30	14,030.30
Accounts receivable				
Groups by credit risk characteristics				
Total provision for bad debts	511,558.94	27,204.77	522,962.86	28,401.58
accounts receivable				
The individual amount is not significant but				
Separate provision for bad debts	723.64	723.64	1,058.43	1,058.43
Accounts receivable				
Total accounts receivable	524,543.88	40,189.71	538,051.59	43,490.31

During the reporting period, the company used the aging analysis method to withdraw bad debt provision based on the combination of credit risk c
The company’s account receivables for bad debts based on the aging analysis method are as follows:

project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Book balance	Bad debt provision	Book balance	Bad debt provision	Book balance	Bad debt provision
Within 6 months	327,667.55	1,638.34	299,302.21	1,496.51	337,072.81	1,685.36
7-12 months	24,822.78	1,241.14	125,434.02	6,271.70	83,603.05	4,180.15
Subtotal within 1 year	352,490.33	2,879.48	424,736.23	7,768.21	420,675.86	5,865.52
1 to 2 years	114,227.61	11,422.76	68,769.39	6,876.94	70,512.98	7,051.30
2 to 3 years	11,636.52	3,490.95	6,373.75	1,912.12	19,156.80	5,747.04
3 to 4 years	3,140.10	1,570.05	2,064.13	1,032.06	5,759.00	2,879.50
More than 4 years	9,264.86	9,264.86	9,615.44	9,615.44	6,858.22	6,858.22
total	490,759.41	28,628.10	511,558.94	27,204.77	522,962.86	28,401.58

At the end of each reporting period, the issuer’s accounts receivable aging within one year accounted for a relatively high proportion, and the turno
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In good condition.

The company and domestic listed companies in the same industry account receivable bad debt provision ratio is as follows:

Aging	Yijing Optoelectronics	CEL Integration	Oriental Risen	Interval	Trina Solar
Within 6 months	0%	0%	5%	0-5%	0.5%
6 months-1 year	10%	1%	5%	1-10%	5%
1-2 years	30%	15%	10%	10-30%	10%
2-3 years	70%	50%	20%	20-70%	30%

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

3-4 years	100%	100%	50%	50-100%	50%
4-5 years	100%	100%	80%	80-100%	100%
More than 5 years	100%	100%	100%	100%	100%

During the reporting period, the company's bad debt provision ratio fully considered the bad debt risk of accounts receivable, and the provision sta
Within the range of the ratio of bad debt provision for domestic listed companies; the company also pays
The bad debt provision is made for aging, and the bad debt provision policy is comprehensive, prudent and reasonable.

C. The top five accounts receivable

During the reporting period, the top five accounts receivable of the company are as follows:

(A) The top five accounts receivable amount on December 31, 2019

Unit: ten thousand yuan				
Serial number	company name	Book balance	Percentage	Bad debt provision
1	State Grid Corporation of China	57,850.91	11.25%	5,041.64
2	Ningbo Meishan Free Trade Port Zone Yuansheng Investment Management Co., Ltd.	43,166.70	8.44%	4,116.28
3	Sungrow Power Supply Co., Ltd.	32,368.76	6.29%	167.50
4	WEG SA	26,263.11	5.11%	131.32
5	Henan Futuo Tech Electrical and Mechanical Installation Engineering Co., Ltd.	21,299.60	4.14%	2,105.38
	total	181,179.08	35.23%	11,562.12

(B) The top five accounts receivable at the end of 2018

Unit: ten thousand yuan				
Serial number	company name	Book balance	Percentage	Bad debt provision
1	State Grid Corporation of China	60,077.83	11.45%	3,216.09
2	Yuansheng Investment Management of Ningbo Meishan Free Trade Port Area Limited company	51,044.76	9.73%	2,552.24
3	Sungrow Power Supply Co., Ltd.	33,681.90	6.42%	322.46

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Serial number	company name	Book balance	Percentage	Bad debt provision
4	Henan Futuo Tech Electrical and Mechanical Installation Engineering Co., Ltd.	18,999.90	5.36%	1,998.58
5	Tianjin Fuhuan Enterprise Management Consulting Co., Ltd.	14,968.00	4.95%	1,298.40
	total	198,894.46	37.91%	9,387.77

(C) The top five accounts receivable at the end of 2017

Unit: ten thousand yuan				
Serial number	company name	Book balance	Percentage	Bad debt provision
1	State Grid Corporation of China	110,369.96	20.51%	7,784.26
2	Yunnan Power Grid Co., Ltd.	54,406.34	10.11%	4,352.89
3	Sungrow Power Supply Co., Ltd.	32,460.51	6.03%	678.58
4	Henan Futuo Tech Electrical and Mechanical Installation Engineering Co., Ltd.	19,999.90	3.16%	84.97
5	UGL Engineering Pty Ltd	12,379.05	2.30%	61.90
	total	226,610.31	42.11%	12,962.60

D. Ageing distribution of accounts receivable of various natures and provision for bad debts

At the end of each reporting period, the issuer's account receivable balance classified by nature is as follows:

Unit: ten thousand yuan			
nature	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Photovoltaic module	274,566.11	282,520.01	298,308.30
Photovoltaic system	41,592.33	35,366.95	23,102.49
Electricity bill	10,183.65	6,962.64	8,791.55
Subsidy	53,846.27	59,306.79	159,091.94
EPC project	53,150.97	36,337.16	38,815.03
Power station for sale	57,628.08	80,939.59	3,285.38
Operation and maintenance fees receivable	4,471.49	3,285.59	238.64
Material receivable	2,841.26	1,318.51	934.31
Stent receivable	14,783.28	11,579.15	-
other	1,277.67	6,927.50	5,483.95
total	514,341.11	524,543.88	538,051.59

From the above table, as of the end of 2019, the company's accounts receivable balance remained stable compared to the end of 2018.

The aging distribution of the above-mentioned accounts receivable of each nature is as follows:

(A) As of December 31, 2019, the age distribution of accounts receivable by nature

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Unit: ten thousand yuan

Nature of Payment	Ending balance	0-180 days	181-365 days	1-2 years	2-3 years	3-4 years	More than 4 years	Bad debt provision
Photovoltaic module	274,566.11	228,541.60	4,245.26	10,328.37	7,929.55	3,427.46	20,093.86	30,881.13
Photovoltaic system	41,592.33	19,792.56	68.27	20,484.91	1,246.60	-	-	2,524.85
Electricity bill	10,183.65	6,967.66	1,486.97	1,316.63	110.07	302.33	-	1,159.78
Subsidy	53,846.27	16,161.03	11,196.52	19,535.27	5,301.10	1,652.35	-	5,010.66
EPC project	53,150.97	40,953.47	2,794.59	8,371.74	1,031.18	-	-	1,491.02
Power station for sale	57,628.08	120.78	2,235.66	55,271.64	0.00	-	-	5,639.55
Operation and maintenance fees receivable	4,471.49	4,194.67	131.29	75.63	69.89	-	-	56.07
Material receivable	2,841.26	1,963.16	35.96	273.09	84.03	1.30	483.73	548.51
Stent receivable	14,783.28	8,784.67	2,539.09	2,254.82	1,115.30	78.00	11.40	781.35
other	1,277.67	296.01	186.37	578.35	81.06	36.88	99.01	210.40
total	514,341.13	327,775.61	24,919.98	118,490.44	16,968.77	5,498.33	20,688.00	48,303.32

(B) As of December 31, 2018, the age distribution of accounts receivable by nature

Unit: ten thousand yuan

Nature of Payment	Ending balance	0-180 days	181-365 days	1-2 years	2-3 years	3-4 years	More than 4 years	Bad debt provision
Photovoltaic module	282,520.01	221,708.49	14,720.14	18,095.92	5,109.63	2,023.54	20,862.28	28,211.11
Photovoltaic system	35,366.95	2,282.87	17,299.42	15,784.67	-	-	-	2,454.85
Electricity bill	6,962.64	5,370.17	630.50	659.65	302.33	-	-	214.80
Subsidy	59,306.79	24,368.84	14,753.11	18,532.48	1,652.35	-	-	3,208.45
EPC project	36,337.16	22,438.59	0.05	13,898.52	-	-	-	1,502.04

Power station for sale	40,939.59	3,926.83	77,012.76	-	-	-	-	3,870.27
Operation and maintenance receivable	2,386.59	3,198.39	17.31	69.89	-	-	-	23.85
Material receivable	1,318.51	1,183.08	37.15	98.28	-	-	-	17.60
Stent receivable	11,579.15	9,132.60	238.00	1,250.51	911.96	41.78	4.30	481.39
other	6,927.50	5,692.35	725.59	379.47	39.18	-	90.91	205.35
total	524,543.88	299,302.21	125,434.02	68,769.39	8,015.46	2,065.32	20,957.48	40,189.71

(C) As of December 31, 2017, the age distribution of accounts receivable by nature

Unit: ten thousand yuan								
Nature of Payment	Ending balance	0-180 days	181-365 days	1-2 years	2-3 years	3-4 years	More than 4 years	Bad debt provision
Photovoltaic module	98,308.30	214,462.32	37,135.04	17,247.81	6,064.17	6,969.54	16,429.43	29,799.33
Photovoltaic system	23,102.49	22,311.98	790.50	-	-	-	-	151.09

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Nature of Payment	Ending balance	0-180 days	181-365 days	1-2 years	2-3 years	3-4 years	More than 4 years	Bad debt provision
Electricity receivable	8,791.55	7,699.90	770.06	321.60	-	-	-	108.92
Subsidy	159,091.94	51,321.50	39,558.71	53,357.94	14,853.80	-	-	12,026.71
EPC project	38,815.03	34,481.95	3,137.64	1,195.44	-	-	-	448.84
Power station for sale	3,285.38	1,468.63	1,816.75	-	-	-	-	98.18
Operation and maintenance receivable	238.64	-	-	-	-	-	-	1.19
Material receivable	934.31	857.96	76.35	-	-	-	-	8.11
other	5,483.95	4,230.74	317.99	43.15	122.13	-	769.93	847.94
total	538,051.59	337,073.61	83,603.05	72,165.93	21,040.10	6,969.54	17,199.36	43,490.31

E. Whether the main accounts receivable customers match the top five customers of the issuer’s business types and the reasons for the differences because

The issuer's main accounts receivable customers are more closely matched with the top five customers of various business types. Balance receivable The main reasons for the mismatch in the sales amount rankings are the different sales timings of customers, differences in credit periods, and political The government’s poverty alleviation project takes a long time to pay back.

(A) As of December 31, 2019, the top five customers of accounts receivable by business type:

Unit: ten thousand yuan					
business type	client's name	Balance receivable	Receivable row name	Sales Amount	Sales row name
	WEG SA	26,263.11	1	41,175.60	6
	Sungrow Power Supply Co., Ltd.	24,506.24	2	51,847.48	3
Photovoltaic products	China Datang Group International Trade Co., Ltd.	17,819.51	3	30,272.78	7
Photovoltaic module	Nisagra Renewable Energy (P) Ltd	8,926.55	4	15,835.67	17
	Hero Solar Energy Private Ltd	7,777.44	5	23,949.53	10
	Henan Futuo Tech Electrical and Mechanical Installation Engineering Co., Ltd. the company	21,299.61	1	973.45	11
	Engie Energia Chile SA	11,769.18	2	14,176.67	2
Photovoltaic system-					

System Products	ACS Actividades de Construccion y Servicios SA	6,050.76	3	38,765.46	1
	Gansu Donghai Hi-Tech Energy Saving Service Co., Ltd.	440.01	4	-	
	JJ-Lapp (T) Company Ltd.	323.98		555.61	20
Photovoltaic system	BANPU RENEWABLE SINGAPORE PTE. LTD.	13,828.82	1	51,003.80	2
Power station business	Hudson Energy Partners.	9,451.99	2	26,756.70	5

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business type	client's name	Balance receivable	Receivable row name	Sales Amount	Sales row name
Process construction	Shanghai Power Supply Co., Ltd.	7,862.52	3	53,421.46	1
	MITRE CALERA SOLAR, S.DE RLDE.CV	4,317.21	4	43,617.60	4
	Fengning Manchu Autonomous County Dayuan State Control Co., Ltd. Division	2,819.35	5	-	2
	Yuansheng Investment Management of Ningbo Meishan Free Trade Port Area Limited company	41,044.76	1	-	
Photovoltaic system	Tianjin Fuhuan Enterprise Management Consulting Co., Ltd.	14,226.87	2	-	
Power station business	Shanghai Power Holdings Co., Ltd.	2,235.66	3	83,501.64	1
Photovoltaic power station	Kunneng Smart Energy Service Group Co., Ltd.	120.78	4	1,034.70	2
Sell	the company				
	State Grid Corporation of China	57,703.32	1	45,455.45	1
	Operator of Electricity Market SA	1,730.06	2	3,172.74	2
Smart Energy- Power generation business	Shandong Weineng Environmental Power Technology Co., Ltd. the company	924.07	3	-	
	Shandong Yinbao Tire Group Co., Ltd.	740.76	4	-	
	Shandong Huajian Aluminum Industry Group Co., Ltd.	328.10	5	559.61	5
	Yuansheng Investment Management of Ningbo Meishan Free Trade Port Area Limited company	2,347.00	1	2,136.05	2
	SDIC Power Holdings Co., Ltd.	1,546.14	2	2,610.24	1
Smart Energy- Operation and maintenance business	Shuangliao Tianhe Solar Power Development Co., Ltd. Division	258.41	3	118.57	7
	Zhejiang Chint New Energy Development Co., Ltd.	85.89	4	81.44	9
	ARBOL SPA	77.78	5	74.34	10
	SMCEC SINGAPORE PTE. LTD.	3,709.19	1	-	-
	METKA RENEWABLES, LTD.	1,136.52	2	1,136.52	18
Bracket	SOLARIA INGENIERIA Y CO NST. FOTOVOLT.SL	994.25	3	994.25	1
	ENEL GREEN POWER ESPAÑA,SL	692.25	4	692.25	
	Eiffage Jamaica	691.39	5	691.39	9
	Beijing Xiwei Qingtuo Converter Technology Co., Ltd.	375.30	1	521.55	29
Smart microgrid and	Xi'an Runda Energy Technology Co., Ltd.	356.07	2	-	
Multi-energy system and	Yangzhou Yuekai Industry and Trade Co., Ltd.	143.09	3	792.55	19
Other business	Dingxi Yuanshun Biological Technology Co., Ltd. Division	130.15	4	-	

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business type	client's name	Balance receivable	Receivable row name	Sales Amount	Sales row name
	Zhejiang Yuesheng New Energy Technology Co., Ltd.	116.63	5	-	29

From the above table, as of the end of 2019, the company's top five accounts receivable for its photovoltaic products-photovoltaic module business Customers are more closely matched with their current sales amount to these customers. Among them, in 2019, Europe, America And Indian market demand growth, WEG SA, Nisagra Renewable Energy (P) Ltd and Hero Solar The business scale of Energy Private Ltd and the company has grown accordingly.

In the photovoltaic system-system product business, as of the end of 2019, the company had The accounts receivable of Engineering Co., Ltd. and Gansu Donghai High-tech Energy Saving Service Co., Ltd. are all due to participation in governm Of poverty alleviation projects. The acceptance procedures of this type of project are complicated because the buyer is a government department. There is a major risk and the payment is currently being collected.

Photovoltaic system-power station business-photovoltaic power station project construction management business, as of the end of 2019, the indus Under the business model, the balance of the company's top five accounts receivable customers and the company's sales in the corresponding accounting Basic match.

In the photovoltaic system-power station business-photovoltaic power station sales business, as of the end of 2019, the company's Shan Bonded Port Yuansheng Investment Management Co., Ltd. and Tianjin Fuhuan Enterprise Management Consulting Co., Ltd. accounts receivable The payment is currently being returned according to the payment time agreed in the contract.

In smart micro-grid, multi-energy systems and other businesses, as of the end of 2019, the company's top five accounts receivable The balance of the payment is small. Among them, the company's sales to Beijing Xiwei Qingtuo Converter Technology Co., Ltd. Payment is scheduled to be made in stages, and the payment is currently being collected; in addition, the company's accounts receivable to Yangzhou Yu The payment is currently being paid back.

In general, as of the end of 2019, the top five accounts receivable customer balances under each business model of the company It basically matches its sales revenue to related customers in 2019.

(B) As of December 31, 2018, the top five customers of accounts receivable by business type:

Unit: ten thousand yuan					
business type	client's name	Balance receivable	Receivable ranking	Sales Amount	Sales ranking
Photovoltaic Products-Submodule	Shandong Power Supply Co., Ltd.	23,484.14	1	65,897.94	1
Component	JGC CORPORATION	21,882.37	2	58,889.87	2

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business type	client's name	Balance receivable	Receivable ranking	Sales Amount	Sales ranking	
Photovoltaic system-product	China Power Construction Group Co., Ltd.	17,006.35	3	45,720.36	3	
	COBRA Infraestructuras Internacional, SA	15,791.12	4	34,023.80	6	
	TOYO Engineering	10,204.43	5	14,047.86	twenty three	
	Henan Futuo Tech Electrical and Mechanical Installation Engineering Co., Ltd.	2,121.97		17,238.46	1	
	Gansu Donghai Hi-Tech Energy Saving Service Co., Ltd.	840.01	2	-	-	
	Hengdong County Urban Construction Investment Development Co., Ltd.	12,590.00	3	2,626.69	3	
	Gansu Shengyuan Investment Management Co., Ltd.	684.38	4	-	-	
	Shanxi Haohai Xinneng Optoelectronic Technology Co., Ltd.	17.14	5	69.78	365	
	Sungrow Power Supply Co., Ltd.	10,197.06	1	12,211.12	5	
	ESJ RENOVABLE I, S. DE RL DE CV	5,918.38	2	15,265.09	4	
Photovoltaic system-power station	Business-Photovoltaic Power Station	Ruohuifeng County Hydropower Co., Ltd.	3,398.31	3	-	-
Engineering construction management	Fengning Manchu Autonomous County Dayuan State Construction Co., Ltd.	2,092.53	4	20,627.42	2	
	Guidong County Agricultural Development Investment Co., Ltd.	3,914.04	5	-	-	
Photovoltaic system-power station	the company	Ningbo Meishan Free Trade Port Zone Yuansheng Investment Management Co., Ltd.	51,044.76	1	282,797.57	1
Business-Photovoltaic Power Station	Tianjin Fuhuan Enterprise Management Consulting Co., Ltd.	15,068.00	2	89,498.40	3	
Smart Energy-Power Generation business	Sales	SDIC Power Holdings Co., Ltd.	2,700.00	3	173,968.46	2
		Zhejiang Foster New Energy Development Co., Ltd.	1,226.83	4	6,279.72	6
		State Grid Corporation of China	60,009.64	1	67,751.64	1
		Shandong Newland Rubber Technology Co., Ltd.	950.80	2	531.42	8
		Shandong Weineng Environmental Power Technology Co., Ltd.	117.53	3	360.32	10
		Operator of Electricity Market SA	686.50	4	2,816.97	3
		Shandong Huajian Aluminum Industry Group Co., Ltd.	595.93	5	984.02	5
		Ningbo Meishan Free Trade Port Zone Yuansheng Investment Management Co., Ltd.	1,969.72	1	1,951.53	2
Smart Energy-Operation and Maintenance business		SDIC Power Holdings Co., Ltd.	1,073.14	2	2,171.79	1
		Shuangliao Tianhe Solar Power Development Co., Ltd.	132.73	3	118.57	7
		China Guangdong Nuclear Power Co., Ltd.	76.38	4	18.02	19
		Hangzhou Guangshun Power Technology Co., Ltd.	17.63	5	-	-
Bracket		SOLARIG GLOBAL SERVICES- SA	3,845.34	1	6,204.76	2
		SACYR INDUSTRIAL SL				
		EIFFAGE ENERGÍA, SLU	1,208.70	2	-	-
		SCHLETTER GMBH	941.68	3	-	-

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business type	client's name	Balance receivable	Receivable ranking	Sales Amount	Sales ranking
Smart microgrid and more Energy system and others	PRODIEL ENERGY ESPAÑA, SL	888.15	4	2,020.60	5
	Eiffage Energia Jamaica	540.61	5	2,766.15	4
	Ministry of Environment and Energy Horse Aldive	4,250.59	1	7,244.11	1
	Shanghai Haiyouwei New Material Co., Ltd.	800.59	2	1,345.06	29
	Beijing Xiwei Qingtuo Converter Technology Co., Ltd.	562.84	3	588.64	51
	TSUN TEMIZ ENERJİ SİSTEMLERİ				

business	AS	500.84	4	-	-
	MAR SOLAR PANEL IMALATI VE				
	ELEKTRIK URT. DAG. PRJ. HIZ. SAN.	324.36	5	-	-
	VE TIC. AS				

Note: The receivable ranking and sales ranking in the above table are the rankings of the segmented business

The sales of TOYO Engineering in photovoltaic modules were concentrated in the fourth quarter. Because it is a long-term cooperative customer, Customers are granted a certain credit period, and as of May 31, 2019, all payments have been returned.

System products: Gansu Donghai Hi-Tech Energy Saving Service Co., Ltd., Gansu Shengyuan Investment Management Co., Ltd., Shanxi Haohai Xinneng Optoelectronics Technology Co., Ltd. has a relatively small balance of accounts receivable at the end of the period, which is a g In the construction and management of photovoltaic power plants, Rucheng County Hydropower Co., Ltd., Guidong County Agricultural Development l Ren's company is also a government poverty alleviation project. The procedures for acceptance of these projects are relatively complicated and there are The payment is being received before.

In the bracket type, EIFFAGE ENERGÍA, SLU has been paid back after the period.

Ministry of Environment and Energy Maldives is a government cooperation project in Smart Energy, As of May 31, 2019, the payment has been basically returned.

(C) As of December 31, 2017, the top five customers of accounts receivable by business type:

Unit: ten thousand yuan					
business type	client's name	Balance receivable	Receivable ranking	Sales Amount	Sales ranking
Photovoltaic Products-Photovoltaics Component	Sungrow Power Supply Co., Ltd.	32,459.80	1	104,899.05	1
	TBEA Co., Ltd.	14,643.89	2	51,227.99	7
	UGL LIMITED	12,379.05	3	17,449.73	25
	Solar City	11,692.68	4	37,561.47	11
	China Power Construction Group Co., Ltd.	9,364.85	5	84,713.88	2
Photovoltaic system-system	Henan Futuo Taike Mechanical and Electrical Engineering Co., Ltd.	1,994.45	1	5,667.64	1

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business type	client's name	Balance receivable	Receivable ranking	Sales Amount	Sales ranking
product	the company				
	Gansu Shengyuan Investment Management Co., Ltd.	4,426.38	2	1,219.13	4
	Gansu Donghai Hi-Tech Energy Saving Service Co., Ltd.	1,400.01	3	1,200.58	5
	Shanxi Haohai Xinneng Optoelectronic Technology Co., Ltd.	940.93	4	804.22	13
	the company				
	Dingxi Yuanshun Biological Technology Co., Ltd.	930.15	5	795.00	14
	Division				
	Banpu Renewable Singapore Pte. Ltd	9,706.30	1	42,393.80	1
	Macquarie Corporate Holdings Pty	5,949.01	2	5,011.58	8
Photovoltaic system-power station	Limited				
Business-Photovoltaic Power Station	Rucheng County Hydropower Co., Ltd.	4,374.87	3	5,795.33	4
Engineering construction management	Anren County Dayuan Investment Co., Ltd.	3,167.20	4	3,107.43	12
	Guidong County Agricultural Development Investment Co., Ltd.	2,924.94	5	5,103.08	7
	Division				

29.10.2020 The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Photovoltaic system-power station	Wuzhishan (holdco) Limited	2,203.14	1	30,780.49	1
Business-Photovoltaic Power Station					
Sales	New Road Solar Limited	1,082.24	2	5,014.51	2
	State Grid Corporation of China	108,371.23	1	78,257.89	1
	Yunnan Power Grid Co., Ltd.	54,406.34	2	28,056.68	2
Smart Energy-Power Generation business	OPERATOR OF ELECTRICITY MARKET SA	1,254.17	3	3,336.32	3
	Shanghai Volkswagen United Development Co., Ltd	556.08	4	529.79	5
	Shandong Newland Rubber Technology Co., Ltd. Division	513.02	5	519.25	6
Smart Energy-Operation and Maintenance business	TBEA Co., Ltd.	168.75	1	159.20	3
	Shuangliao Tianhe Solar Power Development Co., Ltd. Division	69.89	2	65.93	6
	Shenglong Electric Group Co., Ltd.	638.76	1	1,364.88	12
Smart Energy-Smart Microgrid and multi-energy system and other business	Alternativa Energetica 3000 SL	607.78	2	-	-
	Chengde Energy Technology Co., Ltd.	607.78	3	985.82	29
	MOTECH INDUSTRIES INC.	463.55	4	1,728.63	8
	IFIX Solar GmbH	391.92	5	365.33	66

Note: The receivable ranking and sales ranking in the above table are the rankings of the segmented business

The top five accounts receivable customers of photovoltaic modules have all received their payments in 2018. UGL LIMITED receivable
The reason for the mismatch between the ranking and the sales ranking is mainly due to the issuer’s delivery of goods in the fourth quarter of 2017.

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The payment will be recovered in 2018.

Alternativa Energetica 3000 SL accounts receivable in smart microgrid and multi-energy systems and other businesses
The account has reached 4 years of age and has been fully accrued.

F. Post-period collection of accounts receivable by nature

Regarding accounts receivable of different natures, the following statistics show the top five accounts receivable of various natures at the end of 20
After the period (as of March 31, 2020) for major customers (including the top ten customers for photovoltaic modules)
The details are as follows:

Unit: ten thousand yuan					
Nature of Payment	Amount at the end of the period	Sampling amount	Sampling ratio (%)	Refund amount	Return ratio (%)
Photovoltaic module	274,449.19	113,593.35	41.37	86,728.11	76.35
Photovoltaic system	41,827.05	40,183.54	96.61	19,324.18	48.09
Electricity bill	10,109.19	7,580.04	74.43	3,059.44	40.36
Subsidy	53,816.06	53,846.27	100.00	158.23	0.29
EPC project	53,150.97	38,279.89	72.02	32,302.92	84.39
Power station for sale	57,628.08	57,628.08	100.00	5,873.18	10.19
Operation and maintenance receivable	4,315.22	4,315.22	96.51	3,816.66	88.45
Material receivable	2,841.26	1,967.72	69.26	1,003.74	51.01
Stent receivable	14,783.28	7,223.60	48.86	5,395.69	74.70
other	1,264.55	763.99	59.80	130.15	17.04

From the above table, as of March 31, 2020, the receipts of PV modules, EPC and other businesses are in good condition.

Other payment receipts are as follows:

1. The receivables for photovoltaic systems are mainly due to cooperation with Henan Futuo Taike Mechanical and Electrical Installation Engineer (Hereinafter referred to as "Futuo Electromechanical") the receivables of the photovoltaic poverty alleviation project, please refer to the "end of 2018 Contents in "Subsequent payment of the top five customers of various types of accounts receivable".

2. The balance of subsidies receivable is mainly the balance of state supplementary electricity charges, and such payments need to wait for the national Arrange funds, so the proportion of repayment after the period is low. With the gradual availability of state subsidy funds, the recoverability of such receivables The income risk is low.

3. The receivables for the sale of power stations are paid in accordance with the contract and are being collected.

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4. The receivable bracket payment will be paid according to the contract progress, and the payment will be returned one after another.

For accounts receivable of different natures, the following statistics show the top five accounts receivable of various natures at the end of 2018.

After the period of major customers (including the top ten customers selected for photovoltaic modules) (as of December 31, 2019)

The details of the refund are as follows:

Unit: ten thousand yuan					
Nature of Payment	Amount at the end of the period	Sampling ratio (%)	Refund amount	Receipt ratio (%)	
Photovoltaic module	282,520.01	122,826.17	43.48	121,182.96	98.66
Photovoltaic system	35,366.95	32,517.24	91.94	8,011.09	24.64
Electricity bill	6,962.64	3,513.96	50.47	2,612.84	74.36
Subsidy	59,306.79	59,133.86	99.71	5,753.55	9.73
EPC project	36,337.16	25,430.81	69.99	21,064.55	82.83
Power station for sale	80,939.59	80,939.59	100.00	24,441.13	30.40
Operation and maintenance receivable	2,150.29	65.45	2,150.29	100.00	
Material receivable	1,318.51	1,106.21	83.90	1,106.21	100.00
Stent receivable	11,579.15	7,424.48	64.12	7,424.48	100.00
other	6,927.50	5,976.00	86.26	4,408.98	73.78

It can be seen from the above table that most of the accounts receivable of the nature are in good condition after the period. Among them, the proportion of subsidy payments and power plant sales payments is low. The details are as follows:

(A) The reason for the low proportion of receivables from photovoltaic systems after the period is mainly due to the issuer's

It was created by a photovoltaic poverty alleviation project in cooperation with Ke Electromechanical Installation Engineering Co., Ltd. (hereinafter referred to as "Ke Electromechanical")

The issuer actively responded to the national photovoltaic poverty alleviation policy by providing photovoltaic power station EPC services or

Provide some system products to support the national "green poverty alleviation" cause. Futuo Electromechanical Receivables at the end of 2018

The balance of payments was 281 million yuan, accounting for 76.49% of the sampled amount of PV system payments receivable. The main reason for the low proportion of payments

This is because there are two aspects, one is the slow process of local government financial allocation; the other is the final acceptance of poverty alleviation

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The procedure is more complicated. In February 2019, in order to better cooperate with Fortuo Machinery's request for funds from the local government Regarding work, the issuer and Futuo M&E signed the "Debt Transfer Agreement". The agreement stipulated that Futuo M&E will

A total of 313 million yuan of debts held by the issuer is transferred to the issuer at zero consideration, and the issuer has the right to

People claim the right of recourse, while Futuo Electromechanical provides joint and several liability guarantees for related claims. Current advancements

In an orderly process, the issuer believes that the receivables of Futuo Electromechanical cannot be collected based on the progress of related matters.

The risk of return is relatively low. At the end of 2018, the issuer accrued bad debts on the relevant accounts receivable based on the ageing. As of 2020

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On March 31, 2010, Futuo Electromechanical's post-term payment amount was RMB 48.0 million.

(b) The balance of subsidies receivable is mainly the balance of state supplementary electricity charges, and such payments need to wait for the national Arrange funds, so the proportion of repayment after the period is low. With the gradual availability of state subsidy funds, the recoverability of such receivables The income risk is low.

(C) The reason for the low proportion of receivables for the sale of power plants is due to the payment according to the specific contract payment terms. The contract agreed to pay in installments, so the amount recovered as of the reporting date was small.

G. Power station projects related to Yuansheng Investment

As of December 31, 2019, the issuer's accounts receivable from Yuansheng's investment include renewable energy The balance related to source subsidy was RMB 410,447,600 (as of March 31, 2020, the issuer has received The later payment is 50 million yuan), of which the corresponding receivables for photovoltaic power plant projects not included in the list of the first section The amount of subsidy is 213,837,800 yuan, and the details are as follows:

Unit: ten thousand yuan			
Serial number	Project company name	Power station project name	The issuer's receivable Yuan Sheng investment funds
			Items related to subsidies
			Balance of
1	Yuyu County Huaguang Power Specialized Co., Ltd.	Shanxi Yuyu 50MW ground centralized power	7,740.43
	Liability company	Station project	
2	Turpan Huaguang Power has Limited company	Turpan Xinte 40MW Ground Centralized Power Station project	4,841.97
3	CLP Electric (Ulanhot) Photovoltaic Power Co., Ltd.	Huhe Horse Farm, Ulanhot City, Xing'an League, Inner Mongolia 30MW Ground Power Station Project	3,477.52
4	Shanshan Anpeiqi Co., Ltd.	An Peiqi, Turpan, Xinjiang 20MW ground concentration Power station project	2,130.92
5	Wuwei Yineng Solar Power Limited company	Wuwei 100MW Ground Centralized Power Station Project	1,188.89
6	Huai'an Yiheng Solar Power Limited company	Huaian Yanhe 8MW Ground Centralized Power Station Project Item	1,069.29
7	Ganzhou Huadian New Energy the company	Ganzhou Economic and Technological Development Zone Standard Factory 5.8MW house roof distributed power station project	566.11
8	Huaian Tianfeng Solar Power Limited company	10MW land with complementary fishing and light in Jialing Township, Huaian, Jiangsu Distributed Power Plant Project (Phase I)	368.66
9	Changzhou Heyuan Photovoltaic Power station project	Changzhou Menghe Agricultural Greenhouse 5MW Ground Distribution	-
	Limited company		
		total	21,383.78

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H. The issuer holds power plant projects for sale

As of December 31, 2019, the issuer holds the corresponding photovoltaic power plant (inventory account) for sale

The amount of subsidy receivable is 348,851,000 yuan, of which photovoltaic power plant projects that are not included in the

The amount of renewable energy subsidies receivable is 110,540,800 yuan, and the details are as follows:

Unit: ten thousand yuan

Serial number	Project company name Weigh	Power station project name	As of 2019 Nian 12 Yue	2017 year	2018 year	2019 subsidy income
			Receivable on 31st Energy subsidy balance	Subsidy income	Subsidy income	Enter
1	Zhangpu Tianmin Power Generation Co., Ltd.	Fujian Taiwan Glass Photovoltaic Glass 5.8MW distributed power station project	555.35	244.82	237.02	246.35
2	Wujiaqu Junengwei Industry New Energy Limited company	Wujiaqu Energy Convergence Albert 106 10MW ground set Chinese power station project	5,867.78	1,334.11	1,511.55	1,713.24
3	Hunan Trina Sun Energy power development Limited company	13MW SAIC in Changsha, Hunan Distributed power station project	1,474.64	400.86	457.52	439.39
4	Kecheng Huineng New Energy Co., Ltd Division	Hangbu, Kecheng District, Quzhou City 12MW distributed power plant project Project (The first phase of 4.62MW)	11.36	260.21	216.84	185.34
5	Tianhuaixin, Suixi Energy Limited	Renlou Mine, Nanping Town, Suixi County 40MW in Renxun Village, Subsidence Area3, Ground centralized power station project	122.98	147.75	873.34	1,704.36
6	Hangzhou Yizhao Power Technology Co., Ltd	Hangzhou Gujia Home Furnishing 5.45MW distributed power station project	21.98	55.10	111.54	91.23
	total		11,054.08	2,442.84	3,407.82	4,379.91
	Proportion of operating income		—	0.09%	0.14%	0.19%

Note: Part of the subsidy income of projects No. 1, 4, and 6 has been advanced by the local State Grid Corporation.

(5) Advance payment

Prepayments are classified according to the nature of the payment:

Unit: ten thousand yuan

Nature of Payment	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Advance payment	66,089.68	92.70%	9,602.18	52.24%	35,129.99	81.65%
Prepaid electricity	1,145.32	1.61%	2,845.66	15.48%	3,167.16	7.36%
Import and export expenses	26.59	0.04%	2,530.66	13.77%	1,756.27	4.08%
other	4,030.95	5.65%	3,402.23	18.51%	2,973.19	6.91%
total	71,292.54	100.00%	18,380.74	100.00%	43,026.60	100.00%

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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Note: Other categories are mainly prepaid service fees, etc.

At the end of each reporting period, the aging of the company's advance payments is as follows:

Aging	Unit: ten thousand yuan					
	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	proportion	Amount	proportion	Amount	proportion
Within 1 year	69,442.59	97.41%	16,440.63	89.44%	42,115.16	97.88%
1 to 2 years	1,502.02	2.10%	1,767.92	9.62%	420.93	0.98%
2 to 3 years	317.42	0.45%	55.97	0.30%	0.06	0.00%
over 3 years	30.52	0.04%	116.22	0.63%	490.46	1.14%
total	71,292.54	100.00%	18,380.74	100.00%	43,026.60	100.00%

At the end of each reporting period, the issuer's advance payments amounted to RMB 430,266,000 and RMB 183,807,400 respectively. And 712,925,400 yuan, accounting for 1.58%, 0.98% and 3.19% of current current assets, respectively.

The company's prepayments are mainly prepaid for goods, prepaid electricity and prepaid import and export expenses. Among them, prepaid The payment is mainly prepaid for the purchase of photovoltaic module raw materials, and the prepaid electricity fee is the electricity fee paid by the issi Prepayment, prepayment of import and export expenses is mainly for the issuer that has paid to the customs department but has not received the customs Product import value-added tax.

At the end of 2018, the issuer's prepayment balance decreased by RMB 246,558,600 compared with the end of 2017, mainly due to In the second half of 2018, the photovoltaic industry was affected by policy controls, and market demand decreased. Issuers' The scale of purchases decreased, and the balance of advance payments decreased accordingly.

At the end of 2019, the issuer's prepayment balance increased by RMB 529,118,100 from the end of 2018, mainly due to In 2019, the issuer's product market demand was strong. At the same time, due to the limited production capacity of the cell The purchase amount of solar cells from suppliers such as Aixu Technology Co., Ltd. and Tongwei Group Co., Ltd. has increased rapidly. The advance payment for goods increased accordingly.

During the reporting period, the top five prepaid accounts of the company are as follows:

A. The top five prepaid accounts on December 31, 2019

Serial number	name	Book balance	Unit: ten thousand yuan
			Percentage
1	Guangdong Aixu Technology Co., Ltd.	28,968.30	40.63%
2	Tongwei Group Co., Ltd.	12,232.50	17.16%
3	Shanghai Construction Engineering Group Co., Ltd.	10,388.32	14.57%

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Serial number	name	Book balance	Percentage
4	Tianjin Zhonghuan Semiconductor Co., Ltd.	4,913.38	6.89%
5	Longi Green Energy Technology Co., Ltd.	1,588.63	2.23%
	total	58,091.13	81.48%

B. The top five prepaid accounts at the end of 2018

Unit: ten thousand yuan

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Serial number	name	Book balance	Percentage
1	State Grid Corporation of China	2,845.66	15.48%
2	Changzhou Customs of the People's Republic of China	1,919.76	10.44%
3	Wuxi Jingyao New Energy Co., Ltd.	1,101.33	5.99%
4	Tongwei Group Co., Ltd.	957.07	5.21%
5	Guangdong Aixu Technology Co., Ltd.	899.44	4.89%
	total	7,723.26	42.01%

C. The top five prepaid accounts at the end of 2017

Unit: ten thousand yuan			
Serial number	name	Book balance	Percentage
1	Tongwei Group Co., Ltd.	6,156.29	14.31%
2	Yongzhen Technology (Changzhou) Co., Ltd.	5,286.43	12.29%
3	State Grid Corporation of China	3,167.16	7.36%
4	Jiangsu Shengda New Energy Technology Co., Ltd.	2,184.84	5.08%
5	Tianjin Zhonghuan Electronic Information Group Co., Ltd.	2,088.96	4.86%
	total	18,883.68	43.90%

(6) Other receivables

At the end of each reporting period, the company's other receivables classified by category are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Dividend receivable	6,777.31	7,204.85	-
Other receivables	148,714.30	103,503.93	53,43.92
total	155,491.61	110,708.78	53,43.92

At the end of each reporting period, the book value of other receivables of the company was RMB 550,439,200 and RMB 110,708.78 respectively. RMB 10,000 and RMB 1,554,916,100, accounting for 2.02%, 5.89% and 6.96% of current assets respectively.

① Dividends receivable

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At the end of each period of the reporting period, the company's dividends receivable were RMB 0 million, RMB 72,048.5 million, and RMB 67,7 The proportions of current assets are 0%, 0.38% and 0.30% respectively, which are relatively low. Application at the end of 2018 Dividends received are mainly due to sold power stations (mainly including: Xiangshui Hengneng Solar Power Co., Ltd., Xiangshui Shuiyongneng Solar Power Co., Ltd., Shanghai Zhijie New Energy Technology Co., Ltd., Shanghai Xuanhe Photovoltaic Power Limited company) dividends distributed before the sale.

At the end of each reporting period, the issuer's other receivables classified by category are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Dividend receivable	6,777.31	7,204.85	-
Other receivables	148,714.30	103,503.93	53,43.92
total	155,491.61	110,708.78	53,43.92

Among them, the details of dividends receivable as of December 31, 2019 are as follows:

Investee	Specific composition	Amount (ten thousand yuan)
Xiangshui Heng Neng Sun Power Generation Co., Ltd. Division	On March 30, 2018, Xiangshui Hengneng Solar Power Co., Ltd. held a shareholder meeting. Yes, 65,990,344.25 yuan of the distributable profit will be allocated to the issuer, and the issuer's payment to Xiangshui Hengneng was RMB 20,316,650.91, which offset part of the amount of dividends received.	4,567.37
Xiangshui Yongneng Sun Power Generation Co., Ltd. Division	On March 30, 2018, Xiangshui Yongneng Solar Power Co., Ltd. held a shareholder meeting. Yes, 19,439,834.28 yuan of the distributable profit will be distributed to the issuer.	1,943.98
Suqian Sky Blue Photovoltaic Electric Power Co., Ltd.	Suqian Tianlan Photovoltaic Power Co., Ltd. held a shareholders meeting on June 30, 2018. Distribute 10,372,260.46 yuan of the distributable profit to the issuer. Issuer It received 9,097,883.95 yuan on December 31, 2019.	127.44
Shanghai Xuanhe Photovoltaic Electric Power Co., Ltd. Division	On June 15, 2018, Shanghai Xuanhe Photovoltaic Power Co., Ltd. held a shareholder meeting. Distribute 6,221,825.06 yuan of the distributable profit to the issuer, and issue People received 1,373,815 yuan on June 28, 2018, November 2019 On the 21st, 3,622,451.23 yuan was received.	122.56
Shanghai Zhijie New Energy Source Technology Co., Ltd. Division	On June 15, 2018, Shanghai Zhijie New Energy Technology Co., Ltd. held a shareholder meeting. Yes, it will allocate 6,870,671.27 yuan of the distributable profit to the issuer and issue Pedestrians received 4,783,702.28 yuan on July 3, 2018, Received 833,647.75 yuan on 26th, November 30th, 2019 1,093,697.61 yuan.	15.96
total		6,777.31

Among them, the details of the dividends receivable on December 31, 2018 are as follows:

Investee	Specific composition	Amount
Xiangshui Heng Neng Sun Power Generation Co., Ltd.	On March 30, 2018, Xiangshui Hengneng Solar Power Co., Ltd. held a shareholder meeting. Allocate 65,990,344.25 yuan of the distributable profit to the issuer.	4,567.37
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Investee	Specific composition	Amount
Trina Solar Co., Ltd.	Prospectus	
Division	People pay 20,316,650.91 yuan to Xiangshui Hengneng, which offsets part of the dividend receivable amount.	
Xiangshui Yongneng Sun Power Generation Co., Ltd. Division	On March 30, 2018, Xiangshui Yongneng Solar Power Co., Ltd. held a shareholder meeting. Allocate 19,439,834.28 yuan of the distributable profit to the issuer.	1,943.98
Shanghai Zhijie New Energy Source Technology Co., Ltd. Division	On June 15, 2018, Shanghai Zhijie New Energy Technology Co., Ltd. held a shareholder meeting. Allocate 6,870,671.27 yuan of the distributable profit to the issuer, and the issuer On July 3, 2018, 4,783,702.28 yuan was received.	208.70
Shanghai Xuanhe Photovoltaic Electric Power Co., Ltd.	On June 15, 2018, Shanghai Xuanhe Photovoltaic Power Co., Ltd. held a shareholder meeting. Distribute 6,221,825.06 yuan of the distributable profit to the issuer, and the issuer On June 28, 2018, 1,373,815 yuan was received.	484.80
total		7,204.85

The issuer not only has dividends receivable for the relevant power station project company, but also sells the power station to this part of the fund. The reason and rationality are as follows: In the initial construction of related power station projects, the power station project company does not have To prepare the corresponding financial strength or financing capacity, the issuer shall apply to the power station project company through internal fund b Funds were provided to form a disbursement payment to the power station project company. Before the sale of the power plant project company, the issuer The power plant's buyer negotiated and reached an agreement, and the power plant project company paid dividends before the sale, thus forming Dividends receivable from the power plant project company.

②Other receivables

A. Classification of other receivables by nature

At the end of each period in the report, the classification of other receivables according to the nature of the funds is as follows:

Unit: ten thousand yuan

Nature of Payment	2019 Nian		2018 Nian		2017 Nian	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Double anti-margin	110,497.76	61.57%	70,434.65	58.53%	27,038.68	38.88%
Receivable related parties	25,499.93	14.21%	15,703.67	13.05%	1,321.80	1.90%
Margin and deposit	13,473.04	7.51%	12,183.91	10.12%	13,289.75	19.11%
Employee reserve	301.50	0.17%	370.93	0.31%	197.03	0.28%
VAT receivable export tax rebate	-	-	1,066.63	0.89%	3,642.55	5.24%
Project Advance	3,613.92	2.01%	4,006.69	3.33%	7,235.63	10.40%
Current payment	19,857.86	11.06%	11,241.69	9.34%	11,826.80	17.01%
other	6,235.86	3.47%	5,329.22	4.43%	4,994.92	7.18%
total	179,479.87	100.00%	120,337.39	100.00%	69,547.15	100.00%
Bad debt provision	30,765.57	-	16,833.46	-	14,503.23	-

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Nature of Payment	2019 Nian		2018 Nian		2017 Nian	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Book value	148,714.30	-	103,503.93	-	53,43.92	-

During the reporting period, the company's other accounts receivable increased year by year, mainly due to the

Between 2011 and 2018, some of the solar modules provided to the US market were paid to the US Customs.

Anti-subsidy and anti-dumping deposits (ie "dual anti-dumping deposits") have been paid. These deposits are based on

The corresponding anti-subsidy and anti-dumping advance deposits declared effective by the U.S. Department of Commerce when the customs declares Rate calculated.

In 2017, the U.S. Department of Commerce reported that the company's financial services from December 1, 2014 to November 30, 2015 and 2016. The final anti-dumping tariff rate was announced for goods imported between July 31, 2016 and January 31, 2016. same year, The U.S. Department of Commerce issued countervailing duties on goods imported by the company between June 2014 and December 2014 Final tax rate. The company is based on the difference between the advance margin rate and the final tax rate and the actual payment in the respective ap Easy Amount confirmed the double anti-margin that should be returned.

In 2018, the U.S. Department of Commerce reported that the company's financial services from February 1, 2016 to January 31, 2017 and 2015 From December 1, 2016 to November 30, 2016, the final anti-dumping tariff rate was announced. same year, The U.S. Department of Commerce issued countervailing duties on goods imported by the company between January 2015 and December 2014 Final tax rate. The company is based on the difference between the advance margin rate and the final tax rate and the actual payment in the respective ap Easy Amount confirmed the double anti-margin that should be returned.

B. Provision for bad debts of other receivables of the company

At the end of each reporting period, the company's other receivables classified by category are as follows:

December 31, 2019:

Unit: ten thousand yuan

2019 Nian 12 Yue 31 Ri

category	Book balance	Bad debt provision
Provision for bad debts per item	13,348.40	13,348.40
Provision for bad debts by portfolio	166,131.47	17,417.17
Combination 1: Margin receivable and pledge gold	123,940.80	14,667.42
Combination 2: Reserve funds receivable and out	301.50	32.66
Tax refund		
Combination 4: Out of consolidation scope of receivables	25,499.93	924.02
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2019 Nian 12 Yue 31 Ri		
category	Book balance	Bad debt provision
Related party transactions		
Combination 5: other receivables	16,389.24	1,793.08
total	179,479.87	30,765.57

2017-2018:

Unit: ten thousand yuan

project	2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Book balance	Bad debt provision	Book balance	Bad debt provision
Individual amounts are significant and separately accrued				
Other accounts payable	7,593.65	7,593.65	8,609.66	8,609.66
Accrued according to the combination of credit risk characteristics				
Other accounts receivable for bad debt provision	109,822.72	6,318.79	58,038.12	2,994.20
Individual amount is not significant but counted separately				
Other receivables with provision for bad debt	9,921.02	2,921.02	2,899.37	2,899.37
paragraph				
total	120,337.39	16,833.46	69,547.15	14,503.23

At the end of each period in the report, other accounts receivable with provision for bad debts based on the aging analysis method are as follows:

Unit: ten thousand yuan

Aging	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Book balance	Bad debt provision	Book balance	Bad debt provision	Book balance	Bad debt provision
Within 6 months	61,255.86	306.45	64,255.46	321.24	45,771.52	223.86
7-12 months	20,092.25	1,004.61	8,696.96	434.85	3,142.97	156.11
Subtotal within 1 year	81,348.10	1,311.07	72,952.42	756.08	48,914.49	379.97
1 to 2 years	51,914.37	5,191.44	31,992.81	3,199.28	6,033.33	603.33
2 to 3 years	29,382.66	8,814.80	3,384.32	1,015.30	311.82	93.55
3 to 4 years	2,772.93	1,386.47	290.09	145.04	1,722.27	861.13
More than 4 years	713.40	713.40	1,203.08	1,203.08	1,056.22	1,056.22
total	166,131.47	17,417.17	109,822.72	6,318.79	58,038.12	2,994.20

C. The company's top five other receivables

During the reporting period, the top five other receivables of the company are as follows:

(A) The top five accounts receivable on December 31, 2019

Unit: ten thousand yuan

Serial number	company name	Nature of payment	Ending balance	Percentage
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Serial number	company name	Nature of payment	Ending balance	Percentage
1	US Customs (US Customs and Border Protection)	Double anti-margin	110,497.76	61.57%
2	ESJ Renovable I, S. de RL de CV	Receivable related parties	8,724.36	4.86%
3	Tianhe Xingyuan Investment Development Co., Ltd.	Receivable related parties	7,457.78	4.16%
4	Solaricos Trading Ltd.	Current payment	5,576.63	3.11%
5	Xiangshui Hengneng Solar Power Co., Ltd. Division	Current payment	5,507.54	3.07%
	total	-	137,764.07	76.76%

(B) The top five accounts receivable at the end of 2018

Unit: ten thousand yuan

Serial number	company name	Nature of payment	Ending balance	Percentage
1	US Customs (US Customs and Border Protection)	Double anti-margin	70,434.65	58.53%
2	Solaricos Trading Ltd	Current payment	5,486.30	4.56%
3	Xiangshui Hengneng Solar Power Limited company	Receivable related parties	5,000.00	4.15%
4	Shanghai Xuanhe Photovoltaic Power Co., Ltd.	Receivable related parties	3,661.94	3.04%
5	Tongchuan Development and Reform Commission	Margin deposit	3,060.00	2.54%
	total		87,642.89	72.83%

(C) The top five accounts receivable at the end of 2017

Unit: ten thousand yuan

Serial number	company name	Nature of payment	Ending balance	Percentage
1	US Customs (US Customs and Border Protection)	Double anti-margin	27,038.68	38.88%
2	Solaricos Trading Ltd	Current payment	5,223.30	7.51%
3	Shuangliao Tianhe Solar Power Development Limited company	Project Advance	4,200.06	6.04%
4	Shanghai Pilot Free Trade Zone Tax branch	VAT receivable export tax rebate	2,852.11	4.10%
5	Sungrow Power Supply Co., Ltd.	Project Advance	2,088.50	3.00%
	total		41,402.65	59.53%

D. The basis for accruing double anti-margin receivables

Double anti-dumping (AD) and countervailing (CVD) abbreviation. Anti-dumping refers to the Countermeasures against dumping in the domestic market.

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According to the "U.S. International Trade Commission Anti-dumping and Countervailing Handbook" published on the website of the Ministry of Commerce, the entire investigation procedure of anti-dumping and countervailing cases can be divided into 5 stages, each stage is based on the US Department of Commerce (DOC) or the United States International Trade Commission (USITC) made a decision and ended, except for the first stage. In addition, there will be some overlap in time between the remaining four stages, but the basic sequence will not change significantly.

4. The details are shown in the following table:

Serial number	stage	specific contents
1	Submit an appeal And initiate check	The first procedure for a trade remedy case is to initiate an investigation, which can be initiated by the DOC or USITC. Involving corporate sponsorship. Stakeholders must submit their countermeasures to the DOC and USITC at the same time (same day). Dumping or countervailing complaint. Within 20 days after the complaint is submitted, the DOC will determine whether the complaint includes the necessary elements for imposing a tariff and the letter reasonably available to the complainant supporting the complaint. Make a decision. If its decision is affirmative, DOC initiates an investigation to determine whether there is a subsidy or dumping; if the decision is negative, the appeal is rejected and the entire procedure is terminated.
2	USITC Preliminary investigation stage	Within 45 days of the submission of the complaint, USITC will decide whether or not based on the best information available at the time there are reasons to allege that the import of the product under investigation caused substantial damage or substantial damage to an industry in the United States. The threat of substantial damage, or the establishment of an industry in the United States is substantially hindered. Under normal circumstances, assuming that USITC has made a positive preliminary investigation decision, the Ministry of Commerce will base the best information available at the time, for anti-dumping cases within 160 days after the filing date of the complaint or for the countervailing case, within 85 days, whether there is reason to believe or suspect that the imported goods under investigation are sold at less than fair value, or the product under investigation may be offset by subsidies. Make a decision.
3	The beginning of DOC Step investigation Segment (preliminary determination)	If the preliminary investigation by the Ministry of Commerce is positive, the Ministry of Commerce will order the suspension of all investigations on the goods to be investigated. Enter or pick up the goods for customs clearance. If these goods are used in the Federal Register to publish the Department of Commerce for consumption on the day of the preliminary decision and after that day, the importer is required to pay a cash deposit or bond deposit is submitted for the input of the investigated commodity, and the amount is based on the estimated weighted average dumping margin, or estimated offsetting subsidy rate. Even if the DOC makes a negative decision, the Ministry of Commerce will continue the final phase of the investigation, but at this time, the importer will no longer be required to pay a cash deposit. Gold or bond deposit.
4	DOC's most Post-investigation stage Segment (final decision)	DOC only needs to prove reasonable signs of damage at the preliminary ruling stage, and must prove at the final ruling stage that subsidies or dumping material damage, and estimate the value and life of the subsidy rate or dumping margin. Make relevant parties pay a margin of equivalent value. Under normal circumstances, for anti-dumping cases, within 235 days after the date of submission of the appeal, or for anti-dumping cases, within 160 days of posting the case, the DOC will determine whether the imported goods under investigation are subsidized. The final decision is made on price sales, or whether the product under investigation is being subsidized.
5	USITC most Post-investigation stage Segment (final decision)	Under normal circumstances, for anti-dumping cases, within 280 days after the filing date of the complaint or for anti-subsidy cases, within 205 days, USITC will determine whether the import of the product under investigation is materially damaged or threatened by material damage, or the establishment of an industry in the United States is subject to substantial hindrance. The final decision is made on the issue of substantial hindrance.

After completing the above process, the US Department of Commerce and the US International Trade Commission will make a final administrative decision, the final administrative decision will clarify the anti-dumping and anti-subsidy deposit rate. Actually responsible for executing margin collection. The collection and return agency is the US Customs.

If the final margin rate is lower than the initial margin rate, then: According to 19 USC 1673f(b)(2) (US Code Note 1673f(b)(2)), the U.S. Customs shall refund the amount of the initial ruling bond higher than the final ruling bond, the same

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According to 19 USC 1677g(a) (United States Code Note 1677g(a)), when refunding the overcharged deposit, At the same time, the interest shall be refunded in accordance with the interest rate stipulated in 26 USC 6621.

Conversely, if the margin rate for the final ruling is higher than the margin rate for the initial ruling, a reimbursement of the margin is required.

Based on the difference between the final ruling margin rate of the double-antis case and the initial ruling margin rate, the issuer confirms the receipt of the margin.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

E. The recovery of margin during the reporting period

During the reporting period, the issuer did not receive the double-reverse bond returned by the US Customs. As of March 31, 2020
On the same day, the issuer received a total of US\$6.9926 million in refunds and interest related to the Solar2 case
Yuan, equivalent to RMB 48.243 million.

F. Double reverse margin bad debt provision situation

During the reporting period, the company's provision of bad debts for the anti-dumping deposit is as follows:

Time point	Margin receivable Original value	Within 6 months	6 months -1 year	1-2 years	2-3 years	3-4 years	4 years the above	Bad debt amount
End of 2019	110,497.76	43,354.88	-	38,365.11	26,819.93	1,957.84	-	13,078.19
End of 2018	70,434.65	42,123.02	-	26,385.50	1,926.13	-	-	3,427.00
End of 2017	27,038.68	25,120.66	-	1,918.01	-	-	-	125.60

Regarding the anti-dumping deposit, the issuer based on the progress of the relevant case, combined with the professional judgment of anti-dumping
At the end of each year, a full evaluation was carried out item by item. After evaluation, the issuer believes that there is no special
Specific impairment risk, therefore, the issuer accrues receivables according to the following ratio
Bad debt loss of double anti-margin.

Aging	Provision ratio of other receivables
Within 1 year (including 1 year)	-
Among them: 0-6 months (including 6 months)	0.5%
7-12 months (including 12 months)	5%
1-2 years (including 2 years)	10%
2-3 years (including 3 years)	30%

The liquidation tax rate refers to the guarantee levied by the U.S. Department of Commerce during the annual review and investigation of dual anti
Security rate, which is the final tax rate at the review of the previous year. After the final review of the current year, the U.S. Customs

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According to the difference between the final tax rate of the current year and the liquidation tax rate, "refund more and less make up". If both parties sub
The U.S. Customs will suspend the return and replacement procedures, and implement them after the litigation is over. According to the professional opi
The possibility that the continued litigation process will cause the U.S. Department of Commerce to increase the final tax rate is less than 5%. On the oth
Believing that the U.S. Department of Commerce and the U.S. International Trade Commission are government agencies of the United States and there i
risk. In summary, the issuer believes that there is no special impairment risk for the receivable double anti-margin, and according to the characteristics of
The portfolio is accrued using the aging method, and the bad debts of accounts receivable are fully accrued.

G. Post-period recovery of other receivables by nature

As of March 31, 2020, the issuer's main items of other receivables by nature as of the end of 2019
The statistics of the payment after the current period are as follows:

Nature of Payment	2019 Nian 12 Yue 31st other applications	Sampling statistics	Sampling statistics	Refund amount	Repayment ratio

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

	Receipt balance	Amount	Proportion (%)		(%)
Double anti-margin	110,497.76	110,497.76	100.00%	-	-
Receivable related parties	25,499.93	25,058.87	98.27%	3,025.25	12.07%
Margin and deposit	13,473.04	10,466.76	77.69%	1,921.95	18.36%
Employee reserve	301.50	181.40	60.17%	76.07	41.94%
Project Advance	3,613.92	3,610.15	99.90%	1,354.99	37.53%
Current payment	19,857.86	16,836.45	84.78%	121.64	0.72%
other	6,235.86	2,316.68	37.15%	436.46	18.84%

As of December 31, 2019, the issuer's main items of other receivables by nature as of the end of 2018

The post-term payment statistics are as follows:

Unit: ten thousand yuan					
Nature of Payment	2018 Nian 12 Yue	Sampling statistics amount	Proportion of sampling statistics (%)	Repayment ratio (%)	Repayment ratio (%)
	Receipt balance				
Double anti-margin	70,434.65	70,434.65	100.00	4,402.32	6.25
Receivable related parties	15,703.67	14,517.98	92.45	5,974.19	45.15
Margin and deposit	12,183.91	9,162.62	75.20	5,332.75	58.20
Employee reserve	370.93	236.08	63.64	137.81	58.38
VAT receivable exports	1,066.63	1,007.07	94.42	749.42	74.42
Tax refund					
Project Advance	4,006.69	3,734.20	93.20	169.90	4.55
Current payment	11,241.69	9,349.14	83.16	-	-

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other	5,329.22	2,363.29	44.35	743.95	31.48
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Receivables from related parties: As of December 31, 2019, the company's amounts due from related parties as of the end of 2018

The post-period repayment ratio is 45.15%. The balance of related parties is mainly due to the issuer and Xiangshui Hengneng Solar Power Co., Ltd.'s account of RMB 50 million and ESJ Renewable I, S. de RL de CV

The amount is 21,322,000 yuan, and the aging is within 1 year, and the risk of irrecoverability is low. As of 2020

On March 31, the company had a relatively low percentage of receivables from related parties as of the end of 2019, mainly due to

In 2019, the company sold the nuclear trust of Suqian Tianlan Photovoltaic Power Co., Ltd. within the scope of the original consolidated statement.

Kexun County Trina Solar Energy Co., Ltd. Corresponding transactions will be converted from internal transactions to external transactions,

The accounts are all within 1 year, and the risk of irrecoverability is low.

Margin and deposit: As of March 31, 2020, the company's margin and deposit receivable as of the end of 2019

The post-period repayment ratio of the deposit is 18.36%. The deposit and deposit are determined by the nature of the money and will follow the contract. Recovered after the completion of execution and specific reasons, the payment speed is slow.

Staff reserve fund: the issuer allocates to internal user units or individual employees as sporadic expenses, travel

Expenses, spare funds for sporadic purchases, due to business needs, maintain a relatively stable level throughout the year, with a net return

The amount is lower.

Project advancement: provide power stations with the issuer to power station project companies owned by third-party partners

During the construction of the project, part of the funds will be paid on behalf of the joint development of cooperative power station projects. As of

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The proportion of payment on March 31, 2020 is relatively low, mainly due to the long development cycle of some projects and the grid-connected power. It also takes a certain period of time for electricity to generate income, and this type of payment is usually slow in return.

(7) Inventory

At the end of each reporting period, the company's inventory details are as follows:

project	Unit: ten thousand yuan		
	Book balance	Fall in price	Book value
2019 Nian 12 Yue 31 Ri			
Raw materials	68,602.05	4,149.33	64,452.72
In product	53,396.63	668.95	52,727.68
Inventory	159,545.35	2,224.91	157,320.43
Photovoltaic power station	144,762.12	-	144,762.12
Consigned processing materials	-	-	-
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Trina Solar Co., Ltd.		Prospectus	
project	Book balance	Fall in price	Book value
Completed unsettled capital formed by construction contract	123,684.52	-	123,684.52
Produce			
release products	18,735.37	-	18,735.37
total	568,726.04	7,043.19	561,682.85
2018 Nian 12 Yue 31 Ri			
Raw materials	60,798.50	3,330.04	57,468.45
In product	36,159.29	409.06	35,750.24
Inventory	123,611.67	6,270.56	117,341.11
Photovoltaic power station	259,434.48	-	259,434.48
Consigned processing materials	1,432.87	-	1,432.87
Completed unsettled capital formed by construction contract	62,274.99	-	62,274.99
Produce			
release products	6,455.89	-	6,455.89
total	550,167.69	10,009.66	540,158.03
2017 Nian 12 Yue 31 Ri			
Raw materials	74,599.73	3,585.74	71,013.99
In product	58,182.21	1,875.92	56,306.29
Inventory	216,367.57	10,781.95	205,585.62
Photovoltaic power station	808,550.35	-	808,550.35
Consigned processing materials	1,738.41	-	1,738.41
Completed unsettled capital formed by construction contract	26,098.35	-	26,098.35
Produce			
release products	22,882.00	-	22,882.00
total	1,208,418.63	16,243.60	1,192,175.02

The company's inventory mainly consists of goods in stock, products in progress, raw materials, and completed and unsettled construction contract. Calculate assets, etc. At the end of 2017, 2018 and 2019, the book balance of the company's inventory was RMB 12,084,186,300, RMB 5,501,676,900 and RMB 5,827,260,400. At the end of 2018, the book value of inventory

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The decline in value was mainly due to the sale of some photovoltaic power plants by the company in 2018. At the end of 2019, the inventory account The face value has remained relatively stable as a whole. Among them, the amount of photovoltaic power plants has fallen, and the inventory of goods a The completed and unsettled assets increased.

At the end of 2018, the completed and unsettled assets formed by the issuer's construction contracts increased significantly, mainly due to The project started that year has not been settled as of the end of the year.

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①The rationality of production cycle and inventory stocking policy, inventory age distribution and balance fluctuation of each inventory item, Coverage of orders in hand, slow-moving inventory with long storage age

A. Production cycle and inventory stocking policy

There are differences in the production cycle of different orders of the issuer. From the input of raw materials to the warehousing of finished products About 10-20 days. In addition, the transportation time from the manufacturing plant to the domestic or overseas warehouse varies depending on the regional Big difference.

During the reporting period, the issuer adopted the following inventory preparation policy:

Sales targets, business models and trade terms in each region set corresponding inventory management targets. Component ending inventory Mainly divided into sales inventory, warranty backup inventory, power station sales business and power station engineering construction management business in stock. Among them, the time for sales inventory from production completion to delivery is about 1-2 weeks; warranty spare inventory is based on The historical component shipments and historical replacement situation are based on the estimated inventory, and stocks are prepared; the power station The power station construction progress and project development status are prepared for stocking.

B. The balance of each inventory item and the distribution of warehouse age

At the end of each reporting period, the company's inventory balance details are as follows:

project	Unit: ten thousand yuan		
	2019.12.31 Book balance	2018 . 12 . 31 Book balance	2017 . 12 . 31 Book balance
Raw materials	68,602.05	60,798.50	74,599.73
In product	53,396.63	36,159.29	58,182.21
Inventory	159,545.35	123,611.67	216,367.57
Among them: photovoltaic modules	157,394.37	117,647.15	190,490.48
System Products	1,432.22	5,885.53	25,839.89
Smart energy	718.75	78.99	37.20
Photovoltaic power station	144,762.12	259,434.48	808,550.35
Consigned processing materials	-	1,432.87	1,738.41
Completed uncompleted projects formed by construction contracts	123,684.52	62,274.99	26,098.35
Settlement assets			
release products	18,735.37	6,455.89	22,882.00
total	568,726.04	550 , 167 . 69	1 , 208 , 418 . 62 is

The issuer's inventory book balance was relatively stable from 2016 to 2017, and the inventory balance declined in 2018.

There was a slight increase on December 31, 2019. The main reasons are as follows:

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① Issuer's inventory of power plants (including photovoltaic power plants and completed unsettled assets formed by construction contracts) It accounts for a higher proportion of inventory. As the issuer sold more photovoltaic power plants in 2018 and 2019, The balance of goods has been declining year by year; at the same time, due to the rapid growth of EPC business in 2019, the completed construction co The balance of unsettled assets rose.

② The issuer further optimized inventory management in 2018. Due to the stocking rhythm and the fourth quarter of 2018 With relatively better sales, the ending inventory of non-power station inventory at the end of 2018 decreased compared with 2017.

③ In 2019, the market demand for photovoltaic modules increased, and issuers increased their stocks based on the number of orders on hand. As a result, the inventory balance at the end of 2019 has increased compared to the end of 2018.

At the end of each reporting period, the issuer's non-power plant inventory age distribution is as follows:

Unit: ten thousand yuan

		Non-power plant inventory			
project	Ending balance	0 - 90 Tian	91 - 180 Tian	181 - 360 days	360 days over
2019 Nian 12 Yue 31 Ri					
Raw materials	68,602.06	62,585.20	1,187.53	2,333.13	2,496.20
In product	53,396.62	53,115.04	278.78	2.74	0.06
Inventory	159,545.34	139,762.41	9,371.43	7,309.52	3,101.98
release products	18,735.37	18,735.37	-	-	-
Consignment processing Capital	-	-	-	-	-
total	300,279.39	274,198.02	10,837.74	9,645.39	5,598.24
2018 Nian 12 Yue 31 Ri					
Raw materials	60,798.50	51,722.48	2,562.76	3,014.06	3,499.20
In product	36,159.29	35,555.85	60.52	9.56	533.36
Inventory	123,611.67	95,515.64	17,853.76	6,416.98	3,825.29
release products	6,455.89	6,455.89	-	-	-
Consignment processing Capital	1,432.87	1,432.87	-	-	-
total	228,458.22	190,682.73 is	20,477.04	9,440.60	7,857.85
2017 Nian 12 Yue 31 Ri					
Raw materials	74,599.73	70,692.29	1,808.96	1,289.11	809.38
In product	58,182.21	54,466.63	2,879.12	573.78	262.67
Inventory	216,367.57	179,991.00	24,798.48	8,749.48	2,828.62
release products	22,882.00	22,882.00	-	-	-

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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Consignment processing	1,738.41	1,738.41	-	-	-
Capital					
total	373,769.92	329,770.33	29,486.56	10,612.37	3,900.67

Generally speaking, the age of the issuer's inventory outside of the power plant business is mostly within 90 days.

The production cycle and stocking policy are consistent.

The age of power station inventory is mostly 1-3 years, which is consistent with the company's power station sales business model and situation.

C. Coverage of orders in hand

The issuer's end-of-period component business orders and inventory are as follows:

project	Unit: MW		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Quantity of goods in stock	955.18	681.15	918.64
Number of orders in hand	5,359.93	1,256.79	1,177.48

At the end of each period, the company's number of orders in hand exceeded the number of goods in stock, and the coverage rate of orders in hand

D. Is there any slow-moving inventory with a long storage age?

The inventory of the issuer's inventory of more than one year is mainly quality assurance stock. According to the requirements of the stocking policy, the issuer reserves part of the components as quality assurance stock inventory, so some long-age inventory will be generated. This part is prepared for actual use, and the risk of inventory impairment is low.

In addition to the above-mentioned stocking inventory, the issuer shall determine the sluggishness and When it is more difficult to achieve sales, the issuer shall make full provision for falling prices of related inventories.

②Inventory accounting policy of photovoltaic power station, the specific composition of photovoltaic power station, including but not limited to the Company name, whether it is a centralized power station, completion and grid connection time, book balance and various cost components

The issuer decides to sell or hold operations during the photovoltaic power stand-up phase, and will hold the list of selling photovoltaic power plant. Displayed as "inventory", and list the photovoltaic power plants in operation as "fixed assets". During the reporting period, the issuer's holding purpose of the relevant photovoltaic power plants has not changed, and there has been no change in the power plant reporting in this report.

The issuer's specific criteria for dividing photovoltaic power plants into inventory and fixed assets are based on holding intentions. Points, namely: "front-runner" photovoltaic power plants that restrict the transfer of policies and the issuer's roof spontaneous self-use photovoltaic Power plants are listed as "fixed assets"; the project documents clearly hold photovoltaic power plants intended for external sales As "inventory", photovoltaic power plants with a clear intention to operate for power generation are listed as "fixed assets".

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The issuer's basis for dividing photovoltaic power plants into inventory and fixed assets is mainly based on policy regulations and documents. The project initiation document of the photovoltaic power station, the issuer's project initiation document will estimate the operating cost of the sales price. Based on this, relevant financial analysis and evaluation are made, and the content of the project approval document states that the holding intention of the power plant is for external sales or holding operations.

A. Inventory accounting policy for photovoltaic power plants

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

During the reporting period, the issuer performed the initial measurement, subsequent measurement, and carry-over cost of the photovoltaic power. The inventory accounting policy at /time is as follows:

Initial measurement: confirm the photovoltaic power plants to be sold in accordance with the "Accounting Standards for Business Enterprises No. For inventory, the cost includes: purchase cost, construction cost and other expenses attributable to the cost of the power station.

The issuer's transportation costs, loading and unloading costs, insurance costs and other. The cost of inventory purchase costs, etc. are included in the purchase cost. The related costs of project construction are included in the construction cost. Land use rights fees, design fees, survey fees, supervision fees, etc. are included in other expenses. The above expenses are reported in the consolidated statement. After offsetting the internal unrealized gross profit of power station construction at the surface level, it is included in the inventory cost.

Subsequent measurement: depreciation of photovoltaic power plants at the subsidiary level according to the straight-line method, and offset at the consolidated level. After the internal unrealized gross profit of the power station construction is sold, the fixed assets and intangible assets related to the power station will be listed in the inventory account of the consolidated statement.

B. Specific composition of photovoltaic power station

The issuer's photovoltaic power station construction mode is divided into: self-built mode and general contract mode.

Self-built model: refers to the issuer's full control of design, provision of equipment components, construction, and operation, which is beneficial to control costs.

Turnkey contract mode: After the project decision-making stage, from the beginning of the design, the issuer entrusts the engineering company to Design-purchase-engineering for general contracting. In this mode, according to the total price specified in the contract or adjustable. The engineering company is responsible for the management and control of the progress, cost, quality and safety of the engineering project. And complete the project as agreed in the contract.

The photovoltaic power plants held by the issuer have different construction models. The following shows the cost components for the 40MW photovoltaic power station in Renmin Village, the subsidence area of Renlou Mine, Nanping Town, Suixi County, the cost components are as follows:

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		Unit: ten thousand yuan
project	Amount	
Original value of photovoltaic power station		23,218.74
Among them: equipment materials		17,989.15
Construction cost		4,726.95
other fee		502.64
Accumulated depreciation		-1,555.46
total		21,663.28

In the cost structure of photovoltaic power plants, components, inverters, brackets and other equipment and materials account for a relatively high proportion. The second is construction costs, and other costs such as design, exploration, and supervision account for a relatively low proportion.

At the end of each period of the reporting period, please refer to this prospectus for details of the photovoltaic power plants included in the inventory. Annex VIII.

③The situation of the project that has been completed and actually delivered but has not been accounted for or audited and the reason for the unset Whether there are disputes and related risks with the owner

A. During the reporting period, the issuer handled the final accounts or audited projects in a timely manner, and the projects undertaken by the issuer After the completion of the project, all parties shall jointly check and accept the project. After passing the check and acceptance, in accordance with the According to the requirements of the "Construction Contract", revenue shall be confirmed according to the completion progress and project settlement sl On the 31st, three projects have been completed and actually delivered, but the final accounts or audits have not yet been processed:

Tianjin China North City 5.21MW distributed photovoltaic power generation project failed to settle accounts due to project quality disputes. In addition, Two projects are in the process of settlement or the final settlement has not been started because the settlement conditions have not been met.

During the reporting period, the final accounts of completed projects as of March 31, 2020 are detailed in Annex IX.

The issuer has disputes with the owners in the following two power station projects:

Serial number	project name	plaintiff	defendant	Prosecute / stand Case time	The amount of the subject	Case progress
1	Hebei Ningfeng Electric Limited gas equipment Company 5.9MW Distributed photovoltaic power generation EPC item	Trina Solar (Beijing) Department System integration Limited company	Ningbo Tian'an Group shares Is limited company Division	2018 year November	Engineering section 2,570.94 Ten thousand yuan, late payment Liquidated damages, property insurance for all expenses Fee 61,800 yuan	Pending insurance
2	Tianjin North China City 5.21MW distribution Photovoltaic power generation project	Tianjin Beichengxin Energy technology has limited company	Tianhe Wisdom Energy Engineering month	2018 2 month	RMB 16,809,100	First instance in
		Trina Wisdom Energy	Tianjin Beichengxin		The final payment of RMB 63,432,900 in 2018	

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Serial number	project name	plaintiff	defendant	Prosecute / stand Case time	The amount of the subject	Case progress
		Source engineer	New Energy Section Technology Limited Division	month	And 581,300 yuan Lost work loss	

(A) In 2018, the issuer and Hebei Ningfeng Electric Equipment Co., Ltd.

In case of a dispute arising from the EPC project of Fu Power Generation, a lawsuit was filed in the court to request the guarantor Ningbo Tian'an (Group) Co., Ltd. shall bear joint and several liabilities for the unpaid project payment and overdue interest of Hebei Ningfeng Electrical Equipment Co., Ltd.

Liability guarantee. On May 23, 2019, the case was heard in court and is still under trial. According to the lawyer

According to the legal opinion issued by the firm, the issuer of the case is more likely to win.

(B) In 2018, Tianjin Beicheng New Energy Technology Co., Ltd. and the issuer produced a report on the quality of EPC projects.

Disputes, sued Tianhe Smart Energy Engineering, demanding return and compensation for various economic losses. At the same time, the issuer

It also filed a lawsuit, demanding Tianjin Beicheng New Energy Technology Co., Ltd. to pay the balance of the project and the loss of work. Item

The previous case is still in the process of trial of the first instance, and the sponsoring lawyer does not believe that the other party is likely to obtain the Amount.

During the reporting period, the issuer's photovoltaic power plant construction business developed rapidly. From 2017 to 2019,

The issuer has cumulatively completed many EPC projects in China, Japan, South America and other domestic and overseas regions. Customer type

Covering different industries at home and abroad, the overall project quality of the issuer's photovoltaic power plant construction business is good.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. However, it cannot be ruled out that business operations may be caused due to construction management, raw material procurement quality, project outcomes. Disputes or disputes between the main party and the issuer may bring litigation risks; in addition, some customers may

Due to its own funds, the issuer was unable to recover the project funds in time. The relevant risks have been included in the prospectus "Reminder of Significant Events/6/(7)/2. Litigation Risks Related to Other Business Activities" and "Section IV Risks Supplementary disclosure in "Factors".

④The withdrawal policy, withdrawal ratio and withdrawal process of the inventory falling price reserve shall be subject to price falling of comparison. The comparison between the provision policy and the provision ratio, the reason why the issuer's inventory fall. Whether the provision for falling price of goods is adequate

A. The accrual policy and accrual process of inventory falling price reserves

On the balance sheet date, it is measured at the lower of cost and net realizable value, and the inventory cost is higher than its net realizable value, The provision for inventory falling prices is withdrawn and included in the current profit and loss.

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At the end of each period, the issuer classifies and manages the inventory with signs of impairment. The inventory is based on inventory age and in. The inventory status and the inventory area are divided into normal products, defective products and long-age inventory, and the impairment conditions : condition. Details are as follows:

(A) Normal goods in inventory: Estimate the selling price of the inventory based on the orders in hand, and estimate the average sales based on the. The selling unit price minus the estimated selling expenses (mainly including freight and warranty money) and taxes to determine the net realizable value. And according to the cost of higher than the net realizable value of the difference between the provision of inventory impairment.

(B) Defective products and inventory with a long storage age: due to product upgrades, replacement of raw materials, Some components are unsalable due to reasons such as improvement and changes in market demand. The issuer's management. The sales prices of good/stale products are carefully estimated, and benchmark prices for impairment are determined.

(C) Material inventory (products and raw materials) that need to be processed: in the normal production and operation process. The estimated selling price of the finished product produced is subtracted from the estimated cost and estimated sales cost to the completion. Use the amount after relevant taxes and fees to determine its net realizable value.

The policy for the provision of inventory depreciation in the same industry is as follows:

company name

Accounting estimation policy of inventory falling price reserve

After the inventory is fully checked at the end of the period, withdraw or adjust the inventory according to the lower of the cost of the inventory and the net realizable value. Provision for falling prices. The inventory of products directly used for sale, such as finished products, inventory products, and materials for sale, In the normal production and operation process, the estimated selling price of the inventory minus the estimated selling expenses and related taxes. After the amount, determine its net realizable value; the inventory of materials that need to be processed, in normal production and operation. During the process, the estimated selling price of the finished product produced is subtracted from the estimated cost and estimated. The amount after the calculated sales expenses and relevant taxes and fees is determined to determine the net realizable value; for the execution of the sales contract or. The net realizable value of the inventory held under the labor service contract shall be calculated on the basis of the contract price.

Oriental Risen If the quantity is more than the quantity ordered in the sales contract, the net realizable value of the excess inventory is based on the general sales price. For the basic calculation.

At the end of the period, provision for inventory depreciation is made based on a single inventory item; but for inventory with a large quantity and a low unit price, Provision for inventory fall in price is made according to inventory categories; related to product series produced and sold in the same region, Inventories that have the same or similar end-use or purpose and are difficult to measure separately from other items are combined. Provision for falling prices of inventories is made.

	If the factors affecting the previous write-down of the inventory value have disappeared, the amount of the write-down shall be restored and the withdrawal amount of inventory falling price reserves is reversed, and the reversed amount is included in the current profit and loss.
GCL Integration	The company's management followed the "Accounting Standards for Business Enterprises No. 29-Events after the Balance Sheet Date", "Enterprise Meeting According to the relevant provisions of the Accounting Standards No. 1-Inventories, provision for falling prices is made based on the net realizable value of inventories. The net realizable value of inventory goods is based on the estimated selling price of the inventory goods minus estimated sales expenses and related taxes
Yijing Optoelectronics	The amount after the fee is determined. The net realizable value of raw materials, products in progress and turnover materials is based on the finished products produced After deducting the estimated cost, estimated selling expenses and related taxes and fees at the time of completion The amount is determined.

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company name Accounting estimation policy of inventory falling price reserve

	The inventory at the end of the period is measured by the method of the lower of the cost and the net realizable value, and the cost of a single inventory is higher than the The difference in value is provided for inventory depreciation. But for inventory with a large quantity and a low unit price, according to the inventory category
JA Solar	Don't make provision for inventory depreciation; it is related to, has the same or the same or For inventories that are similar to end-uses or purposes and are difficult to measure separately from other items, the combined provision for inventory decline Price reserve

Sources: annual reports, audit reports, restructuring reports of listed companies

Through the comparison of the same industry, there is no significant difference in the policy of the issuer and the comparable company's inventory

B. Provisions for inventory depreciation

During the reporting period, the issuer's inventory of power stations was relatively large. Due to its stable power generation situation, it had a stable

There is no sign of impairment. In order to enhance the comparability of the data, the ratio of

The accrual ratios of inventory depreciation reserves for station inventory are listed as follows:

year	Unit: ten thousand yuan					
		Trina Solar		Trina Solar (excluding power plant inventory)		
	stock	Inventory fall ready	Withdrawal ratio Example %	stock	Inventory fall ready	Withdrawal ratio Example %
2019 Nian 12 May 31 Ri	568,726.04	7,043.19	1.24	300,279.39	7,043.19	2.35
2018 Nian 12 May 31 Ri	550,167.69	10,009.66	1.82	228,458.22	10,009.66	4.38
2017 Nian 12 May 31 Ri	1,208,418.63	16,243.60	1.34	373,769.92	16,243.60	4.35

Comparable companies in the same industry are provided with the following ratios for inventory depreciation reserves:

company name	2019 (Note)	2018 year	2017 year
Oriental Risen	1.22%	1.29%	1.13%
GCL Integration	1.09%	0.88%	1.14%
Yijing Optoelectronics	16.93%	15.11%	4.96%
JA Solar	7.52%	11.01%	2.80%
Industry average	6.69%	7.07%	2.51%
Industry Scope	1.09%-16.93%	0.88-15.11%	1.13-4.96%
Trina Solar (excluding power plant inventory)	2.35%	4.38%	4.35%

Note 1: Yijing Optoelectronics' 2018 inventory depreciation reserves are accrued due to product renewal, some of the inventory is no longer suitable for the new product market According to the needs of the market, the cost of this inventory item and its net realizable value are compared one by one, and the inventory is measured at the lower.

Note 2: JA Solar has a large inventory of Hemlok silicon materials at the end of 2018, and the average purchase price is higher than the market price at the end of the period, since Hemlok The purchase of silicon material inventory fell in price reserve of RMB 179,036,300.

Note 3: Data source: annual reports, announcements, and restructuring reports of listed companies.

Compared with listed companies in the same industry, the issuer's inventory depreciation reserve is within a reasonable range of the industry.

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During the reporting period, the change trend of inventory depreciation ratio was basically consistent with the industry average change trend. Issuer prop

The sales of products in 2019 are good, the price of modules is relatively stable, and the coverage of orders in hand as of the end of 2019

With further improvement, the age of inventory continues to improve, and the issuer's inventory depreciation reserves have been fully accrued.

C. Analysis of the reasons for the decline in inventory price fall reserves

The main reasons why the issuer's inventory price fall reserves have decreased year by year are as follows:

(A) In 2018, the issuer further optimized inventory management and optimized production and sales based on market conditions.

The rhythm of sales; in the fourth quarter of 2018, market demand increased, sales were good, and the ending inventory balance declined.

At the end of the period, the provision for falling prices of inventories decreased accordingly.

(B) The issuer's product quality and technology are at the leading level in the industry, and sales in 2019 are good. cut

By the end of 2019, the issuer's coverage of orders on hand has further increased; in addition, the issuer continues to optimize inventory

Management, the proportion of inventory with the age of 0-180 days at the end of 2019 increased from 92.43% to 92.43% at the end of 2018

94.92%. In addition, module prices were relatively stable in 2019, and the inventory price decline reserves at the end of the period decreased accordingly

In summary, combined with market, product, technology and other factors, comprehensively consider the coverage of orders in hand at the end of €

And the net realizable value of inventories. During the reporting period, the issuer has fully accrued

Inventory impairment.

⑤ Disclose the issuer's inventory turnover rate based on the product structure and business model of comparable listed companies in the same indu

Reasons and rationality of being lower than comparable companies in the same industry

The business models of comparable listed companies in the same industry in 2018 and 2019 are as follows:

Same industry can Than the company	Business model
	Territory
	Mainly cover high-efficiency batteries, differentiated high-efficiency batteries, energy engineering, energy storage system integration and other related products
GCL Integration	Research and development, design, production, sales and its one-stop service.
	In 2018, the company's component business revenue accounted for 74.12%, and the system integration business revenue accounted for 23.71%.
	In 2019, the company's component business revenue accounted for 64.79%, and the system integration business revenue accounted for 27.40%.
	The main business includes ingot/silicon ingot production, silicon wafer processing, battery manufacturing, module packaging, and photovoltaic power generation.
Yijing Optoelectronics	In 2018, the company's solar cell module business accounted for 94.89% of revenue, and power generation business's revenue accounted for 94.89%
	4.02%. In 2019, the company's solar cell module business revenue accounted for 94.12%, and the power generation business revenue
	Accounted for 4.60%.
	(1) Cell and component manufacturing business;
	(2) Photovoltaic power plant business;
Oriental Risen	(3) New photovoltaic materials business;
	(4) Small solar system business and LED products, solar lamps;
	(5) Capital market business and new energy financial service business.

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Same industry can
Than the company

Business model

In 2018, the company's solar cell and module business revenue accounted for 72.81%.
Revenue from transfer business accounted for 9.82%, revenue from solar cell encapsulation film business accounted for 9.27%, and power generation Service revenue accounted for 4.86%.

In 2019, the company's solar cell and module business revenue accounted for 79.77%.
Revenue from transfer business accounted for 3.53%, revenue from solar cell encapsulation film business accounted for 8.25%, and power generation Business income accounted for 5.22%, and other business income accounted for 3.23%.

Abroad

The main business includes sales of solar modules, silicon wafers, solar cells and solar project sales.

JinkoSolar

In 2018, the company's sales of silicon wafers, cells and modules accounted for 99.63% of its revenue.

In 2019, the company has not disclosed the proportion of revenue from the sales of silicon wafers, solar cells and modules.

Mainly engaged in the design, development, manufacturing and sales of solar products based on crystalline silicon technology. Provide the sun

JA Solar

Energy product processing services and project development services.

Can (Note)

In 2018, the company's solar cell module revenue accounted for 91.97%.

In 2019, the company's solar cell module revenue accounted for 91.86%.

(1) The design, development, manufacturing and sales of solar products, including standard solar modules, special solar

Energy products and solar system kits.

(2) EPC and O&M services.

Artes

(3) Solar energy project development and sales, solar power project operation and electricity sales.

Sun energy

In 2018, the company's solar modules and other solar energy products accounted for 51.56% of revenue, and the solar power plant industry

Business revenue accounted for 41.20%. In 2019, the company's solar modules and other solar products business revenue accounted for

64.21%, the solar power plant business revenue accounted for 20.89%.

Issuer

The main business structure includes three major sectors: photovoltaic products, photovoltaic systems, and smart energy. Photovoltaic product business package

Including the R&D, production and sales of mono-polycrystalline silicon-based photovoltaic modules; photovoltaic system business includes power plant business

Trina Solar

And photovoltaic power station project construction management; smart energy business includes photovoltaic power generation, photovoltaic power station operation

Maintenance services, development and sales of smart micro-grid and multi-energy systems, and energy cloud platform operations.

In 2018, the issuer's component business revenue accounted for 59.81%, and photovoltaic power station sales accounted for 23.89%.

In 2019, the issuer's component business revenue accounted for 70.30%, and photovoltaic power station sales accounted for 4.54%.

Note: JA Solar was reviewed by the China Securities Regulatory Commission and listed on the A-share backdoor in 2019. The data for 2018 comes from the reorganization

The report, the data for 2019 comes from the annual report of A shares.

As shown in the above table, the issuer's sales revenue of photovoltaic power plants as a percentage of sales revenue in 2018 and 2019

They are 23.89% and 4.54% respectively, which are higher than those of listed companies in the same industry, and are affected by different product stru

As a result, the issuer's inventory turnover rate is lower than that of the same industry.

At the end of 2018 and 2017, the balance of photovoltaic power plants in the issuer's inventory was RMB 2,594,344,800,

At the end of 2019, the balance of photovoltaic power plants in the issuer's inventory was RMB 1,447,621,200.

Increase the comparability with listed companies in the same industry. After the issuer removes the impact of power station assets, the issuer will

Comparable listed companies' asset inventory turnover rate indicators are compared as follows:

financial indicator	2019 Nian	2018 year	2017 year
Yijing Optoelectronics	9.50	9.44	9.26
GCL Integration	5.92	8.55	8.95

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financial indicator	2019 Nian	2018 year	2017 year
Oriental Risen	7.86	6.71	7.52
Average value of domestic listed companies	7.76	8.23	8.58
JinkoSolar	4.21	4.30	5.37
Canadian Solar	6.08	10.04	8.35

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

JA Solar	6.13	4.92	5.13
Average value of overseas listed companies	5.47	6.42	6.28
Average domestic and overseas	6.62	7.33	7.43
range	4.21-9.50	4.30-10.04	5.37-9.26
Trina Solar	5.12	4.61	5.69

Note 1: JA Solar passed the review of the China Securities Regulatory Commission in 2019 and listed on the A-share backdoor. In 2017 and 2018, The relevant data is taken from "Qinhuangdao Tianye Tonglian Heavy Industry Co., Ltd. Major Asset Sale and Issuance of Shares to Purchase Assets Related Transactions Report", the 2019 data is taken from the annual report of A shares

Note 2: Inventory turnover rate = operating cost/average inventory book balance, the inventory turnover rate of overseas comparable companies uses book value Calculate, excluding the inventory turnover rate of power plant assets = (operating cost-power plant sales cost) / (inventory-photovoltaic power plant) average account Face balance

Note 3: The issuer has already issued an issue in the prospectus "Section VIII/12, /(4)/2, Analysis of Assets Turnover Capability Indicators" The inventory turnover rate (including power stations) for 2016 was corrected to 1.77, which does not affect other financial data

Affected by different product structures and business models, there are certain differences in the inventory turnover capacity of different companies. The issuer's inventory turnover rate after excluding power station assets is slightly lower than the industry average, which is in line with JinkoSolar and Sunpower is basically the same, in line with the issuer's product structure and business model.

⑥20-F and this declaration disclose the description of the power station sales business and related income, fixed assets and inventory For the comparison of accounting policy differences, see Annex XIII.

⑦20-F and this declaration disclose the difference between photovoltaic power plants included in inventory and fixed assets

At the beginning of 2016, the installed capacity of photovoltaic power plants included in "fixed assets" disclosed in this application was 20.33MW, with an amount of RMB 220,512,700; at the end of 2015, the 20-F disclosed was included in the "Property, The installed capacity of "plant and equipment" photovoltaic power plant is 1,075.30MW, and the amount is USD 807.89 million Yuan, equivalent to RMB 5,246,140,500. The difference analysis is as follows:

project	Scale (MW)	Amount (ten thousand yuan)
20-F Disclosure (a)	1,075.30	USD: 80,789.40 Discount in RMB: 524,611.45
20-F has not yet started to build a power station (b)	262.50	—
20-F Cooperative Development Power Station (c)	91.41	65,099.09
20-F Disclosure adjustment (A=abc)	721.39	459,512.36

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project	Scale (MW)	Amount (ten thousand yuan)
Disclosure in this report (B)	20.33	22,051.27
Difference (C)	701.06	437,461.09
Among them, the presentation caused by changes in accounting policies difference	701.06	432,112.93
Exchange rate conversion difference	-	5,348.16

Note:

① Differences in presentation caused by changes in accounting policies: during the listing of U.S. stocks, the issuer implemented the U.S. Accounting Standards for Business Enterprises. Pedestrians implement the Chinese Accounting Standards for Business Enterprises, and the difference between the classification of photovoltaic power plants 20-F and this declaration is as more.

②Cooperative development of power station: The issuer provides the power station project company with the components required during the Jin Way participates in the joint development of cooperative power station projects.

⑧ 20-F and this declaration disclose the reasons for the difference in power station sales business

During the period when the issuer is listed on the U.S. stocks, in accordance with US GAAP disclosure requirements and practices,

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. On the debt statement date, assess whether the power station can complete the sales within one year, and it is expected to be completed within one year. The sold power plants are listed as “Build-to-sell project assets”; at the same time, the holding intention is Power plants that take more than one year to complete the sale and power plants for holding operations are listed as long-term assets.

During the reporting period, the issuer will be based on the The figure categorizes it as “inventory” or “fixed assets”, which complies with the relevant provisions of the Chinese Accounting Standards for Business. There is no change in the presentation and accounting treatment of photovoltaic power plants in this report.

The issuer's holding purpose of the photovoltaic power station has not changed significantly. During the U.S. stock market listing for photovoltaic The difference between the classification and accounting treatment and this declaration is due to differences in accounting standards between China and The policy change has been approved by the board of directors. This change in accounting policies does not affect the issuer of each period during the re There are no circumstances affecting the issuer's basic accounting work standardization and the effectiveness of internal control in terms of net profit or

(8) Holding assets for sale

At the end of each reporting period, the book value of the assets for sale held by the company was RMB 87,141,200, RMB 0, and RMB RMB 28,037,500, accounting for 0.32%, 0% and 0.13% of current assets respectively.

At the end of 2017, the company decided to change the company's holdings of Changzhou Trina International with a book value of RMB 87,141,2 International School's investment shares and rights were transferred to Changzhou State-owned Assets Investment Management Co., Ltd. The transactio The delivery was completed in March 2015.

(9) Non-current assets due within one year

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At the end of each reporting period, the company's non-current assets due within one year were RMB 0 million and RMB 73,745,900 respectively. And RMB 70,100,200, accounting for 0%, 0.39% and 0.31% of current assets, respectively, which are relatively low. It is the long-term receivable due within one year.

(10) Other current assets

During the reporting period, the company's other current assets are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
VAT to be deducted	77,367.61	88,832.02	160,817.58
Prepaid expenses	11,232.59	6,734.67	4,343.20
Prepaid income tax	4,398.46	7,215.42	12,174.76
Bank wealth management products	-	45,000.00	62,988.96
other	597.35	354.91	663.33
total	93,596.01	148,137.02	240,987.84

At the end of each reporting period, the book value of other current assets of the company was RMB 2,409,878,400. RMB 1,481,370,200 and RMB 935,960,100. Mainly include value-added tax to be deducted, prepaid expenses, prepayment Income tax and bank wealth management products accounted for 8.86% and 7.89% and 4.19% of current assets respectively.

At the end of 2018, the value-added tax to be deducted decreased, mainly because the company sold photovoltaic power plants in 2018.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The value-added tax to be deducted is reduced accordingly.

At the end of 2019, the amount of bank wealth management products was 0, mainly because the company started from January 1, 2019. Start to implement the new financial instrument standards. In conjunction with the "Regarding the Amendment" issued by the Ministry of Finance on April 8, 2017, the requirements for the issuance of the 2019 General Corporate Financial Statement Format (Cai Kuai [2019] No. 6) Bank wealth management products listed under the subject of "Other current assets" are changed to those listed under the subject of "Trading financial assets". Listed below.

3. Analysis of main non-current assets

At the end of each reporting period, the company's non-current asset structure is as follows:

project	Unit: ten thousand yuan					
	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Available-for-sale financial assets	-	-	14,334.30	1.32%	4,334.30	0.44%
Investment in other equity instruments	11,000.00	0.78%	-	-	-	-
Capital						

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project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Other debt investments	4,334.12	0.31%	-	-	-	-
Long-term receivables	34,375.03	2.43%	40,335.77	3.73%	-	-
Long-term equity investment	47,621.64	3.37%	27,563.09	2.55%	24,467.50	2.51%
Fixed assets	1,011,835.68	71.50%	649,976.57	60.03%	714,167.36	73.22%
Construction in progress	84,254.42	5.95%	164,190.56	15.16%	67,465.68	6.92%
Intangible assets	59,545.98	4.21%	49,729.04	4.59%	40,818.84	4.18%
Goodwill	15,288.99	1.08%	15,288.99	1.41%	982.17	0.10%
Long-term prepaid expenses	9,280.33	0.66%	4,179.13	0.39%	6,384.67	0.65%
Deferred tax assets	98,733.66	6.98%	83,367.80	7.70%	87,258.62	8.95%
Other non-current assets	38,930.85	2.75%	33,729.06	3.12%	29,519.52	3.03%
total	1,415,200.70	100.00%	1,082,694.30	100.00%	975,398.67	100.00%

At the end of each reporting period, the book value of the company's non-current assets was RMB 9,753,986,700, RMB 10,826,943 and RMB 14,152,007,700. Mainly fixed assets, construction in progress and deferred income tax assets, etc. At the end of each reporting period, the total amount of the company's fixed assets, construction in progress and deferred income tax assets were RMB 8,688,916,600, RMB 8,975,349,200, and RMB 11,948,237,600, accounting for the current non-current capital. The yield ratios were 89.08%, 82.90% and 84.43%.

(1) Available-for-sale financial assets

At the end of each period of the reporting period, the company's available-for-sale financial assets were RMB 43.343 million and RMB 143.343 million Yuan and 0 million Yuan accounted for 0.44%, 1.32% and 0% of current non-current assets, respectively, which were relatively low. In 2019, its amount was reclassified into "other debt investments" and "other equity instrument investments".

During the reporting period, the company's available-for-sale financial assets are as follows:

Unit: ten thousand yuan

project	Book balance		
	2019 Nian 12 Yue 31	2018 Nian 12 Yue 31	2017 Nian 12 Yue 31
	day	day	day
Beijing Sino-US Green Investment Center (Limited Partnership)	-	10,000.00	-
Univergy 100 GK	-	4,334.30	4,334.30
total	-	14,334.30	4,334.30

(2) Investment in other equity instruments

At the end of each period of the reporting period, the company's investment in other equity instruments was RMB 0 million, RMB 0 million and R

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Ten thousand yuan, accounting for 0%, 0% and 0.78% of the current non-current assets, respectively, accounting for relatively low.

During the reporting period, the company's other equity instrument investment details are as follows:

Unit: ten thousand yuan

project	Book balance	
	2019 Nian 12 Yue 31 Ri	
Investment in unlisted equity instruments:		
Beijing Sino-US Green Investment Center (Limited Partnership)		10,000.00
Suzhou Jingzhan Semiconductor Co., Ltd.		1,000.00
total		11,000.00

(3) Other debt investments

At the end of each period of the reporting period, other equity instruments of the company were RMB 0, 000, and RMB 43,341,200 respectively.

The proportions of non-current assets in the current period were 0%, 0% and 0.31%, which accounted for relatively low proportions, mainly due to Univ Debt investment of 100 GK.

(4) Long-term receivables

During the reporting period, the company's long-term receivables are as follows:

Unit: ten thousand yuan

project	Book balance	
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri
Installment sales of goods	39,555.24	39,555.24
Of which: Unrealized financing income	6,888.78	8,414.67
Provide labor service by installment collection	9,915.15	18,463.72
Of which: Unrealized financing income	1,196.56	1,893.93
Subtotal	41,385.05	47,710.36
Less: Long-term receivables due within 1 year	7,010.02	7,374.59
total	34,375.03	40,335.77

At the end of each period of the reporting period, the company's long-term receivables were RMB 0 million, RMB 403,357,700 and 343,750,300 yuan, accounting for 0%, 3.73% and 2.43% of the current non-current assets respectively. 2019 year

The long-term receivables at the end are mainly when the company sells power station assets and provides photovoltaic poverty alleviation project service. The settlement method of optional installment payment is formed, and the issuer is based on the estimated time and amount of payment and its own financial situation. The conversion of interest rates confirms the corresponding long-term receivables.

① The specific composition of long-term receivables

At the end of each period of the reporting period, the company's long-term receivables were RMB 0 million, RMB 403,357,700 and

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343.753 million yuan.

On December 31, 2019, the company's long-term receivables are as follows:

Unit: ten thousand yuan

item	Item	2019.12.31			Discount rate (%)
		Book balance	Bad debt provision	Book value	
	Installment sales of goods	39,555.24	-	39,555.24	4.90
	Of which: Unrealized financing income	6,888.78	-	6,888.78	4.90
	Provide labor service by installment collection	9,915.15	-	9,915.15	4.90
	Of which: Unrealized financing income	1,196.56	-	1,196.56	4.90
	small meter	41,385.05	-	41,385.05	-
	Less: long-term maturity within 1 year Receivables	7,010.02	-	7,010.02	-
	Combinemeter	34,375.03	-	34,375.03	-

The specific formation process of the above-mentioned long-term receivables is as follows:

Unit: ten thousand yuan

project name	Object name	Transaction content	Long-term response Reason for collection	Long-term receivables Amount	Of which: within 1 year
					Long-term maturity Amount receivable
Installment Sales of goods	Ningbo Meishan Bonded	The company sells power stations and customers			
Formed length	Ou Yuansheng Investment Management Co., Ltd.	Subsidiary of the agreed receivables		32,666.46	-
Period receivable	Fengning Manchu Autonomy	Formed by installment			
Installment Providing service	County Dingyuan Photovoltaic Branch Technology Co., Ltd., EPC project	The company provides poverty alleviation power station projects			
Formed length	Fengning Manchu Autonomy	Receivables for purpose construction services		8,718.59	7,010.02
Period receivable	County poverty alleviation agriculture	The project has agreed with the customer for a long-term			
	Hair office	Formed by the payment plan			
total	-	-	-	41,385.05	7,010.02

②The specific contract agreement signed with the long-term receivable

A. The contract signed by Ningbo Meishan Free Trade Zone Yuansheng Investment Management Co., Ltd. specifically stipulates as follows:

Unit: ten thousand yuan

Seller	buyer	sign a contract date	Transfer subject	Contract assignment Consideration	Method of payment for transfer consideration
Jiangsu sky			Changzhou Tianru New Energy		In the transfer consideration
Harmony Energy	Ningbo Meishan Bonded		Source Development Co., Ltd.		395,552,400 yuan should be
Development limited company	Ou Yuansheng Investment Management Co., Ltd.	2018.9.9	Division and Subordinate	34,400.00	5 years after the negotiation takes effect
			Power plant project company		(From the effective date of the agreement
			Company's entire equity		Calculation) payment is completed, that is

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Due on May 9, 2023
Paid

Ningbo Meishan Free Trade Zone Yuansheng Investment Management Co., Ltd. (hereinafter referred to as "Yuansheng Investment") is managed by The Bank is indirectly controlled by the Bank, Industrial Bank is an A-share listed company, and the largest shareholder is the Fujian Provincial Department

Xingyin grew into a wholly-owned subsidiary of Huafu Securities Co., Ltd. Indirectly controlled by the State-owned Assets Supervision and Administration Commission of the People's Government of Jiang Province. Xingyin Group There is no overlap between directors, supervisors and senior management.

Therefore, Yuansheng Investment is a company indirectly controlled by Industrial Bank. There is no relationship between capital. Yuansheng Investment indirectly acquired Changzhou Tianru New Energy Development Co., Ltd. and its subsidiary All the equity of the 19 power plant project companies is not a related party transaction. The issuer has performed the above transaction Necessary legal procedures such as deliberation by the board of directors.

B. Cooperate with Fengning Manchu Autonomous County Dingyuan Photovoltaic Technology Co., Ltd. and Fengning Manchu Autonomous County The contract signed by the distribution office specifically stipulates as follows:

Unit: ten thousand yuan					
client	sign a contract date	Project name	Project content	Project completed Work date	Contract price
					Payment method agreed in the contract
					The contract price paid in the first three years
					90%, the payment method is:
					One year construction period, equipment materials
					After entering the site and normal construction
					Pay 15% of the contract price,
					After the project is completed and connected to the grid for power generation
					Pay the contract price
					15%; in the first half of the second year
					Pay 15% of the contract price,
					Pay the contract price in half a year
					15%; in the first half of the third year
					Pay 15% of the contract price,
					Pay the contract price in half a year
					15%. Payment in the first three years
					After that, the remaining 10% of funds
					As a guarantee of income risk
					Jin, run the 4th from the power station
					From the beginning of the year to the 20th year
					Equal return

③The reason why the bad debt provision is not made for the long-term receivables

At the end of each period of the reporting period, the company's long-term receivables were RMB 0 million, RMB 403,357,700 and 343,750,300 yuan, accounting for 0%, 3.73% and 2.43% of current non-current assets, accounting for

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small.

The long-term receivables on December 31, 2018 and December 31, 2019 were mainly due to the company's sales of electricity Station and provide photovoltaic poverty alleviation project services, the customer chooses to form the settlement method of installment payment, and the The estimated time and amount of collection and the conversion of its own financing interest rate in the same period confirm the corresponding long-term

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The risk is small.

For long-term receivables, issuers make provision for bad debts in accordance with the individual identification method.

A. The long-term accounts receivable customer formed by the sale of power stations is Ningbo Meishan Free Trade Zone Yuansheng Investment Management Company, the client's funds and credit status are relatively good, and the possibility that the funds cannot be recovered is small. After individual determination, the risk of bad debt losses is relatively small, so no bad debt provision is made for the customer's long-term receivables.

B. The long-term account receivable customer formed by the construction service of the power station project is Fengning Manchu Autonomous County Technology Co., Ltd., the ultimate controlling party is the Finance Bureau of Fengning Manchu Autonomous County. The client's funds and credit status are good, and the project is a government poverty alleviation project, and the possibility that the funds cannot be recovered is small. After individual identification, the risk of bad debt loss is relatively small, so no bad debt provision is made for the customer's long-term receivables.

(5) Long-term equity investment

During the reporting period, the company's long-term equity investment is as follows:

Investee	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Joint ventures			
Wushi Huaguang Power Generation Co., Ltd.	-	-	3,275.38
Projekt 27 GmbH & Co. KG	-	0.78	-
Projekt 28 GmbH & Co. KG	17.77	0.78	-
GreenRock Trina GmbH	122.09	106.01	-
EPC 17 GmbH	158.32	11.18	-
PSM 30 GmbH & Co.KG	-	-	-
PSM 50 GmbH & Co.KG	-	-	-
Promonenercol Solar SAS	56.63	-	-
Subtotal	354.82	118.76	3,275.38
Associates			
Shuntai Financial Leasing Co., Ltd.	-	-	12,859.34
Lijiang Longji Silicon Materials Co., Ltd.	37,627.46	20,486.58	3,355.71

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Investee	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Bright Solar Renewable Energy Private Limited	1,486.22	1,515.49	1,515.78
Beijing Zhizhong Energy Internet Research Institute Co., Ltd.	3,481.89	3,487.75	3,461.30
Zhangzhoujiao American Power Investment New Energy Development Co., Ltd.	161.18	130.50	-
Shenzhen Quantum Energy Internet Co., Ltd.	2,394.00	1,824.00	-
Jiangsu Tianhui Lithium Battery Co., Ltd.	2,112.09	-	-
Subtotal	47,266.83	27,444.33	21,192.12
total	47,621.64	27,563.09	24,467.50

At the end of each reporting period, the book value of the company's long-term equity investment was RMB 244.675 million and 27,563.09 million, respectively. RMB 10,000 and RMB 476,216,400 accounted for 2.51%, 2.55% and 3.37% of current non-current assets, respectively.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

During the reporting period, the company's long-term equity changes are detailed in Appendix X.

(6) Fixed assets

At the end of each reporting period, the book value of the company's fixed assets was RMB 7,141,673,600 and 6,49,976.57 respectively. RMB 10,118,358,800, accounting for 73.22%, 60.03%, and 71.50%.

At the end of each reporting period, the company's fixed assets composition is as follows:

Unit: ten thousand yuan

category	2019 Nian 12 Yue 31 Ri			
	Original value	Accumulated depreciation	Provision for impairment	Book value
houses and buildings	233,685.97	72,587.38	-	161,098.59
mechanical equipment	893,592.06	343,552.96	25,706.73	524,332.37
Office and other equipment	79,338.46	64,083.60	531.55	14,723.31
Transportation	2,064.39	1,383.06	25.56	655.77
Photovoltaic power station	329,861.41	18,835.78	-	311,025.63
total	1,538,542.29	500,442.78	26,263.84	1,011,835.68

category	2018 Nian 12 Yue 31 Ri			
	Original value	Accumulated depreciation	Provision for impairment	Book value
houses and buildings	232,811.66	62,619.77	-	170,191.89
mechanical equipment	746,646.82	371,039.73	26,989.16	348,617.94
Office and other equipment	80,517.71	66,588.68	481.59	13,447.44
Transportation	2,838.94	2,079.62	21.97	737.35

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Photovoltaic power station	127,579.26	10,597.32	-	116,981.94
total	1,190,394.39	512,925.11	27,492.72	649,976.57

category	2017 Nian 12 Yue 31 Ri			
	Original value	Accumulated depreciation	Provision for impairment	Book value
houses and buildings	214,491.65	51,619.75	-	162,871.90
mechanical equipment	987,528.53	463,093.36	45,996.34	478,438.83
Office and other equipment	85,356.37	67,218.29	470.37	17,667.71
Transportation	2,757.22	2,030.92	21.66	704.63
Photovoltaic power station	60,694.69	6,210.42	-	54,484.28
total	1,350,828.47	590,172.74	46,488.37	714,167.36

Machinery and equipment account for a relatively high proportion of the issuer's fixed assets, mainly because photovoltaics are technology-intensive. The issuer needs to continuously upgrade the production line technology to maintain the leading position in product quality and product performance. Sex. As of the end of 2018, the issuer's machinery and equipment had a certain decline compared with the previous year, mainly due to the issuer's Initiated the technological upgrading and transformation of some production lines and transferred related machinery and equipment to the construction in The technological transformation of the PERC battery production line and the technological transformation of the N-type battery production line have not. In 2019, the issuer's photovoltaic power plant assets increased, mainly due to the Shanxi Changzhi leader photovoltaic project, Shaanxi Copper The Sichuan Leading Runner Photovoltaic Project became solid in the current period.

① For the specific projects of fixed assets in each phase, see Annex 11

② Reasons for changes in the amount of fixed assets

A. Houses and buildings

At the end of each reporting period, the book balance of the issuer's buildings was RMB 2,144,916,500.

The balance at the end of 2017 was relatively stable compared with the balance at the end of 2016, at RMB 2,228,116,600 and RMB 2,336,589,700.

The balance at the end of 2018 increased by 183,200,100 yuan compared with the balance at the end of 2017, mainly due to Changzhou, Yancheng, Some warehouses, workshops, battery workshops and other production-use houses and buildings in Thailand and other places were transferred to fixed c
As of December 31, 2019, the balance increased by RMB 8,743,100 from 2018, mainly due to the Yancheng Phase IV plant and
The Changzhou Enterprise Exhibition Hall was reorganized in the current period.

B. Photovoltaic power station

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The issuer decides to sell or hold the operation in the photovoltaic power stand-up phase, and will hold the photovoltaic power plant in operation Listed as "fixed assets". During the reporting period, the issuer's holding purpose of the relevant photovoltaic power plants remained unchanged. There has been no change to the power station report in this report.

At the end of each period of the reporting period, the issuer's self-owned photovoltaic power plants accounted for in fixed assets have increased ye
The balances were 606,946,900 yuan, 1,275,792,600 yuan, and 3,298,614,100 yuan respectively. At the end of 2017,
The increase in the balance at the end of 2018 was mainly due to the front-runner photovoltaic project in Yingshang, Lianghuai, Anhui, and the front-rur
Due to the phased consolidation of the Fu project from 2017 to 2018, the increase in the balance at the end of 2019 is mainly
It is the leader photovoltaic project in Changzhi, Shanxi, the leader photovoltaic project in Tongchuan, Shaanxi and the leader photovoltaic project in Ba
This was caused by the project's consolidation in the current period.

C. Machinery and equipment

At the end of each reporting period, the book balances of the issuer's machinery and equipment were RMB 9,875,285,300 and RMB 746,646.82 re
RMB 10,000 and RMB 8,935,920,600.

The issuer's balance of machinery and equipment at the end of 2018 decreased by RMB 2,408,817,100 from the balance at the end of 2017.
Due to process upgrades and market demand, the issuer carried out the transformation of the crystal silicon section diamond line and the battery section 1
PERC and N-type upgrades and other technological transformation projects, during the technological transformation period, the relevant production line

The issuer's balance of machinery and equipment at the end of 2019 increased by RMB 1,469,452,400 from the balance at the end of 2018.
Trina Technology's new black silicon texturing production line and PERC high-efficiency battery technological transformation project, Trina Solar Tech
N-type high-efficiency battery technical renovation project, Yancheng Tianhe's new production line and MBB half-cut module technical renovation proj
Caused by the change.

③ Specific composition of fixed assets acquired by financing lease and reasons for changes

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

At the end of each reporting period, the book value of fixed assets financed by the issuer was RMB 61,764,200, RMB 79,062,000 and RMB 241,499,200 accounted for 0.86% of the book value of fixed assets in the current period.

1.22% and 2.39% are relatively low overall.

During the reporting period, the issuer mainly cooperated with Far East International Leasing Co., Ltd. and China Construction Investment Leasing (Shanghai) Co., Ltd., etc. signed fixed asset financing lease contracts, and related financing leased fixed assets

Production is mainly used in crystalline silicon and battery sections. In 2019, the issuer signed an agreement with Bank of Communications Financial Leasing Co., Ltd. to enter into a financial lease contract, and the related financial lease fixed assets are mainly machinery and equipment in the battery section. Finance The annual summary of the fixed assets and the specific composition of the equipment are as follows:

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Unit: ten thousand yuan

project	Original book value	Accumulated depreciation	Impairment ready	Book value
December 31, 2019	25,727.39	1,577.47	-	24,149.92
December 31, 2018	9,749.92	1,843.72	-	7,906.20
December 31, 2017	7,238.44	1,062.02	-	6,176.42

A. As of December 31, 2019

Unit: ten thousand yuan

Equipment name	Work section	Original value of fixed assets	Accumulated depreciation	Book value	Percentage
Diffusion etching and other equipment	battery	8,258.08	538.19	7,719.89	31.97%
Screen printing machine	battery	6,047.73	248.54	5,799.19	24.01%
Anti-reflection film equipment	battery	4,040.32	159.78	3,880.54	16.07%
Gold Steel Wire Slicing Machine	crystalline silicon	2,510.61	337.89	2,172.72	9.00%
High-pressure centrifuge	battery	592.84	31.58	561.26	2.32%
other		4,277.81	261.49	4,016.32	16.63%
total		25,727.39	1,577.47	24,149.92	100.00%

B. As of December 31, 2018

Unit: ten thousand yuan

Equipment name	Work section	Original value of fixed assets	Accumulated depreciation	Book value	Percentage
Gold Steel Wire Slicing Machine	crystalline silicon	2,511.48	76.83	2,434.65	30.79%
Texturing equipment	battery	2,505.68	465.79	2,039.89	25.80%
Tubular PECVD equipment	battery	929.23	227.80	701.43	8.87%
S3-INK equipment	battery	736.97	133.67	603.30	7.63%
Offline testing machine	battery	1,078.34	477.28	601.06	7.60%
other		1,988.22	462.35	1,525.87	19.31%
total		9,749.92	1,843.72	7,906.20	100.00%

C. As of December 31, 2017

Unit: ten thousand yuan

Equipment name	Work section	Original value of fixed assets	Accumulated depreciation	Book value	Percentage
Texturing equipment	battery	2,505.68	244.30	2,261.38	36.61%
Tubular PECVD equipment	battery	929.23	162.61	766.62	12.41%

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Offline testing machine	battery	1,078.34	350.11	728.23	11.79%
S3-INK equipment	battery	736.97	71.85	665.12	10.77%

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Equipment name	Work section	Original value of fixed assets	Accumulated depreciation	Book value	Percentage
S3/SC sub/all-in-one machine	battery	666.79	65.01	601.78	9.74%
other		1,321.43	168.14	1,153.29	18.68%
total		7,238.44	1,062.02	6,176.42	100.00%

The original value of fixed assets financed by the issuer in 2018 increased by RMB 25,114,800 compared with 2017.

Mainly because the issuer signed a lease contract with Far East International Leasing Co., Ltd. in

Rented slicing process equipment. At the end of 2019, the original value of financial leased fixed assets increased by RMB compared with 2018

159,774,700 yuan, mainly due to the issuer's new financial agreement signed with Bank of Communications Financial Leasing Co., Ltd.

Due to the capital lease contract.

④ Matching relationship with financial lease deposit

The financial lease deposit is to guarantee the execution of the lease contract by the lessor, requiring the issuer to

A guarantee paid in proportion to the price (or rent) of the lease subject matter payable.

The original book value of the fixed assets financed by the issuer at the end of each period and the corresponding margin are as follows:

project	Financing lease of fixed assets		Corresponding margin end	Percentage
	Original book value	Balance		
2019 Nian 12 Yue 31 Ri	25,727.39	909.50		3.54%
2018 Nian 12 Yue 31 Ri	9,749.92	1,386.80		14.22%
2017 Nian 12 Yue 31 Ri	7,238.44	1,151.30		15.91%

Note: The above deposit does not include the deposit corresponding to the photovoltaic power plant equipment held for sale listed in the inventory item.

At the end of each period from 2017 to 2018, the fixed asset financial lease deposit and the balance of financial lease fixed assets

The ratio is between 14%-16%; at the end of 2019, the fixed asset financial lease deposit and financial lease

The proportion of the balance of assets was 3.54%, which was a decrease from the previous year, mainly due to the increase in the current period with the

The financial leasing contract signed by a limited liability company corresponds to a low percentage of the deposit.

⑤ Reasons for renting fixed assets by means of financial leasing and related accounting treatments, combined with the "Enterprise Accounting

The first criterion 21 Hao - lease "of the relevant provisions of the disclosure of accounting treatment in accordance with

A. Reasons for renting fixed assets through financial lease

The photovoltaic industry is a capital-intensive industry, and the industry is in a stage of rapid development.

Continuous R&D, capacity expansion and power station construction require a lot of money. Financial leasing is a kind of bank

Auxiliary financing methods other than bank loans have the characteristics of simple procedures and fast approvals, providing enterprises with relevant c

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Gold support.

B. Relevant accounting treatment and basis

(A) Related accounting treatment

The issuer, as the lessee of the financial lease, will have relevant meetings on the financing of fixed assets at various points in time.

The calculation is as follows:

The fixed assets leased by the enterprise financing, at the beginning of the lease term, the amount that should be included in the fixed asset cost (The lower of the fair value of the leased asset on the lease start date and the present value of the minimum lease payment, plus the initial Direct expenses), debit the subject of "Construction in Progress" or "Fixed Assets", and credit the minimum lease payment amount "Long-term payables", according to the initial direct expenses incurred, credited to "bank deposits" and other subjects, according to the difference, Debit the subject of "unconfirmed financing expenses";

Rent paid on schedule, debit "long-term payables", credit "bank deposits" and other subjects;

Allocate the unrecognized financing expenses according to the actual interest rate method, debit the "financial expenses" and credit the "unrecognized Funds" subject;

Depreciation is accrued on time, debiting "manufacturing expenses" and other subjects, crediting "accumulated depreciation", depreciation policy i According to own fixed assets.

(B) Accounting treatment basis

According to the "Accounting Standards for Business Enterprises No. 21-Lease", it meets one or more of the following Standard, it should be recognized as a financial lease:

(1) At the expiration of the lease term, the ownership of the leased asset is transferred to the lessee.

(2) The lessee has the option to purchase the leased assets, and the contracted purchase price is expected to be much lower than the line So that the fair value of the leased asset at the time of the option, it can be reasonably determined that the lessee will Exercise this option.

(3) Even if the ownership of the asset is not transferred, the lease term accounts for most of the useful life of the leased asset.

(4) The present value of the lessee's minimum lease payment on the lease start date is almost equivalent to the lease start date The fair value of the leased assets; the present value of the minimum lease The fair value of the leased asset on the lease start date.

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(5) The leased assets are of special nature, and unless major renovations are made, only the lessee can use them.

According to the relevant contract terms signed by the issuer and the lessor, the lessor will Has the right to transfer to the issuer and meets the above-mentioned criteria for recognition as a financial lease. Therefore, the issuer will It is confirmed that the financial lease meets the requirements of accounting standards.

(7) Construction in progress

At the end of each period of the reporting period, the book value of the company's construction in progress was RMB 674,656,800 and RMB 1,64, RMB 10,000 and RMB 842,544,200, accounting for 6.92%, 15.16% and 5.95% of current non-current assets, respectively.

Its composition is as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Trina Technology builds new black silicon texturing production line and technical transformation of PERC high-efficiency battery engineering	-	35,450.28	3,404.12
Trina Solar's technology leader N-type high-efficiency battery technological transformation project	-	53,469.17	-
TRW Thailand PERC high-efficiency battery technological transformation project	1,430.39	4,676.35	651.63
Trina Solar PERC high-efficiency battery and half-cell module technical renovation project	10,856.67	42,943.22	8,065.15
Turpan Tianhe Sporadic Renovation Project	-	-	105.00
Yancheng Tianhe's new production line and MBB half-cutting module technical renovation project	9,879.95	17,323.39	13,401.71
Trina Yabang cutting half-component technical renovation project	-	204.42	1,927.82
Trina Vietnam's new production line and PERC high-efficiency battery technological transformation project	-	201.09	4.12
Hubei Tianhe Sporadic Renovation Project	-	205.02	329.94
Leading Runner Photovoltaic Power Station Project	35,428.21	9,476.40	39,446.34
Trina Suqian builds new production line	20,380.18	-	-
Hefei Trina MBB half-cutting module technical renovation project	-	-	-
Tianhe Suqian New Battery Project	1,038.26	-	-
Trina Yiwu New Component Project	3,371.27	-	-
other	1,889.87	241.22	129.85
total	84,254.42	164,190.56	67,465.68

① Specific changes in construction in progress

For the specific changes of the issuer's construction in progress in each period of the reporting period, see Annex XII.

② The time point and relevant basis for the transfer of construction in progress

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According to the "Accounting Standards for Business Enterprises No. 4-Fixed Assets", the cost of self-built fixed assets The capital consists of the necessary expenditures incurred before the construction of the asset reaches its intended useable state. Self-operated Construction of fixed assets, the project costs incurred should be accounted for through the "construction in progress" subject, and the project completed When it reaches the scheduled usable state, transfer from the "Construction in Progress" account to the "Fixed Assets" account.

In each period of the reporting period, the issuer followed the principle of accounting prudence, and for all the projects under construction The part that can be used is processed in time for completion acceptance, fixed in installments, and depreciation will be accrued in the following month. The relevant timing of the conversion and the amount of conversion are in compliance with the Accounting Standards for Business Enterprises.

During the reporting period, the issuer's construction in progress is mainly divided into two parts: photovoltaic module business and power station The component business is mainly the under construction plant and production line, etc. The power station business is mainly the under construction lea

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

A. The photovoltaic module business under construction during the reporting period mainly includes the new black silicon texturing production line, PERC high-efficiency battery technological transformation project, Yancheng Trina's new production line and MBB half-module technological transformation project, N-type high-efficiency battery technological transformation project, a leader in solar energy technology. The issuer's various plant production lines are completed. After the commissioning is successful, the project department will cooperate with the finance department to timely review the project completion final acceptance Report, and organize project completion acceptance, handle "unit project completion acceptance record", and the project completion acceptance is qualified. Later, the finance department determined that the project has reached the expected usable state according to the project's final accounts and the delivery transfer to fixed assets.

B. During the reporting period, the projects under construction in the power station business mainly include the Anhui Lianghuai Yingshang Leader Xiyangquan leader photovoltaic project, Shanxi Changzhi leader photovoltaic project, Shaanxi Tongchuan leader photovoltaic project, etc. Power station project. After the issuer's power station projects are completed, they will be put into operation according to the "grid-connected base number regulations" and other regulations and relevant requirements of the management system, hold a photovoltaic power plant grid connection acceptance meeting. After the decision of the acceptance committee meeting, a grid connection agreement was signed with the State Grid Power Company to confirm the project. Must reach the predetermined usable state and transfer to fixed assets.

(8) Intangible assets

At the end of each reporting period, the composition of the book value of various intangible assets of the company is as follows:

project	Unit: ten thousand yuan					
	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
software	7,122.26	11.96%	6,068.69	12.20%	6,021.44	14.75%
Land use rights	44,668.30	75.01%	35,810.55	72.01%	34,677.60	84.95%

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project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
patent	364.25	0.61%	473.83	0.95%	105.36	0.26%
Trademark rights	4,486.75	7.53%	5,020.49	10.10%	14.43	0.04%
Order	664.41	1.12%	2,258.98	4.54%	-	-
other	2,240.01	3.76%	96.50	0.19%	-	-
total	59,545.98	100.00%	49,729.04	100.00%	40,818.84	100.00%

At the end of the reporting period, the book value of the company's intangible assets was RMB 408,188,400 and RMB 49,729,400 respectively. Yuan and 595.4598 million yuan, accounting for 4.18%, 4.59% and 4.21% of the current non-current assets respectively. public The company's intangible assets mainly include software, land use rights, patent rights, trademark rights, orders and others.

During the reporting period, the amortization of the company's intangible assets is as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri		
	Original book value	Accumulated amortization	Book value
software	16,712.67	9,590.41	7,122.26
Land use rights	51,057.56	6,389.26	44,668.30
patent	1,458.86	1,094.62	364.25

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Trademark rights	5,351.40	864.64	4,486.75
Order	3,189.14	2,524.74	664.41
other	2,720.49	480.48	2,240.01
total	80,490.13	20,944.15	59,545.98

2018 Nian 12 Yue 31 Ri

project	Original book value	Accumulated amortization	Book value
software	13,791.57	7,722.88	6,068.69
Land use rights	41,340.73	5,530.18	35,810.55
patent	1,457.43	983.59	473.83
Trademark rights	5,351.40	330.91	5,020.49
Order	3,189.14	930.17	2,258.98
other	231.59	135.10	96.50
total	65,361.87	15,632.83	49,729.04

2017 Nian 12 Yue 31 Ri

project	Original book value	Accumulated amortization	Book value
software	12,274.83	6,253.39	6,021.44

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Land use rights	39,432.02	4,754.42	34,677.60
patent	985.01	879.65	105.36
Trademark rights	33.12	18.68	14.43
total	52,724.99	11,906.15	40,818.84

(9) Goodwill

At the end of each reporting period, the book value of the company's goodwill was RMB 9,821,700, RMB 152,889,900 and 152,889,900 yuan, accounting for 0.10%, 1.41% and 1.08% of current non-current assets, accounting for Lower.

At the end of 2018, the company's goodwill increased significantly, mainly due to the company's acquisition of Nclave in 2018 51% equity, and correspondingly confirmed 143 million yuan of goodwill.

According to Article 23 of "Accounting Standards for Business Enterprises No. 8-Asset Impairment"

Goodwill should be tested for impairment at least at the end of each year. Goodwill should be combined with related assets

Group or asset group combination is tested for impairment. "The company sets up key parameters when conducting impairment tests to calculate

Calculate the present value of the pre-tax cash flow and compare it with the book value of the asset group including the overall goodwill to confirm the t Whether the reputation is impaired, the specific process is as follows:

①Key parameters

key parameter	Confirmation method
Forecast period	5 years (that is, from 2020 to 2024), followed by a stable period
Forecast period growth rate	According to the company's historical year's operating conditions and future plans, it is estimated that from 2020 to 2024 During the year, the sales revenue increased by 1.90%-8.45%, and the perpetual period increased by 1.90%.
Stable growth rate	1.90%
Discount rate (before tax)*	14.91%

Profit margin Calculate based on forecasted income, costs, expenses, etc.
Note: This goodwill impairment test uses a discounted future cash flow model to determine the recoverable amount of the asset group.
For pre-tax cash flow, the corresponding discount rate should be the pre-tax discount rate. After-tax discount rate calculated using the capital asset pricing model
It is 11.46%, and the pre-tax discount rate is 14.91% calculated by iterative interpolation method.

②Recognition method of goodwill impairment loss

The cash flow caliber used in this estimated future cash flow is pre-tax cash flow. Asset group cash before tax

The flow calculation formula is as follows:

Asset group cash flow before tax = profit before interest and tax + depreciation and amortization-capital expenditure-increase in working capital amount

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The length of earnings depends on the number of years of pre-tax cash flow of the valuation object. The valuation object belongs to photovoltaic tr
The stent design and manufacturing industry will not terminate operations within a foreseeable time frame without special reasons. Therefore,
This valuation adopts the going concern assumption, that is, it is assumed that the valuation object will continue to operate indefinitely. Therefore, the in
Limited to an indefinite period. Among them, the first stage is from January 1, 2020 to December 31, 2024.
The period is 5 years. In this stage, based on historical performance and future market analysis, the income status gradually stabilizes
Fixed; the second stage is from January 1, 2025 to sustainable operation, during this stage, maintain stable growth in revenue
Benefit level consideration.

Based on the above analysis of various factors, the pre-tax cash flow forecast of the asset group is as follows:

Unit: Thousand Euros					
project	2020 Nian	2021 Nian	2022 Nian	2023 Nian	2024 and beyond
I. Operating income	117,910.18	124,984.79	129,984.18	132,583.86	135,102.95
Less: operating costs	94,160.15	99,809.76	103,802.15	105,878.19	107,889.88
Operating expenses	16,298.33	17,270.85	17,940.44	18,299.25	18,646.94
Including: depreciation and amortization	506.19	531.19	531.19	531.19	531.19
2. Profit before interest and tax	7,451.70	7,904.17	8,241.59	8,406.42	8,566.14
Less: changes in working capital	685.04	527.42	372.71	193.81	187.80
Less: capital expenditure	743.65	125.00	300.00	531.19	531.19
Plus: depreciation and amortization	506.19	531.19	531.19	531.19	531.19
Asset group cash flow	6,529.20	7,782.94	8,100.06	8,212.61	8,378.34
Discount factor	1.07	1.23	1.42	1.63	1.87
Discounted value	6,090.99	6,318.69	5,723.05	5,049.81	4,483.40
Present value					35,125.46
Total present value of cash flow of asset group					62,791.40

Note 1: The forecast for 2024 and beyond considers future asset maintenance and renovation expenditures. Depreciation and amortization are equal to capital expenditures.
Note 2: The formula for calculating the present value of the final value = the discounted present value in and after 2024* (1+long-term growth rate) / (pre-tax discount rate-long-term growt
The long-term growth rate is based on the average forecast level of the perpetual period after 2024 and the company's future business development trends.
The characteristics of the industry and the long-term development trend of the macro economy are calculated at 1.90%.

③Results of goodwill impairment test at the end of 2018

At the end of 2019, the issuer calculated the recoverable amount of Nclave-related goodwill and allocated the goodwill to assets

Group and conduct impairment test on asset group related to goodwill, the situation is as follows:

Unit: Thousand Euros

project

specific situation

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Composition of asset group	The fixed assets, intangible assets, Assets such as construction in progress and stock working capital on the valuation base date as assets An asset group.
Book value of asset group	14,318.15
Book value of goodwill allocated to this asset group	35,748.07
Book value of asset group with overall goodwill	50,066.22
Recoverable amount of asset group	62,791.40
Asset impairment loss that should be recognized	-

In summary, goodwill is allocated to the book value of assets and the book value of the allocated asset group and its recoverable amount. The amount is compared to confirm that there is no impairment of the issuer's goodwill, and the goodwill impairment test conforms to the "Accounting Provisions".

Considering Nclave's actual revenue of 126,165,300 euros and net profit of 6,245,300 in 2019, the euro is higher than the profit forecast, and there is no risk of impairment of Nclave's goodwill.

(10) Long-term deferred expenses

At the end of each reporting period, the main components of the company's long-term deferred expenses are as follows:

project	Unit: ten thousand yuan					
	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Operating lease fixed assets improvement expenditure	4,780.84	51.52%	2,479.13	59.32%	3,052.58	47.81%
Long-term lease	3,717.10	40.05%	1,406.25	33.65%	3,332.10	52.19%
Member of Boao Forum for Asia fee	275.00	2.96%	293.75	7.03%	-	-
Financing service fee	507.38	5.47%				
total	9,280.33	100.00%	4,179.13	100.00%	6,384.67	100.00%

The company's long-term deferred expenses mainly include operating lease asset improvement expenses, long-term lease payments (photovoltaic land lease payments). At the end of 2017, 2018 and 2019, the book value of the company's long-term deferred expenses were RMB 63,846,700, RMB 41,793,300 and RMB 92,803,300 respectively, accounting for the proportion of non-current assets in the current period. They are 0.65%, 0.39% and 0.66% respectively, which are relatively small.

(11) Deferred income tax assets, deferred income tax liabilities

① Deferred income tax assets

During the reporting period, the company's deferred income tax assets were mainly composed of asset impairment provisions, unrealized profits from deductible temporary differences arising from deductible losses, estimated liabilities, etc. arise. At the end of each reporting period, the company

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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

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The composition of deferred income tax assets that have not been offset are as follows:

Unit: ten thousand yuan

project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Deductible temporary Sexual difference	Deferred income Tax assets	Deductible temporary Sexual difference	Deferred income Tax assets	Deductible temporary Sexual difference	Deferred income Tax assets
Asset impairment standards Prepare	105,817.44	20,651.12	84,742.98	14,916.60	111,600.87	17,115.62
Internal transactions Realize profit	122,695.30	23,183.80	58,085.56	11,556.48	158,721.43	32,814.13
Deductible loss	154,161.62	28,952.95	147,546.62	29,687.41	58,779.58	9,452.43
Estimated liabilities	86,298.35	13,111.94	83,259.33	12,475.46	94,266.73	14,134.05
Deferred income	27,659.31	5,075.05	13,205.86	1,972.77	14,505.57	2,133.79
Withholding before tax Deductions cost	19,102.97	3,293.89	12,984.93	2,100.91	24,756.29	4,221.90
Construction contract Completed	19,666.39	7,575.49	22,924.47	9,169.79	18,086.23	7,234.49
Unsettled assets						
Derivative Finance Worker Fair value change	4.17	0.63	161.57	24.24	245.48	36.82
Withholding before tax Deductible employee Salary	2,163.74	142.70	1,886.87	324.77	574.14	199.87
Unrealized financing income	8,085.34	2,021.33	10,308.59	2,577.15	-	-
total	545,654.65	104,008.91	435,106.80	84,805.58	481,536.32	87,343.11

During the reporting period, the issuer's deferred income tax asset scale was relatively stable.

In 2018, as the issuer sold photovoltaic power plants, the unrealized profits of internal transactions decreased accordingly.

Deferred income tax assets decreased simultaneously.

In 2018, the issuer's deferred income tax assets recognized for deductible losses increased mainly due to

The branch company formed deductible losses at the end of 2018. At the end of 2019, deferred income tax assets increased,

Mainly due to the increase in unrealized profits from internal transactions.

②Deferred income tax liabilities

At the end of each reporting period, the company's unoffset deferred income tax liabilities constitute the following:

Unit: ten thousand yuan

project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Taxable temporarily Sexual difference	Deferred income Tax liability	Taxable provisionally Time difference	Deferred income tax Liabilities	Taxable provisionally Time difference	Deferral Tax Liabilities

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project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Taxable temporarily Sexual difference	Deferred income Tax liability	Taxable provisionally Time difference	Deferred income tax Liabilities	Taxable provisionally Time difference	Deferral Tax Liabilities

Non-identical control

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Business combination value added	7,991.78	1,843.46	11,013.04	2,578.87	3,994.73	708.71
Transactional finance						
Fair value of assets	1,448.02	217.20	386.34	57.95	563.25	84.49
Value change						
Fixed asset tax						
Accelerated depreciation	33,720.35	5,058.05	9,198.89	1,379.83	-	-
total	43,260.15	7,118.72	20,598.27	4,016.66	4,557.98	793.20

③ Deferred income tax assets or liabilities listed as net amount after offset

project	End of 2019	End of 2018	Unit: ten thousand yuan
	Balance after offset	Balance after offset	After offsetting at the end of 2017 amount
Deferred tax assets	98,733.66	83,367.80	87,258.62
Deferred income tax liabilities	1,843.46	2,578.87	708.71

(12) Other non-current assets

The company's other non-current assets are mainly the input tax of power plant assets to be deducted and long-term prepayments

The specific amounts of deferred income formed by the project, prepaid project payment and sale and leaseback are as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
VAT to be deducted-long	6,079.65	12,217.85	4,177.74
Long-term raw material procurement Prepayments	-	-	8,902.83
Financial lease deposit	8,450.98	2,274.15	4,906.42
Prepaid power station investment	-	55.59	55.59
Advance payment for construction	15,662.76	19,178.29	11,472.65
Sale and leaseback Deferred income	8,711.49	-	-
other	25.97	3.18	4.28
total	38,930.85	33,729.06	29,519.52

At the end of 2018 and 2019, the amount of other non-current assets remained relatively stable.

The classification of long-term raw material purchase prepayments in other non-current assets accounts by customers is as follows:

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supplier	Nature of Payment	Unit: ten thousand yuan		
		2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
GCL-Poly (Suzhou) New Energy Co., Ltd.	purchases silicon wafer models	-	-	5,000.00
OCI Company Ltd	Purchase silicon material payment	-	-	3,902.83
total		-	-	8,902.83

At the end of each reporting period, the issuer's long-term raw material purchase prepayments were RMB 89,028,300 and 0 Yuan and 0 Yuan, which is the prepaid silicon wafer purchase payment and payment to GCL-Poly (Suzhou) New Energy Co., Ltd. Prepaid silicon material purchase payment paid by OCI Company Ltd. The issuer and GCL-Poly (Suzhou) New Energy have Limited company, OCI Company Ltd signed a long-term supply agreement, paid the advance payment, and ordered the The prepayment is deducted only, and as of the end of 2018, the prepayment has been deducted.

(2) Analysis of liability composition

At the end of each reporting period, the company's liability structure is as follows:

Unit: ten thousand yuan						
project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
short-term loan	604,077.49	25.39%	714,662.61	40.68%	518,409.84	20.28%
At fair value						
Amount and its variation	-	-	161.57	0.01%	245.48	0.01%
Into the current profit and loss						
Financial liabilities						
Transactional financial negative debt	4.17	0.00%	-	-	-	-
Bills payable	469,378.57	19.73%	202,806.85	11.55%	355,867.52	13.92%
accounts payable	448,321.41	18.84%	361,879.92	20.60%	557,053.40	21.79%
Advance receipt	182,566.02	7.67%	45,628.90	2.60%	60,281.67	2.36%
Payable employees Salary	31,926.92	1.34%	19,854.72	1.13%	27,519.45	1.08%
Taxes payable	42,971.04	1.81%	17,333.29	0.99%	23,249.54	0.91%
Other applications payment	89,953.50	3.78%	75,729.05	4.31%	72,883.60	2.85%
Due within one year	81,533.16	3.43%	35,150.91	2.00%	413,892.88	16.19%
Non-current liabilities						
Total current liabilities	1,950,732.29	81.99%	1,473,207.82	83.87%	2,029,403.38	79.39%
Long term loan	260,420.19	10.95%	143,261.90	8.16%	326,110.10	12.76%
Long-term payment	44,100.03	1.85%	24,153.95	1.38%	76,713.62	3.00%
Long-term payable employees Salary	951.34	0.04%	2,226.97	0.13%	3,588.49	0.14%
Estimated liabilities	93,423.75	3.93%	94,046.59	5.35%	101,496.97	3.97%

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project	2019 Nian 12 Yue 31 Ri		2018 Nian 12 Yue 31 Ri		2017 Nian 12 Yue 31 Ri	
	Amount	Percentage	Amount	Percentage	Amount	Percentage
Deferred income tax burden debt	1,843.46	0.08%	2,578.87	0.15%	708.71	0.03%
Deferred income	27,810.11	1.17%	17,065.66	0.97%	18,232.64	0.71%
Non-current liabilities meter	428,548.88	18.01%	283,333.94	16.13%	526,850.53	20.61%
Total Liabilities	2,379,281.17	100.00%	1,756,541.76	100.00%	2,556,253.90	100.00%

At the end of each reporting period, the company's liabilities amounted to RMB 25,562,539 million and RMB 1,756,541,600 respectively.

And RMB 23,792,811,700, current liabilities were RMB 20,294,033,800, RMB 14,732,078,200 and

19,507,322,900 yuan, accounting for 79.39%, 83.87% and 81.99% of the total liabilities for the current period. Current liabilities

It accounts for a higher proportion of debt.

1. Analysis of current liabilities composition

(1) Short-term loans

The company's short-term loans are mainly credit loans, guaranteed loans, pledge and mortgage loans, as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Credit loan	3,872.86	7,722.34	1,960.26
loan for sure	196,522.25	190,128.45	130,021.10
Pledge and mortgage loans	397,802.38	516,632.82	386,428.49
Discounted bills	5,880.00	179.00	-
total	604,077.49	714,662.61	518,409.84

At the end of each period of the reporting period, the company's short-term loans amounted to RMB 5,184,098,400 and RMB 7,146,226,100 respectively. And RMB 6,040,774,900, accounting for 20.28%, 40.68% and 25.39% of the total liabilities for the current period, respectively.

During the reporting period, the short-term loans between the issuer and Industrial Bank are as follows:

Unit: ten thousand yuan							
period	Opening Balance	Increase in this period	Decrease in current period	Ending balance	Loan Amount of silver in the current period	Borrowing rate	
					Total loan amount proportion	expenditure	
2019 year	115,100.00	161,943.68	165,043.68	112,000.00	12.03%	5,904.16	5.22%
2018 year	20,000.00	115,100.00	20,000.00	115,100.00	12.98%	4,397.85	4.35%-5.22%
2017	18,000.00	20,000.00	18,000.00	20,000.00	1.73%	808.00	4.35%-4.50%

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During the reporting period, the company's short-term loans with Industrial Bank were used for daily production and operation turnover. Calculate interest and pay interest and repay the principal at the agreed interest rate agreed in the loan contract signed with the Industrial Bank. The negotiated interest rate is based on the benchmark interest rate of bank loans in the same period or a certain percentage increase, and the price is reasonable. There are cases of overdue payment.

(2) Financial liabilities measured at fair value and whose changes are included in the current profit and loss

During the reporting period, the classifications of financial liabilities measured at fair value and whose changes are included in the current profit and loss

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Transactional financial liabilities	-	161.57	245.48
Of which: foreign exchange forward contracts	-	161.57	245.48
total	-	161.57	245.48

During the reporting period, the company's financial liabilities measured at fair value and whose changes were included in the current profit and loss. For exchange forward contracts, at the end of 2017, 2018 and 2019, they are measured at fair value and their changes

The book amounts of financial liabilities that entered the current profit and loss were RMB 2,454,800, RMB 1,615,700, and RMB 0, respectively.

The current total debt ratio is 0.01%, 0.01%, and 0%, which are relatively small. As of the end of 2019, the company has

The balance of financial liabilities measured at fair value and whose changes are included in the current profit and loss is RMB 0, which is due to the company's financial liabilities. From January 1, 2009, the implementation of the new financial instrument standards began. In conjunction with the Ministry of Finance issued on April 8, 2017, "Notice on Revising and Issuing the Format of General Corporate Financial Statements for 2019 (Cai Kuai [2019] No. 6)"

The requirements of "Financial liabilities measured at fair value and whose changes are included in the current profit and loss" subject

The financial liabilities shown are changed to those listed under the subject of "transactional financial liabilities".

(3) Transactional financial liabilities

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Transactional financial liabilities	4.17	-	-

At the end of each reporting period, the company's transactional financial liabilities were 0 yuan, 0 yuan and 41,700 yuan, respectively.

Out of the forward period reclassified from the subject "Financial liabilities measured at fair value and whose changes are included in the current profit and loss".
Exchange contract.

(4) Notes payable and accounts payable

The classification of bills and accounts payable during the reporting period is as follows:

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project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Bills payable	469,378.57	202,806.85	355,867.52
accounts payable	448,321.41	361,879.92	557,053.40
total	917,699.98	564,686.77	912,920.91

① Notes payable

At the end of each reporting period, the company's bills payable were RMB 3,558,675,200 and 2,208,068,500 respectively.

Yuan and 4,693,785,700 yuan, accounting for 13.92%, 11.55% and 19.73% of the total liabilities of the current period, respectively.

Its composition is as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Bank acceptance draft	197,429.82	31,888.28	87,345.65
trade acceptance draft	271,948.75	170,918.57	268,521.86
total	469,378.57	202,806.85	355,867.52

The balance of bills payable at the end of the company's period is related to the timing of the current purchase and payment, and the company chooses to settle with the supplier according to the contract. At the end of 2019, the amount of the company's bank acceptance bill compared to 2018 was large, mainly in 2019. Based on the good reputation established with its suppliers, the company's collection period granted by the use of bills further increases the efficiency of fund use and increases the use of bills in procurement activities. According to the frequency of settlement.

② Accounts payable

At the end of each reporting period, the accounts payable constituted as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Payable	291,808.84	257,363.56	426,289.83
Payable for equipment and engineering	156,512.57	104,516.36	130,763.56
total	448,321.41	361,879.92	557,053.40

The company's accounts payable mainly include material purchases payable, equipment and engineering payables, etc. Period of the reporting period. At the end, the company's accounts payable were 5,570,534,200 yuan, 3,618,799,200 yuan, and 4,483,214,100 yuan.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The proportions of total liabilities for the current period were 21.79%, 20.60% and 18.84%. In 2018, the company's accounts payable

The decrease in the balance of payments was mainly due to the decrease in the company's purchase of raw materials in 2018. At the end of 2019, the cor

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Compared with the end of 2018, the balance of funds increased significantly, mainly due to (1) In 2019, the company's EPC engineering business increa

In addition, as the contracting party, the construction payment payable to the EPC project contractor increased; (2) In the second half of 2019, the compa

The sales of the company's photovoltaic module products are good, and the company has increased its

Procurement of raw materials.

During the reporting period, the top five accounts payable of the company are as follows:

A. The top five accounts payable amount on December 31, 2019

Unit: ten thousand yuan				
Serial number	company name	Nature of Payment	Ending balance	Percentage
1	Longi Green Energy Technology Co., Ltd.	Material	20,505.09	4.57%
2	Sungrow Power Supply Co., Ltd.	Material, equipment and engineering	19,549.85	4.36%
3	Tianjin Zhonghuan Semiconductor Co., Ltd.	Material	13,740.98	3.06%
4	Shenzhen Jiejiawei Innovative Energy Equipment Co., Ltd. Division	Material, equipment and engineering	11,196.24	2.50%
5	Hangzhou Foster Technology Group Co., Ltd.	Material	10,557.82	2.35%
	total	-	75,549.98	16.84%

B. The top five accounts payable at the end of 2018

Unit: ten thousand yuan				
Serial number	company name	Nature of Payment	Ending balance	Percentage
1	Uni-Prosper International Co., Limited	Equipment and engineering	13,530.26	3.74%
2	Sungrow Power Supply Co., Ltd.	Material, equipment and engineering	12,596.20	3.48%
3	GCL Photovoltaic Power Technology Holdings Limited	Material	11,848.98	3.27%
4	Guangdong Aixu Technology Co., Ltd.	Material	10,848.26	3.00%
5	Shanghai Shihao Business Development Co., Ltd.	Material	6,693.41	1.85%
	total	-	55,517.11	15.34%

C. The top five accounts payable at the end of 2017

Unit: ten thousand yuan				
Serial number	company name	Nature of Payment	Ending balance	Percentage
1	GCL Photovoltaic Power Technology Holdings Limited	Material	29,345.42	5.27%
2	Dongxu Optoelectronics Technology Co., Ltd.	Equipment and engineering	20,109.01	3.61%
3	OCI Company Ltd.	Material	20,061.63	3.60%
4	Uni-Prosper International Co., Limited	Equipment and engineering	17,700.29	3.18%
5	Tianjin Zhonghuan Semiconductor Co., Ltd.	Material	15,383.37	2.76%
	total		102,599.72	18.42%

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During the reporting period, the company's bank acceptance bills issued by the Industrial Bank and deposit deposits at the end of each period are a under:

Issuing year	Acceptance amount	Unit: ten thousand yuan	
		The amount of current acceptance accounted for Ratio to total	Acceptance margin
2019 year	95,307.83	22.20%	92,307.83
2018 year	33,100.00	31.72%	33,100.00
2017	56,757.97	26.31%	37,997.20

During the reporting period, the company used bank acceptance bills to pay for goods from some suppliers.

According to the bank acceptance bond contract signed by the bank, a corresponding percentage of the bond shall be deposited.

(5) Advance receipts

At the end of each reporting period, the company's advance accounts are as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Advance payment	165,666.14	37,843.61	54,316.76
Advance payment	16,899.89	7,785.28	5,964.92
total	182,566.02	45,628.90	60,281.67

The advance payment is mainly the payment received in advance from the customer according to the contract. At the end of each reporting period, The balance of receipts was 602,816,700 yuan, 456,289,900 yuan, and 1,825,600,200 yuan respectively, accounting for the current negative The proportion of total debt is 2.36%, 2.60% and 7.67% respectively. The advance receipts are mainly products sold by the company The amount of advance payment received from the customer and advance payment for the power station project in the process of The situation, cycle, and sales situation will change. Among them, the increase in advance payment at the end of 2019 compared to the end of 2018 Large, mainly due to increased market demand for photovoltaic modules in the second half of 2019, Due to the advance receipts.

(6) Payable employee compensation

At the end of each period of the reporting period, the company's payroll details are as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Short-term salary	31,199.55	19,047.25	26,833.99
Post-employment benefits-set deposit plan	727.37	696.31	685.46

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project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Dismissal benefits	-	111.16	-
total	31,926.92	19,854.72	27,519.45

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

At the end of each period of the reporting period, the company's payable employee salaries were RMB 275,194,500, RMB 198,547,200 and 319,269,200 yuan, accounting for 1.08%, 1.13% and 1.34% of total liabilities in the same period.

(7) Taxes payable

At the end of each reporting period, the details of taxes and fees payable are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
VAT	6,340.23	8,001.15	5,516.86
corporate income tax	32,771.34	5,903.77	10,603.91
Personal Income Tax	521.79	531.07	4,463.56
Urban maintenance and construction tax	884.94	729.72	418.94
Education surcharge	641.84	531.09	297.79
property tax	459.55	493.33	449.27
land holding tax	152.04	161.02	154.04
Stamp duty	270.84	139.94	828.71
other	928.46	842.19	516.46
total	42,971.04	17,333.29	23,249.54

At the end of each period of the reporting period, the company's taxes and fees payable were RMB 232,495,400, RMB 173,332,900 and 429,710.4 million yuan, accounting for 0.91%, 0.99% and 1.81% of the total liabilities for the current period. In 2017, the high personal income tax payable by the company is mainly due to the one-time cash settlement during the 2017 privatization period. This is caused by the restricted stocks and options that have been solidified by employees. At the end of 2017 and 2018, the company should pay The business income tax decreased with the decrease in income tax expense of the current period. At the end of 2019, the amount of taxes payable comp The increase at the end of the year was mainly due to the increase in the provision of corporate income tax.

(8) Other payables

At the end of each reporting period, the details of other payables are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Interest payable	4,272.28	2,482.09	2,185.53
Other payables	85,681.23	73,246.96	70,698.07

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project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
total	89,953.50	75,729.05	72,883.60

①Interest payable

At the end of each period of the reporting period, the company's interest payable was RMB 21,855,300, RMB 24,820,900, and RMB 42,272.28 res Ten thousand yuan, accounting for 0.09%, 0.14% and 0.18% of the total liabilities of the current period.

②Other payables

The company's other payables mainly include double anti-guarantee, freight, etc. At the end of each reporting period, the company's other Payments were 706,980,700 yuan, 732,469,600 yuan, and 856,712,300 yuan, accounting for the total liabilities for the current period

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The proportions are 2.77%, 4.17% and 3.60% respectively. The details are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Loan payable and interest	98.42	900.00	900.00
Dealing with related parties	943.52	882.21	1,401.65
Payable utilities and office expenses	3,984.26	3,028.45	4,339.72
Payable insurance premium	1,374.56	784.00	1,336.52
Deposit payable	7,527.14	6,240.07	6,358.02
Travel reimbursement payable	1,304.12	1,084.63	1,630.63
Promotion fee payable	1,670.72	2,533.25	6,400.77
Double anti-margin payable	21,888.32	21,533.78	2,478.50
Pay 201 tariffs	1,710.75	-	-
Freight payable	25,517.71	17,328.44	27,352.60
Pay professional service fees	5,827.84	6,481.89	6,542.56
Lease payable	1,741.83	1,640.89	1,672.23
Payable equity investment	-	1,231.94	942.60
Deal with other	12,092.03	9,577.41	9,342.26
total	85,681.23	73,246.96	70,698.07

At the end of each reporting period, other payables of the company remained relatively stable.

During the reporting period, the top five other payables of the company are as follows:

A. Top five other accounts payable on December 31, 2019

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Unit: ten thousand yuan				
Serial number	company name	Nature of payment	Ending balance	Percentage
1	US Customs and Border Protection)	Double anti-guarantee, 201 tariff	23,599.08	26.23%
2	Jiangsu Xinxinyun International Freight Forwarding Co., Ltd. Division	Shipping	3,333.72	3.71%
3	Jiangsu HNA International Logistics Co., Ltd.	Shipping	3,240.34	3.60%
4	Jiangsu Wanfang International Freight Forwarding Co., Ltd.	Shipping	2,164.19	2.41%
5	State Grid Corporation of China	Office expenses	1,964.15	2.18%
	total		34,301.48	38.13%

B. Top five other payables at the end of 2018

Unit: ten thousand yuan				
Serial number	company name	Nature of payment	Ending balance	Percentage
1	US Customs and Border Protection	Double reverse margin	21,533.78	28.44%
2	Jiangsu Xinxinyun International Freight Forwarding Co., Ltd.	Shipping	1,346.36	1.78%
3	Huapu Tianjian Certified Public Accountants (Special General Partnership)	Professional service fee	1,300.00	1.72%
4	Bliss GVS International Pte Ltd.	Promotion fee	1,284.78	1.70%
5	UGL Engineering Pty Ltd	other	1,256.83	1.66%
	total		26,721.75	35.29%

C. Top five other payables at the end of 2017

Unit: ten thousand yuan				
Serial number	company name	Nature of payment	Ending balance	Percentage
1	Jiangsu Xinxinyun International Freight Forwarding Co., Ltd.	Shipping	3,252.37	4.46%
2	US Customs and Border Protection	Double reverse margin	2,478.50	3.40%
3	Shanghai World MRT Logistics Co., Ltd. Nanjing Branch	Shipping	2,396.61	3.29%
4	Bliss GVS International Pte Ltd.	Promotion fee	2,000.94	2.75%
5	Jiangsu HNA International Logistics Co., Ltd.	Shipping	1,987.87	2.73%
	total		12,116.29	16.62%

(9) Non-current liabilities due within one year

At the end of each reporting period, the non-current liabilities due within one year are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Long-term loans due within one year	66,475.35	29,160.03	314,844.75
Long-term payables due within one year	15,057.81	5,990.88	99,048.12

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project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
total	81,533.16	35,150.91	413,892.88

At the end of each reporting period, the company's non-current liabilities due within one year were RMB 4,138,928,800, 351,509,100 yuan and 815,331,600 yuan, accounting for 16.19% and 2.00% of the total liabilities for the current period respectively And 3.43%.

2. Analysis of main non-current liabilities

(1) Long-term loans

At the end of each reporting period, the company's long-term loans are as follows:

Unit: ten thousand yuan			
project	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Credit loan	1,500.00	2,532.89	1,500.00
loan for sure	4,940.00	4,960.00	4,980.00
Pledge and mortgage loans	320,455.54	164,929.04	634,474.85
Subtotal	326,895.54	172,421.93	640,954.85
Less: long-term maturity within one year loan	66,475.35	29,160.03	314,844.75
total	260,420.19	143,261.90	326,110.10

At the end of each period of the reporting period, the book value of the company's long-term loans was RMB 3,261,101,100 and 1,326,190 respectively RMB 10,000 and RMB 2,604,021,900, accounting for 12.76%, 8.16% and 10.95% of total liabilities for the current period, respectively. At the end of 2018, the company's long-term borrowings decreased. On the one hand, the company paid off part of the power plant projects in advance. Long-term loans. On the other hand, the company sold more power stations in 2018, and its corresponding long-term loans were reduced accordingly. less. In 2019, the company's photovoltaic power plant projects have undergone more construction, and the power plant project loans have increased.

The increase in the amount of funds has increased the balance at the end of 2019.

(2) Long-term payables

At the end of each reporting period, the company's long-term payables are as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Finance lease payable	59,157.84	30,144.83	175,761.74
Subtotal	59,157.84	30,144.83	175,761.74
Less: long due within one year Due	15,057.81	5,990.88	99,048.12
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project			
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
total	44,100.03	24,153.95	76,713.62

At the end of each period of the reporting period, the company's long-term payable book amounts were RMB 767,136,200 and RMB 24,153.95 res RMB 10,000 and RMB 441,100,300, accounting for 3.00%, 1.38% and 1.85% of total liabilities for the current period, respectively. 2018

At the end of the year, the company's long-term payables decreased, mainly because the company sold some power stations in 2018.

The amount of financial lease payable was reduced accordingly. At the end of 2019, long-term payables increased compared with the end of 2018.

Mainly because the company added a new financial lease contract with Bank of Communications Financial Leasing Co., Ltd. in the current period Caused by.

(3) Long-term employee compensation payable

At the end of each reporting period, the company's long-term employee compensation payable was RMB 35,884,900 and RMB 22,269,700 respect Yuan and 9.5134 million Yuan, accounting for 0.14%, 0.13% and 0.04% of the total liabilities of the current period respectively.

In March 2017, when the company returned to privatization, it replaced the original Share payment arrangement. According to the new arrangement, if an employee does not resign within the agreed period, he can get a one-time payment Corresponding fixed-amount cash rewards, the company estimates that the company will receive Estimate the number and amount of employees who will receive a fixed amount of cash rewards.

(4) Estimated liabilities

At the end of each reporting period, the company's estimated liabilities are as follows:

project	Unit: ten thousand yuan		
	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
Warranty	91,071.93	90,730.38	100,252.84
Pending litigation	1,228.99	1,209.08	1,244.13
Non-controlling merger contingent consideration	1,122.83	2,107.12	-
total	93,423.75	94,046.59	101,496.97

At the end of each period of the reporting period, the company's estimated liabilities amounted to RMB 1,104,969,700 and RMB 940,465,900 resp Yuan and 934,237,500 yuan, accounting for 3.97%, 5.35% and 3.93% of the total liabilities of the current period, mainly

For component quality deposits and estimated liabilities due to pending litigation.

The company accrued a warranty deposit based on 1% of the sales revenue of photovoltaic modules and confirmed the estimated liabilities.

In 2017, the U.S. Department of Commerce announced anti-dumping and anti-subsidy finals on the company's exports during the relevant period.

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Tax rate, but the company and SolarWorld Americas, Inc. filed a lawsuit against the final result.

As of the end of 2019, the lawsuit is still under trial. The company combines relevant regulations, lawyers' opinions and recent US

The ruling result of the double counter case, etc. were judged, and the

5% of the amount of the subject matter of the anti-margin litigation is withdrawn for the estimated liabilities of pending litigation.

(5) Deferred income

At the end of each reporting period, the company's deferred income is as follows:

project	2019 Nian	2018 Nian	2017 Nian
	12 Yue 31 Ri	12 Yue 31 Ri	12 Yue 31 Ri
Unit: ten thousand yuan			
Infrastructure subsidy	9,662.41	8,133.14	5,605.86
Golden Sun Demonstration Project	1,757.32	1,898.80	2,034.55
Key laboratory project subsidy	1,117.14	1,488.42	1,843.15
Other project subsidies	13,365.39	4,345.96	5,258.63
Finance lease related	1,907.84	1,199.35	3,490.45
total	27,810.11	17,065.66	18,232.64

At the end of each period of the reporting period, the company's deferred income was RMB 182.3264 million, RMB 170,565,600 and 278,101,100 yuan, accounting for 0.71%, 0.97% and 1.17% of the total liabilities of the current period respectively, accounting for a relatively low proportion. Mainly the deferred income formed by government subsidies and financial leases related to assets.

(3) Analysis of solvency

1. Main solvency indicators

During the reporting period, the company's main debt solvency indicators are as follows:

Main financial indicators	2019 Nian	2018 Nian	2017 Nian
	12 Yue 31 Ri	12 Yue 31 Ri	12 Yue 31 Ri
Current ratio (times)	1.15	1.27	1.34
Quick ratio (times)	0.86	0.91	0.75
Asset-liability ratio (consolidated)	65.20%	59.33%	69.19%
Main financial indicators	2019 year	2018 year	2017 year
Profit before interest, tax, depreciation and amortization (10,000 yuan)	211,697.30	230,221.35	263,790.73
Interest coverage multiple (times)	2.87	2.18	1.88

2. Analysis of solvency indicators

During the reporting period, the main debt repayment indicators of the company and comparable listed companies in the same industry are compared.

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Finance index	Listed company	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
	Yijing Optoelectronics	48.34%	45.35%	45.49%
	GCL Integration	72.31%	77.22%	79.31%
	Oriental Risen	63.42%	55.26%	54.36%
	Domestic listed company Division average	61.36%	59.28%	59.72%
	JinkoSolar	74.00%	76.42%	76.64%
assets debt ratio (merge)	Artus Sun can	73.93%	73.98%	82.01%
	JA Solar (Note)	70.92%	76.27%	68.07%
	Overseas listed company Division average	72.95%	75.56%	75.57%
	Average at home and abroad value	67.15%	67.42%	67.65%
	range	48.34%-74.00%	45.35%-77.22%	45.49%-82.01%
	Trina Solar	65.20%	59.33%	69.19%
	Yijing Optoelectronics	1.73	1.66	1.62
	GCL Integration	0.79	0.91	1.19
	Oriental Risen	0.91	1.02	1.43
	Domestic listed company Division average	1.14	1.20	1.41
	JinkoSolar	1.01	0.95	0.98
Flow ratio Rate (times)	Artus Sun can	1.05	1.04	0.99
	JA Solar	0.98	0.89	1.03
	Overseas listed company Division average	1.02	0.96	1.00
	Average at home and abroad value	1.08	1.08	1.21
	range	0.79-1.73	0.89-1.66	0.98-1.62
	Trina Solar	1.15	1.27	1.34
	Yijing Optoelectronics	1.57	1.52	1.44
	GCL Integration	0.66	0.81	1.12
	Oriental Risen	0.79	0.88	1.27
Quick ratio Rate (times)	Domestic listed company Division average	1.01	1.07	1.28
	JinkoSolar	0.83	0.71	0.77
	Artus Sun can	0.87	0.95	0.91

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Finance index	Listed company	2019 Nian 12 Yue 31 Ri	2018 Nian 12 Yue 31 Ri	2017 Nian 12 Yue 31 Ri
	JA Solar	0.80	0.69	0.71
	Overseas listed company	0.83	0.78	0.80

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Division average			
Average at home and abroad value	0.92	0.93	1.04
range	0.66-1.57	0.69-1.52	0.71-1.44
Trina Solar	0.86	0.91	0.75

Note 1: The data source is Wind information and periodic reports from related companies

Note 2: JA Solar passed the review of China Securities Regulatory Commission in 2019 and listed on the A-share backdoor. In 2017 and 2018,

The relevant data is taken from "Qinhuangdao Tianye Tonglian Heavy Industry Co., Ltd. Major Asset Sale and Issuance of Shares to Purchase Assets Related Transactions Report", the 2019 data is taken from the annual report of A shares.

During the reporting period, the company's solvency indicators were generally stable. The company's debt-to-asset ratio, current ratio and The quick ratio is comparable to that of listed companies in the same industry and is within a reasonable range of the industry.

The company's sales collection is generally good, operating cash flow is relatively stable, and the short-term debt repayment risk is relatively small. The asset-liability structure will continue to be optimized. After this listing and financing, the main debt repayment indicators will be improved. One step improvement.

(4) Analysis of asset turnover capacity

1. Main asset turnover ability indicators

During the reporting period, the company's main asset turnover indicators are as follows:

Main financial indicators	2019 year	2018 year	2017 year
Turnover rate of accounts receivable (times/year)	4.49	4.72	5.19
Turnover rate of accounts receivable (times/year) (income After removing the debt included in the power station sales business)	4.30	3.75	5.13
Inventory turnover rate (times/year)	3.44	2.41	1.80
Turnover rate of total assets (times/year)	0.71	0.75	0.71

2. Index analysis of asset turnover capacity

During the reporting period, the comparison between the company and comparable listed companies in the same industry in terms of asset turnover

Finance index	Listed company	2019 year	2018 year	2017 year
accounts receivable	Yijing Optoelectronics	3.94	4.03	3.68
Turnover rate (times /Year, times/period)	GCL Integration	2.94	1.92	2.00
	Oriental Risen	3.57	2.54	3.75

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Finance index	Listed company	2019 year	2018 year	2017 year
	Domestic listed company average value	3.48	2.83	3.14
	JinkoSolar	5.00	3.94	4.14
	Canadian Solar	6.60	8.91	8.61
	JA Solar	5.62	6.40	7.03
	Overseas listed company average value	5.58	6.42	6.59
	Average domestic and overseas	4.53	4.62	4.87
	range	2.94-6.60	1.92-8.91	2.00-8.61
	Trina Solar	4.49	4.72	5.19

	Yijing Optoelectronics	9.50	9.44	9.26
	GCL Integration	5.92	8.55	8.95
	Oriental Risen	7.86	6.71	7.52
	Domestic listed company average value	7.76	8.23	8.58
Inventory turnover	JinkoSolar	4.21	4.30	5.37
Rate (times/year, Times/period)	Canadian Solar	6.08	10.04	8.35
	JA Solar	6.13	4.92	5.13
	Overseas listed company average value	5.47	6.42	6.28
	Average domestic and overseas	6.62	7.33	7.43
	range	4.21-9.50	4.30-10.04	5.37-9.26
	Trina Solar	3.44	2.41	1.80
	Yijing Optoelectronics	0.54	0.53	0.60
	GCL Integration	0.50	0.57	0.71
	Oriental Risen	0.65	0.55	0.87
	Domestic listed company average value	0.56	0.55	0.73
Total assets week	JinkoSolar	0.71	0.78	0.97
Turn rate (times/Year, times/period)	Canadian Solar	0.62	0.71	0.58
	JA Solar	0.81	0.82	0.88
	Overseas listed company average value	0.71	0.77	0.81
	Average domestic and overseas	0.64	0.66	0.77
	range	0.50-0.81	0.53-0.82	0.58-0.99
	Trina Solar	0.71	0.75	0.71

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Note 1: Data sources are Wind Information and regular reports from related companies.

Note 2: JA Solar passed the review of China Securities Regulatory Commission in 2019 and listed on the A-share backdoor. In 2017 and 2018, The relevant data is taken from "Qinhuangdao Tianye Tonglian Heavy Industry Co., Ltd. Major Asset Sale and Issuance of Shares to Purchase Assets Related Transactions Report", the 2019 data is taken from the annual report of A shares.

Note 3: The account receivable turnover rate and inventory turnover rate of overseas comparable companies are calculated using book value.

Affected by different product structures and business models, different companies have different asset turnover capabilities.

During the reporting period, the accounts receivable turnover rate and total asset turnover rate were basically consistent with the average level of listed c

The company's accounts receivable management ability is good, the overall payment is good, the asset turnover is good; inventory turnover

The rate is lower than the average level of listed companies in the same industry, mainly due to the slow turnover of power station assets in the company

With the external sales of photovoltaic power plants in the inventory, the inventory turnover rate continues to increase.

In summary, during the reporting period, the company's accounts receivable turnover rate was good, and the inventory and total assets turnover rate was good. The situation is in line with the company's operating characteristics.

13. Analysis of liquidity and sustainability

During the reporting period, the issuer's cash flow statement is as follows:

Unit: ten thousand yuan

project	2019 year	2018 year	2017 year
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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Net cash flow from operating activities	524,130.36	407,909.28	104,165.90
Net cash flows from investing activities	-519,964.46	-182,256.61	-247,114.92
Net cash flow from financing activities	110,558.96	-251,578.31	-43,672.24
effect of the changes of the exchange rate on cash and the equivalents	1,942.27	8,548.32	-15,536.82
Net increase in cash and cash equivalents	128,667.13	-17,377.32	-202,158.09
Balance of cash and cash equivalents at the end of the period	383,526.52	254,859.39	272,236.71

(1) Analysis of cash flow from operating activities

During the reporting period, the comparison between the net cash flow generated by the company's operating activities and the net profit is as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Net cash flow from operating activities	524,130.36	407,909.28	104,165.90
Net profit	70,224.53	57,274.42	58,788.96

In 2018, the company's net cash flow from operating activities was relatively high, mainly due to the company's sales that year. Photovoltaic power plants received more cash; in 2019, the company's net cash flow from operating activities was relatively high. Mainly due to the company's component business operations and good payment collection.

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The details of other cash received by the company related to operating activities in each period of the reporting period are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Deposits such as bank acceptance drafts and letters of credit	101,170.34	126,197.06	105,855.68
government subsidy	19,328.89	25,244.54	7,365.95
Other income	4,802.02	1,577.09	3,597.54
total	125,301.25	153,018.69	116,819.17

The details of other cash paid by the company related to operating activities in each period of the reporting period are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Deposits such as bank acceptance drafts and letters of credit	166,892.84	129,110.89	124,699.27
Transportation and storage fees	60,597.85	54,796.73	72,500.38
Utility bill	57,305.32	53,848.91	58,403.53
Professional service fees such as legal affairs and auditing	13,026.89	12,050.63	8,870.88
Warranty	19,189.12	13,757.34	4,069.40
Promotion fee	7,385.90	13,495.61	6,642.51
other	45,172.10	34,439.91	38,603.98
total	369,570.01	311,500.01	313,789.95

(2) Cash flow analysis of investment activities

During the reporting period, the net cash flow generated by the company's investment activities was -2,471,149,200 yuan, -182,256,100 yuan and -519,964,600 yuan. During the reporting period, the company's cash outflow from investment activities was mainly It is the cash paid for the purchase and construction of fixed assets, intangible assets and other long-term assets, and the main cash inflow from investment

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. If it is to recover the cash received from the investment and obtain the interest of the bank financing.

In each period of the reporting period, the details of other cash received by the company related to investment activities are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Interest income	3,197.45	3,398.82	3,521.69
Refund of related party funds	795.22	7,708.74	415,637.17
Interest of related party funds	2,677.25	171.73	936.68
total	6,669.93	11,279.28	420,095.54

In each period of the reporting period, other cash paid by the company related to investment activities are as follows:

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Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Related party funding	7,758.81	15,497.42	440,889.22
Foreign exchange hedging loss	10,621.54	25,244.54	-
total	18,380.36	40,741.96	440,889.22

(3) Analysis of cash flow from financing activities

During the reporting period, the net cash flow generated by the company's financing activities was -436,722,400 yuan, -251,578.31 million yuan and 1,105,589,600 yuan. The company's cash outflow from financing activities is mainly to repay debt. The cash inflow from financing activities is mainly the cash received from absorbing investment and cash received from borrowing.

In each period of the reporting period, the details of other cash received by the company related to financing activities are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Money received from finance lease	37,410.00	-	-
Financial lease deposit	-	-	58,902.60
Dedicated account for power station repayment and security deposit recovery.	-	2,915.41	176,763.02
Related party funds borrowed	-	-	3,250.00
Loan margin	44,326.01	-	-
Discounted bills	400.00	179.00	-
total	82,136.01	3,094.41	238,915.63

The details of other cash paid by the company related to financing activities in each period of the reporting period are as follows:

Unit: ten thousand yuan			
project	2019 year	2018 year	2017 year
Finance lease fee	18,386.61	146,081.57	24,832.14
Credit and loan commitment fee	7,135.41	3,532.74	6,193.30
Loan margin	-	7,682.46	9,838.14
Purchase of minority shareholders	644.21	-	-
Restructuring payment consideration	-	-	175,496.77
Repayment of funds borrowed from related parties	-	-	124,878.09
Interest on borrowing funds from related parties	-	-	288.16

Cash paid to minority shareholders for capital reduction	-	-	157.42
total	26,166.24	157,296.77	341,684.01

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14. Dividend distribution

(1) The issuer's dividend distribution policy in the last three years

On December 27, 2017, the company's first general meeting of shareholders reviewed and approved the "Articles of Association", which stipulated the following dividend distribution policy is implemented:

When the company distributes the after-tax profits of the current year, it shall allocate 10% of the profits to the company's statutory reserve fund. If the accumulated amount of the statutory common reserve fund is more than 50% of the company's registered capital, it can no longer be drawn. Statute If the accumulation fund is not sufficient to make up for the losses of the previous year, the statutory accumulation fund shall be Use the profit of the year to make up for the loss. After the company withdraws the statutory common reserve fund from the after-tax profits, the shareholders You can also withdraw any provident fund from after-tax profits. The remaining after-tax profits after the company makes up for losses and withdraws the Profit is distributed according to the proportion of shares held by shareholders, except for those not distributed according to the proportion of shares held The general meeting of shareholders violates the provisions of the preceding paragraph and distributes profits to shareholders before the company makes , Shareholders must return the profits distributed in violation of the regulations to the company. The company's shares held by the company do not participate in Distribution profit.

The company's provident fund is used to make up for the company's losses, expand the company's production and operations or to increase the company's capital. However, the capital reserve will not be used to make up the company's losses.

When the statutory reserve fund is converted into share capital, the reserve fund retained will not be less than the registered capital of the company Of 25%.

After the company's general meeting of shareholders makes a resolution on the profit distribution plan, the company's board of directors must Complete the distribution of dividends (or shares) within 2 months.

(2) Actual dividend distribution in the last three years

The company's profit distribution over the years complies with relevant national laws, regulations and the relevant provisions of the "Articles of Association". The details of dividend distribution in the past three years are as follows:

According to the resolution of the board of directors on March 23, 2017, the cash dividend is RMB RMB 3,373,826,786.90 was paid in June 2017.

According to the resolution of the board of directors on March 13, 2019 and the resolution of the general meeting of shareholders on April 4, 2019 According to the negotiation, the total cash dividend is RMB 166,993,505.63, which will be paid in May 2019.

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15. Major investment and capital expenditure

(1) Capital expenditures incurred during the reporting period

In 2017, 2018 and 2019, the company purchased fixed assets, intangible assets and other long-term

The cash paid for assets was RMB 1,591,342,400, RMB 1,549,739,700 and RMB 3,855.7144, respectively.

To be used to pay for housing projects, purchase equipment, etc. Through continuous capital expenditures, the company's high performance

The increase in module production capacity and the continuous improvement of R&D and technical level laid a foundation for the rapid growth of the cc

With a solid foundation, the company's market competitiveness has been continuously consolidated and strengthened.

(2) The foreseeable future capital expenditure plan

In the next two to three years, the issuer will continue to implement the following capital expenditure calculations according to its own plan:

Plan, mainly including: annual production of 3GW high-efficiency single crystal half-slicing project, leader power station project, R&D and letter Information center upgrading and construction projects.

The specific calculation of the investment project with raised funds and its impact on the company's main business and operating results are detailed See "Section 9 Use of Raised Funds and Future Development Planning" in this prospectus.

16. Post-period events, contingencies and others

(1) Events after the period

1. Impact assessment on the novel coronavirus pneumonia epidemic

As of the signing date of the prospectus, the company has begun normal and continuous production and operation.

There are no obstacles to the performance of daily orders or major contracts such as material procurement and product sales. The new crown epidemic h

The operating performance of the first quarter of 2020 has a small impact and is only a temporary impact; the company has adopted the necessary

Resolve measures to be able to return to normal conditions in the future. It is expected that the annual operating performance and the issuance of

The implementation of the fund-raising projects has no major negative impact, nor will it have a major adverse impact on the company's ability to contin

2. On the impact of the implementation of "Accounting Standards for Business Enterprises No. 14 -Revenue"

In 2017, the Ministry of Finance issued the revised "Accounting Standard for Business Enterprises No. 14-Revenue" (hereinafter abbreviated

According to the relevant requirements of the new revenue standard, the company will implement the new revenue standard from January 1, 2020.

Entry criteria. After the company implements the new revenue standard, the specific method of revenue recognition will not change, and the implementa

The standards have not had a significant impact on business models, contract terms, and revenue recognition.

The company has no other matters that should be disclosed after the balance sheet date.

(2) Contingencies

Contingent liabilities arising from pending litigation and arbitration and their financial impact are as follows:

plaintiff	defendant	Cause of the case	Acceptance court	Target amount
Tianjin Beicheng New Energy Technology Co., Ltd	Changzhou Trina Smart Energy Project EPC Limited company	Same dispute	People from Wuqing District, Tianjin Civil court	RMB 16,809,100
Renelux Renewables LLC	S. Aether Energy SA (Subsidiary company of issuer)	Build together Same dispute	Athens Court of First Instance	2,818 million euros
Jasmin Solar Pty Ltd	Trina Solar (Australia) Pty Ltd., Trina Solar (US), Inc.	Component goods Dispute	Commonwealth of Australia Court	33.4079 million Australian dollars
Sichuan Province Machinery Equipment Import and Export Limited liability company	Trina Solar Co., Ltd.	Component goods Dispute	Chengdu Arbitration Commission	RMB 23,285,500
Servicios & Soluciones Electromecánicas, SA de CV	TS EPC DE MEXICO SA de CV	EPC Same dispute	Mexico City Civil Law hospital	USD 3.7 million

Tianjin Beicheng New Energy Technology Co., Ltd. sued Changzhou Tianhe Smart Energy Engineering Co., Ltd., regarding the EPC project demanded compensation for the other party's losses of RMB 16,809,100. In July 2019, a native of Wuqing District, Tianjin

The civil court is entrusting a third-party judicial authentication center to conduct judicial authentication on relevant entrusted authentication matters.

Still in the process of trial, based on the fact that the company's involved projects have been in normal power generation, the other party's lack of evidence

And the progress of the judicial appraisal, etc., the sponsoring lawyer believes that Tianjin Beicheng has received the compensation for the losses it has

The probability of the amount is low.

Renelux Renewables LLC sued S. Aether Energy SA in relation to the EPC construction contract dispute

The company, due to the latter's breach of contract to terminate the EPC contract, the plaintiff requested a compensation of 2,118,800 euros. First level court

The ruling results were released in July 2007. According to the results, S. Aether Energy SA won the lawsuit. Currently, Renelux

He filed an appeal because he did not participate in the trial, but has not yet applied to the court for a trial date. The company has taken the initiative to file

The final judgment is submitted. Based on the progress of the case and the lawyer's judgment, the company is less likely to lose.

For details of the case of Jasmin Solar Pty Ltd, please refer to "Section 11/3/(一)/2.

Notes on this case in "Litigation related to his business activities".

The company and Sichuan Machinery Equipment Import and Export Co., Ltd. (hereinafter referred to as "Sichuan Machinery Design")

In the ruling, Sichuan Machinery Engineering filed an arbitration counterclaim against the company in May 2019, requiring the company to undertake the

The total amount of compensation is 23,285,021.76 yuan. During the final ruling, Sichuan Machinery Engineering Co., Ltd.

For appraisal, the arbitration tribunal agreed to the application and appointed a third party

Relevant indicators of the components supplied by the company. Up to now, the company and Sichuan Machinery Engineering

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Agree on a plan. After writing to the sponsoring lawyer, the sponsoring lawyer believes that: according to the company's internal technical evaluation,

Since the component products of the same batch involved in this case did not have any unqualified quality, the unqualified products may be

The performance is low; in addition, the components involved in this case have been delivered for more than 5 years, and the current testing of the comp

To determine whether the components were qualified when the company originally delivered the goods, the sponsoring lawyer believes that Sichuan Ma

The possibility of claiming the amount is low.

Servicios & Soluciones Electromecánicas, SA de CV on the EPC construction contract dispute,

Sued the subsidiary company TS EPC DE MEXICO SA de CV, demanding compensation of USD 3.7 million. Mexi

The Columbia Civil Court issued the verdict, and the subsidiary TS EPC DE MEXICO SA de CV won the case.

29.10.2020 The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The plaintiff subsequently appealed the verdict and is currently in the process of hearing.

17. Corrections of accounting errors during the reporting period

Serial number	Corrections of accounting errors and the reason	Affect the fiscal year	Correct the account and amount of the statement
			①Adjustment of endorsement and discounted bills receivable (Note) At the end of 2017, the bills receivable increased by RMB 1,826,723,200. Accounts payable increased by RMB 1,783,260,400, and other Payment increased by RMB 43,462,800; At the end of 2018, the bills receivable increased by RMB 1,055,589,200. Accounts payable increased by RMB 1.037.148 million, and other Payment increased by RMB 16,584,400 and short-term borrowing increased RMB 1.79 million.
1	According to the relevant business accounting standards Relevant regulations and guidance from the China Securities Regulatory Commission Opinions, correction of final notes recorded in 2017 year Stop confirmation related accounting treatment		② Offset the bills within the scope of consolidation The bills receivable was reduced by RMB 90,453,300. The bills payable was reduced by RMB 90,453,300; At the end of 2018, the bills receivable was reduced by RMB 2,649,900. The bill payment was reduced by RMB 2,649,900. ③ Make up for bad debt provision and deferral of commercial acceptance bills Taxable assets In 2017, asset impairment losses increased by RMB 16,357,900, The undistributed profit at the beginning of the year was reduced by 42,100 yuan, and the notes receivable According to the adjustment, 16.4 million yuan; In 2018, the asset impairment loss was reduced by 16.4 million yuan, The undistributed profit at the beginning of the year was reduced by 16.4 million yuan. In 2017, sales of goods and services received The cash was reduced by RMB 322,897,500 to purchase goods and receive The cash paid for labor services was reduced by RMB 322,897,500. In 2018, sales of goods and services received The cash was reduced by RMB 2,919,192,100 to purchase goods, The cash paid for labor services has been reduced by 2,919,192,100 yuan.
2	Cash flow for power station sales The analog adjustment of the scale is updated 2017, 2018 year positive		

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18. The main financial information and operating conditions after the financial report audit deadline

The deadline for the audit of the company’s financial report is December 31, 2019. According to the Major financial information and operating status letter after the deadline for audit of financial reports of stocks and listed companies’ prospectuses Information Disclosure Guidelines”, Rongcheng Certified Public Accountants (special general partnership) on the company’s March 31, 2020 Consolidation and parent company balance sheet, January-March 2020 merger and parent company income statement, merger and parent company The cash flow statement and the notes to the financial statements were reviewed, and the Review Report was issued (Rongcheng Special Word [2020] 201Z0080).

The company’s board of directors, board of supervisors and directors, supervisors, and senior The unaudited financial statements between March 31 and March 31, 2020 were carefully reviewed and a special statement was issued. Ensure that there are no false records, misleading statements or major omissions in the information contained in these financial statements, and Individual and joint responsibility is assumed for the authenticity, accuracy and completeness of the content.

The legal representative of the company, the person in charge of the company’s accounting work and the person in charge of the accounting The unaudited financial statements from January 1, 2020 to March 31, 2020 have been carefully reviewed

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. And issued a special statement to ensure that the financial statements are true, accurate and complete.

(1) Main financial information after the audit deadline

The company's financial statements for January-March 2020 have not been audited, but Rongcheng Certified Public Accountants (special general Through partnership) review, the main financial data are as follows:

1. Main data of consolidated balance sheet

Unit: ten thousand yuan			
project	2020 Nian 3 Yue 31 Ri	2019 Nian 12 Yue 31 Ri	change
total assets	3,843,722.60	3,649,123.47	5.33%
Total liabilities	2,554,054.59	2,379,281.17	7.35%
Total owners' equity	1,289,668.01	1,269,842.30	1.56%
Attributable to the owner of the parent company rights and interests	1,215,307.20	1,195,629.94	1.65%

2. Main data of the consolidated income statement

Unit: ten thousand yuan			
project	2020 Nian 1-3 Yue	2019 Nian 1-3 Yue	Year-on-year change
Operating income	550,323.82	417,753.70	31.73%

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project	2020 Nian 1-3 Yue	2019 Nian 1-3 Yue	Year-on-year change
operating profit	19,876.25	4,321.67	359.92%
The total profit	19,634.86	6,729.73	191.76%
Net profit	15,211.14	5,815.57	161.56%
Net attributable to shareholders of the parent company profit	13,297.08	5,455.28	180.41%

3. Main data of consolidated cash flow statement

Unit: ten thousand yuan			
project	2020 Nian 1-3 Yue	2019 Nian 1-3 Yue	Year-on-year change
Net cash flow from operating activities	46,033.09	101,685.14	-54.73%
Net cash flows from investing activities	-276,386.65	-76,310.47	NA
Net cash flow from financing activities	134,820.19	-107,745.86	NA
Net increase in cash and cash equivalents	-87,473.34	-91,474.39	NA

4. The main data of non-recurring gains and losses

Unit: ten thousand yuan	
project	2020 Nian 1-3 Yue
Non-current asset disposal gains and losses	441.31
Government subsidies included in the current profit and loss (closely related to the business of the enterprise, according to the unified national standard Except for fixed or quantitative government subsidies)	1,018.30
Entrust others to invest or manage the profit and loss of assets	2,447.01
Debt restructuring gains and losses	-
Except for the effective hedging business related to the company's normal business, the fair value Financial assets that are measured and whose changes are included in the current profit and loss, are measured at fair value and whose changes are calculated Gains and losses from changes in fair value of financial liabilities that are included in the current profit and loss and disposal at fair value	
	1,428.78

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Financial assets measured at fair value and their changes are included in the current profit and loss, and their changes are measured at fair value
Financial liabilities included in current profit and loss and investment income from available-for-sale financial assets

Reversal of provision for impairment of accounts receivable that has been separately tested for impairment 297.46

Other non-operating income and expenses other than the above -241.39

Subtotal **3,536.92**

Less: Income tax impact 168.13

Amount of influence of minority shareholders' equity -121.62

total **3,490.41**

(B) 2020 Nian 1-3 Yue changes in financial information analysis

As of March 31, 2020, the company's total assets were RMB 3843,722.60 million, an increase of 5.33% from the end of the previous year.

The company's total liabilities amounted to RMB 25,550,545,900, an increase of 7.35% from the end of the previous year. The company's assets and lia

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There is growth. The company's shareholders' equity attributable to the parent company was RMB 1,2153.072 million, an increase of 1.65% from the er
Keep it relatively stable.

From January to March 2020, the company achieved operating income of RMB 5,503,328,200, an increase of 31.73% over the same period last ye
From January to March 2020, the net profit will be 152,111,400 yuan, an increase of 161.56% over the same period last year.

And net profit increased over the same period last year, mainly due to the issuer's component business and system products from January to March 2020
Due to good business sales.

From January to March 2020, the company's net cash flow from operating activities was RMB 460,330,900, which was
A decrease of 54.73% over the same period. On the one hand, due to the impact of the epidemic in the first quarter of 2020, the rate of customer paymen
On the other hand, the company has increased its stocking in accordance with future market demand.

From January to March 2020, net non-recurring gains and losses attributable to shareholders of the parent company after deducting the impact of ir
The amount is RMB 34,904,100, mainly for government subsidies and income from the purchase of wealth management products.

(3) Main business status after the financial report audit deadline

From the financial report audit deadline to the signing date of this prospectus, the company's main operating conditions are normal, mainly
Procurement of raw materials, sales of major products, composition of major customers and suppliers, tax policies
And other major matters that may affect the judgment of investors have not undergone major changes.

In summary, the company's operations and performance after the deadline for the audit of the financial report are relatively stable.
The overall business situation is good, and there are no major abnormal changes.

Section 9 Use of raised funds and future development plans

1. The use and management system of raised funds

The company's "Raised Fund Management System" was approved by the 15th meeting of the first board of directors on April 5, 2019. And the second extraordinary general meeting of shareholders in 2019. The system clearly stipulates that the company should establish a fundraising The main contents of the special deposit system for gold are as follows:

(1) Funds raised by the company shall be deposited in a special account established by the board of directors for centralized management. Fund raising Special accounts shall not store non-raised funds or use them for other purposes;

(2) The company shall, within one month after the receipt of the raised funds, contact the sponsor, Bank of Industry (hereinafter referred to as "commercial bank") signed a tripartite supervision agreement for the storage of funds raised in a special account. At least the following should be included:

- ① The company shall deposit the raised funds in a special account for raised funds;
 - ② The commercial bank shall provide the company with the bank statement of the special account for fund-raising and copy it to the sponsor
- Structure
- ③ The company withdraws more than 50 million yuan from the special account of raised funds at one time or within 12 months And reach the net amount of the total funds raised from the issuance after deducting the issuance expenses (hereinafter referred to as "net funds raised") The company shall notify the sponsor in time;

- ④ Sponsor institutions can check the special account information for raised funds at any time at the commercial bank;
- ⑤ Liability for breach of contract by companies, commercial banks, and sponsors;

The company shall report to the Shanghai Stock Exchange for filing and make an announcement within 2 trading days after the signing of the aforesaid agreement.

If the aforesaid agreement is terminated early due to the change of the sponsor or commercial bank before the expiry of the validity period, the public The company shall sign a new agreement with the relevant parties within two weeks from the date of termination of the agreement, and sign the new agreement Report to Shanghai Stock Exchange for record and announcement within the next 2 trading days.

(3) The company shall use the raised funds in accordance with the investment plan of the raised funds promised in the issuance application document. In the event of a situation that seriously affects the normal progress of the investment plan with raised funds, the company shall promptly report the company The stock exchange and announce;

- (4) Fundraising projects shall not be for holding transactional financial assets and financial assets available for sale, or lending to others

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Financial investments such as private individuals, entrusted wealth management, etc., shall not directly or indirectly invest in the trading of securities as Service company. The company shall not use the raised funds for pledges, entrusted loans or other disguised changes in the use of raised funds

Way of investment;

(5) The company shall not directly or indirectly provide the raised funds to controlling shareholders, actual controllers, etc.

Used by associates to facilitate the use of fund-raising projects for related persons to obtain illegitimate benefits.

2. Overview of the use of funds raised this time

(1) Overview of the use of funds raised this time

Approved by the company’s second extraordinary general meeting of shareholders in 2019, the company plans to issue RMB ordinary

The number of shares (A shares) does not exceed 439,456,600 shares (excluding the number of shares issued with the over-allotment option).

This time the company intends to use the raised funds to invest no more than 300,000 yuan for the "Tongchuan Photovoltaic Power Generation Technolc

Leading Base Yijun County Tianxing 250MWp Photovoltaic Power Project" (hereinafter referred to as "Tongchuan Project"), "Jing

"Technical renovation and expansion projects for silicon, solar cells and photovoltaic modules" (hereinafter referred to as "technical renovation and expa

"R&D and Information Center Upgrade Construction Project" and supplementary working capital.

On August 12, 2019, the company held the 18th meeting of the first board of directors and the first supervisor

The eighth meeting of the meeting reviewed and passed the "Proposal on Changing the Use of Funds Raised". Company independent directors recogniz

Really reviewed the "Proposal on Changing the Use of Raised Funds" and issued independent opinions, independent directors

It is believed that the company’s changes to the investment project of raised funds are based on the company’s actual

The market environment is conducive to improving the efficiency of the use of raised funds and further enhancing the company’s core competitiveness.

Conducive to safeguarding the interests of all shareholders, in line with the company's development strategy. The company’s relevant decision-making p

Laws, regulations and company-related regulations. The independent directors agreed to the "Proposal on Changing the Use of Raised Funds",

And agreed to submit relevant proposals to the shareholders meeting for deliberation. On August 27, 2019, the company's fourth time in 2019

The Extraordinary General Meeting of Shareholders reviewed and passed the "Proposal on Changing the Use of Funds Raised".

Regarding the change in the use of the funds raised this time, the company will use the "3GW high-efficiency single crystal semi-component proje

(Hereinafter referred to as "High-efficiency Single Crystal Cut Half Module Project") replace the original "technical renovation and expansion project",

Implemented with part of the raised funds. After the replacement of the fundraising project is implemented, it will make the investment of "supplementa

The amount dropped from the current RMB 1,386,913,300 to RMB 1,356,350,300. In addition, the total investment in other projects

The amount, the amount to be invested with raised funds and the implementation subject will remain unchanged. The raised funds are deducted from the

The net amount after expenses will be invested in the following order of priority:

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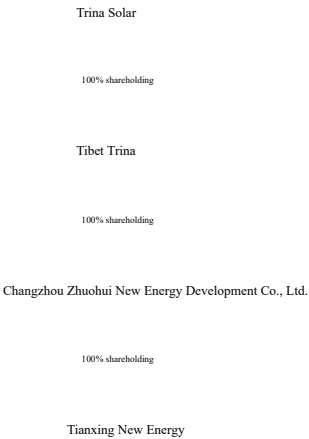
Unit: ten thousand yuan

Serial number	project name	Total project investment	Intended to raise Capital investment amount	Implementation subject
---------------	--------------	--------------------------	--	------------------------

1	Tongchuan Photovoltaic Power Generation Technology Co., Ltd. Yijun Base Yijun County Tianxing 250MWp Photovoltaic Power Project	15,000.00	52,500.00	Tianxing New Energy
2	3GW annual high-efficiency single crystal cutting half-module project	76,811.46	68,175.80	Tianhe Yiwu
3	R&D and information center upgrade construction project	46,019.17	43,689.17	Trina Solar
4	Supplement liquidity	135,635.03	135,635.03	Trina Solar
	total	428,135.66	300,000.00	-

(2) Introduction to the implementation entities of the raised funds investment project

The main system for the implementation of the Tongchuan project is Tianxing New Energy. The company’s ultimate controller is Trina Solar. The specific equity control relationship is as follows:



The main body of the implementation of this "high-efficiency single crystal cutting half-module project" is Tianhe Yiwu, the company's ultimate controller is Trina Solar, and the specific equity control relationship is as follows:

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

From the above figure, the project is actually a project implemented by Trina Solar through its wholly-owned subsidiary.

The situation of human cooperation.

(3) Methods of raising funds for investment projects

In addition to the investment project of the company's raised funds this time, the investment of the raised funds is not more than RMB 300 million, The remaining RMB 1,281,356,600 will come from the company's own funds or self-raised funds.

(4) Arrangements when there is a discrepancy between the actual amount of raised funds and the demand for investment projects

If the actual funds raised in this issuance cannot meet the needs of the investment project, the gap will be approved by the company Bank loan or other means to solve the problem by self-financing. If the raised funds exceed the capital requirements of the above-mentioned projects, The points will be used to supplement working capital or repay bank loans.

The company will be based on the principle of overall planning, according to the time when the raised funds are in place and the progress of the project Construction investment. Before the raised funds are put in place, the company can first use self-raised funds according to the actual situation of the project After the funds raised from the issuance of stocks are in place, they will be replaced.

(5) Whether there will be horizontal competition after the implementation of the fund-raising investment project and the influence on the independence of the company

The implementation of the investment project with raised funds will not cause the company, its controlling shareholder, actual controller and its Other enterprises under control will generate horizontal competition and will not adversely affect the independence of the company.

3. Cooperation with others in investment projects with raised funds

The company's investment project with raised funds does not involve cooperation with others.

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Fourth, the relationship between the raised funds investment project and the company's existing main business and core technology

The company's current main business and core technology

There is a relatively close relationship between surgery. The design of the project focuses not only on growing the company's current main business, but Consider the company's future development strategy.

(1) Tongchuan Photovoltaic Power Generation Technology Leading Base Yijun County Tianxing 250MWp Photovoltaic Power Generation Project

In September 2017, the National Energy Administration issued the "National Energy Administration's "Lead Runner" on Promoting Photovoltaic Power Generation Notice on the implementation of the plan and the relevant requirements for the construction of the leading base in 2017" [Guoneng Fa Xinneng (2017) No. 1] China emphasized: "The "leader in photovoltaic power generation" plan and base construction to promote the advancement of photovoltaic power generation For the purpose of leveling, market application and cost reduction, through market support and test The transformation of technological achievements into market applications, as well as the elimination of backward technologies and production capacity Side parity online goal. "

The Tongchuan project is a bid-winning project of the national technology leader base in 2017. It is also a national innovation-driven development To develop the strategic spirit and support the specific practice of advanced technology R&D and promotion and application. The implementation purpose

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The project will be used as a "test field" for the full marketization of new technologies, and will serve as a bridge for accelerating the transformation of r

In order to accelerate the progress of photovoltaic power generation technology, promote industrial upgrading, promote the reduction of photovoltaic po

The goal of parity online. On the other hand, the current global economic development still faces a shortage of fossil energy and ecological

Under the background of double constraints on environmental pollution, photovoltaic power generation, as a key direction of the global energy transition

For broad development prospects. The company plans to use the national "leader" plan platform this time, with the Tongchuan project as a tool

Specific implementation targets, grasp market opportunities in the photovoltaic power generation industry, verify new technologies and processes, and fi

Improve the company's industrial chain layout step by step and realize the coordinated development of upstream and downstream businesses.

(2) 3GW high-efficiency single crystal half-cut module project

Realizing photovoltaic power generation "on the grid" is an important goal for the development of the photovoltaic industry. In addition to improvi

In addition to the photoelectric conversion efficiency, the decrease in manufacturing costs and the increase in the power of photovoltaic modules are also

An important driving factor for the ultimate realization of the goal of "Internet parity".

"High-efficiency single crystal half-cutting project" plans to build a new building in Yiwu using advanced multi-bus grid technology and superimp

It also adopts a double-glass encapsulated photovoltaic module production line with a production capacity of 3GW/year. The project will use Trina

Independent research and development of high efficiency and high reliability of multi-bus grid technology stacking and cutting in half technology, plus c

Along with product stability and reliability, it is expected to greatly increase the power of photovoltaic modules. at the same time,

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The application of multi-bus grid technology will significantly reduce the consumption of "positive silver" in the manufacturing of photovoltaic modules

Reduce the manufacturing cost of photovoltaic modules.

After the implementation of this project, the company will be able to better meet the needs of photovoltaic system customers to increase the yield o

The demand for increasing investment income is also positive for the realization of the goal of "Internet parity";

By increasing the production capacity of photovoltaic module products, the company's ability to accept orders has been further increased, bringing more

The inflow of economic benefits.

(3) R&D and information center upgrade construction project

The R&D and information center upgrade construction project mainly consists of two parts: R&D center upgrade and information center upgrade

composition. The upgrade of the R&D center aims to improve the industry by purchasing advanced software and hardware equipment and introducing p

To carry out planned and step-by-step research and development of forward-looking topics in advance, so that the company's product technology is alwa

Leading position in the industry; the information center upgrade project aims to target the company's large scale, numerous subsidiaries, and industrial

The chain is relatively complete and cross-regional operations. Through continuous improvement of the information management platform, refined man

Management, process control, process management, data analysis, etc. continue to penetrate into all aspects of the company's daily operations. General

In other words, this R&D and information center upgrade construction project will help strengthen the company's future economic benefits

The ability to benefit inflow.

(4) Supplementary working capital

The photovoltaic industry in which the company is located has high financial barriers and needs a lot of financial support. This supplementary flow

The capital project will firstly help the company reduce its reliance on bank borrowings, reduce debt repayment risks and bank borrowings.

The financial expenses incurred by the fund will maintain the asset-liability ratio within a reasonable range;

Part of the financial support will be provided to ensure its smooth progress. Finally, it will also provide support to the company's current Business development provides multi-dimensional financial support.

V. Approval and filing of fund-raising projects

The supplementary liquidity project in the investment project with raised funds does not involve EIA and filing. In addition, All other projects have performed the environmental assessment and filing procedures, and have obtained approval documents from relevant department as follows:

Serial number	project name	Approval number	EIA document number
1	Tongchuan Photovoltaic Power Generation Technology Leading Base Yijun County Tianxing 250MWp Photovoltaic Power Project	2018-810222-44-03-057681	Copper Ring Approval [2019] 11 number
		1-1-739	

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Serial number	project name	Approval number	EIA document number
2	3GW high-efficiency single crystal cutting half module project	2019-130782-38-03-036910-001	Jinhuan Jianyi District 2019[22]
3	R&D and information center upgrade construction project	Chang Xinxing Shen Nei Bei [2019] No. 68	Chang Xinxing Review Ring Form [2019] No. 64
4	Supplement liquidity	-	-

6. The rationality of the implementation of investment projects with raised funds

(1) Tongchuan Photovoltaic Power Generation Technology Leading Base Yijun County Tianxing 250MWp Photovoltaic Power Generation Project

1. Policy support

The Tongchuan project is a bid-winning project of the national technology leader base in 2017. According to the National Development and Reform Commission's Notice on the Price Policy of Photovoltaic Power Generation Projects in 2018, the area where this project belongs is a category III resource area. The benchmark on-grid electricity price for a volt power station is 0.75 yuan/kW·h (tax included), which is higher than the local benchmark on-grid electricity price. At the same time, in accordance with Article 87 of the Implementation Regulations of the Enterprise Income Tax Law, this project has obtained the first tax reduction. Starting from the tax year to which the operating income belongs, the corporate income tax will be exempted from the first to the third year, and halved in the fourth year. Collect corporate income tax.

In summary, the policies enjoyed by the implementation of this project are conducive to the grid and consumption of electricity generated by this project. The photovoltaic power price and tax reduction policies provided by the state for this project are conducive to the smooth construction and operation of the project. It also provides policy guarantee for the project to obtain good economic benefits.

2. The project area of the Tongchuan project has favorable conditions and resource advantages for development and construction

Yijun County, Tongchuan City, where the Tongchuan Project is implemented, is located in the central part of Shaanxi Province, north of Tongchuan City. The area has less rainy weather and longer sunshine time. The center of the site is rich in solar energy resources and its annual radiation value is between 4,680MJ/m2 and 5,040MJ/m2. According to "Total Radiation of Solar Resource Grade" (GB/T31155-2014), the total annual solar radiation in the local area belongs to C category "rich".

In addition, the Tongchuan project has a high degree of automation and relatively simple operation and maintenance. After the completion of the project, it can only strengthen the power supply in the surrounding areas of Yijun County, improve the local power structure, and promote local economic development.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The development of related industries, such as building materials, transportation, and equipment manufacturing, is driving and promoting the development. And social progress will play a positive role.

3. The company has a good basic reserve

The company has been deeply involved in the industry for many years and has a good foundation in the photovoltaic system business. The specific

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three aspects:

① Project development

In terms of project development capabilities, as of the end of 2019, the company's power stations had accumulated more than 2.48GW grid-connected. Including agricultural and light complementary, fishing and light complementary, industrial and commercial rooftop power stations and large ground power plant site selection, design, financing, procurement, construction, installation, testing, operation, maintenance and other aspects have accumulated rich experience, and established a good cooperative relationship with the local government where the project is located. The implementation has laid a solid foundation.

② Power station construction and operation

In terms of power station construction, the company already has a team covering engineering design, engineering procurement, project implementation. The company also has a professional team including quality supervision of the project and the undertaking of decoration trials; in terms of power station operation and maintenance management, operation and maintenance technology, intelligent operation and maintenance support, operation and maintenance team.

③ Project management

In terms of project management, the company's management has many years of experience in the photovoltaic industry. At all stages of industry development, he has a deep understanding of the development direction of the photovoltaic industry. The company is always committed to develop an innovative and efficient management model and adopt a management system suitable for the development of the photovoltaic industry. In practice, the company's management has also formulated effective implementation rules and fully mobilized employees in all business lines. The work enthusiasm of each project has improved the operating efficiency of each project power station.

To sum up, the company's experienced management team and advanced management mode superimpose the project development accumulated over years. The experience in the construction and operation of power plants and power stations provides a good foundation for the implementation of this project.

(2) 3GW high-efficiency single crystal half-cut module project

1. It has an obvious effect on increasing the issuer's efficient component production capacity

The company is one of the earliest companies engaged in the production, R&D and sales of photovoltaic modules in my country. In production and operation, we have accumulated a wealth of industry experience and established stable and efficient production, supply and marketing system. The system has created a leading brand in the field of battery component R&D and manufacturing. At present, the company's business scope has covered more than 100 countries and regions. Up to now, the company's cumulative shipments of solar photovoltaic modules have led the world, and won the "First-class PV Manufacturer" and "First-rate PV Module Manufacturer" awarded by Bloomberg and IHS respectively.

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Honorary title.

The company's current photovoltaic module capacity utilization rate has reached a relatively high level, and the capacity utilization is relatively saturated. Customers usually have requirements for the delivery time of orders, so the company generally chooses according to the actual situation of its own schedule. As the installed capacity of the global market increases year by year, the gap in capacity demand will become increasingly obvious. Company's second "high-efficiency single crystal cutting project" is a new production line. After the project is implemented, the production capacity of high-efficiency solar modules will be improved simultaneously. The company's ability to accept orders will be improved simultaneously.

2. The product has high technological advancement and scale effect, which will help to further reduce the unit production of products cost

As a well-known photovoltaic smart energy overall solution provider in the industry, the company has always committed to promoting the continuous improvement of photovoltaic module product performance. Application of this "High-efficiency Single Crystal Solar Module" has achieved significant results in reducing the cost of solar modules. With the high-efficiency solar modules with dual-glass packaging and multi-busbar stacking and cutting technology have achieved significant results in reducing the cost of solar modules.

In the link of raw material consumption, positive silver paste is an important part of the non-silicon cost of the battery, reducing the positive silver consumption of silver paste is an important way to further reduce the cost of non-silicon. Compared with the main grid layout. Although the cells in the multi-bus grid module have more grid lines, they become thinner and thinner, and reduce the amount of silver paste. At present, the positive silver consumption of the five-bus grid cell is about 102mg, while the multi-bus grid component's positive silver consumption of the cell can be reduced to 70-80mg, and the cost of each cell can be saved by about 0.2 yuan. The application of multi-bus grid technology of Heguang Energy is at the leading level in the industry. On the one hand, the company independently developed the theoretical model of the optimal design of the number of grids and the diameter of the ribbon, and the maximum of the specifications of the round ribbon. Optimize the design scheme to realize the accurate prediction of power loss, and promote the absolute value of battery efficiency to increase by 0.15% or more. Above; At the same time, combined with advanced metallization technology, the company has achieved a reduction of positive silver consumption by more than 10%. Through the optimized design of the electrode welding point, the influence of the reduction of the contact area between the circular welding strip and the electrode is reduced.

In terms of module technology, the combination of half-cut module technology and the above-mentioned multi-bus grid technology has further improved the power of the module. "Cutting in half" means that the traditional photovoltaic cell is divided into two, the voltage remains unchanged, and the packaging efficiency is improved. High, reducing the shielding loss and thermal resistance loss, because the half-chip has not increased at the cost end, compared with the traditional board, the photovoltaic modules can increase the power by 5-10W.

In the packaging process, double-sided double glass packaging technology was adopted in the "High-efficiency Single Crystal Cut Half Module Product". A layer of glass is added on the back of the module, so that both sides of the photovoltaic module can generate electricity, further increasing the power generation of the module.

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Thereby further reducing the cost of electricity. In addition, photovoltaic modules with double-sided encapsulation have water blocking and highly symmetrical properties. The construction of photovoltaic modules further extends the warranty period of photovoltaic modules. The annual attenuation power is reduced by more than 1%.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The life cycle is expected to increase the power generation capacity by about 20%. Trina Solar relies on the above advanced technologies in the industry. In order to achieve industrialization through effective combination, it won the "2018 Jiangsu Science and Technology Second Prize".

In summary, the company relied on its relatively strong technical strength and after the implementation of the "High-efficiency Single Crystal Cut". It can be industrialized at a faster speed, and formed in the industry faster.

Competitive advantages help reduce the unit production cost of products and better meet the market's demand for high-performance components.

(3) R&D and information center upgrade construction project

In terms of technology R&D and talent reserve, the company's R&D center currently has an experienced team of more than 600 people. The rich R&D team has formed a R&D team structure of multiple departments. At the same time, the company has many well-known technical experts with industry experience, including members of the National 863 Program Expert Group, IEC (International Electrotechnical Commission) and members of the Australian National Standards Committee, professors from well-known universities at home and abroad. Industry technical experts. In terms of information technology talent reserve, the company has now cultivated a information technology team and management team with high technical level and rich operation experience total more than 90 people.

In summary, the company's richer talent pool in R&D and information technology will be able to guarantee the company's smooth implementation of the R&D and information center upgrade construction project has effectively achieved the project's implementation goals.

7. Necessity for the implementation of fund-raising investment projects

(1) Tongchuan Photovoltaic Power Generation Technology Leading Base Yijun County Tianxing **250MWp** Photovoltaic Power Generation Project

1. Promote technological progress and accelerate the transformation of new achievements

In December 2015, the National Energy Administration clarified the retreat mechanism for photovoltaic electricity price subsidies and issued the "Notice on Promoting on-grid Benchmarking Electricity Price Policy for Onshore Wind Power and Photovoltaic Power Generation", combining industry transformation route has formulated a plan for reducing on-grid electricity prices to achieve a 40% drop in photovoltaic on-grid electricity prices in January 2008, the National Development and Reform Commission and the National Energy Administration jointly issued the "Regarding the Active F", to promote wind power and photovoltaic power generation projects and low-price online trials. Point project construction, and propose specific support policy measures. This shows that the state is supporting clean energy power generation. At the same time, the photovoltaic industry is also required to use technological progress as a substitute for subsidies in order to achieve "parity on the grid" aims.

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The Tongchuan project is a tool to support the development and application of advanced technology in response to the national innovation-driven strategy. In accordance with the implementation of the "Lead Runner" plan for photovoltaic power generation proposed by the National Energy Administration, the purpose of planning and building a leading base is consistent. That is, as a "test field" for the full marketization of new technologies, the role of a bridge for the transformation of achievements, so as to accelerate the progress of photovoltaic power generation technology, promote industry development. The cost of electricity has fallen, gradually getting rid of the dependence on subsidies, and finally achieving the goal of parity on the grid to promote photovoltaic sustainable development of the industry.

2. Project construction can realize a beneficial supplement to energy consumption

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

As the world's largest energy producer and energy consumer, China is facing a sustainable supply of conventional energy. Responding to the dilemma of insufficient capacity. On the one hand, my country's current reserves-to-production ratios of coal, oil and natural gas are 7 In 2015, 17.5 and 38.8, lower than the world average; on the other hand, with the rapid economic growth of our country my country's energy demand has grown rapidly. The total energy consumption has increased from 1.975 billion tons of oil equivalent in 2006. It has grown to 3.132 billion tons of oil equivalent in 2017. Therefore, vigorously develop photovoltaic power generation, wind power generation, etc. Clean energy is to improve my country's energy supply structure, support the long-term sustainable development of my country's economy and guarantee An important means of home energy security.

The current grid energy structure in Shaanxi Province, where the Tongchuan project is implemented, is still dominated by coal-fired power sources After the project is connected to the grid for power generation, it will be calculated based on the thermal power coal consumption (standard coal) 315g/k It can save 109,300 tons of standard coal, which will play a positive role in promoting my country's energy supply structure.

3. Help further advance the national energy development strategy

In today's world, political and economic risks are undergoing a period of profound adjustment, and the relationship between energy supply and demand The impact of the rapid development of economic society, the tightening of energy resource constraints in my country, and the increasingly prominent ecological Adjusting structure, improving energy efficiency, and further guaranteeing energy security are the inevitable path of my country's energy development strategy

The Energy Development Strategy Action Plan (2014-2020) issued by the State Council clearly stated that The strategic policy of "saving, clean and safe" accelerates the construction of a clean, efficient, safe and sustainable modern Chemical energy system. Implement a green and low-carbon strategy, focus on optimizing the energy structure, and take the development of clean and low Adjust the main direction of energy structure. Adhere to the simultaneous development of non-fossil energy and fossil energy efficient and clean utilization Gradually reduce the proportion of coal consumption, increase the proportion of natural gas consumption, and substantially increase wind power, solar energy And other renewable energy and nuclear power consumption ratios, forming a scientific and reasonable energy consumption structure suitable for my country's Construction, greatly reduce energy consumption and emissions, and promote the construction of ecological civilization. "

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After the Tongchuan project is connected to the grid for power generation, it can reduce the emission of a variety of air pollutants each year. About 328,800 tons of carbon, 28.75 tons of carbon monoxide, 1,263.72 tons of nitrogen dioxide, and 1,479.08 tons of soot Tons, which is conducive to increasing the proportion of clean energy consumption and energy efficiency, laying a solid foundation for environmental protection basis.

4. Conducive to the company's improvement of market position and profitability

The Tongchuan project is a national "leading photovoltaic technology project", which is responsible for accelerating the transformation of industry The expectation of shortening the time required for new technologies and new processes from laboratory "possibility" to commercialization "feasibility" In view of the exemplary role of the project, the company used its more advanced technology to use the Tongchuan project as an implementation platform Industry display helps the company consolidate its brand awareness and market position in the industry.

In addition, after the Tongchuan project is connected to the grid for power generation, the company intends to hold it as its own power station for a Add 250MWp of installed capacity of photovoltaic power station. In the first 20 years of the project's operation period, the on-grid electricity price was / kW·h, and it is expected to be 0.3545 yuan/kW·h in the next five years of operation. During the normal operation period of the project, the average The on-grid power generation is approximately 347,0419 million kW·h, the total power generation revenue exceeds 5.8 billion yuan, and the average annual

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. 260 million yuan. It can be seen that after the Tongchuan project is completed, it will improve the profitability of the company.

(2) 3GW high-efficiency single crystal half-cut module project

1. The photovoltaic industry has good development prospects, and there is a strong demand for efficient production capacity

In recent years, the photovoltaic industry technology has made considerable progress. Only in the past few years, my country's photovoltaic system Both the investment cost and the cost per kilowatt-hour have fallen by more than 50%. The rapid increase in the competitiveness of photovoltaic power The commercialization of the photovoltaic industry is becoming more and more mature. Currently in India, the Middle East and parts of South America, After being lower than coal power. In 2018, my country's Qinghai Golmud and Delingha Photovoltaic Leader Base Project won the lowest bid The electricity prices are 0.31 yuan/kW·h and 0.32 yuan/kW·h, which are also lower than the local coal-fired benchmark electricity prices. although In 2018, the National Development and Reform Commission, the Ministry of Finance, and the Energy Administration jointly issued the "Announcement of the Project" has further accelerated industry integration and technological progress, and further promoted the The process of standard realization. In view of this, photovoltaic power generation is gradually becoming a cost-competitive, reliable and sustainable Power source for sustainable development.

According to the forecast updated by SolarPower Europe at the beginning of 2017, In the four years from 2017 to 2020, the newly installed photovoltaic capacity will exceed 350GW. Worldwide accumulated in 2020

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The installed photovoltaic capacity is expected to reach over 700GW; the photovoltaic power generation capacity will reach 7,368TWh in 2040, account 21% of the electricity generated by the ball. In addition, the International Renewable Energy Agency (IRENA) also predicts that by 2030 The cumulative installed capacity of photovoltaics is expected to reach 1,760GW, and the power generation capacity will reach 7% of the global energy An increase of 6 times and an average annual growth rate of 15%.

In summary, the photovoltaic industry has good prospects for development, and the goal of "parity on the grid" of photovoltaic power generation a The demand for efficient production capacity is strong, which will be the new double glass seal after the implementation of the company's The sales of photovoltaic modules with installed, multi-bus grid stacking and cutting technology provide a good external environment.

2. Comply with the national industrial policy and industry technology development direction

As a green energy, photovoltaic power generation can only be truly increased after achieving the goal of "parity on the grid". Replace fossil energy on a large scale. In its "13th Five-Year Plan for Solar Energy Development," the National Energy Administration emphasized that "By 2020, the price of photovoltaic power generation will drop by more than 50% on the basis of 2015. Price online. "At present, my country's photovoltaic industry is at the "last mile" of achieving the goal of "parity grid". The stage. At this stage, the negative problems caused by the growth of scale are also more significant, mainly reflected in low In terms of overcapacity and insufficient high-efficiency production capacity, the backward production capacity takes up more subsidy resources, and the Production capacity is insufficient. The industry urgently needs to accelerate the process of "de-subsidy" through technological progress and industrial up In response to the above issues, the National Development and Reform Commission, the Ministry of Finance and the National Energy Administration jo In the "Notice on Matters Related to Photovoltaic Power Generation in 2018", adjustments and specifications were made. Measures such as establishing scale, accelerating the decline of subsidies, and increasing market-oriented allocation, force the industry to accelerate the It can reserve development space for the application of advanced technology and high-efficiency products.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Face substitution promotes the industry's "parity online" process. Under the guidance of the above-mentioned national top-level strategy, the subsidy dec
Will make the photovoltaic industry more market-oriented, and photovoltaic technology will become a high ground for competition among major photov
If the industry cannot upgrade its technology as soon as possible and develop products with more technological advantages, it will face a disadvantaged
Potential risk.

In addition, downstream customers of the company's photovoltaic modules mainly obtain power generation revenue by holding and operating phot
beneficial. The power generation of photovoltaic modules per unit area per unit time directly determines the customer's power generation revenue
size. Downstream customers tend to purchase photovoltaic modules with higher power to obtain higher power plant investment income
Yield is the inevitable business logic, and the size of power generation and the photoelectric conversion efficiency of solar cells show
Obviously positive correlation.

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In summary, the company has adopted the rapid industrialization of its latest research results through the implementation of this project.
Will enable the company to maintain a competitive advantage in a more market-oriented environment; on the other hand, it will also enable the company
The company's products are more in line with the needs of customers and are of greater significance to the company's future development.

3. The need to achieve the company's strategic development goals

The company is a world-leading provider of integrated photovoltaic smart energy solutions. Its main business architecture includes
Including photovoltaic module product business, photovoltaic system business, and smart energy business, among which photovoltaic module productio
Products have always been an important product of the company.

The company's photovoltaic module power and battery conversion efficiency are in a leading position in the industry, up to now a total of 20 times
Set a world record. In the next three years, in the photovoltaic products business, the company plans to use technological innovation as its future busines
An important driving force for development. On the basis of the technological and product advantages that have been obtained, continue to develop high
Focus on innovation and expansion of high-efficiency battery technology. In addition, the company enjoys a high reputation worldwide
A comprehensive solution provider of photovoltaic smart energy, in 2017, 2018 and 2019,
The company's photovoltaic module shipments rank among the top three in the world. Based on the excellent and reliable quality of the company's prod
Can obtain a large number of orders from downstream customers. Through the implementation of this "High-efficiency Single Crystal Cut Half Module
This will further leverage the company's competitive advantage in the industry chain to achieve coordinated upstream and downstream development; on
It will also enable the company's R&D achievements in the high-power component sector to be industrialized, expanding supply capacity and improving
While achieving market share, upgrade technology and products to provide customers with more efficient photovoltaic system solutions
Solutions to ensure the smooth achievement of the company's strategic goals.

(3) R&D and information center upgrade construction project

The photovoltaic industry is an emerging industry derived from the development of the global economy to a certain stage.
The goal of photovoltaic power generation "on the grid at a fair price" requires a large amount of capital investment to continue to promote technologica
The Third Five-Year Plan will be a critical period for the photovoltaic industry to finally achieve the goal of
The company needs to continue to maintain a relatively high R&D investment in order to grasp the major development opportunities in the industry.
The purpose of this upgrade of the R&D center is to look forward to the industry through the purchase of advanced software and hardware equipment an

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Carrying out planned and step-by-step research and development of sexual topics, making the company's product technology always lead the industry status.

The information center upgrade project aims to address the company's large size, numerous subsidiaries, a relatively complete industrial chain, and Cross-regional operation and other characteristics, through the continuous improvement of the information management platform, the refined management

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Process management, data analysis, etc. gradually cover all aspects of the company's daily operations. R&D and information center rose

The implementation of high-level construction projects can indirectly provide the company with the inflow of economic benefits and reduce the company

The outflow of economic benefits has a positive impact on the company's main business.

(4) Supplementary working capital

1. Improve capital structure and increase profitability

The company currently mainly relies on bank borrowings to meet its capitalized investment and liquidity needs for daily operating activities want. In 2017, 2018 and 2019, the net cash flow from the company's investment activities were

-2,471,147,200 yuan, -182,256,100 yuan and -5,19,964,600 yuan, mainly for the purchase and construction of fixed assets,

Intangible assets and other long-term assets are caused by cash payments. It is expected that the company will invest in capital in the next few years.

There will be greater demand for noodles. In addition, as of the end of 2018, the company's short-term loan book balance was 714,662.61

10,000 yuan, a year-on-year increase of 37.86%; as of the end of 2019, the company's short-term loan book balance was 604,077.49

Ten thousand yuan, mainly to meet the liquidity required for business development. During the reporting period, the company and comparable companies

The financial expense ratio is as follows:

	Comparable company name	2019 Nian	2018 year	2017 year
Financial expense ratio	Yijing Optoelectronics	0.13%	0.38%	0.24%
	GCL Integration	4.07%	3.55%	3.76%
	Oriental Risen	0.91%	0.68%	1.04%
	Comparable company average	1.70%	1.54%	1.68%
	Trina Solar	1.57%	2.64%	2.79%

After the funds raised for supplementing working capital are in place, the company's debt-to-asset ratio will be further reduced.

Optimize the capital structure and reduce interest expenses.

2. Continue to invest in R&D to maintain competitive advantage

The photovoltaic industry in which the company is located has high financial barriers and needs a lot of financial support. With photovoltaics

The photovoltaic industry will become more market-oriented, and the major photovoltaic manufacturers will maintain their technological advantages.

The key to taking the initiative in the competition. In order to continuously improve the technical content and brand advantage of the company's product

Always attach great importance to R&D investment.

In addition to the R&D projects planned to be invested with raised funds this time, the company also has many R&D projects in progress at the same time. As of the end of 2018, the company has undertaken a total of 21 major R&D and ongoing research projects.

The R&D investment in 2018 was RMB 543,347,600; in 2019, the company's R&D investment was RMB 1,331,623,100;

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It is expected that in the future, the company will maintain a relatively high investment in research and development, and the funds raised this time will be in place, it will provide favorable financial support for the company's R&D activities to ensure the company's R&D projects progress smoothly.

3. Provide financial support for the company's business development

In the future, the company will increase its photovoltaic system and smart energy business investment. In terms of photovoltaic system business, the company will expand in Japan, Europe, Latin America, Australia and Southeast Asia. Countries and regions actively develop photovoltaic power station project construction management business, and have accumulated a certain scale of station development resources; in addition, the company will continue to develop high-quality photovoltaic power plant projects in the country, except for the Tongchuan project, the company also won the bid for the Changzhi "Lead Runner" project (250MWp). The company will continue to promote the development of ground-based power stations and industrial and commercial rooftop distributed power stations. On the one hand, the company will adopt an overall solution of energy Internet of Things based on "generation, storage, distribution, utilization, and close cooperation". Users in the region provide efficient, stable and preferential integrated energy services; on the other hand, it will also focus on photovoltaic power plants operation and maintenance upgrade, use the energy Internet to build an intelligent operation and maintenance system to expand the operation of distributed power station's market share.

In summary, the company's business development needs more financial support. Among them, the power station business in the photovoltaic system will increase the company's inventory and the amount of accounts receivable, which will occupy a certain amount of working capital; smart energy business will invest in daily system operation and maintenance and upgrades. After the funds raised for supplementing working capital are in place, it will provide strong financial support for the company's business development and play a positive role in the company's business development goals.

8. Specific arrangements for the key investment of raised funds in the field of technological innovation

Since its establishment, the company has adhered to the mission of "benefiting all mankind with solar energy", and has always been adhering to the core values of "Customers, open minds, go all out, and pursue excellence", with the core values of becoming the world's most trusted solar energy company. Lai He respects the vision of a solar energy company and strives to become the world's leading photovoltaic smart energy and energy material company. The strategic goal of the Internet leader.

The Tongchuan project is a national "Technology Leader" winning bid, and the "Technology Leader" project is a key project. The Source Bureau and related departments proposed that its original intention was to provide a platform for technological innovation for major photovoltaic power stations. Encourage them to increase research and development efforts, focus on the research and development of new technologies and new processes, and use them to put it into practice and verify it, so as to speed up the transformation of new technologies and new processes. In this context, the company took advantage of the trend and verified its more advanced technology in the Tongchuan project, showing the company to the entire industry.

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More powerful technical strength.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Through the implementation of the "High-efficiency Single Crystal Cut Half Module Project", the company will

The rapid industrialization of new technologies to comply with national policy trends and downstream customers' pursuit of higher power plant investment Demand; on the other hand, it has also further reduced production costs through technological transformation of the production process to reduce The outflow of the company's economic interests.

This R&D and information center upgrade construction project focuses not only on the present, but also on the future.

Invest in the future for the present. The upgrade of the R&D center is mainly based on research in three directions, as follows:

Serial number	R&D topics	R&D content and direction
1	High-efficiency solar cells and new component application R&D	The research content of this subject mainly includes high-efficiency battery technology research, high-reliability component technology technical research. Around the photovoltaic industry's demand for low-cost, high-efficiency and high-reliability components, Through continuous breakthroughs in battery key technology and processes, and then improve the performance of component products, And further reduce costs, and further improve the photoelectric conversion efficiency of photovoltaic products; The research content of this subject mainly includes a new generation of smart data for smart energy systems. Characterized terminal equipment and conversion equipment, including digital photovoltaic controller, long life and low
2	Based on power electronics technology smart for distribution and distribution Chemical equipment research	Consistent energy storage battery and standardized energy storage container device, highly reliable energy storage two-way inverter Converter, high-efficiency energy router, high-strength isolation DC/DC converter, energy pipe Multi-energy EMS devices. Specific key new technologies include: novel and efficient main circuit topology architecture, Research on new energy storage batteries, research on new PWM control strategies, based on artificial intelligence, Digital modeling, algorithm optimization and data analysis of edge computing; The research content of this subject includes photovoltaic power generation, wind power generation, biomass power generation, natural Multi-energy complementary integration optimization of smart energy such as gas, heat and power, hydrogen energy and fuel cells
3	Smart energy system integration Optimize R&D and design	R&D and design of key issues; for distributed energy storage (including lithium battery storage and Research on key technologies of smart energy management and control in application scenarios such as heat pump heat storage; smart energy Source standards and system-level testing, planning, optimization and evaluation platform systems and based on large numbers According to the analysis, research and development of smart energy power plant system capability assessment technology;

From the above table, the three directions that the company invested in R&D with raised funds this time all represent the leading photovoltaic smart The development direction of the domain is as follows:

"High-efficiency solar cells and new module application product research and development" will be based on the company's existing photovoltaic Business, focusing on high-efficiency solar cell technology and new low-cost smart photovoltaic power generation technology to carry out technical research Including PERC battery new process development, TopCon technology development and industrialization transfer, perovskite solar cells And other cutting-edge technology research and development. At the same time, technical research is being carried out around new component product technology Surface power generation component preparation technology, new high-reliability tracking support technology, customized design and highly coupled in The converter scheme improves the overall efficiency of the system and greatly reduces the cost of photovoltaic technology.

"Research and development of intelligent devices for generation, storage and distribution based on power electronics technology" is based on the c Integrated business, aiming to improve the company's three-tier energy IoT architecture system of cloud, management, and end, and create core competi

1-1-750

Powerful intelligent products. This will promote the development of my country's energy Internet and realize intelligence

The technology of the device is at the forefront of the world, and its key technical indicators will likely reach the world's leading level.

The research on "Smart Energy System Integration and Optimization R&D and Design" will focus on photovoltaic power generation, wind power ; Intelligent energy systems such as energy, hydrogen energy, etc., based on cloud, large, physical, mobile, and intelligent information and physical technol The smart energy solution with the most core competitiveness. Provide new energy power generation, energy storage micro-grid, multi-energy complem Energy smart planning scheme design, technical consultation, system integration, operation optimization and evaluation of Energy Internet.

In summary, the funds raised by the company's IPO on the Science and Technology Innovation Board will be used for the company's technological

IX. Introduction of the investment project with raised funds

(1) Tongchuan Photovoltaic Power Generation Technology Leading Base Yijun County Tianxing **250MWp** Photovoltaic Power Generation Project

1. Project overview

The Tongchuan project is one of the winning bids for photovoltaic power generation in the national advanced technology photovoltaic power generation project. The project has been shortlisted for the National Photovoltaic "Front Runner" program. The project implementation site is located in Yijun, Tongchuan County, with a total installed capacity of 250MWp. The total investment of the project is RMB 175 million, and the planned area is 9,559 Mu, using photovoltaic composite form. The project will build photovoltaic power generation units, booster stations, transmission lines, and on-site Core facilities such as power collection lines; as well as complex buildings, on-site roads, agricultural greenhouses, agricultural plantings, sightseeing to And other supporting facilities.

2. Project investment budget

The total investment of the Tongchuan project is 1.75 million yuan, and the details are as follows:

Unit: ten thousand yuan			
Serial number	project	Amount	Proportion (%)
1	Land investment	3,138.75	1.79
2	Construction Investment	16,463.47	9.41
3	Equipment investment	122,392.55	69.94
4	other fee	7,289.23	4.16
5	Affiliated comprehensive facilities	18,773.00	10.73
6	Reserve	6,943.00	3.97
	total	175,000.00	100.00

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3. Project organization method and implementation plan

This project is organized and implemented by the issuer's subsidiary Tianxing New Energy, which is divided into five phases: Phase One For the R&D and design stage, it lasted 2 months, mainly to complete the project feasibility study and planning, preliminary design, Construction drawing design; the second stage is the project construction stage, which lasted 5 months, mainly to complete the project and equipment Bidding work; the third stage is the equipment procurement and installation phase, which lasted 4 months, mainly equipment procurement and installatic Installation; the fourth stage is the personnel recruitment and training stage, which lasts for 2 months, mainly according to the needs of operation and ma Personnel and complete personnel training; the fifth stage is the equipment commissioning and trial production stage, which lasts for 7 months and main Production preparation, project trial operation and commissioning, etc.

The project construction funds will be put into use in batches according to the project implementation plan and schedule. This project has been con Preliminary project investigation and demonstration, project site selection, project feasibility study report preparation and project filing, etc.

The implementation progress of the project plan is as follows:

project	T								T+1			
	1	2	3	4	5	6	7	8	9	10	11	12

month month month month month month month month month month month month
R & D design stage
Engineering construction
Equipment procurement and installation
Staff recruitment and training
Equipment debugging and trial production

4. Project site selection and land use

The implementation site of this project is located in Wuli Town, Yunmeng Township and Yaosheng Town, Yijun County, Tongchuan City, Shaanxi. The land area is 9,559 mu, and the corresponding land type is general agricultural land. Among them, 9,539.7 mu is planned to be used for paving Photovoltaic matrix, 19.93 mu is planned to be used for the construction of booster stations and related auxiliary facilities.

As of March 20, 2020, the land use procedures related to the Tongchuan project are being processed. For the matter The Tongchuan project has obtained the "About the Leader of Tongchuan Photovoltaic Technology" issued by the Natural Resources Bureau of Tongchu Approval of the land pre-examination for the 250 MW photovoltaic power generation project in Tianxing, Yijun County, the base" (Copper Natural Resc No.), confirming that the land used in the Tongchuan project meets the requirements of land laws and regulations, and the proposed land meets the Land use master plan. Yijun County Development and Reform Commission, Yijun County Housing and Urban-Rural Development Bureau, and Yijun C Issue a certificate, agreeing to start construction of the Tongchuan project in advance.

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On April 15, 2019, Yijun County Land and Resources Bureau issued a certification document, agreeing to change the aforementioned 9,539.7 1 mu of land is used for laying photovoltaic matrix, 19.93 mu is used for the construction of booster station and auxiliary facilities, During the design process, actively assist the issuer to go through the corresponding photovoltaic review land use approval procedures (photovoltaic mat Land transfer procedures (booster station and related ancillary facilities).

As of March 20, 2020, Tongchuan Project has gone through the approval procedures for compound land or forest land use. Most of the land for the booster station (approximately 15 acres of the 20 acres) has gone through the land transfer procedures and will be released in 20 In October 2010, it signed the "Contract for Assignment of State-owned Construction Land Use Rights" with the Yijun County Natural Resources Burea Obtaining the land certificate before June 2015 and obtaining the real estate certificate before December 2020, there is no substantial obstacle that cannot

5. Project economic benefit analysis

After the project is put into production, it is estimated that the average annual new sales income will be 187,907,700 yuan, and the average annual RMB 92,206,200. The after-tax internal rate of return of this project is 9.74%, and the after-tax investment payback period is 9.57 years.

6. Project environmental protection

The main factors that may affect the environment during the construction period and subsequent operation period of the Tongchuan Project are: wa Soil loss, light pollution of photovoltaic modules and metal components, noise, solid waste, etc. For the above-mentioned possible impact Response factors, the company has taken corresponding measures to make the construction and follow-up Environmental protection regulations. Details are as follows:

During the construction of this project, due to civil construction, photovoltaic panel support foundation excavation, and cable laying excavation The implementation of necessary links such as land filling and leveling of temporary construction facilities may have a certain impact on water and soil

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

influences. In response, the company will take into account the topography and geomorphic conditions of the project construction area, project construct In the construction process, strengthen the temporary protection measures such as blocking and covering of the temporary pile of soil; Land leveling and vegetation restoration measures will be taken in the later stage of construction; drainage system and topsoil stripping will be installed Centralized stacking, land remediation and vegetation restoration measures will be carried out after the completion of the construction; the waste generat The slag will be treated centrally.

In view of the noise that may be generated during the construction of this project, the company will give priority to low-noise equipment and adopt Take noise reduction measures such as sound insulation, vibration reduction and noise reduction to ensure that the noise emission at the factory boundary Acoustic Emission Standard (GB122348-2008) in Class 2 standard requirements.

During the construction period and operation period of the project, the company will strengthen the separate collection and management of various The adverse effects of solid waste on the environment: the damaged photovoltaic modules generated are temporarily stored in the "general waste storage

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"Rooms" are periodically recycled by the manufacturer; for discarded transformer oil and discarded batteries, they are temporarily stored in "Hazardous waste temporary storage room" is entrusted to a qualified unit for disposal; used equipment and waste equipment after the expiration of the c Solar panels are recycled and processed by manufacturers; domestic waste is collected by the local sanitation department.

Bank unified collection and clearing.

As of the signing date of this prospectus, the Tongchuan Project "Environmental Impact Report" has been approved by relevant departments Agree and issue an environmental assessment approval document. For details, please refer to this section "V. Approval and filing of fundraising projects Content in.

(2) 3GW high-efficiency single crystal half-cut module project

1. Project overview

This project plans to build a new double-glass package, multi-busbar stacking and cutting technology in the high-tech zone of Yiwu City, Zhejiang After the project is put into production, the maximum annual production capacity of the photovoltaic module production line will reach 3GW.

2. Project investment budget

The total investment of the "High-efficiency Single Crystal Cut Half Module Project" is RMB 714,814,600. Of which, land investment is 3,305.66 The company will invest RMB 10,000 with its own funds, and the remaining RMB 681,758,000 will be invested with raised funds. Specific as under:

Unit: ten thousand yuan

Serial number	project	Amount		Proportion (%)
		Own capital investment	Raised capital investment	
1	Land investment	3,305.66	-	4.62
2	Construction Investment	-	17,767.80	24.86
3	Equipment investment	-	42,766.00	59.83
4	Software investment	-	309.00	0.43
5	Reserve	-	3,042.00	4.26
6	Liquidity	-	4,291.00	6.00
		3,305.66 (①)	68,175.80 (②)	

29.10.2020	The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.	
	total	100.00
		71,481.46 (① + ②)

3. Project organization method and implementation plan

"High-efficiency single crystal cutting half module project" will be specifically implemented by the company's subsidiary Tianhe Yiwu.

The set period is one year. The construction period of the project is mainly divided into five phases for implementation: the first phase is the R&D and d

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2 months, mainly to complete the project feasibility study and planning, preliminary design, construction drawing design;
 Section is the construction phase of the project, which lasts for 6 months, mainly to complete the site construction work required by the project; the third
 This is the equipment procurement and installation stage, mainly equipment procurement and installation, which lasted 3 months; the fourth stage is equi
 The procurement and installation phases lasted for 2 months, mainly combining the production process with personnel and completing the personnel
 Training; the fifth stage is the equipment debugging and trial production stage, which lasts for 2 months, mainly the preparation of the process flow,
 Project trial operation and commissioning, etc.

The project construction funds will be put into use in batches according to the project implementation plan and schedule. This project has been con
 Preliminary project investigation and demonstration, project site selection, project feasibility study report preparation and project filing, etc.
 The implementation progress of the project plan is as follows:

	T+1
project	. 1 dated 2 dated . 3 dated . 4 dated . 5 dated . 6 dated . 7 dated . 8 dated . 9 dated 10 dated . 11 dated 12 Yue
R & D design stage	
Engineering construction	
Equipment procurement and installation	
Staff recruitment and training	
Equipment debugging and trial production	

4. Project site selection and land use

The implementation site of this "High-efficiency Single Crystal Cut Half Module Project" is the High-tech Zone, Yiwu City, Zhejiang Province. Th
 Obtained the real estate property certificate, the certificate number is Zhejiang (2019) Yiwu Real Estate Property No. 0031731, land
 The area is 131,108.54 square meters, and the land is all industrial land.

5. Project economic benefit analysis

After the "High-efficiency Monocrystalline Cut-to-Half Module Project" reaches production, it is estimated that the average annual sales income w
 The average annual net profit after tax is RMB 130,269,900. The after-tax internal rate of return of this project is 18.85%, and the after-tax investment
 The payback period (including the construction period) is 5.71 years.

6. Project environmental protection

According to the EIA approval document [Jinhuan Jianyi District No. 2019[22]] currently obtained by the company, Trina Yiwu
 The project with an annual output of 3GW high-efficiency single crystal cut-and-half modules, located in Gaoyuan Road, Yiwu Information Optoelectro
 East, south of Haopai Road, north of Longqi Road. The site selection of the project complies with the urban planning and overall land use of Yiwu City

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Planning and related planning of Yiwu City's ecological environment functional zone; the project meets the requirements of relevant industrial policies; The project will implement the various pollution prevention and control measures proposed by the environmental assessment to achieve the discharge of The impact of the project meets the environmental quality requirements corresponding to the environmental function zoning; the project is not built in in Other specific areas stipulated by laws, regulations and rules are not built around important ecological function areas.

The design complies with the principle of environmental protection approval.

(3) R&D and information center upgrade construction project

1. Project overview

The project is mainly divided into two parts: R&D center upgrade project and information center upgrade project. In a nutshell, The project is mainly to introduce advanced software and hardware equipment and counterpart technical personnel to cooperate with the implementation Regarding the upgrade of the development center, a planned and step-by-step study is carried out in advance based on the future development of the indu Continue to maintain the company's technical advantages in the industry; in terms of information center upgrades, it is through continuous The optimization and upgrading of the system improves the information management level of the company's production and operation process.

2. Project investment budget

The total planned investment of this project is 460,191,700 yuan, as follows:

Unit: ten thousand yuan			
Serial number	project	Amount	Proportion (%)
1	Software and hardware equipment investment	39,075.40	84.91
2	Reserve	1,953.77	4.25
3	R&D expenses	1,200.00	2.61
4	staff salary	3,790.00	8.24
	total	46,019.17	100.00

3. Project organization method and implementation plan

The project will be organized and implemented by the company. The construction period is divided into three stages. The first stage is expected to One quarter, the main work is the preliminary inspection and involvement of project construction; the second phase is expected to last 9 quarters, The main work is the procurement, installation and commissioning of various software and hardware equipment in the R&D and information center; the Lasted for 10 quarters, the main work was the introduction and training of counterpart talents, as follows:

project	T				T+1				T+2			
Construction period	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Preliminary investigation and design												

Staff recruitment and training

4. Project site selection and land use

The implementation site of this project is located at No. 2-1, Tianhe Road, Xinbei District, Changzhou City. It has been numbered "Su (2018) Changzhou Real Estate Property Rights No. 0057011" "The People's Republic of China Real Property Rights Certificate", the nature of the land For industrial land.

5. Project economic benefit analysis

The construction of this project is to invest in the present, focus on the future, and identify industry development trends from a strategic perspective. Cooperate with the company's production process, quality control and product development to operate, aiming to attract high-end talents, maintain and Enhance the company's R&D advantages and improve the company's information management level. The economic benefits of the project will be mainly The company's core competitiveness in technological innovation and informatization construction, expanding market share and creating new profits Growth point, thereby indirectly improving the profitability of the company and other aspects.

6. Project environmental protection

During the operation of this project, no industrial production is involved. Therefore, after the project is completed and put into operation, there is no Waste gas and wastewater are generated, and no new domestic sewage is added. However, in the process of project construction, there are equipment packaging Individual solid wastes such as public household waste. Among them, packaging materials can be recycled and office waste The urban sanitation department will uniformly recycle and process, and the impact on the environment is expected to be very limited.

As of the signing date of this prospectus, the "Environmental Impact Report Form" of the R&D and Information Center upgrade construction project Relevant departments have approved and issued environmental assessment approval documents. For details, please refer to "V. Fundraising Projects" in the Approval and filing status".

(4) Supplementary working capital

After the implementation of the changes in this fundraising project, the company intends to use the funds raised from this sci-tech innovation board RMB 1,356,350,300 is used to supplement working capital, which will be mainly used to: ① Improve capital structure and increase profitability Level; ② Continue to invest in R&D and maintain competitive advantage; ③ Provide financial support for the company's business layout, etc. Aspects.

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X. Business development plan

(1) Overall strategic goals

Since its establishment, the company has adhered to the mission of "benefiting all mankind with solar energy", and has always been adhering to the Customers, open minds, go all out, and pursue excellence" core values, with the core values of becoming the world's most trusted Lai He respects the vision of a solar energy company and strives to become the world's leading photovoltaic smart energy and energy material The strategic goal of the Internet leader.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The future direction of energy competition will be the competition between technology and industry in the field of smart energy, and obtain global commanding heights of energy technology and industry are the main goals of Trina Solar's future struggle. As the global photovoltaic industry leading enterprise, the company has always been committed to serving the national strategy and enhancing the global competitiveness of China's industry. Adhere to the development of the photovoltaic module industry as the basis, product innovation as the core, customer-oriented. Occupy the commanding heights of the industry, and always keep pace with the development of the times.

(2) Specific development plans and measures for the next three years

1. General description

In the next three years, the company will continue to consolidate and enhance the brand leadership position of the photovoltaic module business in the industry. Increase the development of photovoltaic system business, and actively explore and innovate in the smart energy business to promote energy development towards low-carbon, decentralized and intelligent direction, lead the development trend of new energy, and strive to become photovoltaic wisdom leader of energy.

2. Development specific goals

(1) Development goals of photovoltaic module business

From the establishment of the company in 1997 to the listing on the New York Stock Exchange in 2006, Trina Solar's business has achieved remarkable results. The accumulation during this period of time laid the foundation for the future development of Trina Solar. A solid foundation has created the company's brand influence. Component production and sales have been a long-term support for the company. The core business of operations will still play an important role in the company's business landscape in the future.

In the future, with the continuous improvement of photovoltaic module product efficiency and the continuous optimization of prices, the company will continue to take technological innovation as an important driving force for business development, focusing on high-efficiency monocrystalline components, high-efficiency innovation and expand energy storage equipment research and development, while paying more attention to automation and intelligence in production. The use of.

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Taking into account the development of the industry and its own production capacity, the company plans to reach approximately 13GW, reaching approximately 28GW by the end of 2021 and approximately 30GW by the end of 2022; the company will continue to maintain the investment in photovoltaic modules will consolidate the company's leading position in the industry. By the end of 2020, the company's planned module production capacity will exceed 20GW, 30GW by the end of 2021, and 40GW by the end of 2022. Further enhance the company's industrialization advantages. Among them, the company's planned production capacity of 210mm large-size modules by the end of 2020, the 210 module capacity will reach about 21GW by the end of 2021, and about 31GW by the end of 2022.

(2) Development goals of photovoltaic system business

In recent years, Trina Solar has continued to increase its investment in innovation, and has achieved superior competition in the previously established market. Based on the current situation, with technological innovation capabilities and business innovation capabilities to create a "global leading photovoltaic system". The company's PV business will continue to promote the company's module business sales and system and comprehensive development and growth of energy service business.

In terms of the international market, the company will rely on several key international PV markets such as Japan, Europe,

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The complete system and mechanism established in Latin America and other regions focuses on the development of power station projects, power station construction management and sales of power station assets; in the domestic market, the company will focus on front-runner power stations and ground-mounted industrial and commercial rooftop distributed power stations, etc., adopt a rolling method of development and transfer. In addition, in 2017, the company took the lead in proposing the concept of original household photovoltaic systems in the industry, and launched a sub-brand for end users — Trina Fortune is committed to promoting the development of household photovoltaic system business. In the future, the company plans to expand and develop more service outlets within the company to provide customers with faster and better services. The company will conduct all-round training with terminal service providers to build the TRW brand.

(3) Smart energy business development goals

Since 2017, Trina Solar has released Trina Energy's Internet of Things brand "TrinaIoT" to explore new energy digital and intelligent transformation of the source, and a number of industry leaders and scientific research institutions, established the Energy Internet Industrial innovation center and development alliance, jointly build an energy Internet of Things ecosystem, and make every effort to promote strategic transformation. A total solution provider is striding forward to a provider of photovoltaic smart energy and energy Internet of Things solutions, and is committed to becoming a leader in the global energy Internet of Things, and continue to build a reliable new energy brand. details as follows:

① Development plan for smart microgrid and energy Internet of Things

Trina Solar is based on the characteristics of regional energy supply and demand and distributed energy consumption on-site, and is customized for the integrated design of the energy Internet of Things solution based on "distribution, storage, distribution, utilization, and cloud" provides users in the

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Provide efficient, stable and preferential integrated energy services.

A. Power generation side

Based on the characteristics of sufficient, safe and clean renewable energy such as solar energy and wind energy, Trina uses natural gas, biomass, etc., to generate electricity. The combined supply of cold, heating and power of biomass energy is used for energy supply coupling to meet the various energy needs of end users. Layout and build an integrated energy supply infrastructure, through hierarchical control and intelligent optimization and regulation, to achieve multi-energy synergy and comprehensive cascade utilization of energy.

B. Energy storage side

Trina Energy Storage has always been customer-oriented, innovative technology as the driving force for development, and insisted on providing customers with products and services with high cost performance. Product and service coverage includes megawatt-level industrial and commercial energy storage solutions, microgrid energy storage system solutions, solar residential off-grid and grid-connected distributed energy storage systems, hand truck energy storage systems, etc. Provide portable energy storage products, communication base station energy storage systems, special power systems and integrated systems for new energy storage solution.

C. Power distribution side

Trina Solar builds an intelligent distribution network through integration optimization and application research on a large number of automation equipment (Can support new energy access) The overall solution to improve the automation level of the distribution network and the safe and reliable power supply performance, such as using modern electronic technology, communication technology and computer technology to achieve intelligent distribution network.

The collection and integrated processing of information such as the structure, so as to construct a complete new energy power automation system, and realize the intelligent operation and maintenance of the power system.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The protection and control automation of the line under normal operation, overhaul operation and accident handling of power grid and power distribution. In this way, the entire distribution network operation is secured.

D. Energy use side

Trina Solar is looking forward to the opportunity of the times, focusing on users, actively carrying out demand-side management, and developing e Substation, charging pile and other businesses. The company has established a new energy power demand-side management platform based on local con Users provide multiple services such as economic analysis, power supply and demand situation analysis, orderly power management, and demand respo Support investment and financing services, government and social capital cooperation projects (PPP) financing construction. At the same time, Trina Power electronics converter industry is the leading one, integrating scientific research and development, technical consultation, equipment development, Service as a whole, engaged in power quality control equipment, flexible AC/DC transmission and distribution equipment, new energy power conversion Research and development of high-tech products such as equipment.

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E. Cloud platform

Trina Solar has a strong background in the new energy industry and adheres to the cooperation strategy of "openness, mutual benefit and win-win" Strategy, based on energy big data, cloud platform as the support, energy users as the core, using the Internet of Things and the Internet Technology runs through the online and offline value chain and the entire industrial chain of the energy industry, building photovoltaic clouds, energy st Operation and maintenance cloud, energy efficiency cloud, power sales cloud and other application platforms, actively build an energy Internet ecosyste And energy users to provide a full range of energy technical support and services to help Trina Solar to achieve intelligence and digital Transformation. In the short term, the development of the platform is relatively focused, and the main directions are the operation and maintenance clou Platform construction and iterative development, perfect the photovoltaic cloud function, and iterate and update according to internal and external needs Application platforms such as energy storage cloud, charging cloud, and sales cloud will be dynamically adjusted according to market development and priority.

In the "Internet +" smart energy demonstration project for integrated energy management in Hefei Xinzhan High-tech Zone, Trina will Effectively implement new technologies, new designs, and new concepts, relying on the local endowment of multiple renewable energy resources, and c Exhibition of energy points such as rooftop photovoltaic, natural gas distributed trigeneration, heat pump, phase change energy storage, etc., through the Complement each other to realize the energy supply of cold, heat, electricity, and hot water in the entire region. At the same time, the company relies on The multi-layer information platform of the Internet of Things finally realizes the "source, network, load, and storage" energy within and across regions Scheduling and optimization, successfully demonstrated Trina Energy's industry-wide leading position in the Internet of Things, and used this to boost n Side energy reform.

② Power plant operation and maintenance upgrade

The operation and maintenance of power stations that cooperate with the company's electricity sales business will also be the company's key busine The company's operation and maintenance power stations are about 1.2 GW, mainly centralized power stations and large industrial and commercial pow Energy Internet thinking, build an intelligent operation and maintenance system to expand the market share of the operation and maintenance of distribut

Intelligent operation and maintenance will realize the intelligent production process through the comprehensive application of big data, Internet of The goal of intelligent operation and maintenance management is to realize the operation and maintenance of power stations with fewer or unattended pe

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. And big data analysis system to realize multi-level power station intelligent early warning and remote monitoring and diagnosis, to realize preventive maintenance. Actively tap low-efficiency devices to optimize resource utilization of power stations.

3. Soft power improvement plan

In order to cooperate with the company's business department to achieve the above development plan, the company has formulated specific plans. The goal is to better support business plans and meet company needs.

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(1) Human resource plan

In accordance with future development strategies and business plans, the company insists on "in order to improve organizational capabilities, optimize organizational structure, and carry out the motivational concept of co-creation, sharing and sharing, and adhere to the human resource management approach driven by Tianhe's culture. To ensure the implementation of the company's strategy and the realization of strategic goals. The specific plan includes:

① Building first-class organizational capabilities

Building first-class organizational capabilities requires clearly setting performance goals for each department based on the company's strategic plan and key tasks, build core capabilities, optimize organizational capabilities in line with strategy, clarify organizational structure, and reform management process to advance the process to improve speed and efficiency. At the same time, the company needs to further strengthen organizational coordination and resource integration. The learning organization effectively empowers employees. The company maintains the industry or field's leading position, continuously improve organizational efficiency and per capita contribution rate, in order to deepen TRW's organizational reform and innovation. The idea of real value creation and self-driven organization.

② Optimize the talent structure of Tianhe

In the future, the company will reserve and train professional talent teams according to business development needs to attract more global talents support the company's market globalization, production capacity globalization, capital globalization and innovation globalization. The company will also attract more intelligent and software development talents according to its business development goals to support the company's digital transformation of manufacturing, operation management, and business in new areas of energy Internet of Things. The company will continue to attract outstanding young talents join TRW, more actively identify and appoint outstanding young managers to ensure TRW's development is full of vitality. The company continues to deepen its global employer quality on top of the established excellent employer brand. Brand recognition and reputation can more effectively attract outstanding talents to join TRW. The training system of Tianhe University can constantly broaden employees' horizons and improve their skills, so that employees can achieve better results while gaining personal growth. High performance.

③ Implement the motivation concept of co-creation, sharing and sharing

The company uses employee shareholding and excess profit sharing to make the core management team and business partners jointly develop, create value, share risks, and share success. This motivational concept makes the core management team a business partner for company development.

(2) Brand building plan

Brand building is one of Trina Solar's core strategies. After more than 20 years of intensive cultivation, Trina Solar

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Relying on solid brand building foundation, outstanding brand independent innovation ability, and perfect brand service system development Become a well-known and influential photovoltaic brand at home and abroad. In 2017, Trina Solar released the industry's first The original household photovoltaic brand "Tianhe Fujia" is committed to the realization of the "Millions of Photovoltaic Roof Plan". 2018 year Trina Solar took the lead in launching the Trina Energy Internet of Things "TrinaIOT" brand

The new era goal of "the leader of the global energy Internet of Things" has taken another solid step. By the end of 2018, Trina Solar Able to win the "China Industry Award" for its outstanding performance in technological innovation, high-quality development and green environmental "Enterprise Award" has become the first photovoltaic enterprise to receive this honor.

Trina Solar takes products and solutions with strong comprehensive competitiveness as the cornerstone, through precise communication and A good customer experience continues to enhance the visibility, loyalty and reputation of the Tianhe brand. In the established brand Strengthen the core value of the brand, enhance the brand equity on the basis of influence, rely on the business to consolidate the brand, and rely on the t Expand business and build Trina Solar into a global leader in the photovoltaic industry and the field of energy Internet of Things Leader.

(3) Assumptions based on the above plans and development plans and goals

The assumptions based on the above plans and development plans and goals of the company are as follows:

1. There are no major changes in the current national and local laws, regulations and economic policies that the company follows;
2. The country's macro-economy will not experience the unpredictable violent turbulence under the current background;
3. The company's stock issuance and listing can be successful, and the funds raised are in place;
4. The investment projects with raised funds can be implemented smoothly and achieve expected returns;
5. The company's industry and market environment will not deteriorate significantly;
6. The company has no major business decision-making errors and personnel changes that could seriously affect the normal operation of the compa
7. There will be no emergencies or other force majeure that will cause major adverse effects on the company's normal operations

Force factor.

(4) Major difficulties faced in drafting development plans and goals

1. Pressure of capital demand

The implementation of the company's development strategy and various specific business development plans requires a large amount of capital inv The current photovoltaic industry market is a fully competitive market. Before the funds raised are in place, the company's business development

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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Funds needed basically rely on its own funds, commercial credit and bank loans. If the company cannot raise funds in time Gold is used to expand production capacity, improve technical level and research and development capabilities, which may bring certain benefits to the company. Negative impact. Therefore, whether it is possible to use the capital market to quickly raise a large amount of funds through public issuance of shares, It is the key to the company's sustainable and rapid development.

2. Restriction of talent shortage

The company will be in a stage of rapid development in the next few years, the scale of production and operation will continue to expand, and the business will further evolve, and businesses in the photovoltaic system business and smart energy integrated services will continue to grow. Some human resources and talent reserves will not meet the needs of the company's rapid development. The demand for talents will increase significantly. In order to maintain the company's sustainable development ability, consolidate and maintain in the industry. The company needs to introduce and reserve talents that meet the company's business needs in a timely manner.

3. The impact of possible adverse changes in the market environment

As a photovoltaic module manufacturer and photovoltaic power station operation manager, the company has a strong core competitive advantage. It is in an advantageous position in the industry, but the overall development of the photovoltaic industry supports the macroeconomic situation and national intensive dependence is high, and the market conditions of the photovoltaic industry may have a direct impact on the company's production and operation.

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Section 10 Investor Protection

1. Main arrangements for investor management

(1) Information disclosure system and process

1. The main content of the information disclosure system

The company shall comply with laws, administrative regulations, departmental rules, and the "Shanghai Stock Exchange Science and Technology Information Disclosure Rules."

29.10.2020 The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Regulations and other relevant regulations issued by the stock exchange where the company's listed

Reveal obligations.

The company shall disclose information truthfully, accurately, completely and in a timely manner. There shall be no false records or misleading sta

Or major omissions. The company shall publicly disclose information to all investors at the same time.

The directors, supervisors and senior managers of the company shall perform their duties faithfully and diligently, and ensure that the disclosure let

The information is true, accurate, complete, timely and fair. It cannot be guaranteed that the content of the announcement is true, accurate and complete,

A corresponding statement and reasons should be made in the announcement.

The directors, supervisors, senior managers and other insiders of the company shall, before disclosing the information,

The insiders of the company should be kept within the minimum range, the company's internal information should not be leaked, and insider trading or c

Cooperate with others to manipulate stock trading prices.

The company's board of directors unifies the leadership and management of information disclosure, and the chairman is the first person responsible

The secretary of the board of directors is the main person responsible for information disclosure and is responsible for the management of information di

2. The main process of information disclosure

The company's information disclosure report is held by the directors, board secretary and relevant senior management personnel to confirm

Set the disclosure time, formulate a preparation plan, and senior management personnel such as the general manager, financial officer, and board secreta

Organize all relevant departments to draft drafts according to the preparation plan, and after the company's general manager's office, directors, supervisc

Announcement after management confirmation and approval.

(2) The establishment of investor communication channels

The company's information disclosure department and related personnel are as follows:

Department responsible for information disclosure	Office of the Board of Directors
Board secretary	Wu Qun
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Trina Solar Co., Ltd.	Prospectus
contact address	No. 2, Tianhe Road, Tianhe Photovoltaic Industrial Park, Xinbei District, Changzhou
Contact person	Wu Qun
phone	0519-81588826
fax	0519-85176003
URL	http://www.trinasolar.com/cn
email	IR@trinasolar.com

(3) Plans for future investor management

1. The requirements of investors for obtaining company information shall be in compliance with laws and regulations and the Articles of Associati

The company will try its best to satisfy;

2. For investors' inquiries on the company's business and other conditions, in compliance with laws and regulations and the "Company

Under the premise that the Articles of Association (Draft) does not involve the company's business secrets, the board secretary is responsible for answer

complex;

3. Establish a complete data custody system, collect and properly keep the data that investors are entitled to

Investors can obtain required information in a timely manner in accordance with relevant laws and regulations;

4. Strengthen the training of relevant personnel to ensure the quality of service work from personnel.

2. The dividend distribution policy after the public offering

According to the review and approval of the company's second extraordinary general meeting of shareholders in 2019, the After the listing, the company's dividend distribution policy is as follows:

(1) Principles of profit distribution

The company implements a continuous and stable profit distribution policy. The company's profit distribution should pay attention to reasonable ir Return on capital, fully consider and extensively listen to the requirements and wishes of independent directors, supervisors and shareholders, and adopt Stable dividend distribution policy.

(2) Form of profit distribution

The company uses cash, stocks or other methods prescribed by laws and regulations to distribute dividends. Cash dividend method Priority to stock dividend method.

(3) The interval of dividend distribution

In the case of meeting the conditions for cash dividends, the company will, in principle, pay cash dividends once a year.

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According to the company's profitability and capital needs, the meeting can propose the company to issue interim cash dividends.

Under the premise that the minimum cash dividend ratio and the company's equity scale and equity structure are reasonable, the company Real and reasonable factors such as growth, dilution of net assets per share, matching of the company's stock price and the company's share capital Starting off, the company can separately adopt the method of stock dividend distribution according to the annual profitability and cash flow situation Profit distribution will be carried out.

(4) Specific conditions and proportions for the distribution of cash dividends and stock dividends

When the company has the conditions for cash dividend distribution, it shall adopt cash dividend distribution for profit distribution. the company The specific conditions for implementing cash dividends are:

1. The distributable profit realized by the company in the year or half of the year (that is, the company makes up for losses and withdraws the provi The remaining after-tax profits) are positive and have sufficient cash flow. The implementation of cash dividends will not affect the company's subseque Continue to operate;

2. The company's cumulative profit available for distribution is positive;

3. The audit agency issued a standard unqualified audit report on the company's annual financial report (semi- Annual profit distribution shall be implemented in accordance with relevant regulations);

4. The company has no major investment plans or major cash expenditures.

Major investment plans or major cash expenditures refer to: the company intends to invest or acquire overseas within the next twelve months

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The cumulative expenditure on assets or equipment purchased reaches or exceeds 50% of the company's most recent audited net assets and is absolutely The amount exceeds 50 million yuan; or the company intends to invest, acquire assets or purchase equipment in the next twelve months The accumulated expenditure reaches or exceeds 30% of the company's most recent audited total assets.

If the company has the conditions for cash dividend distribution, the company's annual profit distribution in cash shall not be less than the realized 10% of the profit available for distribution, and the cumulative distribution of profits in cash in the last three years is not less than the last three years 30% of the realized annual distributable profit. After the implementation of dividends, the company's retained undistributed profits will be mainly used for Daily production and operation, working capital needed for research and development, etc.

If the company has the conditions for cash dividend distribution and the board of directors has not made a cash distribution plan, it shall report in the The independent directors shall express independent opinions on the reasons for disclosure.

When the company proposes a distribution plan combining cash dividends and stock dividends, the board of directors shall comprehensively consider Industry characteristics, development stage, own business model, profitability and whether there are major capital expenditure arrangements

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Trina Solar Co., Ltd.

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The basic principles are as follows:

1. If the company's development stage is in a mature period and there is no major capital expenditure arrangement, when the profit is distributed, the minimum proportion of gold dividends in this profit distribution should reach 80%;
2. If the company's development stage is in a mature period and there are major capital expenditure arrangements, when the profit is distributed, the minimum proportion of gold dividends in this profit distribution should reach 40%;
3. If the company's development stage is in the growth period and there are major capital expenditure arrangements, when the profit is distributed, the minimum proportion of gold dividends in this profit distribution should reach 20%.

(5) Decision-making procedures for profit distribution policies

The company's annual profit distribution plan is determined by the board of directors in accordance with the provisions of the Articles of Association. The situation, capital supply and demand situation are proposed and formulated. When the board of directors deliberates on the specific plan for cash dividend Really study and demonstrate the company's cash dividend timing, conditions and minimum ratio, adjustment conditions and decision-making procedures. Please wait for matters. Independent directors shall review the profit distribution plan and issue independent and clear opinions. Board of Directors When deliberating and formulating profit distribution related policies, it must be approved by a majority vote of all directors before submitting to the general Deliberate. The profit distribution policy shall be submitted to the board of supervisors for review and approval by more than half of the supervisors, the The profit distribution plan provides review opinions. After review and approval by the board of directors, independent directors and the board of supervisors The distribution policy is submitted to the company's general meeting of shareholders for review and approval.

Independent directors may solicit the opinions of concentrated minority shareholders, propose dividend proposals, and directly submit them to the general

Before the general meeting of shareholders deliberates on the specific cash dividend plan, it should proactively communicate with shareholders through Communicate and communicate with small and medium shareholders, including but not limited to telephone, fax and email communication or inviting shareholders Participate in the meeting, etc., fully listen to the opinions and demands of small and medium shareholders, and respond promptly to their concerns. question.

When deliberating the profit distribution policy at the general meeting of shareholders, the

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. East agent) more than two-thirds of the voting rights held by the vote.

(6) Adjustment of profit distribution policy

The company shall strictly implement the cash dividend policy as determined by the company's articles of association and those approved by the general shareholders meeting. The specific plan for cash dividend distribution. According to the company's production and operation conditions, investment rules and long-term development. If there is a change in the external business environment and it is really necessary to adjust the profit distribution policy, the adjusted profit distribution plan shall be submitted to the general shareholders meeting for approval.

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Prospectus

Violating the relevant regulations of the China Securities Regulatory Commission and the Shanghai Stock Exchange. The adjustment of profit distribution policy shall be in accordance with the provisions of Section "2.5 Decision-making procedure of profit distribution policy".

(7) Disclosure of profit distribution policy

The company shall disclose in detail the formulation and implementation of the profit distribution policy in the annual report, and explain whether it complies with the provisions of the company's articles of association or the requirements of the shareholders meeting resolution; whether the dividend distribution plan is reasonable; whether the relevant decision-making procedures and mechanisms are complete; whether independent directors perform their duties and perform their duties; whether small and medium shareholders have sufficient opportunities to express their opinions and demands, and whether the legitimate rights and interests of shareholders are protected etc. If it involves adjustments or changes to the profit distribution policy, the adjustments or changes shall also be explained in detail. Whether the files and procedures are compliant and transparent.

Due to special circumstances, the company cannot determine the current cash dividend policy or the minimum cash dividend ratio. In the annual profit distribution plan, the company shall disclose the specific reasons in the announcement of the board of directors' resolutions and the special explanations will be made on the exact use of the company's retained earnings and expected investment income, which will be published by independent directors. The opinions shall be submitted to the shareholders meeting for deliberation.

The company's board of supervisors shall supervise the information disclosure of the company's profit distribution policy.

3. Research and demonstration procedures and decision-making mechanisms for the company to formulate or adjust profit distribution policy

1. When the company formulates or adjusts the profit distribution policy, it should take the protection of shareholders' rights as the starting point, and fully listen to the opinions of independent directors, supervisors and small and medium shareholders. It will demonstrate and explain the reasons in detail, and fully listen to the opinions of independent directors, supervisors and small and medium shareholders. Force majeure such as wars and natural disasters, and changes in the external operating environment have a major impact on the company's production and operation. The current profit distribution policy cannot be implemented due to major changes in its own business conditions, or the right to adjust the profit distribution policy. When the department promulgates and implements new regulations related to profit distribution and the company's profit distribution policy must be revised. Adjust the profit distribution policy in time. The adjusted profit distribution policy shall not violate relevant laws, regulations and Chinese certificates. Regarding the relevant regulations of the supervisory committee and the stock exchange, the board of directors shall demonstrate in detail and explain the reasons.

The company shall, in accordance with the law, answer investor calls, company public mailboxes, online platforms, and hold investor meetings. Proactively communicate with independent directors, shareholders, especially small and medium shareholders through various channels such as face-to-face communication. Establish the opinions of directors and shareholders on the adjustment of the company's profit distribution policy, and the board of directors is demonstrated. Should fully consider the opinions of small and medium shareholders.

2. The company shall strictly implement the cash dividend policy determined by the company's articles of association and the approval of the shareholders meeting. The specific plan for cash dividend distribution. According to the company's production and operation conditions, investment rules and long-term development.

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If the external business environment changes and the profit distribution policy needs to be adjusted, the adjusted profit distribution policy is not It may violate the relevant regulations of the China Securities Regulatory Commission and the Shanghai Stock Exchange.

After the company ends each fiscal year, the board of directors proposes a dividend distribution proposal, which is reviewed and approved by the g Over. The company accepts all shareholders, independent directors, supervisors and public investors' suggestions and supervision on company dividends

4. The difference in dividend distribution policies before and after the issuance and the accumulated profits before the issuance Distribution arrangements and decision-making procedures

Prior to this issuance, the company's articles of association made principled provisions in accordance with the requirements of the "Company Law" The effective company's articles of association (draft) stipulate in detail the distribution of dividends.

By the resolution of the company's second extraordinary general meeting of shareholders in 2019, the company's accumulated profits formed before It will be shared by new and old shareholders after the issuance.

V. Establishment of the issuer's shareholder voting mechanism

The company adopted the "Articles of Association (Draft)" to elect the company's directors and supervisors on the cumulative voting system. Small and medium-sized investors separate vote counting and other mechanisms and provide online voting and other methods to facilitate shareholders t The decision and other content have been stipulated.

(1) Cumulative voting mechanism

When the general meeting of shareholders votes on the election of directors and supervisors, in accordance with the "Articles of Association (Draft) Or the resolution of the general meeting of shareholders may implement the cumulative voting system; a single shareholder and its concerted parties hav If the proportion of shares is 30% or more, the cumulative voting system shall be adopted.

The cumulative voting system means that when the general meeting of shareholders elects directors or supervisors, each share has and should be el The voting rights of the same number of supervisors can be used collectively. The board of directors Announce the resumes and basic information of candidate directors and supervisors.

(2) Separate vote counting mechanism for small and medium investors

When the general meeting of shareholders deliberates on major issues that affect the interests of small and medium investors, it shall vote on small Single vote. The results of the individual vote counting shall be publicly disclosed in a timely manner.

(3) Arrangements for online voting

The company shall, on the premise of ensuring the legality and effectiveness of the general meeting of shareholders, adopt various methods and ch

Trina Solar Co., Ltd.

Prospectus

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Modern information technology such as online voting platforms provide convenience for shareholders to participate in general meetings.

(4) Related arrangements for soliciting voting rights

The board of directors, independent directors and shareholders meeting relevant regulations may publicly solicit shareholder voting rights. Call for Eastern voting rights shall fully disclose specific voting intentions and other information to the solicited. It is forbidden to have paid or disguised Solicit shareholders' voting rights. The company shall not impose restrictions on the minimum shareholding ratio for the solicitation of voting rights.

6. Important commitments of relevant institutions or personnel of this issuance

(1) Commitments regarding restrictions on share circulation and voluntary lock-up

1. Controlling shareholder and actual controller

As the controlling shareholder and actual controller of Trina Solar Co., Ltd., Gao Jifan solemnly promises as follows:

(1) I shall not transfer the company's shares within 36 months from the date of listing and trading on the stock exchange or Entrust others to manage the company's shares directly or indirectly held by me, and the company will not purchase such shares.

(2) If the closing price of the company's stock is lower than the issue price for 20 consecutive trading days within 6 months after listing, Or the closing price at the end of the 6-month period after listing (if that day is not a trading day, it will be the first trading day after that day) Below the issue price, the lock-up period of the company's stock held by me will be automatically extended for 6 months; if there are dividends, bonus s For ex-rights and ex-dividend matters such as the conversion of capital reserves to share capital and allotments, the above-mentioned issue price shall be

(3) During my tenure in the company, I will report to the company the changes in the company's shares held. If the laws, regulations and policies change in the future, I promise to strictly follow the changed requirements Share lock-up period.

(4) After the above-mentioned lock-up period expires, the number of shares transferred each year during the tenure shall not exceed the Twenty-five percent of the company's total shares; the company's shares held by me will not be transferred within 6 months after leaving the company.

(5) If I violate the above commitment and cause losses to the company or related parties, I am willing to bear the corresponding Legal liability.

2. The controlling shareholder and actual controller acting in concert

Wu Chunyan, Youze Technology, Changzhou Ruichuang, Changzhou Xiechuang, Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianch Panji Investment, Trina Star Yuan and Qinghai Investment as the controlling shareholder and actual control of Trina Solar Co., Ltd. Gao Jifan, acting in concert, solemnly promises the following:

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(1) I/the company shall not be listed within 36 months from the date when the company's shares are listed on the stock exchange. Transfer or entrust others to manage the company's shares held directly or indirectly by myself/the company will not be collected by the company Purchase this part of the shares.

(2) If the closing price of the company's stock is lower than the issue price for 20 consecutive trading days within 6 months after listing, Or the closing price at the end of the 6-month period after listing (if that day is not a trading day, it will be the first trading day after that day) Below the issue price, the lock-up period of the company's stock held by me/the company is automatically extended for 6 months; if there is a dividend,

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

For ex-rights and ex-dividend matters such as bonus shares, capitalization of capital reserves, and allotments, the above-mentioned issue price shall be adjusted.

(3) During my tenure in the company (applicable to natural persons), I will declare to the company the company I hold Changes in shares.

(4) I/the company will strictly abide by the relevant provisions of laws, regulations and policies, such as laws, regulations and policies. If the policy regulations change in the future, I/the company promises to strictly follow the changed requirements to determine the share lock Set a deadline.

(5) If I/the company violates the above commitments and causes losses to the company or related parties, I/the company The industry is willing to bear corresponding legal responsibilities.

3. Other shareholders

Xingyin Growth, Hongyu Investment, Rongqi Investment, Dangtu Reliance, Jingmin Investment, Zhuhai Qisheng, Xingjing Investment Capital, Tiankun Investment, Horgos Qisheng, Changchuang Investment, CDH Hongtao, Herun Investment, Yuanhui Investment, Real As a shareholder of Trina Solar Co., Ltd., Xiao Investment solemnly promises:

The company's shares shall not be transferred or appointed within 12 months from the date when the company's shares are listed and traded on the Entrust others to manage the company's shares directly or indirectly held by the company, and the company will not purchase such shares. Such as If laws, regulations and policies change in the future, the company promises to strictly follow the changed requirements Share lock-up period.

If the company violates the above commitments and causes losses to the company or related parties, the company is willing to bear the corresponding legal liability.

4. If Gao Jifan's relatives hold the issuer's shares, the lock-up promise made by Gao Jifan himself

(1) Gao Jiqing

As the controlling shareholder, chairman, general manager and actual controller of Trina Solar Co., Ltd.

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Ji Fan's relatives solemnly promise as follows:

① I shall not transfer or appoint the company's shares within 36 months from the date of listing and trading on the stock exchange. Entrust others to manage the company's shares directly or indirectly held by me, and the company shall not purchase such shares.

② If the closing price of the company's stock is lower than the issue price for 20 consecutive trading days within 6 months after listing, or The closing price at the end of the 6-month period after listing (if that day is not a trading day, then the first trading day after that day) is low At the issue price, the lock-up period of the company's stock held by me is automatically extended for 6 months; if there are dividends, bonus shares, capital For ex-rights and ex-dividend matters such as the conversion of the capital reserve to share capital and allotment, the above issue price shall be adjusted

③ During my tenure in the company, I will report to the company the changes in the company's shares held. Follow the law If laws, regulations and policies change in the future, I promise to determine the shares strictly in accordance with the changed requirements Lock period.

④ After the above lock-up period expires, the number of shares transferred each year during the tenure shall not exceed the company held by me

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Twenty-five percent of the total number of shares; the shares of the company held by me shall not be transferred within 6 months after resignation.

⑤ If I violate the above commitment and cause losses to the company or related parties, I am willing to bear the corresponding legal responsibility.

(2) Gao Haichun

As the controlling shareholder, chairman, general manager and actual controller of Trina Solar Co., Ltd.

Ji Fan's relatives solemnly promise as follows:

① I shall not transfer or appoint the company's shares within 36 months from the date of listing and trading on the stock exchange. Entrust others to manage the company's shares directly or indirectly held by me, and the company shall not purchase such shares.

② If the closing price of the company's stock is lower than the issue price for 20 consecutive trading days within 6 months after listing, or The closing price at the end of the 6-month period after listing (if that day is not a trading day, then the first trading day after that day) is low At the issue price, the lock-up period of the company's stock held by me is automatically extended for 6 months; if there are dividends, bonus shares, cap For ex-rights and ex-dividend matters such as the conversion of the capital reserve to share capital and allotment, the above issue price shall be adjusted

③ If I violate the above commitment and cause losses to the company or related parties, I am willing to bear the corresponding legal responsibility.

(3) Wu Weizhong

As the controlling shareholder, chairman, general manager and actual controller of Trina Solar Co., Ltd.

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Trina Solar Co., Ltd.

Prospectus

Ji Fan's relatives solemnly promise as follows:

① I shall not transfer or appoint the company's shares within 36 months from the date of listing and trading on the stock exchange. Entrust others to manage the company's shares directly or indirectly held by me, and the company shall not purchase such shares.

② If the closing price of the company's stock is lower than the issue price for 20 consecutive trading days within 6 months after listing, or The closing price at the end of the 6-month period after listing (if that day is not a trading day, then the first trading day after that day) is low At the issue price, the lock-up period of the company's stock held by me is automatically extended for 6 months; if there are dividends, bonus shares, cap For ex-rights and ex-dividend matters such as the conversion of the capital reserve to share capital and allotment, the above issue price shall be adjusted

③ If I violate the above commitment and cause losses to the company or related parties, I am willing to bear the corresponding legal responsibility.

(4) Wu Weifeng

As the controlling shareholder, chairman, general manager and actual controller of Trina Solar Co., Ltd.

Ji Fan's relatives solemnly promise as follows:

① I shall not transfer or appoint the company's shares within 36 months from the date of listing and trading on the stock exchange. Entrust others to manage the company's shares directly or indirectly held by me, and the company shall not purchase such shares.

② If the closing price of the company's stock is lower than the issue price for 20 consecutive trading days within 6 months after listing, or The closing price at the end of the 6-month period after listing (if that day is not a trading day, then the first trading day after that day) is low

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. At the issue price, the lock-up period of the company's stock held by me is automatically extended for 6 months; if there are dividends, bonus shares, capital increase, etc. For ex-rights and ex-dividend matters such as the conversion of the capital reserve to share capital and allotment, the above issue price shall be adjusted.

③ If I violate the above commitment and cause losses to the company or related parties, I am willing to bear the corresponding legal responsibility.

(2) Commitment regarding shareholding and intention to reduce shareholding

1. Controlling shareholder and actual controller

As the controlling shareholder and actual controller of Trina Solar Co., Ltd., Gao Jifan promises:

(1) If after the lock-up period expires, if I plan to reduce my holdings, I will seriously comply with the

Regarding the relevant regulations on shareholder reduction, review the company's needs for stock price stabilization, business operations, and capital of the company. Carefully formulate stock reduction plans and gradually reduce stock holdings after the stock lock-up period expires.

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(2) The method of reducing the company's stock holdings shall comply with the relevant laws, regulations and rules.

(3) Before I reduce my shareholding of the company, I should make an announcement three trading days in advance, and the company shall timely and accurately fulfill the obligation of information disclosure.

(4) If within two years of the expiration of the lock-up period, if I plan to reduce my holdings, the price of my holdings shall be reduced (if Ex-rights or ex-dividends for reasons such as cash dividends, bonus shares, capital increase, additional issuance of new shares, etc. According to the relevant provisions of the stock exchange, the rights shall be restored) not lower than the issue price of the company's initial public offering. Within two years after the expiration of the lock-up period, the total number of company shares that I hold each year shall not exceed the maximum amount of 25% of the total number of shares registered in my name on the next trading day. Due to the company's equity distribution and capital reduction, if the shares etc. lead to changes in the shares held by me, the quota for transferable shares in the corresponding year shall be changed accordingly.

(5) The company has regulations in Chapter 12, Section 2 of the "Shanghai Stock Exchange Science and Technology Innovation Board Stock Listing Rules". If the specified major violation of the law meets the delisting standard, the relevant administrative penalty decision or judicial decision shall be made. From the date to the termination of the company's stock listing, I and my concerted parties will not reduce their holdings of the company's stock.

(6) If I fail to fulfill the above undertakings, ① the remaining shares of the company shall be sold. The shareholding reduction shall not be allowed within 6 months from the date of the above-mentioned share reduction intention; ② I have obtained the consent of the company. The proceeds belong to the company.

(7) If after the lock-up period expires, if I intend to reduce my holdings of the issuer's shares, I will seriously comply with the relevant provisions of the stock exchange regarding the reduction of shareholders' holdings shall prudently formulate stock reduction plans. I am hereby committed. After the expiration of the stock lock-up period, priority will be given to other sources of repayment, and the company will give Comprehensive consideration of factors such as the cooperation conditions of other financial institutions, the company's performance growth by then, and the company's needs. On the basis of lawful compliance, reduce holdings of part of the issuer's shares in a timely manner, reasonably arrange loan repayments, and reduce holdings. The route is mainly used to repay the principal and interest of the loan.

(8) If relevant regulatory rules no longer require the content of a certain promise, the corresponding part

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. termination. If the relevant regulatory rules impose new regulations on the lock-up or reduction of shares of listed companies, then I and myself Of those acting in concert will implement the latest regulatory rules applicable at that time when locking or reducing their holdings of company stocks.

2. The controlling shareholder and actual controller acting in concert

Wu Chunyan, Youze Technology, Changzhou Ruichuang, Changzhou Xiechuang, Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianch Panji Investment, Trina Star Yuan, and Qinghai Investment are the controlling shareholder and actual controller of Trina Solar Co., Ltd.

Gao Jifan's person acting in concert promises that during his time as Gao Jifan's person acting in concert:

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(1) If after the expiration of the lock-up period, I/the company intends to reduce stocks, I will seriously comply with the The exchange's relevant regulations on shareholder reduction, combined with the company's needs for stabilizing stock prices, conducting operations, at It is necessary to prudently formulate a share reduction plan and gradually reduce the shareholding after the stock lock-up period expires.

(2) The method by which I/the company reduces the company's shares shall comply with relevant laws, regulations and rules.

(3) Before I/the company reduces my company's shares, I should make an announcement three trading days in advance, and The rules of the stock exchange perform the obligation of information disclosure in a timely and accurate manner.

(4) If within two years after the expiration of the lock-up period, if I/the company intends to reduce the shareholding, the reduction price (such as Ex-dividends or ex-dividends due to the distribution of cash dividends, bonus shares, capital increase, additional issuance of new shares and other reasor Then in accordance with the relevant provisions of the stock exchange for rights restoration processing) no less than the company's initial public offering price. Within two years after the expiration of the lock-up period, the total number of shares held by myself/the company shall not exceed 25% of the total number of shares registered in my/our company's name over the last trading day of the previous year. Because of the company If the shares held by myself/the company change due to equity distribution, capital reduction, etc., they can be transferred in the corresponding year The share quota will be changed accordingly.

(5) The company has regulations in Chapter 12, Section 2 of the "Shanghai Stock Exchange Science and Technology Innovation Board Stock Listi If the specified major violation of the law meets the delisting standard, the relevant administrative penalty decision or judicial decision shall be made. From the date to the termination of the company's stock listing, I/the company will not reduce the company's stock.

(6) If I/the company fails to fulfill the above commitments, ①the remaining shares of the company held by the person/company The ticket shall not be reduced within 6 months from the date when I/the company fails to fulfill the above-mentioned intention to reduce the shareholdin The profits obtained from violating the aforementioned intention to reduce shares belong to the company.

(7) If relevant regulatory rules no longer require the content of a certain promise, the corresponding part termination. If the relevant regulatory rules impose new regulations on the lock-up or reduction of shares of listed companies, I/the company The industry will implement the latest regulatory rules applicable at that time when locking up or reducing company stocks.

3 , 5% or more shareholders

Xingyin Growth, Hongyu Investment, Rongqi Investment, Dangtu Reliance, Zhuhai Qisheng and Horgos Qisheng Shareholders of Trina Solar Co., Ltd. holding more than 5% of the shares promise:

(1) If the company intends to reduce its shareholding after the lock-up period expires, it will seriously comply with the The relevant regulations on shareholder reduction, combined with the company's needs for stabilizing stock prices, conducting operations, and capital of

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Prudently formulate a share reduction plan, and gradually reduce the shareholding after the stock lock-up period expires.

(2) The way the company reduces its shareholding in the company shall comply with the relevant laws, regulations and rules.

(3) Before the company reduces its shareholding in the company, it should make an announcement three trading days in advance, and The Exchange's rules perform information disclosure obligations in a timely and accurate manner.

(4) If within two years after the expiration of the lock-up period, the company intends to reduce its shareholding, the reduction price (if due to Ex-rights or ex-dividends are distributed for reasons such as cash dividends, bonus shares, capital increase, or new shares issuance after listing. According to the relevant regulations of the stock exchange, the rights shall be restored) not lower than the issue price of the company's initial public offering. Within one year after the expiration of the lock-up period, the total number of company shares held by the company each year shall not exceed the previous 50% of the total number of shares registered under the company's name on the last trading day. Due to the company's equity distribution, reduction In the event of capital shrinkage, etc., resulting in changes in the shares held by the company, the quota for transferable shares in the corresponding year

(5) If the company fails to fulfill the above commitments, ① the remaining stocks of the company If the industry fails to fulfill the above-mentioned shareholding reduction intention, it shall not reduce its shareholding within 6 months; ② The company The income obtained belongs to the company.

(6) If relevant regulatory rules no longer require the content of a certain promise, the corresponding part termination. If the relevant regulatory rules impose new regulations on the lock-up or reduction of shares of listed companies, the company is The latest regulatory rules applicable at that time will be implemented when determining or reducing the company's shares.

(3) Commitment on stock price stability

1. Issuer

(1) Prerequisites for initiating stock price stabilization measures

If the company's A-shares are officially listed within three years, the company's The closing price of Yiri (if it is exempted due to the distribution of cash dividends, bonus shares, capitalization, additional issuance of new shares, etc.) Rights and ex-dividends, they must be restored in accordance with the relevant provisions of the stock exchange, the same below) are lower than the company The first-phase audited net assets per share (hereinafter referred to as "preconditions for initiating stock price stabilization measures"), the company The stock price stabilization measures will be formulated and implemented in accordance with laws and regulations and the company's articles of association

(2) Specific measures to stabilize the company's stock price

When the prerequisites for initiating stock price stabilization measures are met, the company shall use centralized auction trading or securities The company's shares are repurchased from public shareholders in other ways approved by the supervision and management department (hereinafter referred to as)

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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Copies”). The company shall convene a board of directors within 10 days to discuss the company’s repurchase of the company’s shares from public share Plan and submit it to the general meeting of shareholders for consideration. After the general meeting of shareholders has approved the share repurchase Relevant laws and regulations shall implement share repurchase after fulfilling legal procedures.

The company’s share repurchase funds are its own funds, and the price of the repurchase shares shall not exceed the most recently audited 110% of net assets per share.

The amount of funds used by the company to repurchase company shares at a time shall not be less than the audited amount in the most recent fiscal 10% of the net profit attributable to shareholders of the parent company. The amount of funds used to repurchase the company’s shares in a single fiscal More than 30% of the audited net profit attributable to shareholders of the parent company in the most recent fiscal year.

The company’s share repurchase shall be implemented within 30 days after the company’s general meeting of shareholders approves and fulfills the complete. If the company’s stock price has not met the conditions for initiating measures to stabilize the company’s stock price, the company may no longer Repurchase shares.

After the shares are repurchased, the company’s equity distribution shall meet the listing conditions. The company’s share repurchase shall comply The provisions of laws, regulations and regulatory documents.

When the preconditions for initiating stock price stabilization measures are met, if the company has not adopted the above The company promises to accept the following restraint measures:

① The company will publicly state in the general meeting of shareholders and the newspapers designated by the China Securities Regulatory Commission And apologize to the company’s shareholders and public investors.

② If the above commitments are not fulfilled and investors suffer losses in securities transactions, the company will Compensate investors for losses in accordance with the law.

③ The above commitments represent the company’s true intentions and voluntarily accept regulatory agencies, self-regulatory organizations and the If it violates the above-mentioned undertaking, it will bear corresponding responsibilities according to law.

2. The controlling shareholder and actual controller

As the controlling shareholder and actual controller of Trina Solar Co., Ltd., Gao Jifan promises:

(1) Prerequisites for initiating stock price stabilization measures

If the company’s A-shares are officially listed within three years, the company’s The closing price of Yiri (if it is exempted due to the distribution of cash dividends, bonus shares, capitalization, additional issuance of new shares, etc.) Rights and ex-dividends, they must be restored in accordance with the relevant provisions of the stock exchange, the same below) are lower than the company

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After the first-phase audited net assets per share and the company has implemented measures to stabilize the stock price, the company’s stock price continues (Hereinafter referred to as “preconditions for initiating stock price stabilization measures”), I shall comply with laws and regulations

The regulations and the company’s articles of association provide for the implementation of stock price stabilization measures by increasing shareholdings

(2) Specific measures to stabilize the company’s stock price

When the prerequisites for initiating stock price stabilization measures are met, I shall propose to increase my holdings within 5 trading days

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. The company's share plan (including the number of company's shares to be increased, price range, time for holdings, etc.), and If you know the company, the company shall disclose its plan to increase the shareholding of the company in accordance with relevant regulations. Disc Three trading days after the company's shareholding plan, I began to implement the plan to increase the shareholding of the company.

The price at which I increase my holdings of the company's shares shall not be higher than 110% of the company's most recent audited net assets p

The amount of funds I use to increase my holdings of the company's shares in a single time shall not be less than the amount of funds I have accu 10% of the amount of after-tax cash dividends received by the company; the amount of funds used to increase the company's shares in a single fiscal year No more than 30% of the amount of after-tax cash dividends I have received from the company since the company's listing.

I will complete the stock price stabilization measures within 30 trading days from the second day Increase in shares. But if the company's stock price has not met the conditions for initiating stock price stabilization measures, I can no longer Implementation of increased holdings of company shares.

After I increase my holdings of the company's shares, the company's equity distribution should meet the listing requirements. I increase my holdin The copies shall comply with relevant laws, regulations and regulatory documents.

When the prerequisites for initiating stock price stabilization measures are met, if I have not adopted the specific Measures, I promise to accept the following restraint measures:

① I will publicly explain in the company's general meeting of shareholders and the newspapers designated by the China Securities Regulatory Commission Determine the specific reasons for the stock price measures and apologize to the company's shareholders and public investors.

② I will suspend receiving the company's cash dividends that I should receive until I take relevant measures in accordance with the provisions of the The corresponding stock price stabilization measures have been implemented.

③ No transfer of company shares is allowed. Due to inheritance (if any), enforcement, reorganization of listed companies, Except for situations where stocks must be converted, such as undertaking to protect the interests of investors.

④ If the above commitments are not fulfilled and the investor suffers losses in securities transactions, I will Compensate investors for losses in accordance with the law.

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⑤ The above commitments represent my true intentions, and I voluntarily accept the regulatory agencies, self-regulatory organizations and the put If it violates the above-mentioned undertaking, it will bear corresponding responsibilities according to law.

3. The controlling shareholder and actual controller acting in concert

Wu Chunyan, Youze Technology, Changzhou Ruichuang, Changzhou Xiechuang, Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianch Panji Investment, Trina Star Yuan, and Qinghai Investment are the controlling shareholder and actual controller of Trina Solar Co., Ltd. Gao Jifan's people acting in concert, promise:

(1) Prerequisites for initiating stock price stabilization measures

If the company's A-shares are officially listed within three years, the company's The closing price of Yiri (if it is exempted due to the distribution of cash dividends, bonus shares, capitalization, additional issuance of new shares, etc.) Rights and ex-dividends, they must be restored in accordance with the relevant provisions of the stock exchange, the same below) are lower than the con After the first-phase audited net assets per share and the company has implemented measures to stabilize the stock price, the company's stock price cont

(Hereinafter referred to as the “preconditions for initiating stock price stabilization measures”), I/the company will follow

According to laws and regulations, and the company's articles of association, measures for stabilizing stock prices are implemented by increasing share

(2) Specific measures to stabilize the company's stock price

When the prerequisites for initiating stock price stabilization measures are met, I/the company shall, within 5 trading days, Propose a plan to increase the shareholding of the company (including the number of shares to be increased, the price range, the time of increase, etc.), And inform the company that the company shall disclose its plan to increase the shareholding of the company in accordance with relevant regulations. If 3 trading days after the company disclosed my/our company's plan to increase shareholding in the company, I/our company began to implement the increase Plans to hold company shares.

The price of my/the company's increased holdings of the company's shares is not higher than the company's most recent audited net assets per share 110% of it.

The amount of funds used by me/the company to increase the shareholding of the company at a time is not less than that of my/the company since The enterprise accumulates 10% of the amount of after-tax cash dividends received from the company; a single fiscal year is used to increase the company The capital amount of the shares does not exceed the after-tax cash dividends received from the company since the company's listing. 30% of the amount.

I/the company will start the stock price stabilization measures within 30 trading days from the second day The share increase was completed within. But if the company's stock price has not met the conditions for initiating stock price stabilization measures, I

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/ The company can no longer implement the increase in company shares.

After I/this company increase my shareholding in the company, the company's equity distribution should meet the listing requirements. Me/this An enterprise's increase in the company's shares shall comply with the relevant laws, regulations and normative documents.

When the prerequisites for initiating stock price stabilization measures are met, if I/the company has not adopted the above-mentioned stable stock I/the company promises to accept the following restrictive measures:

(1) I/the company will publicly explain in the company's general meeting of shareholders and the newspapers designated by the China Securities Regulatory Commission Take the specific reasons for the above measures to stabilize stock prices and apologize to the company's shareholders and public investors.

(2) I/this company will suspend receiving the company's cash dividends until I/the company pays The promised provisions have taken corresponding stock price stabilization measures and implemented them.

(3) Company shares may not be transferred. Due to inheritance (if any), enforcement, reorganization of listed companies, Except for situations that must be converted to shares, such as fulfilling the commitment to protect the interests of investors.

(4) If the aforesaid commitments are not fulfilled and investors suffer losses in securities transactions, the The person/company will compensate investors for losses in accordance with the law.

(5) The aforesaid commitment is a representation of my/the company's true intentions and voluntary acceptance by regulatory agencies and self-regulatory organizations. If it violates the above undertakings, it will bear corresponding responsibilities according to law.

4. Directors (excluding independent directors and directors who have not served in the company), senior management

(1) Prerequisites for initiating stock price stabilization measures

If the company's A-shares are officially listed within three years, the company's

The closing price of Yiri (if it is exempted due to the distribution of cash dividends, bonus shares, capitalization, additional issuance of new shares, etc.) Rights and ex-dividends, they must be restored in accordance with the relevant provisions of the stock exchange, the same below) are lower than the closing price of the company's A-shares, the company's controlling shareholders, actual controllers and their concerted parties have After implementing measures to stabilize the stock price, the company's stock price is still lower than the net assets per share (hereinafter referred to as the net assets per share), I will approve the increase of shares in accordance with laws and regulations and the company's articles of association. I will implement the following measures to stabilize the stock price.

(2) Specific measures to stabilize the company's stock price

When the preconditions for initiating stock price stabilization measures are met, I shall use the secondary market to bid Buy the company's stock in a manner to stabilize the company's stock price.

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I purchase the company's shares at a price not higher than 110% of the company's most recent audited net assets per share.

The amount of funds that I use to increase my holdings of the company's shares at a time is not less than that I have served as a director since the company's listing. The amount of funds used to increase the shareholding of the company in a single fiscal year shall not exceed the amount of 10% of the cumulative amount of after-tax remuneration received from the company during the most recent fiscal year for senior management personnel. The amount of funds used to increase the shareholding of the company in a single fiscal year shall not exceed the amount of 30% of the cumulative amount of after-tax salary received from the company during the most recent fiscal year of the senior management staff.

I will complete the stock price stabilization measures within 30 trading days from the second day of the implementation of the measures. Increase in shares. But if the company's stock price has not met the conditions for initiating stock price stabilization measures, I can no longer implement the measures. Implementation of increased holdings of company shares.

After I buy the company's shares, the company's equity distribution should meet the listing requirements. I increase my holding of company shares. The copies shall comply with relevant laws, regulations and regulatory documents.

Within three years after the company's listing, the company will not give up fulfilling the promise due to reasons such as change of position or resignation.

When the prerequisites for initiating stock price stabilization measures are met, if I have not adopted the specific Measures, I promise to accept the following restraint measures:

① I will publicly explain in the company's general meeting of shareholders and the newspapers designated by the China Securities Regulatory Commission. Determine the specific reasons for the stock price measures and apologize to the company's shareholders and public investors.

② I will stop receiving remuneration (if any) from the company until I take corresponding measures in accordance with the provisions of this commitment. The stock price stabilization measures have been implemented.

③ I will suspend receiving the company's cash dividends (if any) that I should receive until I follow the rules of this commitment. The corresponding stock price stabilization measures will be taken and implemented.

④ Company shares (if any) cannot be transferred. Due to inheritance, enforcement, reorganization of listed companies, Except for situations where stocks must be converted, such as undertaking to protect the interests of investors.

⑤ If the above commitments are not fulfilled, causing investors to suffer losses in securities transactions, I will compensate investors for losses in accordance with the law.

⑥ The above commitments represent my true intentions, and I voluntarily accept the supervision agencies, self-regulatory organizations and the public. If it violates the above-mentioned undertaking, it will bear corresponding responsibilities according to law.

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Trina Solar Co., Ltd.

Prospectus

(4) Commitment to the authenticity, accuracy, completeness and timeliness of the documents provided

1. Issuer

The company believes that all documents and information provided by the company for this application for public offering of shares are true, accurate, complete and timely, guarantee that there are no false records, misleading statements or major omissions.

If the company's prospectus and other related documents are recognized by the China Securities Regulatory Commission or other competent authority, in the case of false records, misleading statements or major omissions, it is necessary to determine whether the company complies with the issuance provisions. If the document constitutes a significant and substantial impact, the company shall repurchase the entire company's initial public offering at the secondary market. New shares. The company will initiate a return within 10 days after the relevant facts are confirmed by the China Securities Regulatory Commission or other competent authority. Measures to purchase shares.

If the company's prospectus contains false records, misleading statements or major omissions, investors may suffer losses. In case of losses in securities trading, the company will compensate investors for losses in accordance with the law. Relevant illegal facts by China Securities Regulatory Commission. The company will simplify procedures, actively negotiate, pay according to law, and earnestly protect the interests of investors. The principle of protecting the interests of investors, especially small and medium-sized investors, is based on the principle of fairness. Options for financial loss to reconcile with investors, mediate with investors through a third party, and establish investor compensation funds, etc. It actively compensates investors for the direct economic losses suffered thereby.

2. The controlling shareholder and actual controller

As the controlling shareholder and actual controller of Trina Solar Co., Ltd., Gao Jifan promises:

All documents and information provided by Trina Solar Co., Ltd. for this application for public offering of shares are true, accurate, complete and timely, and ensure that there are no false records, misleading statements or major omissions. Believe that it is true, accurate, complete and timely, and ensure that there are no false records, misleading statements or major omissions. leak.

If the company's prospectus and other related documents are recognized by the China Securities Regulatory Commission or other competent authority, in the case of false records, misleading statements or major omissions are important for determining whether the company meets the issuance conditions stipulated by the China Securities Regulatory Commission. If it constitutes a major and substantial impact, I will urge the company to repurchase the company's first public development at the secondary market price. All new shares of the bank. The company will within 10 days after the relevant facts are confirmed by the China Securities Regulatory Commission or other competent authority. Start measures to repurchase shares.

If there are false records, misleading statements or major omissions in the company's prospectus, investors may suffer losses. In case of losses in securities trading, investors will be compensated for losses in accordance with the law. The relevant illegal facts have been

Trina Solar Co., Ltd.

Prospectus

After he has the authority to determine, he will simplify the procedures, actively negotiate, pay according to law, and effectively protect the investment

The principle of the interests of small and medium-sized investors, and urge other responsible parties to follow the

Measurable economic loss options to reconcile with investors, mediate with investors through a third party, and establish investor compensation

The compensation fund and other methods actively compensate investors for the direct economic losses suffered thereby.

3. The controlling shareholder and actual controller acting in concert

Wu Chunyan, Youze Technology, Changzhou Ruichuang, Changzhou Xiechuang, Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianchi Panji Investment, Trina Star Yuan, and Qinghai Investment are the controlling shareholder and actual controller of Trina Solar Co., Ltd.

Gao Jifan's people acting in concert, promise:

All documents and information provided by Trina Solar Co., Ltd. for this application for the

Believe that it is true, accurate, complete and timely, and ensure that there are no false records, misleading statements or major legacy leak.

If the company's prospectus and other related documents are recognized by the China Securities Regulatory Commission or other competent authority

False records, misleading statements or major omissions are important for determining whether the company meets the issuance conditions stipulated by

If it constitutes a major and substantial impact, I/the company will urge the company to repurchase the company's first

All new shares of this public offering. The company will confirm the relevant facts by the China Securities Regulatory Commission or other competent authority

Measures to repurchase shares will be initiated within 10 days.

If there are false records, misleading statements or major omissions in the company's prospectus,

In case of losses in securities trading, investors will be compensated for losses in accordance with the law. The relevant illegal facts have been

After he has the authority to confirm, I/the company will simplify procedures, actively negotiate, pay according to law, and earnestly

The principle of protecting the interests of investors, especially small and medium-sized investors, and urging other responsible parties

Choose to reconcile with investors, mediate and set up

The establishment of investor compensation funds and other methods actively compensate investors for the direct economic losses suffered by this.

4. Directors, supervisors and senior management

As a director/supervisor/senior manager of Trina Solar, I solemnly promise:

There are no false records, misleading statements or major omissions in the company's prospectus.

Accuracy, completeness and timeliness bear individual and joint legal responsibilities.

If there are false records, misleading statements or major omissions in the company's prospectus,

Trina Solar Co., Ltd.

Prospectus

In case of losses in securities trading, I shall compensate investors for losses in accordance with the law. Related illegal facts by the China Securities Reg
Or other competent authorities, I will simplify procedures, actively negotiate, pay according to law, and earnestly protect
Investors, especially small and medium-sized investors' interests, independently and urge other responsible parties
The acceptable and measurable economic losses, choose to reconcile with investors, mediate with investors and establish investment
The investor compensation fund and other methods actively compensate investors for the direct economic losses suffered by this.

(5) Measures and commitments to make up for diluted immediate returns

According to the "General Office of the State Council on Further Strengthening the Protection of the Legal Rights and Interests of Small and Medi
Opinions" and "Guiding Opinions on Matters Concerning Initial Issuance and Refinancing, and Major Asset Restructuring Diluting Spot Return
See the relevant requirements in ", the company has analyzed the impact of this issuance on the dilution of immediate returns, and intends to
The risk of diluting the immediate return of the initial public offering of A shares shall take relevant remedial measures and require relevant
The entity makes a promise that the company's return measures can be fulfilled, and the details are as follows:

1. The impact of this issuance on the company's main financial indicators

After the completion of the issuance of the investment funds in place, the company's financial strength has been greatly enhanced, and the compan
And net assets have increased significantly, and the benefits of investment projects with raised funds will gradually be reflected in the follow-up.
The company's net profit will increase. However, due to the leading base of Tongchuan photovoltaic power generation technology, Tianxing, Yijun Cour
250MWp photovoltaic power generation projects, crystalline silicon, solar cells and photovoltaic modules technological transformation and expansion p
A certain period of construction and production, it is expected that the year when the raised funds are in place, the company's earnings per share will be
Compared with the previous year, it has decreased.

2. The necessity and rationality of this issuance

For the analysis of the necessity and rationality of the investment projects with the proceeds of the issuance, please refer to the "ninth
Festival use of raised funds and future development plans".

3. The relationship between the fund-raising investment project and the company's existing business and related reserves

(1) The relationship between the fund-raising investment project and the company's existing business

The company is a global leading provider of integrated photovoltaic smart energy solutions. Its main business includes
Three major sectors: photovoltaic products, photovoltaic systems, and smart energy. Photovoltaic product business includes monocrystalline and polycry
R&D, production and sales of components; photovoltaic system business includes power station business and system product business; smart energy
Source business includes photovoltaic power generation and power station operation and maintenance services, smart micro-grid, multi-energy system d

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Operations such as energy cloud platform operations.

The company's current main business and core technology

There is a relatively close relationship between surgery. The design of the project focuses not only on growing the company's current main business, but
Consider the company's future development strategy.

For the analysis of the relationship between the investment project of the raised funds and the company's existing business, please refer to the "nin

Festival use of raised funds and future development plans".

(2) The company's reserves in relevant aspects of the investment project of the raised funds

The company has been focusing on the R&D and production of photovoltaic products, photovoltaic systems, and smart energy, relying on outstanding Brand effect, channel advantage and R&D strength, the company has accumulated rich industry experience and through self-training And the introduction of excellent talents, established a mature, stable and experienced technical and sales team.

The talent echelon construction mechanism is perfect, providing abundant personnel reserves for the implementation of this fundraising project. On this The company will actively introduce advanced management models and high-quality management personnel, and formulate Develop strategic planning, establish a more stringent and effective management system and internal control system, and improve company operations The efficiency of management and fund management will give full play to the benefits of scale after business development.

The company is based on the State Key Laboratory of Photovoltaic Science and Technology and the New Energy Internet of Things Industry Innovation Relying on Taiwan, it has a leading edge in core technology and research and development. The company relies on in-depth interpretation of the future capability, forward-looking layout of the industry's future technology, and constantly maintain technological innovation, in the battery module Technology, product development for system solutions, smart energy and other fields have carried out a wealth of technical reserves, Conducive to the smooth implementation of the investment project with raised funds

4. The specific measures the company intends to take to fill the diluted immediate returns

In order to ensure the effective use of the raised funds, effectively prevent the risk of the immediate return being diluted, and increase the issuance The issuer intends to adopt the following measures to increase future earnings and increase shareholder returns.

(1) Improve daily operation efficiency and reduce operating costs

In terms of improving the efficiency of daily operations, the issuer will strive to improve the efficiency of the use of funds and strengthen internal control System, improve and strengthen investment decision-making procedures, design perfect capital use plans, and rationally use various financing tools Tools and channels, control capital costs, and improve capital efficiency; in terms of reducing operating costs, the issuer will Save various expenses, reduce the issuer's operating costs, and comprehensively and effectively control risks, and improve the business

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(2) Strengthen the management of raised funds

The issuer has formulated the "Raised Funds Management System", and the raised funds will be deposited in the board of directors designated In the special account. The issuer will regularly check the use of raised funds to strengthen supervision of raised investment projects Management to ensure that the raised funds are used reasonably and legally.

(3) Speed up the investment progress of fundraising projects

After the funds raised in this public offering are in place, the issuer will deploy various internal resources and accelerate the promotion of fundraising Project construction, improve the efficiency of the use of raised funds, and strive to reach production and achieve expected benefits as soon as possible. Improve the issuer's profitability. Before the funds raised this time are in place, in order to realize the profitability of the fundraising project as soon as possible It is planned to actively raise funds through multiple channels, actively allocate resources, and carry out preliminary preparations for fund-raising projects

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Increase the relevant talents and technical reserves of the project, strive to realize the expected benefits of the project as soon as possible, and improve the Shareholder returns reduce the risk of immediate return dilution caused by this public offering.

(4) Improve profit distribution policies and strengthen investor returns

After the issuance is completed, the issuer will strictly follow the laws and regulations and the "Company Chapter "Progress" and other regulations, if the conditions for profit distribution are met, actively promote the distribution of profits to shareholders, especially It is a cash dividend, which effectively maintains and increases returns to shareholders.

5. Commitments of relevant entities

(1) The controlling shareholder and actual controller of the company, the controlling shareholder and actual controller acting in concert committed to

① Do not intervene in the company's operation and management activities without exceeding authority;

② Do not encroach on the company's interests;

③ Supervise and urge the company to earnestly implement the compensation and return measures.

④ If the company violates the above commitments or refuses to perform the above commitments and causes losses to the company, the company shall And agree to comply with the relevant regulations formulated or issued by the China Securities Regulatory Commission and other securities regulatory Rules, bear corresponding penalties or supervisory measures.

(2) Commitment of company directors and senior management

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As a director/senior manager of the company, I make the following commitments:

① Not to transfer benefits to other units or individuals without compensation or on unfair terms, nor to use other methods Harm the company's interests;

② Restrict my own consumption behavior on duty;

③ Do not use company assets to engage in investment and consumption activities that have nothing to do with performing the duties of directors or move;

④ The remuneration system formulated by the board of directors or the remuneration and appraisal committee of the board of directors and the company Linked to the implementation of implementation;

⑤ If the company implements an equity incentive plan in the future, the exercise conditions set by the equity incentive plan will be filled in with the The implementation of compensation measures is linked;

⑥ Fulfill the relevant compensation and return measures formulated by the company and this commitment. If you violate these commitments, If the company or investor causes losses, it shall bear corresponding liabilities in accordance with the law.

(6) Commitment on restraint measures when the commitment is not fulfilled

1. Issuer

To clarify that Trina Solar Co., Ltd. failed to perform its initial public offering and listed on the Science and Technology Innovation Board

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The restraint measures of the relevant commitments to protect the rights and interests of investors. According to relevant regulatory requirements, the company shall fulfill the commitments disclosed in the stock prospectus, the special commitments are as follows:

In addition to the restraint measures mentioned in the individual commitments, the following restraint measures shall be observed:

(1) If the company fails to fulfill the public commitments due to force majeure, it needs to propose new Commitment (relevant commitments need to perform relevant approval procedures in accordance with laws, regulations, and articles of association) and Restrictive measures until the new commitment is fulfilled or the corresponding remedial measures are implemented:

① Publicly explain the specific reasons for non-performance in the shareholders meeting and the disclosure media designated by the China Securities Regulatory Commission and apologize to shareholders and public investors;

② Public refinancing is not allowed;

③ Directors, supervisors, and senior management personnel who are personally responsible for the company's failure to fulfill its commitments shall face Reduction or suspension of salary or allowance;

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Prospectus

④ The application for voluntary resignation of directors, supervisors and senior managers who have not fulfilled their promises shall not be approved. For job change;

⑤ If losses are caused to investors, the company will be liable for compensation to investors in accordance with the law.

(2) If the company fails to fulfill its public commitments due to force majeure, it shall propose a new commitment Promise (relevant commitments shall be subject to relevant approval procedures in accordance with laws, regulations, and articles of association) and Restrictive measures, until the new commitment is fulfilled or the corresponding remedial measures are implemented:

① Publicly explain the specific reasons for non-performance in the shareholders meeting and the disclosure media designated by the China Securities Regulatory Commission and apologize to shareholders and public investors;

② Research as soon as possible the solution to minimize the loss of investors' interests and submit it to the general meeting of shareholders for deliberation. Protect the interests of company investors as much as possible.

2. Issuer shareholders

As a shareholder of Trina Solar Co., Ltd., I/the company has failed to perform Restrictive measures for the relevant commitments made by the company in issuing shares and listing on the Science and Technology Innovation Board. In accordance with relevant regulatory requirements, the rights and interests of the shareholders shall be protected. The fulfillment of the promise, solemnly promise:

In addition to the restraint measures mentioned in the individual commitments, the following restraint measures shall be observed:

(1) If I/the company fails to fulfill the public commitments due to force majeure, it is necessary to mention Issue a new commitment and accept the following restraint measures until the new commitment is fulfilled or the corresponding remedial measures are implemented:

① Publicly explain the specific reasons for non-performance in the shareholders meeting and the disclosure media designated by the China Securities Regulatory Commission and apologize to shareholders and public investors;

② It is not allowed to transfer company shares. Due to inheritance, enforcement, reorganization of listed companies, Except for situations where investors' interest commitments must be converted;

③ Temporarily do not receive the part of the company's distributed profit attributable to me/the company;

④ If gains are obtained due to failure to fulfill relevant commitments, the gains obtained belong to the company and are Pay the income to the designated account of the company within five working days of receiving the income;

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Prospectus

⑤ If I/the company fails to fulfill relevant commitments and causes losses to investors, I shall compensate investors for losses in accordance with the law. Lost.

(2) If I/the company fails to fulfill the public commitments due to force majeure, it shall be submitted to the shareholders meeting. New commitments and accept the following restraint measures until the new commitments are fulfilled or the corresponding remedial measures are implemented.

① Publicly explain the specific reasons for non-performance in the shareholders meeting and the disclosure media designated by the China Securities Regulatory Commission. And apologize to shareholders and public investors;

② Research as soon as possible the solution to minimize the loss of investors' interests, and protect the company's investment as much as possible. The interests of investors.

3. Directors, supervisors and senior management

As a director/supervisor/senior manager of Trina Solar Co., Ltd., I have not been able to fulfill the restraint measures of relevant commitments made by the company in issuing shares and listing on the Science and Technology Innovation Board. The rights and interests of investors, in accordance with relevant regulatory requirements, are now based on my commitments disclosed in the company's prospectus. Solemnly promise:

In addition to the restraint measures mentioned in the individual commitments, the following restraint measures shall be observed,

(1) If the person fails to perform the public commitments due to force majeure, a new commitment shall be made. Commit and accept the following restraint measures until the new commitment is fulfilled or the corresponding remedial measures are implemented:

① Publicly explain the specific reasons for non-performance in the shareholders meeting and the disclosure media designated by the China Securities Regulatory Commission. And apologize to shareholders and public investors;

② It is not allowed to transfer company shares. Due to inheritance, enforcement, reorganization of listed companies, Except for situations where investors' interest commitments must be converted;

③ Temporarily do not receive the part of the company's distributed profit attributable to me;

④ You can change your position, but you can't ask for resignation;

⑤ Proactively apply for reduction or suspension of salary or allowance;

⑥ If gains are obtained due to failure to perform relevant commitments, the gains obtained belong to the company and are Pay the income to the designated account of the company within five working days after receiving the income;

⑦ If I fail to fulfill relevant promises and cause losses to investors, I shall compensate investors for losses in accordance with the law.

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Trina Solar Co., Ltd.

Prospectus

(2) If the person fails to fulfill the public commitment due to force majeure, he shall propose a new commitment

Promise and accept the following restraint measures until the new commitment is fulfilled or the corresponding remedial measures are implemented:

① Publicly explain the specific reasons for non-performance in the shareholders meeting and the disclosure media designated by the China Securities Regulatory Commission and apologize to shareholders and public investors;

② Research as soon as possible the solution to minimize the loss of investors' interests, and protect the company's investment as much as possible. The interests of investors.

(7) Commitment of share repurchase regarding fraudulent issuance and listing

1. Issuer

Whereas Trina Solar Co., Ltd. intends to IPO the company's RMB common shares (A shares) in China

The stock is listed on the Science and Technology Innovation Board of the Shanghai Stock Exchange. The company promises as follows:

The company guarantees that there is no fraudulent issuance in this issuance and listing. If the company does not match this issue

Meet the listing conditions, use deception to defraud the issuance registration and has been issued and listed, the

Within 5 working days after the final confirmation, the company will initiate the process of repurchasing all new shares in the initial public offering according to the

Preface, the repurchase price is determined in accordance with relevant laws and regulations. Such as cash dividends, bonus shares, capital increase, etc.

If ex-rights or ex-dividends have been made due to the issuance of new shares, the repurchase price shall be determined in accordance with the relevant laws and regulations.

Recovery processing.

2. The controlling shareholder and actual controller

Whereas Trina Solar Co., Ltd. intends to IPO the company's RMB common shares (A shares) in China

The stock is listed on the Science and Technology Innovation Board of the Shanghai Stock Exchange. As the company's controlling shareholder and actual controller, I promise as follows:

The promise is as follows:

I guarantee that the company will not have any fraudulent offerings in this issuance and listing. If the company does not issue

Those who meet the listing requirements and defraud the issuance registration by deception and have been issued and listed are entitled to

Within 5 working days after the agency's final determination, I will initiate the process of repurchasing all new shares in the initial public offering according to the

Preface, the repurchase price is determined in accordance with relevant laws and regulations. Such as cash dividends, bonus shares, capital increase, etc.

If ex-rights or ex-dividends have been made due to the issuance of new shares, the repurchase price shall be determined in accordance with the relevant laws and regulations.

Recovery processing.

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3. The controlling shareholder and actual controller acting in concert

Whereas Trina Solar Co., Ltd. intends to IPO the company's RMB common shares (A shares) in China

The stock is also listed on the Science and Technology Innovation Board of the Shanghai Stock Exchange. Wu Chunyan, Youze Technology, Changzhou Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianchuang, Panji Investment, Trina Star Yuan, Qinghai Investment as the company's control

The parties acting in concert with shareholders and actual controllers promise the following:

I/the company guarantees that there is no fraudulent issuance in this issuance and listing of the company. Like company

If the issuance does not meet the listing conditions, the issuance registration is defrauded by deception and the issuance has already been listed.

Within 5 working days after the final confirmation by the competent authority, I/the company will initiate the initial public repurchase according to law

The procedure for issuing all new shares and the repurchase price shall be determined in accordance with relevant laws and regulations. If Yinpai finds a

If ex-rights or ex-dividends have been carried out due to reasons such as stocks, conversion of share capital, additional issuance of new shares, etc., the r

The relevant provisions of the Exchange shall be dealt with for restoration.

(8) Commitment on profit distribution policy

The company promises to abide by the "Articles of Association of Trina Solar Co., Ltd. (Draft)" applicable after listing, strictly

Implementation of the "Trina Solar Co., Ltd. Post-IPO Dividend Return Plan" approved by the company's shareholders meeting

And related profit distribution policies to fully protect the legitimate rights and interests of shareholders.

(9) Commitment on avoiding horizontal competition

1. Controlling shareholder and actual controller

As the controlling shareholder and actual controller of Trina Solar Co., Ltd., Gao Jifan has not directly or

Indirectly engage in businesses and activities that compete with the company in the same industry. To avoid new or potential collaboration with the comp

Industry competition, I promise as follows:

(1) I and my close family members are not currently engaged in directly or indirectly within or outside China

Or participate in any business or activity that is commercially competitive with the company and its subsidiaries, or own

Company and the company's subsidiary companies have a competitive relationship with any economic entity, institution, economic organization, or

Obtain control of the economic entity, institution, or economic organization in any other form, or gain control of the economic entity, institution, or

Serving as directors, supervisors, senior managers or core technical personnel in organizations and economic organizations.

(2) I and my close family members will not directly or indirectly engage in activities in or outside China in the future

Or participate in any business and activities that are commercially competitive with the company and its subsidiaries, or own

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Company and the company's subsidiary companies have a competitive relationship with any economic entity, institution, economic organization, or

Obtain control of the economic entity, institution, or economic organization in any other form, or gain control of the economic entity, institution, or

Serving as directors, supervisors, senior managers or core technical personnel in organizations and economic organizations.

(3) If the benefits and rights obtained due to violation of the above undertakings will belong to the company, compensation will be given to

All losses to the company caused by the above commitments.

2. Natural persons acting in concert with controlling shareholders and actual controllers

As a shareholder of Trina Solar Co., Ltd., Wu Chunyan and the company's controlling shareholder and actual controller Gao Ji Fan's concerted actors are currently not directly or indirectly engaged in businesses and activities that compete with the company in the same industry. In order to avoid new or potential horizontal competition with the company, I promise as follows:

(1) I and my close family members are not currently engaged in directly or indirectly within or outside China. Or participate in any business or activity that is commercially competitive with the company and its subsidiaries, or own Company and the company's subsidiary companies have a competitive relationship with any economic entity, institution, economic organization, or Obtain control of the economic entity, institution, or economic organization in any other form, or gain control of the economic entity, institution, or Serving as directors, supervisors, senior managers or core technical personnel in organizations and economic organizations.

(2) I and my close family members will not directly or indirectly engage in activities in or outside China in the future. Or participate in any business and activities that are commercially competitive with the company and its subsidiaries, or own Company and the company's subsidiary companies have a competitive relationship with any economic entity, institution, economic organization, or Obtain control of the economic entity, institution, or economic organization in any other form, or gain control of the economic entity, institution, or Serving as directors, supervisors, senior managers or core technical personnel in organizations and economic organizations.

(3) If the benefits and rights obtained due to violation of the above undertakings will belong to the company, compensation will be given to All losses to the company caused by the above commitments.

3. Enterprises acting in concert with controlling shareholders and actual controllers

Youze Technology, Changzhou Ruichuang, Changzhou Xiechuang, Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianchuang, Panji In Capital, Trina Star Yuan, Qinghai Investment, as the shareholders of Trina Solar Co., Ltd., and the company's controlling shareholder, The actual controller Gao Jifan acts in concert. In order to avoid competition with the company, the company promises to: under:

(1) The company, its holding companies and participating companies and its affiliated companies currently

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Have not directly or indirectly engaged in or participated in any commercial formation of the company and its subsidiaries within or outside China. Competitive business or activity, or any economic entity that has a competitive relationship with the company and its subsidiaries, Institutions, economic organizations, or in any other form to obtain the economic entities, institutions, economic organizations Control.

(2) The company, its holding companies and participating companies and its affiliated companies will not Directly or indirectly engage in or participate in any commercial competition with the company and its subsidiaries within and outside China. Business or activity, or any economic entity that has a competitive relationship with the company and its subsidiaries, Institutions, economic organizations, or in any other form to obtain the economic entities, institutions, economic organizations Control.

(3) For projects that the company has already constructed or planned to invest in, the company will

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Avoid choosing the same or similar to the company.

(4) The company's act of signing this undertaking has obtained the consent of the company's authority and has obtained the authority of the enterprise controlled by the enterprise agrees, so the act of signing this undertaking by the enterprise represents the enterprise. And the true meaning of the company controlled by this company.

(5) Each commitment contained in this commitment letter is an independently enforceable commitment. Any promise being deemed invalid or terminated will not affect the validity of the other commitments; The interests and rights will belong to the company and its holding companies, and compensation will be given to the company and its control due to violation. All losses, damages and expenses caused by the stock company.

4. Directors, supervisors and senior management

As a director/supervisor/senior manager of Trina Solar Co., Ltd., I have not directly or indirectly engage in businesses and activities that compete with the company in the same industry. To avoid new or potential collaboration with the company in the same industry competition, I promise as follows:

(1) I and my close family members are not currently engaged in directly or indirectly within or outside China. Or participate in any business or activity that is commercially competitive with the company and its subsidiaries, or own Company and the company's subsidiary companies have a competitive relationship with any economic entity, institution, economic organization, or Obtain control of the economic entity, institution, or economic organization in any other form, or gain control of the economic entity, institution, or Serving as directors, supervisors, senior managers or core technical personnel in organizations and economic organizations.

(2) I and my close family members will not directly or indirectly engage in activities in or outside China in the future

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Or participate in any business and activities that are commercially competitive with the company and its subsidiaries, or own Company and the company's subsidiary companies have a competitive relationship with any economic entity, institution, economic organization, or Obtain control of the economic entity, institution, or economic organization in any other form, or gain control of the economic entity, institution, or Serving as directors, supervisors, senior managers or core technical personnel in organizations and economic organizations.

(3) If the benefits and rights obtained due to violation of the above undertakings will belong to the company, compensation will be given to All losses to the company caused by the above commitments.

(10) Commitment on reducing and regulating related party transactions

1. Controlling shareholder and actual controller

Gao Jifan is the controlling shareholder and actual controller of Trina Solar. To reduce and standardize The company's related transactions, I promise as follows:

(1) Since the issuance of this letter of commitment, I will take legal and effective measures to urge myself, the Family members who are closely related to each other, my concerted person, and I have control or serve as directors, senior Managers' other companies, enterprises and other economic organizations (if any) try to reduce and regulate the relationship between the same company Related transactions.

(2) For related-party transactions that cannot be avoided or have reasonable reasons, I will take legal and

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Effective measures to urge me and other companies, enterprises and other economic organizations that I have control over (if Yes) Follow the principles of fairness, fairness and openness in the market, sign agreements in accordance with the law, perform legal procedures, and follow Relevant laws, regulations, listing rules and other relevant provisions to fulfill information disclosure obligations and go through relevant approval procedures. The certificate does not damage the legitimate rights and interests of the company and other shareholders through connected transactions.

(3) I confirm that each commitment contained in this letter of commitment is an independently enforceable commitment. Any one If this undertaking is deemed invalid or terminated, it will not affect the validity of the other undertakings.

(4) I am willing to bear the direct and indirect economic losses, Liability for claims and additional expenses.

2. Natural persons acting in concert with controlling shareholders and actual controllers

Wu Chunyan is a shareholder of Trina Solar Co., Ltd., and Gao Ji is the controlling shareholder and actual controller of the company. Anyone acting in concert in the company. In order to reduce and regulate related transactions with the company, I promise as follows:

(1) Starting from the issuance of this letter of commitment, I will take legal and effective measures to urge myself and this

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Family members who are closely related to each other, and family members who are Directors, senior managers of other companies, enterprises and other economic organizations (if any) minimize and standardize Related transactions between the same company.

(2) For related-party transactions that cannot be avoided or have reasonable reasons, I will take legal and Effective measures to encourage me and my close family members, and me and my close family members Other companies, enterprises and other economic organizations (if any) whose family members have control Principles of fairness and openness, sign agreements in accordance with the law, perform legal procedures, and follow relevant laws, regulations and list Rules and other relevant provisions to perform information disclosure obligations and go through relevant approval procedures to ensure that there is no Harm the legitimate rights and interests of the company and other shareholders.

(3) I confirm that each commitment contained in this letter of commitment is an independently enforceable commitment. Any one If this undertaking is deemed invalid or terminated, it will not affect the validity of the other undertakings.

(4) I am willing to bear the direct and indirect economic losses, Liability for claims and additional expenses.

3. Enterprises acting in concert with controlling shareholders and actual controllers

Youze Technology, Changzhou Ruichuang, Changzhou Xiechuang, Changzhou Evonik, Changzhou Ningchuang, Changzhou Tianchuang, Panji In Capital, Trina Star Yuan, and Qinghai Investment are shareholders of Trina Solar Co., Ltd.,

The inter-controller Gao Jifan acts in concert. In order to reduce and standardize related transactions with the company, the company undertakes The promise is as follows:

(1) Starting from the issuance of this letter of commitment, the company will take legal and effective measures to urge the company to And other companies, enterprises and other economic organizations (if any) that the company has control Related transactions between Fantong companies.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

(2) For connected transactions that cannot be avoided or have reasonable reasons, the company will adopt legal

And effective measures to promote this enterprise and other companies, enterprises and other economic

The organization (if any) follows the principles of fairness, fairness and openness in the market, signs agreements in accordance with the law, and perform

Perform information disclosure obligations and handle relevant approval procedures in accordance with relevant laws, regulations and listing rules

In order to ensure that the company and other shareholders' legitimate rights and interests will not be harmed through related transactions.

(3) The company confirms that each commitment contained in this commitment letter is an independently enforceable commitment. any

If a commitment is deemed invalid or terminated, it will not affect the validity of other commitments.

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(4) The company is willing to bear the direct and indirect economic losses caused to the company due to violation of the above commitments

Loss, liability for claims and additional expenses.

4, 5% or more shareholders

Xingyin Growth, Hongyu Investment, Rongqi Investment, Dangtu Reliance, Zhuhai Qisheng and Horgos Qisheng Xiantian

Shareholder of Huguang Energy Co., Ltd. In order to reduce and standardize related transactions with the company, the company promises as follows:

(1) Starting from the issuance of this letter of commitment, the company will take legal and effective measures to urge the company to

And other companies, enterprises and other economic organizations (if any) that the company has control

Related transactions between Fantong companies.

(2) For connected transactions that cannot be avoided or have reasonable reasons, the company will adopt legal

And effective measures to promote this enterprise and other companies, enterprises and other economic

The organization (if any) follows the principles of fairness, fairness and openness in the market, signs agreements in accordance with the law, and perform

Perform information disclosure obligations and handle relevant approval procedures in accordance with relevant laws, regulations and listing rules

In order to ensure that the company and other shareholders' legitimate rights and interests will not be harmed through related transactions.

(3) The company confirms that each commitment contained in this commitment letter is an independently enforceable commitment. any

If a commitment is deemed invalid or terminated, it will not affect the validity of other commitments.

(4) The company is willing to bear the direct and indirect economic losses caused to the company due to violation of the above commitments

Loss, liability for claims and additional expenses.

5. Directors, supervisors and senior management

I am a director/supervisor/senior manager of Trina Solar. To reduce and standardize

The company's related transactions, I promise as follows:

(1) Starting from the issuance of this letter of commitment, I will take legal and effective measures to urge myself and this

Family members who are closely related to each other, and family members who are

Directors, senior managers of other companies, enterprises and other economic organizations (if any) minimize and standardize

Related transactions between the same company.

(2) For related-party transactions that cannot be avoided or have reasonable reasons, I will take legal and

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Other companies, enterprises and other economic groups in which family members have control rights or serve as directors or senior managers

The organization (if any) follows the principles of fairness, fairness and openness in the market, signs agreements in accordance with the law, and fulfill:

Perform information disclosure obligations and handle relevant approval procedures in accordance with relevant laws, regulations and listing rules

In order to ensure that the company and other shareholders' legitimate rights and interests will not be harmed through related transactions.

(3) I confirm that each commitment contained in this letter of commitment is an independently enforceable commitment. Any one
If this undertaking is deemed invalid or terminated, it will not affect the validity of the other undertakings.

(4) I am willing to bear the direct and indirect economic losses,
Liability for claims and additional expenses.

(11) Commitments of relevant intermediary agencies regarding application materials for this issuance

The sponsor (lead underwriter) Huatai United Securities promises: "The company is the issuer of this issue
Where the documents produced or issued contain false records, misleading statements or major omissions, causing losses to investors,
Investors will be compensated for their losses in accordance with the law."

The issuer's lawyer King & Wood Mallesons promised: "If this firm is the first public development of Trina Solar Co., Ltd.
The documents produced and issued by stocks listed on the Science and Technology Innovation Board contain false records, misleading statements or m
If losses are caused to investors, after the effective judgment of the judicial organ is confirmed, the Exchange will compensate the investors for the capit
Damage caused by false records, misleading statements or major omissions contained in the documents produced or issued
Lost".

The issuer's accountant, capital verification agency, and capital verification review agency Rong Cheng promised:
The documents produced and issued by Pedestrians in this issuance contain false records, misleading statements or major omissions.
If the losses are caused by those involved, the investors will be compensated for their losses according to law."

China Enterprise Hua Zhongtian, the issuer's asset appraisal agency, promised: "Because it is the issuer's
If the issued documents contain false records, misleading statements or major omissions, which cause losses to investors, the
The law compensates investors for losses".

Section 11 Other Important Matters

1. Important contract

(1) Important procurement contracts

Significant procurement contracts are executed or signed between the issuer and its subsidiaries and the top five suppliers in 2019.

The procurement framework contract being performed as of December 31, 2019 is as follows:

Serial number	buyer	Seller	Supplier group	contract title	Contract content	Performance
1	Trina Solar	Tongwei Solar (into Capital) Limited	Tongwei Co., Ltd.	procurement contract	Purchase batteries sheet	Performing
2	Trina Solar, Hezhongguang Electricity, TRW Technology, Yabang, Hefei Trina, Salt City Trina, Shanghai Optoelectronics Prepare	Shanghai Machinery Equipment Complete set (group) limited the company	Shanghai Construction Engineering Group Limited company	Purchase sun Purchase and sale contract Energy accessories		Performing
3	Trina Solar	Longi Green Energy Technology Co., Ltd.	Longi Green Energy Technology Co., Ltd.	Procurement framework contract	Purchase silicon wafer	Fulfilled
4	Yijun Tianxing New Energy Limited company	Sungrow has Limited company	Sungrow Power Co., Ltd. the company	Construction general contract Package contract	Purchasing EPC Servicing support Rack, inverter Wait	Fulfilled
5	Trina Solar	Tianjin Central Europe International Material Co., Ltd.	Tianjin Central Europe International Material Co., Ltd.	Contract of purchase	European International Silicon Materials Purchase silicon wafer	Performing

(2) Important sales contract

Important sales contracts are executed or closed contracts signed by the issuer and its subsidiaries with the top five customers in 2019.

The sales framework contract that is being performed as of December 31, 2019 is as follows:

Serial number	buyer	Seller	Customer Group	contract title	Contract content	Performance
1	SDIC Power Holdings Co., Ltd.	Tianhe Power Openair	SDIC Power Holdings Limited company	Equity transfer protocol	Power station sales	Fulfilled
2	Sungrow has Limited company	Hefei Trina, Changzhou Tianhezhi Smart Energy Engineering	Sungrow Power Co., Ltd. the company	Contract, engineering Package contract	Module sales, photovoltaic power station EPC	Performing
3	Florida Power & Light Company	Trina America	NextEra Energy, Inc.	Component sales contract	Component sales	Fulfilled
4	Road Runner Solar Project, LLC	Trina America	ENEL GREEN POWER NORTH AMERICA	Component sales contract	PV module sales	Fulfilled
5	China Power Construction Mission Limited	Collection Trina Solar	China Power Construction Group Zhongnan Survey, Design and Research Institute Limited company	Component sales contract	Component sales	Fulfilled

(3) Contracts for the construction and management of important photovoltaic power plants

The important photovoltaic power station project construction and management contract is for the issuer and its subsidiaries that have been performed in

The construction and management contract of photovoltaic power station project of RMB (or other equivalent currency) and above is as follows:

Serial number	Client's main contractor	Issuer principal contractor	contract title	Contract content	unit	Contract amount	Perf
1	Woodlake GK	TSJE	Equity Interests ETC. Purchase Agreement			48,670.04	
			Development Fees And Overrun Cost Payment Agreement	Design of photovoltaic power station project	Ten thousand yen	191,329.96	Fu
			Engineering, Procurement, Construction And Management Agreement	Planning, purchasing and management		782,666.96	
2	ESJ Renewable I, S. de RL de CV	TSEPC de Mexican, SA de CV	Engineering, Procurement, And Construction Agreement	Design of photovoltaic power station project	Ten thousand U.S. dollars	1,105.12	in progress
				Planning, purchasing and management			
3	YMG GODO KAISHA	TSJE	Equity Interests Purchase Agreement			60,435.21	
			Development Fees And Overrun Cost Payment Agreement	Design of photovoltaic power station project	Ten thousand yen	159,482.02	In pro
			Engineering, Procurement, Construction And Management Agreement	Planning, purchasing and management		656,646.12	

(4) Important financing contracts

1. Guarantee credit contract

Important guarantee credit contracts are the top five guarantee credit contracts that the issuer and its subsidiaries have performed in 2019 or are perform details as follows:

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Serial number	company name	Bank name	contract title	Credit start date	Credit expiry date	Credit amount	Unit: t	Perf
1	Trina Solar, Trina Technology, Trina Switzerland, Trina Energy Development	HSBC Bank (China) Limited Shanghai Branch	Credit contract	2019-7-29	2020-7-29	US\$105.0 million	is performing	
	hair							
2	Trina Technology	China CITIC Bank Co., Ltd. Changzhou Branch	Maximum guarantee contract	2019-6-17	2021-6-17	75,000.00	is fulfilling	
3	Trina Solar	Industrial Bank Co., Ltd. Changzhou Branch	Maximum guarantee contract	2019-3-15	2020-3-13	200,000.00	in progress	
4	Trina Solar	Agricultural Bank of China Co., Ltd. Changzhou Xinbei Branch	Maximum mortgage contract (real estate)	2018-2-05	2021-2-04	80,500.00	in progress	
			Maximum mortgage contract (mechanical equipment)	2018-9-14	2020-9-13			
5	Trina Solar	Bank of Communications Co., Ltd. Changzhou Branch	Guarantee contract	2018-10-25	2019-10-23	78,000.00	Fulf	

2. Loan contract

Important loan contracts are the top five loan contracts that have been performed by the issuer and its subsidiaries in 2019 or are performing as of December under:

Serial number	company name	Bank name	contract title	Start date	Loan due date	unit	Contract amount	P
1	Tokson Trina	China Development Bank Xinjiang Branch	Loan Contract	2018-5-23	2019-5-16	Ten thousand yuan	75,900.00	
				2018-8-29	2019-8-28	Ten thousand U.S. dollars	10,000.00	
2	Trina Solar	China Development Bank Jiangsu Branch	Loan Contract	2018-9-18	2019-9-16	Ten thousand U.S. dollars	10,000.00	
				2018-11-12	2019-11-11	Ten thousand U.S. dollars	10,000.00	
				2018-11-22	2019-11-21	Ten thousand U.S. dollars	10,000.00	P

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3	Changzhou Trina Smart Energy Project	Huaneng Tiancheng Financial Leasing Co., Ltd.	Finance lease contract	2019-5-15	2021-4-30	Ten thousand yuan	57,000.00	P
4	Trina Solar	Industrial Bank Co., Ltd. Hong Kong Branch	Loan Contract	2019-4-17	2019-12-17	Ten thousand Hong Kong dollars	50,000.00	P
5	Trina Solar	Industrial Bank Co., Ltd. Changzhou Branch	Loan Contract	2019-3-15	2020-3-14	Ten thousand yuan	50,000.00	P
5	Trina Solar	Industrial Bank Co., Ltd. Changzhou Branch	Loan Contract	2018-3-16	2019-3-15	Ten thousand yuan	50,000.00	P

Note: The financial leasing contract signed by Changzhou Tianhe Smart Energy Engineering and Huaneng Tiancheng Financial Leasing Co., Ltd. is recognized as a mortgage loan based on the

3. Financial lease contracts

Important financial leasing contracts are the top five financial leasing contracts that the issuer and its subsidiaries have performed in 2019 or are performing details as follows:

Serial number	lessee	Lessor	Rental equipment	Contract start date	Contract period	Contract amount	Performance	Unit: t
1	Trina Power Development	Huaneng Tiancheng Financial Leasing Co., Ltd. Division	Equipment and facilities	2019-9-10	12 years	109,474.53	Performing	
2	Changzhou Trina Smart Energy Engineering Co., Ltd. Cheng	Huaneng Tiancheng Financial Leasing Co., Ltd. Division	Equipment and facilities	2019-7-31	12 years	81,000.00	Performing	
3	Yecheng Yuanguang	China Financial Leasing Co., Ltd.	Equipment and facilities	2016-10-15	10 years	16,000.00	Performing	
4	Wujiaqu Energy	CITIC Financial Leasing Co., Ltd.	Equipment and facilities	2016-4-28	9 years	14,000.00	Performing	
5	Hangzhou Yourui Power Technology has Limited company	Suzhou Financial Leasing Co., Ltd.	Equipment and facilities	2019-10-15	6 years	11,000.00	Performing	

(5) Important investment contracts

The company has performed in 2019, January-March 2020 or the amount being performed as of March 31, 2020 is 2 billion yuan (or other equivalent currency). The important investment contracts are as follows:

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On July 2, 2019, Trina Solar and Yiwu Information Optoelectronics High-tech Industrial Park Management Committee signed the "High-efficiency Solar Cell Module Production Base Project Investment Agreement". It is agreed that the issuer will register and set up a project company in Yiwu City, build an 8GW high-efficiency solar cell module production base, and mass produce 8GW high-efficiency solar cell modules. Yuan, the project is constructed in phases, and the actual implementation can be adjusted according to the market conditions at the time of investment.

On July 22, 2019, Trina Technology and the Suqian Economic and Technological Development Zone Management Committee signed the "Trina Solar High-efficiency Solar Cell Module Production Base Project Investment Agreement". The Economic and Technological Development Zone has registered and established a project company to build a 5GW high-efficiency solar cell module production base. The capital is 3 billion yuan.

On January 17, 2020, Trina Technology and the Suqian Economic and Technological Development Zone Management Committee signed the "Investment Agreement for Building a 5GW High-efficiency Solar Cell Module Production Base". People register and set up a project company in Suqian Economic and Technological Development Zone to build a 5GW high-efficiency solar cell module production base. The total investment is 3 billion yuan.

2. Guarantee

As of the signing date of this prospectus, the company and its subsidiaries did not provide guarantees for third parties outside the scope of consolidation

3. Major litigation and arbitration matters

(1) Unsettled major litigation and arbitration cases of the issuer and its subsidiaries

1. Anti-dumping and anti-subsidy litigation by the US Department of Commerce

As of April 30, 2020, due to the US Department of Commerce's anti-dumping and countervailing (hereinafter referred to as "dual anti-subsidy") invest

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The U.S. Department of Commerce has made a final judgment on the relevant cases based on the results of the "double reverse" review investigations over t

The U.S. government's double counter litigation is detailed in the following table:

Serial number	plaintiff	defendant	Acceptance / Trial Agency	Main claim	Litigation stage
1	SolarWorld Americas, Inc. and issuer	American government	U.S. International Trade Court/U.S. Federal Circuit Court of Appeals	Regarding the US Department of Commerce's China's second-round anti-dumping administrative review of solar cells and modules The final result of the trial	The U.S. Court of International Trade ruled on December 13, 2017, that the issuer's appeal is successful. The case is still under trial
2	Canadian Solar International Limited	American government	U.S. International Trade Court	On June 27, 2017, the U.S. Department of Commerce China's third-round anti-dumping administrative review of solar cells and modules The final result of the trial	During the trial of the U.S. Court of International Trade
3	Issuer	American government	U.S. International Trade Court	Regarding the US Department of Commerce's China's third-round countervailing administrative response to solar cells and modules The final result of the trial	During this trial, the U.S. Court of International Trade
4	Issuer	American government	U.S. International Trade Court/U.S. Federal Circuit Court of Appeals	Regarding the U.S. Department of Commerce's The solar cell produced in China is the first component produced in China The final result of a round of anti-dumping administrative review is filed litigation	During the trial of the U.S. Court of Appeals for the Federal Circ
5	Issuer	American government	U.S. International Trade Court	Regarding the U.S. Department of Commerce's The solar cell produced in China is the first component produced in China The final result of a round of countervailing administrative review is filed litigation	During the U.S. Court of International Trade
6	Issuer	American government	U.S. International Trade Court	On July 23, 2018, the U.S. Department of Commerce China's fourth round of countervailing administrative response to solar cells and modules The final result of the trial	During the trial by the US Court of International Trade (SolarWo The lawsuit was filed together, but the lawsuit request was withd But the litigation request filed by the issuer is still in the process
7	Issuer, SolarWorld Americas, Inc. and Canadian Solar International Limited	American government	U.S. International Trade Court	On July 27, 2018, the U.S. Department of Commerce China's fourth-round anti-dumping administrative review of solar cells and modules The final result of the trial	During the trial of the U.S. Court of International Trade
8	Issuer, SolarWorld Americas, Inc.,	American government	U.S. International Trade Court	On August 28, 2019, the U.S. Department of Commerce China's fifth-round countervailing administrative response to solar cells and modules	During the U.S. Court of International Trade

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Canadian Solar
International Limited
And Jinko Solar Co.,
Ltd,

The final result of the trial

According to the issuer's explanation and the opinions issued by foreign lawyers, these "dual anti-dumping" litigations will not have a significant adverse effect on the issuer's business.

Sexual legal barriers.

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2. Litigation related to other business activities

As of April 30, 2020, the issuer and its

A total of 11 cases worth 10 million yuan (including 5 cases where the issuer or a subsidiary company was the defendant and 6 reported cases):

Serial number	plaintiff (applicant)	defendant (Respondent)	Accept / Trial agency	Main litigation / arbitration request	Litigation / Arbitration stage
1	Tianjin Beicheng New Energy Technology Co., Ltd	Tianhe Wisdom	Wuqing, Tianjin District People's Court	Construction project construction contract correction Request to return related workers And compensate the plaintiff Total economic loss RMB 16,809,100	During the first instance
2	Renelux Renewables LLC	S. Aether Energy SA (issued Pedestrian subsidiary company)	Athens First Instance Law hospital company)	Sued the defendant for breach of contract termination EPC contract, compensation 2.8188 million euros Request TRW Australia and TRW	The issuer won the first instance, the plaintiff Appeal, in the process of second instance
3	Jasmin Solar Pty Ltd	TRW Australia, TRW United States	Australia United State court	The United States compensates its indirect benefits Total profit loss, etc. AUD 33,407,900 [Note]	The trial process is suspended
4	Trina Beijing	Ningbo (Tian'an) Collection Group shares limited company Division	Miyun Court	Sued the defendant for payment of construction 25,700,400 yuan and corresponding Liquidated damages	The court of first instance found that the defendant acted The guarantor shall bear the joint guarantee Liability, but the principal contract debt Arbitration should be adopted first Confirmed, currently in the second trial In litigation. Trina Beijing also raised Arbitration application, request to confirm the master Contract debt amount
	Trina Beijing	Hebei Ningfeng Electric Equipment Co., Ltd.	China International Economics Economic Trade Arbitration Committee	Request a ruling for the respondent Payment of construction costs and liquidated damages total Total 35,684,100 yuan and law Teacher fee	During the trial

5	Issuer	Sichuan Machinery Design and Equipment Co., Ltd. Limited import and export Liability company	Chengdu Arbitration Members	Section 17,134,800 yuan and related Interest payable In the serial number 7 litigation heard Cheng Zhong, the respondent Sichuan Provincial machinery and equipment import and export Committee Liability company filed a counter-claim During the trial Claim that the product has quality Issuer Compensation for losses of 23.285 million yuan Because the defendant overdue several times
6	Sichuan Machinery and Equipment Import and export limited liability the company		Chengdu Arbitration Members	During the trial The issuer claims the remaining \$5.36 million in payment and Liquidated damages
7	Issuer	Hindustan Power Projects Private Limited	China International Economic Trade Arbitration Committee	Request payment of 565.97 million euros Yuan payment and interest
8	Trina Solar (Germany) GmbH (under the issuer)	Green Tower VIII GmbH & Co. KG	Cottbus Land District court	

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(Company)

9	Tianhe Wisdom	Wuhan Guangyi Xinyuan Technology Co., Ltd. Fangxian Liulixia Power Station limited liability company Division	Hanyang, Wuhan District People's Court	Request to return 14.801 million Yuan Renminbi and capital occupied Period interest
10	Servicios & Soluciones Electromecánicas , SA de CV	TS EPC DE MEXICO SA de CV	Mexico City Court	Request plaintiff to pay breach of contract 3.7 million USD Appeal, in the process of second instance
11	Shouguang Fuhe Photovoltaic Technology Co., Ltd. (fa Pedestrian subsidiary company)	Shouguang Fuhe Environmental Protection Power Technology Shares limited company	Shanghai Arbitration Members	Request a ruling for the respondent Payments arrears and breach of contract During the trial A total of 131,127 million yuan And attorney fees

Note: In May 2015, TRW USA was responsible for JRC Services LLC (hereinafter referred to as JRC), Jasmin Solar Pty Ltd (with (Hereinafter referred to as Jasmin) in the United States for breach of contract and refusal to pay for goods, filed an arbitration with the International Arbitration Commission of the International Chamber of Commerce. In January, the arbitration committee ruled that JRC and Jasmin should jointly pay TRW US \$1.305 million.

And the corresponding interest. In April 2016, Tianhe USA applied to the U.S. District Court for the Southern District of New York to confirm and enforce the arbitration award.

In January 2017, the U.S. District Court for the Southern District of New York confirmed the arbitration award, but Jasmin subsequently appealed to the U.S. Second Circuit.

The court appealed to revoke the arbitration award, and the appeal case is still in the process of trial. According to a written statement issued by an American lawyer

It is clear that the US Court of Appeals for the Second Circuit is more likely to support TRW America. In addition, in May 2017, Trina America

Australia applied to the Federal Court of Australia to enforce the above-mentioned arbitration award, because the US Court of Appeals for the Second Circuit has not yet made a final decision.

According to the judgment, the execution procedure is currently suspended, but Jasmin has paid 1,337,100 US dollars to the court as required

Margin.

On the other hand, Jasmin filed the third lawsuit listed in the above list in Australia in October 2015.

Zhang above claims for compensation. Since the US Court of Appeals for the Second Circuit has not yet made a final judgment, the case is currently suspended.

STATE. According to a written statement issued by an Australian lawyer, the evidence currently provided by the plaintiff is not yet sufficient to support his claim. The claim for compensation.

The above-mentioned lawsuits were all caused by the issuer's normal business activities, and the issuer as the plaintiff involved. Accounted for a small percentage of the issuer's audited net assets in the last year. Therefore, the above litigation/arbitration will not

The issuer's production and operation have a significant adverse impact, and it does not constitute a substantial legal obstacle to this listing.

3. Shareholders' objection litigation during the privatization process

(1) Basic situation of dissenting shareholder lawsuits

According to the issuer's description and the documents provided, as well as the legal opinions issued by foreign lawyers, TSL privately. In the process of transformation, Maso Capital Investments, a shareholder who holds 86,856,000 ordinary shares of TSL in total. Limited and Blackwell Partners LLC (collectively referred to as "MASO") raised objections and gave up privatization.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. Price to sell shares. In May 2017, TSL reported to The Grant Court of Cayman Islands (The Grant Court of Cayman Islands) Filed a lawsuit, requesting the court to determine the fair value of the shares held by MASO. In response to this lawsuit, TSL has The reasonable funds involved in the repurchase of the above-mentioned shares were retained. As of the signing date of this prospectus, the above litigation processing.

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In July 2017, the Cayman Court has ordered TSL to pay MASO the total amount at the original privatization price. An interim transition payment of US\$20,150,592; the company has paid as required by the court. In August 2017, the company Planning to reorganize and conduct an IPO, MASO filed an application to the court to freeze TSL assets and prevent the company from reorganizing, And required the company to submit a deposit of USD 103,151,906 to USD 204,000,000 to the court, but its request Has been rejected by the court.

(2) The impact of dissenting shareholder lawsuits

① Privatization price is fair

A The privatization price has a reasonable premium over the relevant closing price

According to the relevant announcement before the delisting of TSL, the share repurchase price of TSL privatization is US\$11.6/ADS, The repurchase price is mainly based on the closing price of TSL shares on the trading day before the non-binding privatization offer is issued and Based on the average closing price of the first 90 trading days, the premiums are all over 20%, which is different from the Cayman group after 2013. Compared with the case of privatization of US stocks in the Article 238 4 litigation (hereinafter referred to as the "238 litigation") of the Island's "Comp The premium rate is relatively high.

Share name	privatization announcement day	Privatization price The day before share price	Privatization price The day before share price	Previous day stock Price - premium rate	First 90 posts Easy daily average price	First 90 posts Easy to average price Premium rate
JA Holdings	2017/11/17	7.55	6.96	8.48%	7.08	6.70%
where to	2016/6/23	30.39	26.83	13.27%	36.69	-17.17%
Skye Network	2016/6/23	2.20	1.79	22.91%	1.98	10.89%
Zhaopin Recruitment	2016/1/19	18.20	14.35	26.83%	14.41	26.33%
Mindray Medical	2015/12/20	28.00	26.65	5.07%	25.08	11.66%
Trina Solar	2015/12/15	11.60	9.55	21.47%	9.65	20.26%
Mingyang Wind Power	2015/11/1	2.51	2.27	10.57%	2.29	9.61%
Dangdang	2015/7/9	6.70	6.68	0.30%	9.12	-26.57%
KongZhong	2015/6/29	7.55	7.53	0.27%	6.22	21.33%
Qihoo 360	2015/6/17	77.00	66.00	16.67%	55.39	39.02%

* According to the Cayman lawyer Harney Westwood & Riegels issued a memorandum, based on the Cayman Islands "Company Law" (2018) Article 238 of Regulation The shareholders of a company established under the Companies Law of the Cayman Islands have the right to oppose the merger or merger of the company (to oppose the merger or merger of the company). (Hereinafter referred to as "dissenting shareholders") shall be paid at the fair value of their shares. Except for the right to be paid for the fair value of its shares, all The right to participate in all litigation until the court makes a ruling on fair value and the right to file a lawsuit on the grounds that the merger or merger is invalid or illegal In addition, dissenting shareholders no longer enjoy any other shareholder rights.

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Trina Solar Co., Ltd.					Prospectus	
Bona Pictures	2015/6/12	13.70	12.18	12.48%	9.05	51.46%
Home fast	2015/6/11	35.80	26.97	32.74%	26.22	36.56%
E-House China	2015/6/9	6.85	5.93	15.51%	6.28	9.02%
a perfect world	2015/1/2	20.20	15.76	28.17%	19.20	5.23%
Shanda Games	2014/1/27	7.10	5.40	31.48%	4.34	63.68%
Changrong Commun	2014/9/30	4.70	4.70	0.00%	4.40	6.73%
average value				15.39%	-	17.17%
median				14.39%	-	11.28%

It can be seen from the above that the price premium of TSL privatization is higher than that of privately held U.S. stocks involving 238 lawsuits a The average and median of the premium rate of chemical cases.

B The privatization price is confirmed by the special committee and approved by the general meeting of shareholders

When TSL was privatized, a special committee was set up and Citigroup was hired to issue an evaluation report (Valuation report), and finally approved by the TSL Board of Directors and the Extraordinary General Meeting of Shareholders. The approval rate of the general meeting of shareholders is as high as 97.84% (the Cayman Company Law requires such matters to be attended Shareholders or their representatives holding a two-thirds majority of the voting rights). According to the Cayman lawyer Harney The legal opinion issued by Westwood & Riegels on the calculation, supervision and review of TSL's privatization transaction price The nuclear process complies with laws, regulations and applicable operating procedures; expert evaluation consultants believe that the privatization of The transaction price is fair.

In summary, the TSL privatization transaction price premium rate is relatively high, and the pricing process complies with laws and regulations and Operating procedures and fair prices.

② TSL has reserved sufficient reserves

According to the evaluation report issued by expert valuation consultants (valuation report), a memo issued by the Cayman lawyer Harney Westwood & Riegels, dissenting TSL valuation is supported and lacks the possibility (there is likely no prospect of the Dissenters establishing at trial that the fair value of the Company's shares is 5x to 10x the Merger Price), TSL has set aside reserves to cover the foreseeable contingent liabilities under the lawsuit⁵, The specific analysis is as follows:

⁵ The provisioned amount has been calculated to ensure that there are sufficient funds available to cover all reasonably foreseeable contingencies;

Cayman lawyers believe that the fair value of privatization unilaterally proposed by MASO is 5-10 times the combined price.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018. If approved, such a situation will be unprecedented. In terms of fair value of privatization, in the Cayman Islands, Of the 238 lawsuits initiated in the past 7 years, most of the cases have been settled or are still under trial. The details are as follows:

case	Case number	Happening
Gaowei Electronics	FSD 1 of 2013	Settled
Mobilepeak Holding Limited	FSD 24 of 2013	Settled
Integra Group	FSD 92 of 2014	Judged
Changrong Communication	FSD 149 of 2014	Settled
Fangen Pharmaceutical	FSD 123 of 2015	Settled
a perfect world	FSD 166 of 2015	Settled
Eurasian drilling	FSD 12 of 2016	Settled
Shanda Games	FSD 14 of 2016	Judged
Home fast	FSD 75 of 2016	Settled
Bona Pictures	FSD 81 of 2016	Settled
Mindray Medical	FSD 56 of 2016	Settled
Qihoo 360	FSD 129 of 2016	processing
Mingyang Wind Power	FSD 141 of 2016	Settled
E-House China	FSD 170 of 2016	Settled
Dangdang	FSD 197 of 2016	Settled
where to	FSD 76 of 2017	Judged
Skye Network	FSD 110 of 2017	processing
KongZhong	FSD 112 of 2017	processing
Nordiance Education	FSD 235 of 2017	processing
Zhaopin Recruitment	FSD 260 of 2017	processing
Small life	FSD 227 of 2017	processing
JA Holdings	FSD 76 of 2018	processing
Akcome Group	FSD 32 of 2019	processing

Only three cases involving 238 lawsuits have been judged and 6 , as follows:

- i. In the Matter of Integra Group-Unreported, 28 August 2015, Jones J.-a fair value finding of 1.17x the merger price;
 ii. In the Matter of Shanda Games Limited-Unreported, 25 April 2017 and 16 May 2017, Segal J. at first instance -a fair value finding of 2.35x the merger price but following appeal to the Privy Council and applying a 23% minority discount as agreed between the experts, the fair value was reduced to 1.8x the merger price.

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Trina Solar Co., Ltd.				Prospectus
company name	Combined price	Fair value judgment	Judgment time	Fair value times number
Integra Group	Global Depository Receipt certificate			
	Global Depository Receipts) 20 USD (Equivalent to 10 per share USD)	\$11.70 per share	August 28, 2015	1.17
Shanda Games	ADS 7.10 US per serving			
	Yuan (equivalent to per share 3.55 USD)	USD 6.4218 per share January 27, 2020		1.81
Fair price per ADS				

29.10.2020	The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.		
where to	ADS 30.39 US per serving yuan	Worth 28.40 USD (most	0.93 (fair price
		The final amount needs to be agreed by all parties	Value at 28.40 US
		After the business, the court will confirm	Meta calculation, expected
		Recognized that foreign lawyers expect	The final proportion is slightly
		Final fair value	Higher than that)
		Slightly higher than the combined price)	

Among them, there were two cases where the substantive judgment caused the privatization fair value survey result to be higher than the combined The fair value judgments were 1.17 times (Integra Group) and 1.81 times (Shanda Games) of the combined price.

When TSL was privatized in 2017, it had set aside sufficient reserves in consideration of relevant historical rulings. As of this

On the date when the prospectus was signed, the reserves included \$14,266,000 in deposits and \$21,868,100 in equity investments.

The ratio of the total amount of reserved reserves and the interim transition payment paid to the privatization price is 2.79 times, which is higher than

The fair value multiple in the above case, the reserved reserve is sufficient to cover related contingent liabilities.

At the same time, according to the privatization case of Shanda Games made by the Cayman Court of Appeal on January 27, 2020

In the final judgment, the case established the following basic principles: When measuring the amount of privatization that should be paid, shareholders

Only have the right to be paid for the proportion of shares held by them (ie minority equity), and cannot obtain controlling rights as planned

The acquirer may enjoy the company’s assets, business value, etc., and calculate other potential income

Benefit 7 .

According to a memorandum issued by the Cayman lawyer Harney Westwood & Riegels, which quoted the Justice

Lady Arden’s statement: “There is a view that these shares are only worth the price someone is prepared to pay for them (ie.

The merger price), the court may hold that, based on the fairness to other shareholders, the merger price should also be approved.

⁷Following the appeal in Shanda, the JCPC (whose judgments are binding on the Grand Court) found that the general principle is that where it is necessary to determine the amount that should be paid the shareholder is only entitled to be paid for the share with which he is parting, namely a minority shareholding, and not for a proportionate part of the controlling stake which the acquirer thereby builds up, still less a pro rata part of the value of the company’s net assets or business undertaking.

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If the price is carefully negotiated by the non-affiliated board committee, it will benefit from the availability of sufficient information from the company

The fair value of the company’s shares is the negotiated

the price of. If someone bids on the company, the court may find additional guarantees on the basis of the negotiated price.

certificate. In addition, the courts usually do not make secondary inferences on shareholders’ judgments on the company’s financial matters, because in t

In this case, some shareholders believe that the merger price is acceptable, and their consent and approval may increase

Add the weight of the opinion. If the fair value is determined without reference to the combined price, it may trigger litigation and may even

Encourage people to purchase shares in order to exercise appraisal rights.

Sources have adverse effects.” § Therefore, MASO’s claim on the valuation of TSL may be supported by the Cayman Court.

The sex is very small. Cayman lawyers believe that after the privatization case of Shanda Games is judged, TSL is more likely to win

Increase.

Accordingly, it is very unlikely that the dissenting shareholder’s unilateral claim on the valuation of TSL will be supported by the Cayman Court.

With reference to court judgments in existing cases, TSL reserves sufficient reserves to cover related contingent liabilities.

The parties to the dissenting shareholder litigation case and the subject of liability are TSL, and the issuer is not the aforementioned dissenting shareholder. Applicant of the lawsuit, after the privatization and reorganization of TSL in 2017, TSL no longer directly or indirectly holds the issuer and its Equity of subsidiary companies; at the same time, TSL is not the issuer or a subsidiary company within the scope of consolidation.

According to the memorandum issued by the Cayman lawyer Harney Westwood & Riegels, Harneys believes that: (1) The applicant of the dissenting shareholder lawsuit is TSL, which has nothing to do with the issuer; (2) TSL privatization operator Comply with valid and applicable laws and regulations, and are not invalid or illegal; (3) The dissenting shareholder lawsuit itself will not affect The legality and validity of TSL privatization under Cayman law; (4) Combined case under Cayman law

The current progress of this case, dissenting shareholder lawsuits will not have a material adverse effect on its internal restructuring.

s“Another view might be that the shares are only worth what someone is prepared to pay for them. This is the merger price. Courts may consider that fairness to other shareholders involves giving the merger price weight too.

From this it might follow that, if the price has been carefully negotiated by a committee of unaffiliated directors, with the benefit of full access to information about the company and with the benefit of independent financial or other relevant advice, the fair value of shares is that negotiated price. The courts may find additional reassurance in this negotiated price if there have been competing bids for the company.

Moreover, courts do not normally second-guess the judgment of shareholders on financial matters – and in this instance some shareholders will have found the merger price acceptable. So their approval may be given weight for this reason too.

There may also be the problem that to determine the fair value without reference to the merger price may encourage litigation. It may even encourage people to buy shares with a view to exercising appraisal rights, and this could also have an adverse impact on court resources.”

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In summary, the aforesaid dissenting shareholder litigation will not have a material adverse effect on the stability of the issuer and its asset owners' ring.

④ Gao Jifan will not directly bear joint and several liability, supplementary liability or other liability for the above-mentioned litigation involving ' Other forms of responsibility

According to the memorandum issued by the Cayman lawyer Harney Westwood & Riegels, in this case, TSL is the subject involved in the litigation, Gao Jifan is not a party to the case; TSL is a company under the Cayman Law, which bears independently Gao Jifan will not directly bear any joint liability, supplementary liability or liability for the case itself.

Other forms of responsibility.

According to a memorandum issued by the Cayman lawyer Harney Westwood & Riegels, Gao Jifanruo was involved in the case. Subsequent cases (if any) arising from the case shall bear other responsibilities, and the following conditions shall be met at the same time: (1) TSL has l The funds paid and reserved still cannot cover the fair value of TSL shares as determined by the Cayman Court; and (2) Gao Ji In the process of privatization and reorganization, there is a situation of misusing TSL funds for their own benefit. Combine related In fact, Cayman lawyers believe that the risk is very low:

A. As mentioned above, it is possible that the dissenting shareholder's unilateral claim on the valuation of TSL will be supported by the Cayman C The nature is very small; referring to the results of court judgments in existing cases, TSL reserves enough reserves to cover related contingent liabilities

B. TSL has been paid in accordance with the court's request in a timely manner after the Cayman Court's ruling on the interim transitional payment At the same time, Gao Jifan and TSL also accepted valuation advisers and legal advisers to provide relevant information in the Cayman litigation.

Provide advice on reasonable amounts and the likelihood of success. In the process of dissenting shareholders' litigation, Gao Jifan took appropriate mea

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

The other party can successfully prove that the risk of Gao Jifan abusing TSL funds for his own benefit is very low.

Almost zero (the risk of successfully establishing that Mr Gao Jifan was misusing the

Company's funds for his own benefit is very low, almost nil).

⑤ TSL has not been cancelled due to dissenting shareholder lawsuits. Future liquidation will not directly affect the issuer's production and operation or indirect influence

The reason why TSL still exists is that in response to the above-mentioned privatization lawsuit, it has no plans to develop other businesses. After the privatization lawsuit is resolved, Gao Jifan will liquidate and write off TSL as soon as possible.

Given that TSL is not a subsidiary of the issuer nor a shareholder of the issuer, it has not actually carried out business at present. After the privatization litigation is resolved, Gao Jifan liquidates and cancels TSL, which will not directly or indirectly affect the issuer's production and The impact of the connection.

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Trina Solar Co., Ltd.

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⑥ Countermeasures

TSL has appointed Cayman lawyer Harney Westwood & Riegels as a dissenting shareholder litigation case Attorneys who represent relevant laws, regulations, and precedents, formulate response strategies, and actively respond to and defend.

At the same time, in order to minimize the above-mentioned litigation risks, Gao Jifan promised that before the case is concluded in accordance with TSL will not carry out any substantive business to ensure that TSL will not add new liabilities.

In addition, as mentioned above, the privatization price of TSL is fair. If the final valuation of MASO, please To be approved by the court, TSL will file an appeal in accordance with the law to protect its rights.

In summary, the price of TSL privatization is fair. According to a legal opinion issued by a Cayman lawyer, TSL and RVC The merger complies with the relevant laws and regulations of Cayman. TSL has set aside sufficient reserves. The litigation will not have a significant impact on the stability of the issuer and its asset ownership. Because TSL is not under the issuer's As a company, the aforesaid litigation will not have a substantial impact on the issuer's production and operation and the issuance and listing of this time TSL and the issuer's actual controller Gao Jifan did not act improperly and was punished by the SEC or in a U.S. court The risk of being sued.

As of March 31, 2020, in addition to the above matters, the company has no other financial status, operating results, Litigation or arbitration matters that may have a greater impact on reputation, business activities, and future prospects.

(2) Major litigation and arbitration cases that the issuer's controlling shareholder or actual controller has not yet concluded

As of the signing date of this prospectus, there is no controlling shareholder or actual controller of the company as a party Major litigation or arbitration by the parties.

(3) Major litigation and arbitration cases involving the issuer's directors, supervisors, senior managers and core technical personnel

As of the signing date of this prospectus, the controlling shareholder and controlling subsidiary of the company, the directors and supervisors of the Incidents, senior management and other core technical personnel, none of them have been a party to any major litigation or arbitration There are no cases involving criminal proceedings.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

4. Directors, supervisors, senior managers and core technical personnel involved in administration in the past three years

Punishment, investigation by judicial organs, investigation by China Securities Regulatory Commission

As of the signing date of this prospectus, the company's directors, supervisors, senior management and core technical personnel

In the past three years, there have been no administrative penalties, cases filed for investigation by judicial organs, and cases filed for investigation by th

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V. Major illegal acts involving controlling shareholders and actual controllers during the reporting period

As of the signing date of this prospectus, the controlling shareholder and actual controller of the company had no significant

Major violations.

Trina Solar Co., Ltd.

Prospectus

Section XII Statement

1. Statement by all directors, supervisors and senior management

All directors, supervisors and senior managers of the company promise that there are no false records in this prospectus, Misleading statements or major omissions, and individual and joint legal responsibility for its truthfulness, accuracy and completeness responsibility.

Signature of all directors: _____

Gao Jifan Chen Rui'an (CHAN,SHUION) SHAO YANG
(Shaoyang)

Dou Yuming Zhang Kailiang Qiu Liping

Liu Wei Jiang Bailing

Signature of all supervisors: _____

Ding Huazhang All draw Cheng Zhizhong

Except for directors and supervisors

Signature of Senior Management: _____

Yang Xiaozhong Gao Jiqing Yin Rongfang

FENG ZHIQIANG (Feng Zhiqiang) Jiang Yanhong Wu Qun

Trina Solar Co., Ltd.

year month day

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Trina Solar Co., Ltd.

Prospectus

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

2. Statement of the issuer's controlling shareholder and actual controller

The company or I promise that there are no false records, misleading statements or major omissions in this prospectus,
And bear individual and joint legal responsibilities for its authenticity, accuracy and completeness.

Controlling shareholder and actual controller:

Gao Jifan

Trina Solar Co., Ltd.

year month day

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Trina Solar Co., Ltd.

Prospectus

3. Statement of the sponsor (lead underwriter)

The company has checked the prospectus and confirmed that there are no false records, misleading statements or repetitions.
Major omissions, and bear corresponding legal responsibilities for its authenticity, accuracy and completeness.

Project co-organizer:

Zhuang Chen

Sponsor representative:

Gu Peipei

Wang Xiaodong

Legal representative:

Jiang Yu

Huatai United Securities Co., Ltd.

year month day

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Trina Solar Co., Ltd.

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Statement by the chairman and general manager of the sponsor (lead underwriter)

I have carefully read all the contents of the prospectus of Trina Solar Co., Ltd., and confirmed that the prospectus

There are no false records, misleading statements, or major omissions in the written statement, and the prospectus is authentic and accurate.

Bear the corresponding legal responsibilities for sex, completeness and timeliness.

General Manager of Sponsor:

Ma Xiao

Chairman of the sponsor:

Jiang Yu

Huatai United Securities Co., Ltd.

year month day

1-1-819

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Trina Solar Co., Ltd.

Prospectus

4. Statement by the issuer's lawyer

Our firm and the handling lawyers have read the "Trina Solar Co., Ltd.'s initial public offering

The prospectus for listing on the board confirms that there is no contradiction between the prospectus and the legal opinion issued by the Exchange. this

All the handling lawyers have no objection to the content of the legal opinion quoted by the issuer in the prospectus, and confirm the proposal

The stock prospectus shall not contain false records, misleading statements or major omissions due to the above contents, and shall not make any comm

The authenticity, accuracy and completeness of the content of the legal opinion cited in the written statement shall bear the corresponding legal responsil

Attorney in charge:

Zhang Hengshun

Wang Lifeng

Head of Law Firm:

Wang Ling

Beijing King & Wood Mallesons

year month day

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Trina Solar Co., Ltd.

Prospectus

5. Statement by the accounting firm

The firm and the signed CPA have read the prospectus and confirmed that the prospectus and the review issued by the firm

There are no contradictions in the accounting report, internal control verification report, and non-recurring profit and loss schedule verified by the Exchange

The audit report and internal control verification of the issuer quoted in the prospectus by the firm and the signed CPA

There is no objection to the contents of the report and the non-recurring profit and loss schedule verified by the Exchange, and confirm that the prospectus

False records, misleading statements or major omissions due to the above content, and its authenticity, accuracy,

Integrity assumes corresponding legal responsibilities.

Signing CPA:

Pan Feng

Lin Yanlin

Person in charge of accounting firm:

Xiao Houfa

Rongcheng Certified Public Accountants (Special General Partnership)

year month day

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The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

6. Statement by the asset appraisal agency

This institution and the signed asset appraiser have read the prospectus and confirmed that the prospectus is issued by this institution

There are no contradictions in the asset appraisal report. The institution and the signed asset appraisal

There is no objection to the content of the quoted asset appraisal report, and it is confirmed that the prospectus will not be false due to the above content

Records, misleading statements or major omissions, and bear the corresponding legal responsibility for their authenticity, accuracy and completeness responsibility.

Signed asset appraiser:

Cai Chenjie

Zhou Leigang

Person in charge of asset appraisal agency:

Xie Xiaolin

Jiangsu Zhongqi Huazhongtian Assets Appraisal Co., Ltd.

year month day

1-1-824

Asset appraisal agency name change statement

Jiangsu Zhongqi Huazhongtian Assets Appraisal Co., Ltd. (hereinafter referred to as the "Company") as Trina Solar

An asset appraisal agency that is an initial public offering of shares by a limited company and listed on the Science and Technology Innovation Board. described as follows:

On December 25, 2017, Changzhou Tianning District Market Supervision Administration approved that Jiangsu Zhongtian Assets

Appraisal Firm Co., Ltd. changed its name to Jiangsu Zhongqi Huazhongtian Asset Appraisal Co., Ltd.; legal representative of the company

The person changed from He Yihua to Xie Xiaolin.

Hereby explain!

Person in charge of asset appraisal agency:

Xie Xiaolin

Jiangsu Zhongqi Huazhongtian Assets Appraisal Co., Ltd.

year month day

1-1-825

Trina Solar Co., Ltd.

Prospectus

7. Statement of the capital verification agency

This institution and the signed CPA have read the prospectus and confirmed that the prospectus is issued by this institution
There is no contradiction in the capital verification report. This institution and the signed CPA quoted the issuer in the prospectus
There is no objection to the content of the capital verification report, confirming that the prospectus will not cause false records or errors due to the above
Leading statements or major omissions, and bear corresponding legal responsibilities for their authenticity, accuracy, and completeness.

Signing CPA:

Lin Yanlin

Chen Yonggen

Person in charge of accounting firm:

Xiao Houfa

Rongcheng Certified Public Accountants (Special General Partnership)

year month day

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8. Statement of the capital verification review agency

This institution and the signed CPA have read the prospectus and confirmed that the prospectus is issued by this institution

There is no contradiction in the capital verification review report. This institution and the signed certified accountant provide the issuer in the prospectus

There is no objection to the content of the quoted capital verification review report, confirming that the prospectus will not be false due to the above con

Records, misleading statements or major omissions, and bear the corresponding legal responsibility for their authenticity, accuracy and completeness responsibility.

Signing CPA:

Pan Feng

Lin Yanlin

Person in charge of accounting firm:

Xiao Houfa

year month day

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Appendix to Section 13

1. File list

- (1) Issuing a sponsorship letter;
- (2) Listing sponsorship letter;
- (3) Legal opinions;
- (4) Financial reports and audit reports;
- (5) The Articles of Association (Draft);
- (6) Commitments made by the issuer and other responsible entities related to the issuer's current offering and listing;
- (7) Internal control verification report;
- (8) A detailed list of non-recurring gains and losses verified by a certified public accountant;
- (9) The China Securities Regulatory Commission agrees to the issuer's public offering registration documents;
- (10) Other important documents related to this issuance.

2. Time and place of document inspection

- (1) Issuer: Trina Solar Co., Ltd.

Office address: No. 2, Tianhe Road, Tianhe Photovoltaic Industrial Park, Xinbei District, Changzhou City, Jiangsu Province

Check time: 9:00-11:30 am and 2:00-5:00 pm every working day during the underwriting period

Contact: Wu Qun

Phone: 0519-81588826

- (2) Sponsor (lead underwriter): Huatai United Securities Co., Ltd.

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

Office Address: 22nd Floor, Building E, Poly Plaza, No. 18 Dongfang Road, Pudong New Area, Shanghai

Check time: 9:00-11:30 am and 2:00-5:00 pm every working day during the underwriting period

Contact: Gu Peipei

Phone: 021-20426235

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(3) Shanghai Stock Exchange designated information disclosure website: <http://www.sse.com.cn>

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Annex 1: List of issuer's subsidiaries

The issuer is a world-leading provider of integrated photovoltaic smart energy solutions. Its main business includes photovoltaic products, photovoltaic systems, photovoltaic engineering services, photovoltaic financing services, photovoltaic operation and maintenance services, photovoltaic equipment leasing services, photovoltaic energy storage services, photovoltaic microgrid services, photovoltaic multi-energy system development and sales, and photovoltaic cloud platform operations.

As of December 31, 2019, the issuer has a total of 311 subsidiaries at home and abroad, which can be divided into production type, sales and trading type, construction type, design type, etc. Companies, EPC companies, investment holding companies, project companies and other types of companies. The main business of each subsidiary is related to the main business of the issuer.

details as follows:

1. Domestic subsidiaries (130 companies), the relevant information is as follows:

		Production company (14 companies)			
sequence number	company name	Operating business	Registered capital currency	Registered capital	Registered address
1	Trina Solar (Changzhou) Technology Co., Ltd.	Component production and sales	RMB	118,956,809,993 million	Xinbei District, Changzhou City, Jiangsu Province
2	Yancheng Trina Guoneng Photovoltaic Technology Co., Ltd.	Component production and sales	RMB	41,292.862,347 million	Yancheng Economic Development Zone, 101 Wutaishan Road, Yancheng City, Jiangsu Province
3	Hubei Trina Solar Energy Co., Ltd.	Battery production and sales	RMB	200 million	Middle Taohualing Road, Wuhan City, Hubei Province, Paragraph 28

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4	Changzhou Trina Yabang Solar Energy Co., Ltd.	Component production and sales	RMB	92,463,417.6 million	Wujin National High Longyu West Road, number
5	Turpan Trina Solar Energy Co., Ltd.	Component production and sales	RMB	30 million	Toksun, Turpan, Xir County Energy and District Management
6	Jiangsu Trina Smart Distributed Energy Co., Ltd.	Production of household photovoltaic products And sales	RMB	117.41 million	Square (from west) c Tianhe Road, Xinbe number 2
7	Hefei Trina Solar Technology Co., Ltd.	Component production and sales	RMB	38,896,802 million	Xinzhan District, He Intersection of Kuih Rainbow (Hefei) Ph
8	Changzhou Trina Hezhong Optoelectronics Co., Ltd.	Component production and sales	RMB	13.5 million	In the company Science and Technol Road 66
9	Jiangsu Trina Energy Storage Co., Ltd.	Production and sales of energy storage products	RMB	50 million	Trina Solar, Xinbei 1

	Sell			No. 2, Tianhe Road, Wujin National High
10 Jiangsu Tianhe Qingte Electric Co., Ltd.	Component production and sales	RMB	32.5 million	18 Xinya Road, Indu 336 rooms
11 Trina Solar (Suqian) Technology Co., Ltd.	Component production and sales	RMB	60,000 million	Suqian Economic an 3 Tianhe Road
12 Trina Solar (Baotou) Technology Co., Ltd.	Component production and sales	RMB	100 million	Baotou City, Inner M Tumote Right Bannu Park Management C room
13 Trina Solar (Yiwu) Technology Co., Ltd.	Component development, production and sales	RMB	200 million	Suxi Town, Yiwu Ci Room 121, 126 Suft
14 Trina Solar (Suqian) Photoelectric Co., Ltd.	Component production and sales	RMB	200 million	Suqian Economic and 1

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Trina Solar Co., Ltd.				Prospe
				3 Tianhe Road
	Sales and trading companies (4 companies)			
15 Trina Solar (Shanghai) Co., Ltd.	Component sales	RMB	193,226,800	Dongchuan Road, M Block C, 1st Floor, I Room 011, 012
16 Trina Solar (Shanghai) Optoelectronic Equipment Co., Ltd.	Purchasing platform	RMB	60 million	China (Shanghai) Fr 169 Taigu Road, Exj Room 102, Building
17 Jiangsu Tianhe Energy Management Co., Ltd.	Energy saving plan formulation and sale	RMB	30,000 million	Trina Solar, Xinbei I No. 2, Tianhe Road, Xingsheng South, M
18 Trina Solar (Beijing) System Integration Co., Ltd.	Equipment sales	RMB	50 million	Room 106, Building Room-378 (Busines: Workspace)
	Investment holding company (6 companies)			
19 Jiangsu Trina Solar Power Development Co., Ltd.	Investment holding	RMB	107,619.249991 million	Trina Solar, Xinbei I No. 2, Tianhe Road,
20 Jiangsu Trina Solar Power Investment Development Co., Ltd.	Investment holding	RMB	61,373,599,997 million	Tianhe Road, Xinbe number 2
21 Jiangsu Chengyu Investment Development Co., Ltd.	Investment holding	RMB	30 million	Times Business in X Room 2001, Buildin
22 Tianhe Smart Energy Investment Development (Jiangsu) Co., Ltd.	Investment holding	RMB	95 million	Trina Solar, Xinbei I No. 2, Tianhe Road,
23 Tianhe Energy Internet Investment Development (Jiangsu) Co., Ltd.	Investment holding	RMB	50 million	Trina Solar, Xinbei I 2-1 Tianhe Road, Fu number

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Trina Solar Co., Ltd.				Prospe
24 Jiangsu Tianping New Energy Investment Co., Ltd.	Investment holding	RMB	10 million	Tianhe Road, Xinbe

Project companies (85 companies)				2-1
25 Chongqing Tianqi Smart Energy Co., Ltd.	Project Development	RMB	1000000	Xicheng Street, Nan Dao Industrial Park Building 403
26 Gansu Tianhe Huichuang Energy Development Co., Ltd.	Project Development	RMB	20 million	Anning District, Lar 530 Beibinhe West I Aluminum Building Production and Con:
27 Xinjiang Tianyuan Smart Energy Co., Ltd.	Project Development	RMB	20 million	Camel Circle of the Industrial park
28 Hunan Tianhe Solar Power Development Co., Ltd.	Power station project development	RMB	160 million	Tianxin District, Ch: Star City, 369 Xiang Rongyuyuan Compl
29 Changzhou Jintan Tianhe Photovoltaic Power Co., Ltd.	Power station project development	RMB	11.76 million	Jinxikai, Jintan Dist: 66 Pengcheng Road.
30 Malong Tianhe Solar Power Co., Ltd.	Power station project development	RMB	18 million	Malong County, Quj Wenhua Road, Tong Yuhang District, Hai
31 Hangzhou Yourui Power Technology Co., Ltd.	Power station project development	RMB	92,018,559 million	Xinbei, Qianjiang E: International Buildir
32 Quzhou Kecheng Huineng New Energy Co., Ltd.	Power station project development	RMB	1000000	Kecheng District, Qi No. 1 Huizhou Stree 103 rooms
33 Hongze Heyuan Photovoltaic Power Co., Ltd.	Power station project development	RMB	112,082,953	East of Renmin Roa South side of east ro
34 Yishui Xinshunfeng Photoelectric Technology Co., Ltd.	Power station project development	RMB	2,145,568,685	C00613 Tengfei Roa No. 1 Building No. 1

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Trina Solar Co., Ltd.					Prospe

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Trina Solar Co., Ltd.					Prospect
					Building 1712
47 Jiangsu Tiansai New Energy Development Co., Ltd.	Power station project development	RMB	100 million	Tianhe Road, Xinbe number 2	
48 Bachu County Huaguang Power Generation Co., Ltd.	Power station project development	RMB	127.7 million	Bachu County, Kash Jiranthala Village (Basa Highway Speed)	
49 Wujiayu Juneng Weiye New Energy Investment Co., Ltd.	Power station project development	RMB	50 million	Long March West, V 760 Street	
50 Yingshang County Runneng New Energy Co., Ltd.	Power station project development	RMB	15,4.4 million	People's Government Office building	
51 Hainan Heshengchang Solar Power Co., Ltd.	Power station project development	RMB	1000000	Longhua District, H Lida Apartment, 50 3-102 rooms	
52 Changzhou Tianchuyao New Energy Co., Ltd.	Power station project development	RMB	5.195 million	Tianhe Road, Xinbe number 2	
53 Xuyi Jingtian Photovoltaic Power Co., Ltd.	Power station project development	USD	10 million	Guiwu Town, Xuyi street	
54 Jiuquan Tianhe Tianyuan Electric Power Co., Ltd.	Power station project development	RMB	5.19 million	Suzhou District, Jiuc Industrial Park (Sou Lee Road 1	
55 Weifang Yuanjing Photovoltaic Technology Co., Ltd.	Power station project development	RMB	1000000	Qingzhou City, Weit Wangfu Shopping P Room 60, Floor G	
56 Suqian Water Green Photovoltaic Power Co., Ltd.	Power station project development	RMB	1000000	Suqian Economic an 72 buildings in Huai No. 88	
57 Laiwu Guangneng Energy Development Co., Ltd.	Power station project development	RMB	1000000	Steel City Economic Gangcheng Street, E	

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Trina Solar Co., Ltd.					Prospect
					Duan (Daguanzhuan
58 Bozhou Xuyang New Energy Power Generation Co., Ltd.	Power station project development	RMB	2,978,551,027 million	Gujing Town, Qiaoc Kongyang Natural V Baotou City, Inner M	
59 Inner Mongolia Tianhe Energy Management Co., Ltd.	Power station project development	RMB	10 million	Darhan Maomingan Barun Industrial Par Soil Raw Material P Xianglu Mountain, 3	
60 Luoyang Yuhua New Energy Co., Ltd.	Power station project development	RMB	10 million	1000 meters east of South Huayu Optoelectronics Company office building	
61 Suining Hechuang Energy Development Co., Ltd.	Power station project development	RMB	1,096,257,127	Suining County Eco Star Home Appliance	

62 Yecheng County Yuanguang Energy Co., Ltd.	Power station project development	RMB	1000000	Yecheng County, Ka Photovoltaic Industr
63 Shouguang Fuhe Photovoltaic Technology Co., Ltd.	Power station project development	RMB	17.162098 million	North of Plaza Stree 12 East of Shilu Changshu High-tech
64 Suzhou Xinmeilan Photovoltaic Power Co., Ltd.	Power station project development	RMB	1000000	No. 333 Hushan Roa Ji Technology Plaza
65 Tumote Right Banner Tianhui New Energy Power Generation Co., Ltd.	Power station project development	RMB	1000000	Tumote Right Banne Fengshan Ecologica
66 Yuxian Tiansheng Photovoltaic Power Generation Co., Ltd.	Power station project development	RMB	69.04 million	West of Sunjiazhuan Yadi Village
67 Suqian Tianqi New Energy Investment Co., Ltd.	Power station project development	USD	3000000	Suqian Economic an A12, West District, ' Dong
68 Shiyan Guiyuan Photovoltaic Power Generation Co., Ltd.	Power station project development	RMB	1000000	Renmin North, Mao Road 13, Building 1

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Trina Solar Co., Ltd.				Prospe
69 Huaian Jingtian Photovoltaic Power Co., Ltd.	Power station project development	USD	1000000	Jialing Township, H No. 88, Shaozecun (
70 Changzhou Tianbei Photovoltaic Power Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe number 2
71 Weichang Manchu Mongolian Autonomous County Tiantai New Energy Development Co., Ltd.	Power station project development	RMB	1000000	Yixun Shangpin Cor No. 8 bottom quotie Fengningman, Chen
72 Fengning Manchu Autonomous County Tiantai New Energy Co., Ltd.	Power station project development	RMB	1000000	Autonomous County Room 102, No. 6, C
73 Hefei Trina Energy Internet Co., Ltd.	Power station project development	RMB	100 million	Hefei Comprehensiv He Bonded Zone
74 Changzhou Ganghua Tianhe Smart Energy Co., Ltd.	Power station project development	RMB	6000000	Trina Solar, Xinbei 1 No. 2, Tianhe Road,
75 Laiwu Tianxin Photovoltaic Power Co., Ltd.	Power station project development	RMB	1000000	Nonggao District, Li East end of Zhenmei
76 Changzhou Changhe New Energy Co., Ltd.	Power station project development	RMB	10 million	Tianhe Road, Xinbe number 2
77 Taiyuan Tianlan New Energy Development Co., Ltd.	Power station project development	RMB	1000000	Shanxi Comprehens 39 Industrial Road, ' Room 1102, Buildin
78 Yijun County Tianxing New Energy Co., Ltd.	Power station project development	RMB	30,000 million	Yiyang Sub-district Beijie Haicheng Ma Shouyang County, Ji
79 Shouyang County Tianxiang New Energy Development Co., Ltd.	Power station project development	RMB	1000000	Villager Committee meeting
80 Pingshun County Guohe Photovoltaic Power Generation Co., Ltd.	Power station project development	RMB	1000000	Pingshun County, Cl Beiganquan Village, Economic and Tech

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Trina Solar Co., Ltd.				Prospe
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81 Zhangjiakou Heyuan Smart Energy Co., Ltd.	Power station project development	RMB	1000000	Zhangbei, Zhangjiakou County Jinyuan Min 1-13 base quotient
82 Shijiazhuang Guanghe New Energy Technology Co., Ltd.	Power station project development	RMB	1000000	Chang'an, Shijiazhuang No. 179, Jianshe Av No. 1009-2, 10th Fl Lhasa City, Tibet At Gesang Road, Econo
83 Tibet Trina Photovoltaic System Integration Co., Ltd.	Power station project development	RMB	60,000 million	No. 5 Lhasa Econon The headquarter eco Room 1408
84 Changzhou Zhuohui New Energy Development Co., Ltd.	Power station project development	RMB	10 million	Trina Solar, Xinbei 1 No. 2, Tianhe Road,
85 Wanning Liqun Photovoltaic Development Co., Ltd.	Component production and sales	RMB	50 million	Fenghua Park, Dong E4-14
86 Changzhou Dingpai New Energy Development Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
87 Yijun County Zhuohui New Energy Co., Ltd.	Power station project development	RMB	10 million	Yijun County, Tongc Yiyang Sub-district Beijie Haicheng Ma
88 Changzhou Ruri New Energy Development Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
89 Linlichenqi New Energy Development Co., Ltd.	Wind power project development and construction Design and management	RMB	1000000	Linli County, Chang Xiangfu Avenue, Ec Innovation and Pion floor
90 Changzhou Yitian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
91 Changzhou Weitian New Energy Co., Ltd.	Power station project development	RMB	1 million	Tianhe Road, Xinbei 1

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				2-1
92 Changzhou Yuantian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
93 Changzhou Jinhe New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
94 Pinglu County Tianlu New Energy Co., Ltd.	Power station project development	RMB	1000000	Shengrenjian Town, Li Bao beside Nation Expensive house
95 Nehe Weitian New Energy Co., Ltd.	Power station project development	RMB	1000000	Fishery Building, Sc downstairs
96 Jinzhong Jinhe New Energy Co., Ltd.	Power station project development	RMB	1000000	Yuci District, Jinzho Beiyao Village, Xiuy
97 Fuxin Tianfu Solar Power Co., Ltd.	Power station project development	RMB	1000000	Qinghe Gate, Fuxin Qinghe Street, Qing North Building 4th I
98 Jiangsu Hesheng Energy Engineering Co., Ltd.	Power station project development	RMB	100 million	Trina Solar, Xinbei 1 2-1 Tianhe Road, Fu number
99 Changzhou Tiansui New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
100 Changzhou Yangtian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
101 Changzhou Mengtian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbe 2-1
102 Chongqing Tianrui Smart Energy Co., Ltd.	Power station project development	RMB	1000000	Xinshi Street, Chang 6 Daoxinmin Road

103 Jinhu County Qianyuan New Energy Development Co., Ltd.	Power station project development	RMB	500000	Tongtai University, 1 South Complex, No. 1 layer
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Trina Solar Co., Ltd.				Prospect
104 Changzhou Rongtian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbei 2-1
105 Changzhou Daotian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbei 2-1
106 Changzhou Ruiwei New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbei 2-1
107 Changzhou Kaitian New Energy Co., Ltd.	Power station project development	RMB	1000000	Tianhe Road, Xinbei 2-1
108 Jingzhou Tianhe Photovoltaic Co., Ltd.	Power station project development	RMB	10 million	Shashi District, Jing Group 3 of Jinji Vill Villagers Committee Building 301
109 Maoming Yuanbao New Energy Co., Ltd.	Power station project development	RMB	1000000	No. 33, Civic Avenue Yifeng Plaza Phase 1 Floor 114-115 Room
Electricity sales company (3 companies)				
110 Jiangsu Tianhe Power Sales Co., Ltd.	Selling electricity	RMB	20 million	Gaoyunling, Gulou 1 No. 39
111 Xiamen Tianguang Energy Co., Ltd.	Selling electricity	RMB	20 million	Haifuli, Haicang District 334 Room 704 4
112 Jiangxi Guangling Energy Co., Ltd.	Selling electricity	RMB	20 million	Nanchang Gao, Nan New Technology Inc Poly East, 1866 East Bay International Gate Room 104, Ye Build
EPC company (2 companies)				
113 Changzhou Tianhe Smart Energy Engineering Co., Ltd.	EPC business	RMB	270 million	Trina Solar, Xinbei 1 No. 2, Tianhe Road,
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Trina Solar Co., Ltd.				Prospect
114 Zhanjiang Tianyue New Energy Co., Ltd.	EPC business	RMB	1000000	Zhanjiang Economic Cham, 128 Ocean D Jiangwanda Plaza B 2501 office
Other types of companies (15 companies)				
115 Changzhou Hechuang Testing Technology Co., Ltd.	Technical testing service	RMB	5000000	Liuyang River, Xint Road 97
116 Gu'an Microgrid Energy Technology Co., Ltd.	technology R & D	RMB	1000000	Gu'an County, Lang South of Dongfang 3 Side (Chuangye Bui
117 Jiangsu Chengyuhe Innovative Material Technology Co., Ltd.	Technical testing	RMB	30 million	Times Business in X

118 Tianhe Cloud Energy Internet Technology (Hangzhou) Co., Ltd.	technology R & D	RMB	50 million	Room 2001, Buildin Binjiang District, H
119 Trina Home Photovoltaic Technology (Huai'an) Co., Ltd.	Home photovoltaic research and development	RMB	5000000	Room 2206, Buildin Economic Developm Hongze, No. 9 Huai Software center
120 Xiangtan Tongcheng Real Estate Service Co., Ltd.	Property for rent	RMB	5000000	Yuetang District, Xi 19 Furong Middle R Building 32, Xiangli 0104001
121 Nanjing Tiance Robot Technology Co., Ltd.	Robots and accessories, industrial automation Automation equipment and accessories, machinery Sales, leasing and Technology consulting, technology transfer, Technical Services	RMB	3000000	East Mozhou, Jiang Road 12
122 Jiangsu Tiance Robot Technology Co., Ltd.	Robots and accessories, industrial automation Automation equipment and accessories, machinery	RMB	1500 dollars	Tianhe Road, Xinbe 2-1

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Trina Solar Co., Ltd.				Prospe
	R&D, design of parts, Manufacturing, processing, sales and technology Technology consulting, technology transfer, technology Technical service; goods or technology Export			
123 Changzhou Tianwei New Energy Co., Ltd.	Research and development of power batteries; Sun Development and construction of energy power plants, Operation and maintenance	RMB	1000000	Tianhe Road, Xinbe 2-1
124 Changzhou Tianqing New Energy Co., Ltd.	Research and development of power batteries; Sun Development and construction of energy power plants, Operation and maintenance	RMB	1000000	Tianhe Road, Xinbe 2-1
125 Changzhou Tianyi New Energy Co., Ltd.	Research and development of power batteries; Sun Development and construction of energy power plants, Operation and maintenance	RMB	1000000	Tianhe Road, Xinbe 2-1
126 Qian'an Tianze Solar Power Co., Ltd.	Investment in solar photovoltaic power plants Capital, development, construction, operation Management and maintenance	RMB	1000000	Qian'an County, Son Ganzi Village, Zanzi
127 Chengde Hengneng Photovoltaic Power Co., Ltd.	Solar power generation, electricity sales service Service, solar power technology service Services, construction and operation of photovoltaic power plants, management	RMB	1000000	Weichang Manchu M Weichang Town Cha 300 meters east of th
128 Hegang Weiming New Energy Co., Ltd.	New energy technology promotion services, Solar power, solar power Electrical engineering construction	RMB	1000000	21 Committee of Xi (Xingshan District C Office Building Roo
129 CF Solar Technology (Shanghai) Co., Ltd.	Technical consulting, technical service	RMB	1000000	Yude Road, Xuhui I Room 1501, 168
130 Yancheng Tianqi Smart Energy Co., Ltd.	Contract energy management	RMB	1000000	Yancheng Economic Wutaishan Road No Room 508, Building

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2. Overseas subsidiaries (181 companies in total), the relevant information is as follows:

Production company (7 companies)					
Serial number	company name	Establishment or acquisition time	Operating business	Shareholders / company members / actual equity / board of directors	
1	TRINA SOLAR (VIETNAM) SCIENCE & TECHNOLOGY CO., LTD	July 2016	Components and battery production and sales	Trina Solar (Singapore) Science & Technology New Energy PTE.LTD 100%	
2	Trina Solar (Netherlands) BV	November 2015	Battery production and sales	Trina Solar (Schweiz) AG 100%	
3	Trina Solar (Netherlands) Real Estate BV	November 2015	Battery production and sales	Trina Solar (Schweiz) AG 100%	
4	Trina Solar Science & Technology (Thailand) Ltd.	April 2015	Component production and sales	Trina Solar (Singapore) Science & Technology Development Pte. Ltd 99.9999%; Trina Solar (Singapore) Science & Technology Pte. Ltd 0.00003%; Trina Solar Energy Development Pte. Ltd. 0.00003%; Trina Solar (Singapore) Science and Technology Energy Pte Ltd 99.99997%; Trina Solar Energy Development Pte Ltd 0.00003%	
5	Trina Solar (India) Private Limited	December 2015	Component production and sales	Trina Solar (Singapore) Science & Technology Pte Ltd 99.99997%; Trina Solar Energy Development Pte Ltd 0.00003%	
6	Nclave Manufacturing SLU	Before January 2016	Bracket production and sales	NClave Renewable, SL 100%	9
7	NCLAVE ENERGY KENYA LIMITED	April 2019	Design and produce bracket	BARCLAYS PLAZA, Loita Street, PO Box 9539-00100-GPO NAIROBI	1
Sales and trading companies (30 companies)					
8	Trina Solar Energy India Private Ltd	July 2015	Component sales	(1) Trina Solar (Singapore) Pte Ltd. 99.99994%; (2) Trina Solar Energy Development Pte Ltd. 0.00006%	
9	Trina Solar Asia Channel & Systems Pte. Ltd.	September 2017	Component sales	Trina Solar Asia Solutions & Services Pte. Ltd 100%	S
10	Trina Solar (Japan) Limited	Before January 2016	Component sales	Trina Solar (Singapore) Pte. Ltd. 100%	

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11	Trina Solar (Australia) Pty Ltd.	May 2011	Component sales	Trina Solar (Luxembourg) Holdings SARL 100%	
12	Trina Solar Energy Development Pte. Ltd.	April 2010	Component sales	Trina Solar (Singapore) Science & Technology Pte. Ltd 100%	S
13	Trina Solar Middle East Limited	November 2011	Component sales	(1) Before the re-election of the board of directors in 2018, there were 2 people: And Haiyan Sun; (2) After the re-election of the board of directors in 2018, a total of 2 people: And Li Yan.	U
14	Trina Photovoltaic (South Africa) Pty Ltd	May 2014	Component sales	Trina Solar (Luxembourg) Holdings SARL 100%	
15	Trina Energy Storage Japan Co., Ltd.	Before January 2018	Energy storage products sold in Japan	Trina Energy Storage Solutions (Singapore) Pte. Ltd 100%	
16	Trina Solar (Luxembourg) SARL	June 2009	Component sales	Trina Solar (Luxembourg) Holdings SARL 100%	I
17	Trina Solar (Germany) GmbH	Before January 2017	Component sales	Trina Solar (Luxembourg) Holding SA 100%	
18	Trina Solar (Schweiz) AG	October 2009	Component sales	Trina Solar (Luxembourg) Holdings S.à r.l 100%	
19	Trina Solar (Spain) SLU	Before January 2016	Component sales	Trina Solar (Luxembourg) Holdings, S.à r.l 100%	S
20	Trina Solar (Italy) Srl	Before January 2016	Component sales	Trina Solar (Luxembourg) Holdings Sarl 100%	I
twenty one	Trina Solar (UK) Ltd	Before January 2016	Component sales	Trina Solar (Luxembourg) Holdings SARL 100%	
twenty two	Trina Solar Enerji Sistemleri Sanayi ve Ticaret Limited Sirketi	April 2017	Component sales	Trina Solar (Luxembourg) Holdings Sarl 100%	I
twenty three	Hank Energie Storage Vertrieb und Service GmbH	July 2016	Energy storage products sold in Germany	TRINA Energy Solutions (Singapore) Pte. Ltd 100%	

twenty four	Trina Solar (US) Inc.	September 2009	Component sales	Trina Solar (US) Holding, Inc 100%	
25	Trina Solar (Canada) Inc.	Before January 2016	Component sales	Trina Solar (Luxembourg) Holdings SARL 100%	C
26	Trina Solar (Chile) SpA	July 2012	Component sales	Trina Solar Systems Chile SpA 100%	
27	Trina Solar Mexico SA de CV	Before January 2016	Component sales	(1) Trina Solar (Schweiz) AG 98%;	N

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				(2) Trina Solar (US) Inc 2%	
				(1) TRINA SOLAR (LOUXEMBOURG) HOLDINGS SARL;	
28	TRINA SOLAR (Brasil) Representacao e Marketing Ltda.	February 2017	Component sales	versus (2) TRINA SOLAR (LOUXEMBOURG) SARL Total holding 100%	
				(1) TRINA SOLAR (LOUXEMBOURG) HOLDINGS SARL	
29	Trina Solar Latam Services Inc	February 2017	Component sales	versus (2) TRINA SOLAR (LOUXEMBOURG) SARL Total holding 100%	
30	MFV Solar el Salvador, SA de CV	August 2015	Component sales	(1) MFV MANUFACTURING, SA 99.95%; (2) Mr. Enrique Aymerich de Vega 0.05%	S
31	NClave Japan KK	Before January 2016	Component sales	NCLAVE Renewable, SL 100%	
32	Grupo Clavijo Chile Limitada	May 2014	Component sales	(1) NClave Manufacturing, SLU; (2) Nclave Renewable, SL	
33	Nclave Australia Pty. Limited	October 2017	Component sales	Nclave Renewable SL 51%	A
34	NClave US Corp.	February 2016	Component sales	NClave Manufacturing SL 100%	
35	Nclave Renewables, S. de RL de CV	March 2017	Component sales	(1) Nclave Renewable, SL 99.998%; (2) Nclave Manufacturing, SL 0.002%	N
36	Nclave Jamaica Limited	July 2018	Component sales	(1) NClave Renewables SL 99.99% (2) Dawkins Brown 0.01%	J
37	Nclave Renewable, SL	May 2018	Component sales	(1) The Singapore company Trina Solar Globai Merger & Acquisition Pte. Ltd. 51.01%; (2) Other shareholders 48.99%	S

Investment holding companies (23 companies)

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38	Trina Solar (Singapore) Third Pte. Ltd	March 2014	Investment holding	Trina Solar (Luxembourg) EU Systems S.à rl 100%	€
39	Trina Solar (Hong Kong) First Holdings Limited	Before January 2016	Investment holding	Trina Solar (Luxembourg) EU Systems S.à rl 100%	
40	Trina Solar (Hong Kong) Third Holdings Limited	Before January 2016	Investment holding	Trina Solar (Singapore) Third Pte. Ltd 100%	
41	Trina Solar (Singapore) Science & Technology Pte. Ltd	August 2014	Investment holding	Trina Solar (Changzhou) Science & Technology Co., Ltd 100%	€
42	Trina Solar (Singapore) Science & Technology Development Pte. Ltd	March 2015	Investment holding	Trina Solar Energy Development Pte. Ltd. 100%	€
	Trina Solar (Singapore) Science &				

43	Technology Energy Pte. Ltd	May 2015	Investment holding	Trina Solar Energy Development Pte. Ltd. 100%	€
44	Trina Solar Investment Pte. Ltd.	January 2016	Investment holding	Trina Solar (Singapore) Pte. Ltd 100%	€
45	Trina Solar (Singapore) Science & Technology New Energy Pte. Ltd	March 2017	Investment holding	Trina Solar Energy Development Pte. Ltd 60% EZ International Limited, 40%	€
46	Trina Solar Asia Solutions & Services Pte. Ltd	September 2017	Investment holding	Trina Solar Energy Development Pte. Ltd 100%	€
47	Angsana Project Development Pte. Ltd.	September 2017	Investment holding	Trina Solar Asia Solutions & Services Pte. Ltd. 100%	€
48	Begonia Project Development Pte. Ltd.	September 2017	Investment holding	Trina Solar Asia Solutions & Services Pte. Ltd 100%	€
49	Trina Solar (Japan) Holdings Limited	Before January 2018	Investment holding	Trina Solar (Singapore) Pte. Ltd 100%	
50	Trina Energy Storage Solutions (Singapore) PTE. LTD.	July 2016	Energy storage product holdings station	Trina Energy Storage Solutions (Jiangsu) Co., Ltd 100% Singapore	
51	Trina Solar (Luxembourg) Holdings SARL	November 2009	Investment holding	Trina Solar (Singapore) Pte. Ltd. 100%	I
52	TRINA SOLAR (LUXEMBOURG) OVERSEAS SYSTEMS S.à r l	June 2013	Investment holding	Jiangsu Trina Solar Power Development Company Limited 100%	I
53	Trina Solar (Luxembourg) EU Systems S.à r l	November 2013	Investment holding	Trina Solar (Luxembourg) Holdings SARL 100%	I

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54	Trina Solar (Netherlands) Holdings BV	July 2016	Investment holding	Trina Solar (Luxembourg) EU Systems S.à.r.l 100%	
55	Trina Solar (US) Holding Inc.	September 2009	Investment holding	Trina Solar (Schweiz) AG 100%	
56	Trina Solar (US) Distribution Holding, Inc.	December 2017	Investment holding	Trina Solar (US) Holding Inc 100%	
57	Trina Solar Systems (Chile) SpA	September 2012	Investment holding	Trina Solar Luxembourg Holdings SARL 100%	
58	Trina Solar Global Merger & Acquisition Pte. Ltd.	January 2018	Investment holding	Trina Solar Energy Development Pte. Ltd 100%	€
59	Trina Solar Global PV System Solution Pte. Ltd.	January 2018	Investment holding	Trina Solar Energy Development Pte. Ltd 100%	€
60	Trina Solar Investment First Pte. Ltd.	June 2018	Investment holding	Trina Solar Investment Pte. Ltd 100%	€

Project companies (118 companies)

61	Trina Solar Japan Energy Co.,Ltd	July 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
62	Clean Earth KK	December 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
63	Carolina Solar Farm, LLC	September 2012	Power station project development	Trina Solar (Puerto Rico) Development, LLC	
64	Mira Zavass Private Limited	April 2015	Power station project development	TrinaSolar Singapore Third Pte. Limited 99.9999%; Biswajit Dutta 0.0001%	
65	SPICA Zavass Private Limited	April 2015	Power station project development	TrinaSolar Singapore Third Pte. Limited 99.9998%; Biswajit Dutta 0.0002%	
66	Tanagra Solar Energy SA (ex Solar Viotia I Energiaki Ltd)	October 2013	Power station project development	TRINA SOLAR (LUXEMBOURG) OVERSEAS SYSTEMS S.à r l 99.50% Trina Solar (Luxembourg) SARL 0.50%	
67	S. Aether Energy SA (ex Ioannis Panagiotopoulos Irida Photovoltaics SA)	November 2011	Power station project development	TRINA SOLAR (LUXEMBOURG) OVERSEAS SYSTEMS S.à r l 100%	
68	Trina Solar US Development LLC	August 2010	Power station project development	Trina Solar (US) Holding Inc. 100%	
69	Witherington Solar Farm Limited	Before January 2017	Power station project development	Trina Solar (Luxembourg) EU Systems S.à r l 100%	
70	TSF Constructions Limited	Before January 2017	Power station project development	Trina Solar (Luxembourg) EU Systems S.à r l 100%	

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71	UK Solar Holdco Limited	Before January 2017	Power station project development	Trina Solar (Luxembourg) EU Systems S.à r.l 100%	
72	Trina Solar (Spain) Systems SLU	Before January 2018	Power station project development	Trina Solar (Luxembourg) EU Systems S.à r.l 100%	5
73	LightBeam Power Company Gridley Main LLC	December 2010	Power station project development	Trina Solar US Development LLC	
74	LightBeam Power Company Gridley Main Two LLC	December 2010	Power station project development	Trina Solar US Development LLC	
75	Planta Solar Juárez SA de CV	Before January 2016	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 98%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 2%	1
76	Planta Solar SLP, SA de CV	October 2017	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 98%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 2%	1
77	Planta Mexicali, SA de CV	October 2017	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 98%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 2%	1
78	Framor Solar Plant 2, SA de CV	October 2016	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 99%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 1%	1
79	Mexsun Chihuahua, SA de CV	September 2017	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 99.998%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 0.002%	1
80	Mexico Lindo Solar PV II, SA de CV	June 2016	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 99.998%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 0.002%	1
81	Recursos Solares PV de México III, SA de CV	April 2016	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 90%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 10%	1
82	Framor Solar Plant 1, SA de CV	October 2017	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 99%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 1%	1
83	Desarrollos Solares PV de Mexico I, SA de CV	March 2017	Power station project development	(1) Trina Solar (Netherlands) Holdings BV 99.998%; (2) Trina Solar (Luxembourg) EU Systems S. a RL 0.002%	1

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84	Trina Solar Japan 1 GK	August 2014	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
85	Sirius Solar Japan 6 GK	April 2015	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
86	Sirius Solar Japan 7 GK	April 2015	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
87	Sirius Solar Japan 9 GK	April 2015	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
88	Sirius Solar Japan 15 GK	July 2015	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
89	Sirius Solar Japan 20 GK	December 2016	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
90	Sirius Solar Japan 23 GK	December 2016	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
91	Sirius Solar Japan 31 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
92	Sirius Solar Japan 35 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
93	Sirius Solar Japan 39 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
94	Sirius Solar Japan 40 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
95	Sirius Solar Japan 41 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
96	Sirius Solar Japan 42 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
97	Sirius Solar Japan 43 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
98	Sirius Solar Japan 44 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	

99	Sirius Solar Japan 45 GK	April 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
100	Sirius Solar Japan 46 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
101	Sirius Solar Japan 47 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
102	Sirius Solar Japan 48 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
103	Sirius Solar Japan 49 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%

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104	Sirius Solar Japan 50 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
105	Sirius Solar Japan 51 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
106	Sirius Solar Japan 52 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
107	Sirius Solar Japan 53 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
108	Sirius Solar Japan 54 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
109	Sirius Solar Japan 55 GK	July 2018	Power station project development	Trina Solar Japan 1 GK 100%
110	Sirius Solar Japan 56 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
111	Sirius Solar Japan 57 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
112	Sirius Solar Japan 58 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
113	Sirius Solar Japan 59 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
114	Sirius Solar Japan 60 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
115	Sirius Solar Japan 61 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
116	Sirius Solar Japan 62 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
117	Sirius Solar Japan 63 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
118	Sirius Solar Japan 64 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
119	Sirius Solar Japan 65 GK	November 2018	Power station project development	Trina Solar Japan 1 GK 100%
120	Clean Energies Rioja KK	July 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
121	Clean Energies Resources KK	July 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
122	MegaSolar 1413-L GK	December 2017	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
123	Megasolar 1414-L GK	April 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%

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124	Megasolar 1415-L GK	July 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
125	LOHAS ECE GREEN KK	April 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
126	Univergy 29 GK	September 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
127	Univergy 93 GK	September 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%
128	Univergy 94 GK	September 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%

129	Univergy 95 GK	September 2018	Power station project development	Trina Solar (Hong Kong) First Holdings Limited 100%	
130	Trina Solar Colombia SAS	July 2018	Power station project development	Trina Solar (Spain) Systems SLU 100%	(
131	SolarTM Operations, SA de CV	June 2018	Power station project development	(1) Trina Solar (Spain) Systems SLU 99.99%; (2) TRINA SOLAR (LUXEMBOURG) OVERSEAS SYSTEMS S.à r.l 0.01%	I
132	Trina Solar Greece I	September 2018	Power station project development	Trina Solar (Luxembourg) Overseas Systems S.à r.l 100%	
133	Trina Solar Greece II	September 2018	Power station project development	Trina Solar (Luxembourg) Overseas Systems S.à r.l 100%	
134	TES Development Srl	February 2019	Power station project development	Via Moscova 12, 20121, Milan (Italy)	I
135	Trina Solar Italy Systems Srl	April 2019	Power station project development	Piazza Borromeo 14, 20123, Milan (Italy)	I
136	Trina Solar Sicilia 1 Srl	June 2019	Power station project development	Piazza Borromeo 14, 20123, Milan	I
137	Trina Solar Sicilia 2 Srl	June 2019	Power station project development	Piazza Borromeo 14, 20123, Milan	I
138	Trina Solar Basilicata 1 Srl	June 2019	Power station project development	Piazza Borromeo 14, 20123, Milan	I
139	TRINA SOLAR (France) Systems	February 2019	Power station project development	78, Allee Jean Jaures Le Pre Catelan Batiment F 31000 Toulouse, France	
140	Trina Solar Greece III	May 2019	Power station project development	5 Givathemom St. Glyka Nera, 15354, Attica Greece	
141	Trina Solar Sicilia 3 Srl	July 2019	Power station project development	Piazza Borromeo 14, 20123, Milan	I

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142	Trina Solar Sardegna 1 Srl	July 2019	Power station project development	Piazza Borromeo 14, 20124, Milan	I
143	Trina Solar Sardegna 2 Srl	July 2019	Power station project development	Piazza Borromeo 14, 20125, Milan	I
144	Bosques Solares de los Llanos 1	July 2019	Power station project development	Manzana 31 Lote 12 Etapa 3, Cartagena, Colombia	(
145	Bosques Solares de los Llanos 2	July 2019	Power station project development	Manzana 31 Lote 12 Etapa 3, Cartagena, Colombia	(
146	Trina Solar Middle East & Africa DMCC	July 2019	Power station project development	Unit No. One JLT-5-00, Plot No. DMCC- EZ1-1AB, Jumeirah Lake Tower Dubai, UAE	/
147	Absalona Hill Road, LLC	August 2019	Power station project development	100 Century Center Court, Suite 501, San Jose, CA 95112	(
148	Greenville Road Solar, LLC	August 2019	Power station project development	39 American Way, Fletcher, NC 28732	
149	Howard Lane Solar, LLC	August 2019	Power station project development	100 Century Center Court, Suite 501, San Jose, CA 95122	(
150	Lirio de Campo Solar SpA	September 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	
151	Quillay Solar SpA	September 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	
152	Agro Solar V SpA	September 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	
153	Agro Solar IV SpA	September 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	
154	Tallin Investments, SLU	August 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	€
155	ARAKE INVESTMENTS, SL	August 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	€
156	CHENLA INVESTMENTS, SL	August 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	€
157	DURALIA INVESTMENTS, SL	August 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	€
158	FERDILAN INVESTMENTS, SL	August 2019	Power station project development	Av. Nueva Tajamar, 555, Oficina 1501, Las Condes, Santiago, Chile	€

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159	GENEVE DOS IBERICA, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
160	GRACE INVESTMENTS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
161	GREEN BAY PACKERS SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
162	GRENOBLE PLUS COMPANY, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
163	HEROS VIRTUAL TIME SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
164	LIMA GROUP TIME, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
165	MIAMI STAR SYSTEMS SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
166	MORALINA INVESTMENTS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
167	REAL ENGLAND ADVISERS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
168	RENOLA INVESTMENTS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
169	REPALA INVESTMENTS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
170	TUNALANDIA INVESTMENTS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
171	VISLANDI INVESTMENTS, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
172	VOLTERRA EMPRESARIAL, SL	August 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
173	Trina Solar Generador Colombia–Campano	October 2019	Power station project development	Trina Solar Colombia SAS 100%
174	Trina Solar Generador Colombia–SanFelipe	October 2019	Power station project development	Trina Solar Colombia SAS 100%
175	Trina Solar Generador Colombia–Cartago	October 2019	Power station project development	Trina Solar Colombia SAS 100%
176	Trina Solar (Portugal) Systems, LDA	October 2019	Power station project development	Trina Solar (Spain) Systems, SLU 100%
177	TS Hold Co Pty Ltd	October 2019	Power station project development	Trina Solar Energy Development Pte Ltd 100%

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178	Trina Solar Greece IV	December 2019	Power station project development	Trina Solar (Spain) Systems SLU 100%
EPC company (2 companies)				
179	Trina Solar Asia Engineering & Services Pte. Ltd.	September 2017	EPC business	Trina Solar Asia Solutions & Services Pte. Ltd 100%
180	TS EPC DE MEXICO SA de CV	April 2017	EPC business	(1) UK Solar Holdco Limited 99%; (2) Trina Solar (Luxembourg) EU Systems S.à.r.l. 1%
Other types of companies (1)				
181	Japan Future Renewable Energy Research Institute	Before January 2018	Renewable energy research	(1) Trina Solar (Japan) Limited 51% (2) Kuni Umi Asset Management Co. Ltd. 49%

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Attachment 2: Issuer's trademark situation

1. Domestic trademarks obtained by the issuer

Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
1	Issuer		9004233	1	2012.2.14	2022.2.13	Original acquisition	no
2	Issuer		9004249	2	2012.6.28	2022.6.27	Original acquisition	no
3	Issuer		9004263	3	2012.2.14	2022.2.13	Original acquisition	no
4	Issuer		8951364	4	2012.2.7	2022.2.6	Original acquisition	no
5	Issuer		9004335	5	2012.4.14	2022.4.13	Original acquisition	no
6	Issuer		9009563	6	2012.1.14	2022.1.13	Original acquisition	no
7	Issuer		9004371	7	2012.2.21	2022.2.20	Original acquisition	no
8	Issuer		9004392	8	2012.2.21	2022.2.20	Original acquisition	no
9	Issuer		9006248	9	2012.5.21	2022.5.20	Original acquisition	no
10	Issuer		9009573	10	2012.2.28	2022.2.27	Original acquisition	no
11	Issuer		8951410	11	2011.12.21	2021.12.20	Original acquisition	no
12	Issuer		9024978	12	2014.5.7	2024.5.6	Original acquisition	no
13	Issuer		9004435	13	2012.1.21	2022.1.20	Original acquisition	no
14	Issuer		9004408	15	2012.1.14	2022.1.13	Original acquisition	no
15	Issuer		9004431	16	2012.2.14	2022.2.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
16	Issuer		9009596	17	2012.10.14	2022.10.13	Original acquisition	no
17	Issuer		9009605	18	2012.1.14	2022.1.13	Original acquisition	no

18	Issuer	8951451	19	2012.9.28	2022.9.27	Original acquisition	no
19	Issuer	9009623	20	2012.8.14	2022.8.13	Original acquisition	no
20	Issuer	9009644	twenty one	2013.1.28	2023.1.27	Original acquisition	no
twenty one	Issuer	9009654	twenty two	2012.1.14	2022.1.13	Original acquisition	no
twenty two	Issuer	9009668	twenty three	2012.1.14	2022.1.13	Original acquisition	no
twenty three	Issuer	9009684	twenty four	2012.1.14	2022.1.13	Original acquisition	no
twenty four	Issuer	9020886	25	2012.3.28	2022.3.27	Original acquisition	no
25	Issuer	9020925	26	2012.1.14	2022.1.13	Original acquisition	no
26	Issuer	9020947	27	2012.1.14	2022.1.13	Original acquisition	no
27	Issuer	9020975	28	2012.1.14	2022.1.13	Original acquisition	no
28	Issuer	9020999	29	2012.9.28	2022.9.27	Original acquisition	no
29	Issuer	9021024	30	2012.1.14	2022.1.13	Original acquisition	no
30	Issuer	9021075	32	2012.1.14	2022.1.13	Original acquisition	no
31	Issuer	9021092	33	2012.1.14	2022.1.13	Original acquisition	no
32	Issuer	9021121	34	2012.1.14	2022.1.13	Original acquisition	no
33	Issuer	9025003	35	2014.1.7	2024.1.6	Original acquisition	no
34	Issuer	9006247	37	2014.5.7	2024.5.6	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	Category	Registration date	Effective date	How to get	Other right
35	Issuer		9032985	38	2012.1.21	2022.1.20	Original acquisition	no
36	Issuer		9033007	39	2012.6.7	2022.6.6	Original acquisition	no
37	Issuer		9033033	40	2012.5.14	2022.5.13	Original acquisition	no
38	Issuer		9033045	41	2012.9.21	2022.9.20	Original acquisition	no
39	Issuer		9033064	42	2013.12.28	2023.12.27	Original acquisition	no
40	Issuer		9033093	45	2012.5.21	2022.5.20	Original acquisition	no
41	Issuer		28961229	9	2019.1.7	2029.1.6	Original acquisition	no
42	Issuer		21509442	4	2017.11.28	2027.11.27	Original acquisition	no
43	Issuer		21509413	6	2017.11.28	2027.11.27	Original acquisition	no
44	Issuer		21509331	7	2017.11.28	2027.11.27	Original acquisition	no
45	Issuer		21508782	39	2017.11.28	2027.11.27	Original acquisition	no
46	Issuer		21508708	40	2017.11.28	2027.11.27	Original acquisition	no
47	Issuer		21508823	42	2018.1.21	2028.1.20	Original acquisition	no
48	Issuer		21509092	9	2017.11.28	2027.11.27	Original acquisition	no
49	Issuer		6475322	4	2010.5.7	2030.5.6	Original acquisition	no
50	Issuer		6475323	9	2010.3.28	2030.3.27	Original acquisition	no
51	Issuer		6475324	11	2010.3.28	2030.3.27	Original acquisition	no
52	Issuer		6475325	19	2014.3.7	2024.3.6	Original acquisition	no
53	Issuer		7864695	19	2014.4.14	2024.4.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
54	Issuer		7864638	4	2011.3.7	2021.3.6	Original acquisition	no
55	Issuer		4189866	6	2006.11.14	2026.11.13	Original acquisition	no
56	Issuer		4189864	9	2009.4.21	2029.4.20	Original acquisition	no
57	Issuer		4189865	11	2009.8.7	2029.8.6	Original acquisition	no
58	Issuer		21509365	6	2017.11.28	2027.11.27	Original acquisition	no
59	Issuer		21509329	7	2018.1.21	2028.1.20	Original acquisition	no
60	Issuer		21509216	9	2017.11.28	2027.11.27	Original acquisition	no
61	Issuer		21509101	39	2017.11.28	2027.11.27	Original acquisition	no
62	Issuer		21509294	40	2018.1.28	2028.1.27	Original acquisition	no
63	Issuer		21509214	4	2018.1.28	2028.1.27	Original acquisition	no
64	Issuer		21509453	42	2017.11.28	2027.11.27	Original acquisition	no
65	Issuer		6475318	4	2010.3.28	2030.3.27	Original acquisition	no
66	Issuer		6475319	9	2010.3.28	2030.3.27	Original acquisition	no
67	Issuer		6475320	11	2011.7.28	2021.7.27	Original acquisition	no
68	Issuer		6475321	19	2010.6.14	2030.6.13	Original acquisition	no
69	Issuer		4189861	1	2017.7.7	2027.7.6	Original acquisition	no
70	Issuer		4189862	9	2016.11.14	2026.11.13	Original acquisition	no
71	Issuer		4189863	11	2017.1.28	2027.1.27	Original acquisition	no
72	Issuer		21508108	4	2017.11.28	2027.11.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
73	Issuer		21508067	6	2017.11.28	2027.11.27	Original acquisition	no
74	Issuer		21508623	9	2017.11.28	2027.11.27	Original acquisition	no
75	Issuer		21508631	39	2017.11.28	2027.11.27	Original acquisition	no
76	Issuer		21508700	40	2017.11.28	2027.11.27	Original acquisition	no
77	Issuer		21508524	7	2018.1.28	2028.1.27	Original acquisition	no
78	Issuer		21508894	42	2018.1.28	2028.1.27	Original acquisition	no
79	Issuer		5495949	9	2009.7.7	2029.7.6	Original acquisition	no
80	Issuer		5496208	1	2009.9.28	2029.9.27	Original acquisition	no
81	Issuer		6301938	1	2010.3.28	2030.3.27	Original acquisition	no
82	Issuer		6301937	2	2010.3.28	2030.3.27	Original acquisition	no
83	Issuer		6301936	3	2010.8.28	2030.8.27	Original acquisition	no

84	Issuer	6301935	4	2010.3.21	2030.3.20	Original acquisition	no
85	Issuer	6301934	5	2010.4.21	2030.4.20	Original acquisition	no
86	Issuer	6301933	6	2010.7.7	2030.7.6	Original acquisition	no
87	Issuer	6301932	7	2010.3.28	2030.3.27	Original acquisition	no
88	Issuer	6301931	8	2010.3.28	2030.3.27	Original acquisition	no
89	Issuer	6301930	9	2010.3.28	2030.3.27	Original acquisition	no
90	Issuer	6301929	10	2010.2.7	2030.2.6	Original acquisition	no
91	Issuer	6301948	11	2011.8.7	2021.8.6	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
92	Issuer		6301947	12	2010.2.21	2030.2.20	Original acquisition	no
93	Issuer		6301946	13	2010.3.21	2030.3.20	Original acquisition	no
94	Issuer		6301944	15	2010.2.14	2030.2.13	Original acquisition	no
95	Issuer		6301943	16	2010.2.28	2030.2.27	Original acquisition	no
96	Issuer		6301942	17	2010.3.7	2030.3.6	Original acquisition	no
97	Issuer		6301941	18	2010.6.28	2030.6.27	Original acquisition	no
98	Issuer		6301940	19	2010.3.14	2030.3.13	Original acquisition	no
99	Issuer		6301939	20	2010.2.21	2030.2.20	Original acquisition	no
100	Issuer		6301708	twenty one	2010.2.28	2030.2.27	Original acquisition	no
101	Issuer		6301707	twenty two	2010.4.28	2030.4.27	Original acquisition	no
102	Issuer		6301706	twenty three	2010.4.28	2030.4.27	Original acquisition	no
103	Issuer		6301705	twenty four	2010.5.7	2030.5.6	Original acquisition	no
104	Issuer		6301704	25	2010.6.28	2030.6.27	Original acquisition	no
105	Issuer		6301703	26	2010.4.28	2030.4.27	Original acquisition	no
106	Issuer		6301702	27	2010.4.28	2030.4.27	Original acquisition	no
107	Issuer		6301701	28	2010.6.28	2030.6.27	Original acquisition	no
108	Issuer		6301700	29	2009.10.7	2029.10.6	Original acquisition	no
109	Issuer		6301699	30	2010.2.14	2030.2.13	Original acquisition	no
110	Issuer		6301718	31	2009.10.7	2029.10.6	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
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111	Issuer	6301717	32	2010.2.7	2030.2.6	Original acquisition	no
112	Issuer	6301716	33	2010.1.28	2030.1.27	Original acquisition	no
113	Issuer	6301715	34	2009.10.21	2029.10.20	Original acquisition	no
114	Issuer	6301714	35	2010.6.21	2030.6.20	Original acquisition	no
115	Issuer	6301713	36	2010.3.28	2030.3.27	Original acquisition	no
116	Issuer	6301712	37	2010.3.28	2030.3.27	Original acquisition	no
117	Issuer	6301711	38	2010.3.28	2030.3.27	Original acquisition	no
118	Issuer	6301710	39	2010.6.21	2030.6.20	Original acquisition	no
119	Issuer	6301709	40	2010.3.28	2030.3.27	Original acquisition	no
120	Issuer	6301728	41	2010.6.21	2030.6.20	Original acquisition	no
121	Issuer	6301727	42	2010.6.21	2030.6.20	Original acquisition	no
122	Issuer	6301726	43	2010.3.28	2030.3.27	Original acquisition	no
123	Issuer	6301725	44	2010.3.28	2030.3.27	Original acquisition	no
124	Issuer	6301724	45	2010.3.28	2030.3.27	Original acquisition	no
125	Issuer	19893925	6	2017.9.21	2027.9.20	Original acquisition	no
126	Issuer	19894219	19	2017.9.21	2027.9.20	Original acquisition	no
127	Issuer	17492271	4	2016.9.14	2026.9.13	Original acquisition	no
128	Issuer	17492192	9	2016.12.7	2026.12.6	Original acquisition	no
129	Issuer	17492165	11	2016.11.14	2026.11.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
130	Issuer		17492108	19	2016.9.14	2026.9.13	Original acquisition	no
131	Issuer		17492064	37	2016.11.14	2026.11.13	Original acquisition	no
132	Issuer		17491996	39	2016.9.14	2026.9.13	Original acquisition	no
133	Issuer		17491874	40	2016.9.14	2026.9.13	Original acquisition	no
134	Issuer		7869100	4	2011.1.21	2021.1.20	Original acquisition	no
135	Issuer		7863580	9	2011.2.28	2021.2.27	Original acquisition	no
136	Issuer		7869027	11	2011.3.28	2021.3.27	Original acquisition	no
137	Issuer		7865174	19	2010.12.14	2030.12.13	Original acquisition	no
138	Issuer		7869078	4	2011.3.7	2021.3.6	Original acquisition	no
139	Issuer		7863592	9	2014.2.14	2024.2.13	Original acquisition	no
140	Issuer		7865146	19	2013.2.7	2023.2.6	Original acquisition	no
141	Issuer		7865119	4	2011.2.28	2021.2.27	Original acquisition	no
142	Issuer		7863594	9	2011.5.28	2021.5.27	Original acquisition	no
143	Issuer		7868940	11	2011.8.28	2021.8.27	Original acquisition	no
144	Issuer		7864813	19	2012.1.28	2022.1.27	Original acquisition	no
145	Issuer		7869064	4	2011.3.7	2021.3.6	Original acquisition	no
146	Issuer		7863593	9	2014.3.14	2024.3.13	Original acquisition	no
147	Issuer		7868953	11	2011.8.28	2021.8.27	Original acquisition	no
148	Issuer		7865138	19	2013.2.28	2023.2.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
149	Issuer		21509115	9	2018.1.21	2028.1.20	Original acquisition	no
150	Issuer		21509482	40	2018.1.21	2028.1.20	Original acquisition	no
151	Issuer		21509225	7	2018.2.7	2028.2.6	Original acquisition	no
152	Issuer		18526198	19	2017.5.14	2027.5.13	Original acquisition	no
153	Issuer		18526294	19	2017.5.14	2027.5.13	Original acquisition	no
154	Issuer		7869089	4	2011.3.7	2021.3.6	Original acquisition	no
155	Issuer		7863581	9	2011.5.28	2021.5.27	Original acquisition	no
156	Issuer		7865160	19	2012.1.28	2022.1.27	Original acquisition	no
157	Issuer		12225501	4	2014.8.14	2024.8.13	Original acquisition	no
158	Issuer		12225539	6	2014.8.14	2024.8.13	Original acquisition	no
159	Issuer		12225559	7	2015.9.7	2025.9.6	Original acquisition	no
160	Issuer		12225587	9	2014.8.14	2024.8.13	Original acquisition	no
161	Issuer		12225649	12	2016.5.21	2026.5.20	Original acquisition	no
162	Issuer		12225671	14	2014.8.14	2024.8.13	Original acquisition	no
163	Issuer		12225707	19	2015.3.28	2025.3.27	Original acquisition	no
164	Issuer		12225745	25	2015.3.7	2025.3.6	Original acquisition	no
165	Issuer		12225769	28	2015.4.21	2025.4.20	Original acquisition	no
166	Issuer		12225799	39	2014.8.14	2024.8.13	Original acquisition	no
167	Issuer		12225832	40	2014.8.14	2024.8.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
168	Issuer		12225855	41	2014.8.14	2024.8.13	Original acquisition	no
169	Issuer		7590208	4	2010.11.7	2,030.11.6	Original acquisition	no
170	Issuer		7590207	9	2011.2.21	2021.2.20	Original acquisition	no
171	Issuer		7590206	11	2011.2.21	2021.2.20	Original acquisition	no
172	Issuer		7590205	19	2010.10.28	2030.10.27	Original acquisition	no
173	Issuer		16617703	4	2016.5.21	2026.5.20	Original acquisition	no
174	Issuer		16617791	9	2016.5.21	2026.5.20	Original acquisition	no
175	Issuer		16617837	11	2016.5.21	2026.5.20	Original acquisition	no
176	Issuer		16617860	19	2016.5.21	2026.5.20	Original acquisition	no

177	Issuer	16617879	39	2016.5.21	2026.5.20	Original acquisition	no
178	Issuer	16617937	40	2016.9.14	2026.9.13	Original acquisition	no
179	Issuer	16333251	9	2016.3.28	2026.3.27	Original acquisition	no
180	Issuer	16333325	9	2016.10.21	2026.10.20	Original acquisition	no
181	Issuer	18526470	1	2017.1.14	2027.1.13	Original acquisition	no
182	Issuer	18526628	2	2017.1.14	2027.1.13	Original acquisition	no
183	Issuer	18526760	3	2017.1.14	2027.1.13	Original acquisition	no
184	Issuer	18526796	4	2017.1.14	2027.1.13	Original acquisition	no
185	Issuer	18527073	5	2017.1.14	2027.1.13	Original acquisition	no
186	Issuer	18527393	6	2017.1.14	2027.1.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
187	Issuer		18527617	7	2017.1.14	2027.1.13	Original acquisition	no
188	Issuer		18527744	8	2017.1.14	2027.1.13	Original acquisition	no
189	Issuer		18528052	9	2017.1.14	2027.1.13	Original acquisition	no
190	Issuer		18528210	10	2017.1.14	2027.1.13	Original acquisition	no
191	Issuer		18528393	11	2017.1.14	2027.1.13	Original acquisition	no
192	Issuer		18528498	12	2017.1.14	2027.1.13	Original acquisition	no
193	Issuer		18528630	13	2017.1.21	2027.1.20	Original acquisition	no
194	Issuer		18528700	14	2017.1.14	2027.1.13	Original acquisition	no
195	Issuer		18528838	15	2017.1.21	2027.1.20	Original acquisition	no
196	Issuer		18528942	16	2017.1.21	2027.1.20	Original acquisition	no
197	Issuer		18529082	17	2017.1.14	2027.1.13	Original acquisition	no
198	Issuer		18529182	18	2017.1.14	2027.1.13	Original acquisition	no
199	Issuer		18529297	19	2017.1.14	2027.1.13	Original acquisition	no
200	Issuer		18529357	20	2017.1.21	2027.1.20	Original acquisition	no
201	Issuer		18529497	twenty one	2017.1.14	2027.1.13	Original acquisition	no
202	Issuer		18529551	twenty two	2017.1.14	2027.1.13	Original acquisition	no
203	Issuer		18529727	twenty three	2017.1.14	2027.1.13	Original acquisition	no
204	Issuer		18529843	twenty four	2017.1.14	2027.1.13	Original acquisition	no
205	Issuer		18530364	25	2017.1.14	2027.1.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
206	Issuer		18530441	26	2017.1.14	2027.1.13	Original acquisition	no
207	Issuer		18530506	27	2017.1.14	2027.1.13	Original acquisition	no
208	Issuer		18530558	28	2017.1.14	2027.1.13	Original acquisition	no
209	Issuer		18530585	29	2017.1.14	2027.1.13	Original acquisition	no
210	Issuer		18530574	30	2017.1.14	2027.1.13	Original acquisition	no
211	Issuer		18530661	31	2017.1.14	2027.1.13	Original acquisition	no
212	Issuer		18530700	32	2017.1.14	2027.1.13	Original acquisition	no
213	Issuer		18530708	33	2017.1.21	2027.1.20	Original acquisition	no
214	Issuer		18530797	34	2017.1.14	2027.1.13	Original acquisition	no
215	Issuer		18530861	35	2017.1.14	2027.1.13	Original acquisition	no
216	Issuer		18530897	36	2017.1.14	2027.1.13	Original acquisition	no
217	Issuer		18530977	37	2017.1.21	2027.1.20	Original acquisition	no
218	Issuer		18531036	38	2017.1.21	2027.1.20	Original acquisition	no
219	Issuer		18531054	39	2017.1.14	2027.1.13	Original acquisition	no
220	Issuer		18531146	40	2017.1.14	2027.1.13	Original acquisition	no
221	Issuer		18531209	41	2017.1.14	2027.1.13	Original acquisition	no
222	Issuer		18531282	42	2017.1.14	2027.1.13	Original acquisition	no
223	Issuer		18531378	43	2017.1.14	2027.1.13	Original acquisition	no
224	Issuer		18531391	44	2017.1.14	2027.1.13	Original acquisition	no

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Prospe

Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
225	Issuer		18531504	45	2017.1.14	2027.1.13	Original acquisition	no
226	Issuer		15032134	4	2015.8.14	2025.8.13	Original acquisition	no
227	Issuer		15032155	9	2015.8.21	2025.8.20	Original acquisition	no
228	Issuer		15032163	11	2015.11.7	2025.11.6	Original acquisition	no
229	Issuer		15032202	19	2015.8.14	2025.8.13	Original acquisition	no
230	Issuer		17844509	4	2016.10.21	2026.10.20	Original acquisition	no
231	Issuer		17842362	9	2016.10.14	2026.10.13	Original acquisition	no
232	Issuer		17844518	11	2016.10.14	2026.10.13	Original acquisition	no
233	Issuer		17844604	19	2016.10.28	2026.10.27	Original acquisition	no
234	Issuer		19371483	4	2017.4.28	2027.4.27	Original acquisition	no
235	Issuer		19371650	7	2017.4.28	2027.4.27	Original acquisition	no
236	Issuer		19371990	9	2017.4.28	2027.4.27	Original acquisition	no
237	Issuer		19372104	37	2017.4.28	2027.4.27	Original acquisition	no
238	Issuer		19372381	39	2017.4.28	2027.4.27	Original acquisition	no
239	Issuer		19371075	40	2017.4.28	2027.4.27	Original acquisition	no
240	Issuer		19371129	42	2017.4.28	2027.4.27	Original acquisition	no
241	Issuer		13827976	4	2015.4.14	2025.4.13	Original acquisition	no
242	Issuer		13828018	9	2015.2.28	2025.2.27	Original acquisition	no

243	Issuer	13828052	11	2015.2.28	2025.2.27	Original acquisition	no
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Prospect

Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
244	Issuer		13828072	19	2015.2.28	2025.2.27	Original acquisition	no
245	Issuer		13828107	39	2015.2.28	2025.2.27	Original acquisition	no
246	Issuer		13584104	4	2015.2.28	2025.2.27	Original acquisition	no
247	Issuer		13584119	7	2015.2.28	2025.2.27	Original acquisition	no
248	Issuer		13584193	9	2015.2.28	2025.2.27	Original acquisition	no
249	Issuer		13584211	11	2015.2.28	2025.2.27	Original acquisition	no
250	Issuer		13584244	19	2015.2.28	2025.2.27	Original acquisition	no
251	Issuer		13584256	39	2015.2.28	2025.2.27	Original acquisition	no
252	Issuer		13584267	40	2015.2.28	2025.2.27	Original acquisition	no
253	Issuer		17844399	4	2016.10.21	2026.10.20	Original acquisition	no
254	Issuer		17842318	9	2016.10.14	2026.10.13	Original acquisition	no
255	Issuer		17844404	11	2016.10.14	2026.10.13	Original acquisition	no
256	Issuer		17844413	19	2016.10.21	2026.10.20	Original acquisition	no
257	Issuer		19370283	4	2017.4.28	2027.4.27	Original acquisition	no
258	Issuer		19370439	7	2017.6.28	2027.6.27	Original acquisition	no
259	Issuer		19370423	9	2017.4.28	2027.4.27	Original acquisition	no
260	Issuer		19370607	37	2017.4.28	2027.4.27	Original acquisition	no
261	Issuer		19370718	39	2017.4.28	2027.4.27	Original acquisition	no
262	Issuer		19370874	40	2017.4.28	2027.4.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
263	Issuer		19371164	42	2017.4.28	2027.4.27	Original acquisition	no
264	Issuer		19371484	4	2017.4.28	2027.4.27	Original acquisition	no
265	Issuer		19371686	7	2017.4.28	2027.4.27	Original acquisition	no
266	Issuer		19371853	9	2017.4.28	2027.4.27	Original acquisition	no
267	Issuer		19372253	37	2017.4.28	2027.4.27	Original acquisition	no
268	Issuer		19372394	39	2017.4.28	2027.4.27	Original acquisition	no
269	Issuer		19370971	40	2017.4.28	2027.4.27	Original acquisition	no

270	Issuer	19371264	42	2017.6.28	2027.6.27	Original acquisition	no
271	Issuer	16333268	9	2016.3.28	2026.3.27	Original acquisition	no
272	Issuer	19371438	4	2017.4.28	2027.4.27	Original acquisition	no
273	Issuer	19371769	7	2017.6.28	2027.6.27	Original acquisition	no
274	Issuer	19371970	9	2017.6.28	2027.6.27	Original acquisition	no
275	Issuer	19372246	37	2017.4.28	2027.4.27	Original acquisition	no
276	Issuer	19372450	39	2017.4.28	2027.4.27	Original acquisition	no
277	Issuer	19370964	40	2017.4.28	2027.4.27	Original acquisition	no
278	Issuer	19371302	42	2017.6.28	2027.6.27	Original acquisition	no
279	Issuer	18526434	1	2017.1.14	2027.1.13	Original acquisition	no
280	Issuer	18526710	2	2017.1.14	2027.1.13	Original acquisition	no
281	Issuer	18526767	3	2017.1.14	2027.1.13	Original acquisition	no

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Trina Solar Co., Ltd.

Prospe

Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
282	Issuer		18526822	4	2017.1.21	2027.1.20	Original acquisition	no
283	Issuer		18527048	5	2017.1.14	2027.1.13	Original acquisition	no
284	Issuer		18527385	6	2017.1.14	2027.1.13	Original acquisition	no
285	Issuer		18527595	7	2017.1.14	2027.1.13	Original acquisition	no
286	Issuer		18527904	8	2017.1.14	2027.1.13	Original acquisition	no
287	Issuer		18528005	9	2017.1.14	2027.1.13	Original acquisition	no
288	Issuer		18528239	10	2017.1.14	2027.1.13	Original acquisition	no
289	Issuer		18528367	11	2017.1.14	2027.1.13	Original acquisition	no
290	Issuer		18528557	12	2017.1.14	2027.1.13	Original acquisition	no
291	Issuer		18528586	13	2017.1.14	2027.1.13	Original acquisition	no
292	Issuer		18528750	14	2017.1.14	2027.1.13	Original acquisition	no
293	Issuer		18528813	15	2017.1.21	2027.1.20	Original acquisition	no
294	Issuer		18528988	16	2017.1.14	2027.1.13	Original acquisition	no
295	Issuer		18529037	17	2017.1.21	2027.1.20	Original acquisition	no
296	Issuer		18529215	18	2017.1.14	2027.1.13	Original acquisition	no
297	Issuer		18529287	19	2017.1.14	2027.1.13	Original acquisition	no
298	Issuer		18529390	20	2017.1.14	2027.1.13	Original acquisition	no
299	Issuer		18529442	twenty one	2017.1.14	2027.1.13	Original acquisition	no
300	Issuer		18529578	twenty two	2017.1.14	2027.1.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
301	Issuer		18529691	twenty three	2017.1.14	2027.1.13	Original acquisition	no
302	Issuer		18529862	twenty four	2017.1.14	2027.1.13	Original acquisition	no
303	Issuer		18530372	25	2017.1.14	2027.1.13	Original acquisition	no
304	Issuer		18530461	26	2017.1.14	2027.1.13	Original acquisition	no
305	Issuer		18530511	27	2017.1.14	2027.1.13	Original acquisition	no
306	Issuer		18530522	28	2017.1.14	2027.1.13	Original acquisition	no
307	Issuer		18530568	29	2017.1.14	2027.1.13	Original acquisition	no
308	Issuer		18530594	30	2017.1.14	2027.1.13	Original acquisition	no
309	Issuer		18530624	31	2017.1.14	2027.1.13	Original acquisition	no
310	Issuer		18530663	32	2017.1.14	2027.1.13	Original acquisition	no
311	Issuer		18530732	33	2017.1.14	2027.1.13	Original acquisition	no
312	Issuer		18530754	34	2017.1.14	2027.1.13	Original acquisition	no
313	Issuer		18530819	35	2017.1.14	2027.1.13	Original acquisition	no
314	Issuer		18530919	36	2017.1.14	2027.1.13	Original acquisition	no
315	Issuer		18530943	37	2017.1.14	2027.1.13	Original acquisition	no
316	Issuer		18531000	38	2017.1.14	2027.1.13	Original acquisition	no
317	Issuer		18531034	39	2017.1.21	2027.1.20	Original acquisition	no
318	Issuer		18531135	40	2017.1.14	2027.1.13	Original acquisition	no
319	Issuer		18531183	41	2017.1.14	2027.1.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
320	Issuer		18531300	42	2017.1.14	2027.1.13	Original acquisition	no
321	Issuer		18531365	43	2017.1.14	2027.1.13	Original acquisition	no
322	Issuer		18531424	44	2017.1.14	2027.1.13	Original acquisition	no
323	Issuer		18531492	45	2017.1.14	2027.1.13	Original acquisition	no
324	Issuer		17397310	4	2016.9.14	2026.9.13	Original acquisition	no
325	Issuer		17415921	7	2016.9.14	2026.9.13	Original acquisition	no
326	Issuer		17416229	9	2016.9.14	2026.9.13	Original acquisition	no
327	Issuer		17416315	11	2016.9.14	2026.9.13	Original acquisition	no
328	Issuer		17425029	19	2016.9.14	2026.9.13	Original acquisition	no
329	Issuer		17425099	39	2016.9.14	2026.9.13	Original acquisition	no
330	Issuer		17425249	40	2016.9.14	2026.9.13	Original acquisition	no
331	Issuer		17490589	4	2016.9.14	2026.9.13	Original acquisition	no
332	Issuer		17490393	9	2016.12.7	2026.12.6	Original acquisition	no
333	Issuer		17491509	11	2016.11.14	2026.11.13	Original acquisition	no
334	Issuer		17491703	19	2016.11.14	2026.11.13	Original acquisition	no
335	Issuer		17491744	37	2016.11.14	2026.11.13	Original acquisition	no

336	Issuer	17491735	39	2016.9.14	2026.9.13	Original acquisition	no
337	Issuer	17491866	40	2016.11.14	2026.11.13	Original acquisition	no
338	Issuer	17641399	4	2016.9.28	2026.9.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
339	Issuer		17641320	9	2016.12.7	2026.12.6	Original acquisition	no
340	Issuer		17641501	11	2016.12.21	2026.12.20	Original acquisition	no
341	Issuer		17641670	19	2016.12.7	2026.12.6	Original acquisition	no
342	Issuer		17641533	37	2016.12.7	2026.12.6	Original acquisition	no
343	Issuer		17641524	39	2016.9.28	2026.9.27	Original acquisition	no
344	Issuer		17641678	40	2016.12.7	2026.12.6	Original acquisition	no
345	Issuer		17844652	4	2016.10.14	2026.10.13	Original acquisition	no
346	Issuer		17842525	9	2016.12.28	2026.12.27	Original acquisition	no
347	Issuer		17844524	11	2016.10.14	2026.10.13	Original acquisition	no
348	Issuer		17844724	19	2016.10.21	2026.10.20	Original acquisition	no
349	Issuer		17300826	4	2016.8.28	2026.8.27	Original acquisition	no
350	Issuer		17300921	7	2016.9.14	2026.9.13	Original acquisition	no
351	Issuer		17301088	9	2017.2.14	2027.2.13	Original acquisition	no
352	Issuer		17300614	11	2016.10.21	2026.10.20	Original acquisition	no
353	Issuer		17301618	19	2016.8.28	2026.8.27	Original acquisition	no
354	Issuer		17301208	39	2016.8.28	2026.8.27	Original acquisition	no
355	Issuer		17301720	40	2016.8.14	2026.8.13	Original acquisition	no
356	Issuer		12265869	6	2014.8.21	2024.8.20	Original acquisition	no
357	Issuer		12265907	7	2015.3.21	2025.3.20	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
358	Issuer		11463693	9	2014.2.14	2024.2.13	Original acquisition	no
359	Issuer		11464321	11	2014.2.14	2024.2.13	Original acquisition	no
360	Issuer		12265970	12	2014.8.21	2024.8.20	Original acquisition	no
361	Issuer		12266008	14	2014.8.21	2024.8.20	Original acquisition	no
362	Issuer		11470050	19	2014.2.14	2024.2.13	Original acquisition	no
363	Issuer		12266088	25	2014.8.21	2024.8.20	Original acquisition	no

364	Issuer	12266166	28	2014.8.21	2024.8.20	Original acquisition	no
365	Issuer	12294277	39	2014.8.28	2024.8.27	Original acquisition	no
366	Issuer	12294324	40	2014.8.28	2024.8.27	Original acquisition	no
367	Issuer	11458626	4	2014.2.14	2024.2.13	Original acquisition	no
368	Issuer	11464161	9	2014.2.14	2024.2.13	Original acquisition	no
369	Issuer	11469925	11	2014.2.14	2024.2.13	Original acquisition	no
370	Issuer	11470286	19	2014.2.14	2024.2.13	Original acquisition	no
371	Issuer	17841667	4	2016.10.14	2026.10.13	Original acquisition	no
372	Issuer	17844406	11	2017.1.14	2027.1.13	Original acquisition	no
373	Issuer	17844709	19	2016.12.28	2026.12.27	Original acquisition	no
374	Issuer	17841929	9	2017.12.7	2027.12.6	Original acquisition	no
375	Issuer	23772334	9	2018.8.21	2028.8.20	Original acquisition	no
376	Issuer	15301947	4	2015.10.21	2025.10.20	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	Category	Registration date	Effective date	How to get	Other right
377	Issuer		15302060	9	2015.10.21	2025.10.20	Original acquisition	no
378	Issuer		15302062	11	2015.12.21	2025.12.20	Original acquisition	no
379	Issuer		15302182	19	2015.10.21	2025.10.20	Original acquisition	no
380	Issuer		17415745	4	2016.12.7	2026.12.6	Original acquisition	no
381	Issuer		17415879	7	2016.10.21	2026.10.20	Original acquisition	no
382	Issuer		17416283	9	2016.12.7	2026.12.6	Original acquisition	no
383	Issuer		17416473	11	2016.10.21	2026.10.20	Original acquisition	no
384	Issuer		17408617	19	2016.11.14	2026.11.13	Original acquisition	no
385	Issuer		17408392	39	2016.9.7	2026.9.6	Original acquisition	no
386	Issuer		17397127	40	2016.9.7	2026.9.6	Original acquisition	no
387	Issuer		17299142	4	2016.10.21	2026.10.20	Original acquisition	no
388	Issuer		17300926	7	2016.10.21	2026.10.20	Original acquisition	no
389	Issuer		17301072	9	2017.2.14	2027.2.13	Original acquisition	no
390	Issuer		17301632	19	2016.12.7	2026.12.6	Original acquisition	no
391	Issuer		3983802	11	2006.4.28	2026.4.27	Inherited	no
392	Issuer		3983801	37	2007.1.21	2027.1.20	Inherited	no
393	Issuer		3983804	7	2006.4.28	2026.4.27	Inherited	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
394	Issuer		3983805	1	2006.11.14	2026.11.13	Inherited	no
395	Issuer		7075773	19	2010.12.28	2030.12.27	Original acquisition	no
396	Issuer		7075774	11	2010.10.14	2030.10.13	Original acquisition	no
397	Issuer		7075775	9	2011.2.28	2021.2.27	Original acquisition	no
398	Issuer		7075776	11	2012.4.28	2022.4.27	Original acquisition	no
399	Issuer		22291542	36	2018.1.28	2028.1.27	Original acquisition	no
400	Issuer		22290617	40	2018.1.28	2028.1.27	Original acquisition	no
401	Issuer		22292222	31	2018.1.28	2028.1.27	Original acquisition	no
402	Issuer		22292967	12	2018.1.28	2028.1.27	Original acquisition	no
403	Issuer		22292852	29	2018.1.28	2028.1.27	Original acquisition	no
404	Issuer		22292918	19	2018.1.28	2028.1.27	Original acquisition	no
405	Issuer		22294744	1	2018.1.28	2028.1.27	Original acquisition	no
406	Issuer		22290078	42	2018.1.28	2028.1.27	Original acquisition	no
407	Issuer		22290532	41	2018.3.21	2028.3.20	Original acquisition	no
408	Issuer		22290948	39	2018.1.28	2028.1.27	Original acquisition	no
409	Issuer		22291051	38	2018.1.28	2028.1.27	Original acquisition	no
410	Issuer		22292638	30	2018.1.28	2028.1.27	Original acquisition	no
411	Issuer		22293366	9	2018.1.28	2028.1.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
412	Issuer		22294009	37	2018.1.28	2028.1.27	Original acquisition	no
413	Issuer		22294547	4	2018.1.28	2028.1.27	Original acquisition	no
414	Issuer		22289934	44	2018.1.28	2028.1.27	Original acquisition	no
415	Issuer		22294401	6	2018.3.28	2028.3.27	Original acquisition	no
416	Issuer		22293197	11	2018.3.28	2028.3.27	Original acquisition	no
417	Issuer		22570337	9	2018.2.14	2018.2.13	Original acquisition	no
418	Issuer		23687135	6	2018.4.7	2028.4.6	Original acquisition	no
419	Issuer		23681635	9	2018.7.28	2028.7.27	Original acquisition	no
420	Issuer		23686581	39	2018.4.7	2028.4.6	Original acquisition	no
421	Issuer		23685683	40	2018.4.7	2028.4.6	Original acquisition	no
422	Issuer		24827600	9	2018.6.21	2028.6.20	Original acquisition	no
423	Issuer		24827628	19	2018.6.21	2028.6.20	Original acquisition	no
424	Issuer		24815026	37	2018.6.21	2028.6.20	Original acquisition	no
425	Issuer		27140511	6	2018.10.14	2028.10.13	Original acquisition	no

426	Issuer	27126863	9	2018.10.21	2028.10.20	Original acquisition	no
427	Issuer	27130099	19	2018.10.21	2028.10.20	Original acquisition	no
428	Issuer	27146538	39	2018.10.14	2028.10.13	Original acquisition	no
429	Issuer	27125884	40	2018.10.21	2028.10.20	Original acquisition	no
430	Issuer	23684237	9	2018.4.14	2028.4.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
431	Issuer		23681762	39	2018.4.14	2028.4.13	Original acquisition	no
432	Issuer		23684711	40	2018.4.14	2028.4.13	Original acquisition	no
433	Issuer		24822862	9	2018.6.28	2028.6.27	Original acquisition	no
434	Issuer		24819439	19	2018.6.28	2028.6.27	Original acquisition	no
435	Issuer		24831785	37	2018.6.21	2028.6.20	Original acquisition	no
436	Issuer		24846367	6	2018.6.21	2028.6.20	Original acquisition	no
437	Issuer		24816441	9	2018.6.21	2028.6.20	Original acquisition	no
438	Issuer		24827621	19	2018.9.14	2028.9.13	Original acquisition	no
439	Issuer		24831775	37	2018.6.21	2028.6.20	Original acquisition	no
440	Issuer		24846384	42	2018.6.21	2028.6.20	Original acquisition	no
441	Issuer		28510341	37	2018.12.14	2028.12.13	Original acquisition	no
442	Issuer		28504333	42	2018.12.14	2028.12.13	Original acquisition	no
443	Issuer		28519685	6	2018.12.7	2028.12.6	Original acquisition	no
444	Issuer		28517975	9	2018.12.7	2028.12.6	Original acquisition	no
445	Issuer		28517654	19	2018.12.7	2028.12.6	Original acquisition	no
446	Issuer		24843146	6	2018.7.7	2028.7.6	Original acquisition	no
447	Issuer		24843244	9	2018.7.7	2028.7.6	Original acquisition	no
448	Issuer		28512691	9	2018.12.14	2028.12.13	Original acquisition	no
449	Issuer		24846423	19	2018.6.21	2028.6.20	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
450	Issuer		28510303	19	2018.12.14	2028.12.13	Original acquisition	no
451	Issuer		24831768	37	2018.6.21	2028.6.20	Original acquisition	no
452	Issuer		28510347	37	2018.12.14	2028.12.13	Original acquisition	no
453	Issuer		24833370	42	2018.6.28	2028.6.27	Original acquisition	no

454	Issuer	28511207	42	2018.12.14	2028.12.13	Original acquisition	no
455	Issuer	28519691	6	2018.12.7	2028.12.6	Original acquisition	no
456	Issuer	28509803	42	2018.12.14	2028.12.13	Original acquisition	no
457	Issuer	28524478	6	2018.12.7	2028.12.6	Original acquisition	no
458	Issuer	28515885	19	2018.12.7	2028.12.6	Original acquisition	no
459	Issuer	28509435	37	2018.12.7	2028.12.6	Original acquisition	no
460	Issuer	28504188	9	2018.12.7	2028.12.6	Original acquisition	no
461	Issuer	25290982	9	2018.7.14	2028.7.13	Original acquisition	no
462	Issuer	26046164	39	2018.8.28	2028.8.27	Original acquisition	no
463	Issuer	25291001	40	2018.7.14	2028.7.13	Original acquisition	no
464	Issuer	25295296	6	2018.7.14	2028.7.13	Original acquisition	no
465	Issuer	23685408	9	2018.7.28	2028.7.27	Original acquisition	no
466	Issuer	23686657	39	2018.4.21	2028.4.20	Original acquisition	no
467	Issuer	23683326	40	2018.4.7	2028.4.6	Original acquisition	no
468	Issuer	23683810	6	2018.4.7	2028.4.6	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
469	Issuer		23684240	9	2018.4.14	2028.4.13	Original acquisition	no
470	Issuer		23686669	39	2018.4.14	2028.4.13	Original acquisition	no
471	Issuer		23686693	40	2018.4.7	2028.4.6	Original acquisition	no
472	Issuer		23681830	42	2018.7.28	2028.7.27	Original acquisition	no
473	Issuer		23685707	9	2018.8.21	2028.8.20	Original acquisition	no
474	Issuer		28523472	39	2018.12.14	2028.12.13	Original acquisition	no
475	Issuer		28520925	40	2018.12.14	2028.12.13	Original acquisition	no
476	Issuer		25390670	6	2018.7.21	2028.7.20	Original acquisition	no
477	Issuer		25390693	9	2018.7.21	2028.7.20	Original acquisition	no
478	Issuer		25387278	39	2018.7.21	2028.7.20	Original acquisition	no
479	Issuer		28523440	6	2018.12.7	2028.12.6	Original acquisition	no
480	Issuer		28519567	42	2018.12.14	2028.12.13	Original acquisition	no
481	Issuer		28516157	9	2018.12.14	2028.12.13	Original acquisition	no
482	Issuer		28514917	35	2018.12.21	2028.12.20	Original acquisition	no
483	Issuer		28513867	7	2018.12.14	2028.12.13	Original acquisition	no
484	Issuer		28510096	37	2018.12.7	2028.12.6	Original acquisition	no
485	Issuer		28507179	4	2018.12.7	2028.12.6	Original acquisition	no
486	Issuer		25394630	40	2018.7.14	2028.7.13	Original acquisition	no
487	Issuer		29048833	39	2018.12.28	2028.12.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
488	Issuer		29045523	35	2018.12.28	2028.12.27	Original acquisition	no
489	Issuer		29037437	37	2018.12.28	2028.12.27	Original acquisition	no
490	Issuer		29036097	38	2018.12.28	2028.12.27	Original acquisition	no
491	Issuer		29032865	40	2018.12.28	2028.12.27	Original acquisition	no
492	Issuer		29032471	36	2018.12.28	2028.12.27	Original acquisition	no
493	Issuer		29029413	9	2018.12.28	2028.12.27	Original acquisition	no
494	Issuer		29026534	42	2018.12.28	2028.12.27	Original acquisition	no
495	Issuer		29052155	38	2018.12.28	2028.12.27	Original acquisition	no
496	Issuer		29046326	42	2018.12.28	2028.12.27	Original acquisition	no
497	Issuer		29046255	39	2018.12.28	2028.12.27	Original acquisition	no
498	Issuer		29031007	36	2018.12.28	2028.12.27	Original acquisition	no
499	Issuer		29027445	37	2018.12.28	2028.12.27	Original acquisition	no
500	Issuer		29038844	40	2019.2.14	2029.2.13	Original acquisition	no
501	Issuer		29051372	40	2018.12.28	2028.12.27	Original acquisition	no
502	Issuer		29046590	37	2018.12.28	2028.12.27	Original acquisition	no
503	Issuer		29045467	35	2018.12.28	2028.12.27	Original acquisition	no
504	Issuer		29041949	9	2018.12.28	2028.12.27	Original acquisition	no
505	Issuer		29041847	38	2018.12.28	2028.12.27	Original acquisition	no
506	Issuer		29032075	39	2019.1.14	2029.1.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
507	Issuer		29040877	42	2018.12.28	2028.12.27	Original acquisition	no
508	Issuer		29039104	36	2018.12.28	2028.12.27	Original acquisition	no
509	Issuer		29048018	37	2018.12.28	2028.12.27	Original acquisition	no
510	Issuer		29045621	36	2018.12.28	2028.12.27	Original acquisition	no
511	Issuer		29034231	9	2018.12.28	2028.12.27	Original acquisition	no
512	Issuer		29033853	42	2018.12.28	2028.12.27	Original acquisition	no
513	Issuer		29030551	39	2018.12.28	2028.12.27	Original acquisition	no
514	Issuer		29027287	38	2018.12.28	2028.12.27	Original acquisition	no
515	Issuer		29026428	40	2018.12.28	2028.12.27	Original acquisition	no
516	Issuer		29245058	9	2018.12.28	2028.12.27	Original acquisition	no
517	Issuer		29236667	6	2018.12.28	2028.12.27	Original acquisition	no
518	Issuer		28545210	9	2019.2.7	2029.2.6	Original acquisition	no
519	Issuer		28533422	36	2019.2.7	2029.2.6	Original acquisition	no

520	Issuer	28546405	37	2019.2.7	2029.2.6	Original acquisition	no
521	Issuer	28549799	39	2018.12.7	2028.12.6	Original acquisition	no
522	Issuer	28545597	40	2019.2.7	2029.2.6	Original acquisition	no
523	Issuer	29077252	6	2019.1.14	2029.2.13	Original acquisition	no
524	Issuer	29063168	7	2019.1.14	2029.2.13	Original acquisition	no
525	Issuer	29062525	9	2019.1.14	2029.2.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
526	Issuer		29066987	11	2019.1.14	2029.2.13	Original acquisition	no
527	Issuer		29059479	35	2019.1.14	2029.2.13	Original acquisition	no
528	Issuer		29080307	36	2019.1.14	2029.2.13	Original acquisition	no
529	Issuer		29073408	37	2019.1.14	2029.2.13	Original acquisition	no
530	Issuer		29076154	38	2019.1.21	2029.1.20	Original acquisition	no
531	Issuer		29078738	39	2019.1.21	2029.1.20	Original acquisition	no
532	Issuer		29073480	40	2019.1.14	2029.2.13	Original acquisition	no
533	Issuer		29068201	42	2019.1.14	2029.2.13	Original acquisition	no
534	Issuer		28542888	37	2019.2.7	2029.2.6	Original acquisition	no
535	Issuer		28534457	40	2019.2.7	2029.2.6	Original acquisition	no
536	Issuer		28538296	9	2019.2.7	2029.2.6	Original acquisition	no
537	Issuer		28545607	40	2019.2.7	2029.2.6	Original acquisition	no
538	Issuer		28534806	37	2019.2.7	2029.2.6	Original acquisition	no
539	Issuer		28548952	40	2019.2.7	2029.2.6	Original acquisition	no
540	Issuer		28503912	19	2019.3.28	2029.3.27	Original acquisition	no
541	Issuer		31428074	11	2019.3.7	2029.3.6	Original acquisition	no
542	Issuer		31450235	37	2019.3.7	2029.3.6	Original acquisition	no
543	Issuer		31869948	12	2019.3.21	2029.3.20	Original acquisition	no
544	Issuer		28537900	37	2019.2.21	2029.2.20	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
545	Issuer		29033936	35	2019.2.14	2029.2.13	Original acquisition	no
546	Issuer		29035861	35	2019.2.14	2029.2.13	Original acquisition	no

547	Issuer	29070144	37	2019.3.21	2029.3.20	Original acquisition	no
548	Issuer	28949143	19	2019.3.28	2029.3.27	Original acquisition	no
549	Issuer	32371289	6	2019.4.7	2029.4.6	Original acquisition	no
550	Issuer	32372932	19	2019.4.7	2029.4.6	Original acquisition	no
551	Issuer	32378082	37	2019.4.7	2029.4.6	Original acquisition	no
552	Issuer	32375928	9	2019.6.7	2029.6.6	Original acquisition	no
553	Issuer	29797084	19	2019.5.28	2029.5.27	Original acquisition	no
554	Issuer	29794303	19	2019.5.28	2029.5.27	Original acquisition	no
555	Issuer	29411118	42	2019.5.21	2029.5.20	Original acquisition	no
556	Issuer	30461342	9	2019.5.14	2029.5.13	Original acquisition	no
557	Issuer	30475423	36	2019.5.28	2029.5.27	Original acquisition	no
558	Issuer	29064480	40	2019.5.7	2029.5.6	Original acquisition	no
559	Issuer	31448890	9	2019.6.7	2029.6.6	Original acquisition	no
560	Issuer	28957219	19	2019.4.21	2029.4.20	Original acquisition	no
561	Issuer	29040292	37	2019.4.21	2029.4.20	Original acquisition	no
562	Issuer	29051304	39	2019.4.21	2029.4.20	Original acquisition	no
563	Issuer	29052413	9	2019.4.28	2029.4.27	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	Category	Registration date	Effective date	How to get	Other right
564	Issuer		30898254	6	2019.4.28	2029.4.27	Original acquisition	no
565	Issuer		29077696	7	2019.6.7	2029.6.6	Original acquisition	no
566	Issuer		28520077	19	2019.4.21	2029.4.20	Original acquisition	no
567	Issuer		28521088	9	2019.4.21	2029.4.20	Original acquisition	no
568	Issuer		30480515	40	2019.08.14	2029.08.13	Original acquisition	no
569	Issuer		30458213	39	2019.08.21	2029.08.20	Original acquisition	no
570	Issuer		29035719	9	2019.09.21	2029.09.20	Original acquisition	no
571	Issuer		36189150	9	2019.09.14	2029.09.13	Original acquisition	no
572	Issuer		36193847	35	2019.09.14	2029.09.13	Original acquisition	no
573	Issuer		36190598	38	2019.09.14	2029.09.13	Original acquisition	no
574	Issuer		36196937	39	2019.09.14	2029.09.13	Original acquisition	no
575	Issuer		36196950	40	2019.09.14	2029.09.13	Original acquisition	no
576	Issuer		36190623	42	2019.09.14	2029.09.13	Original acquisition	no
577	Issuer		29066899	9	2019.08.28	2029.08.27	Original acquisition	no
578	Issuer		29077696	7	2019.06.07	2029.06.06	Original acquisition	no
579	Issuer		29039094	36	2019.07.21	2029.07.20	Original acquisition	no
580	Issuer		36198832	39	2019, 10, 14	2029.10.13	Original acquisition	no

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Serial number	Right holder	Trademark content	Registration Number	category	Registration date	Effective date	How to get	Other right
581	Issuer		36190595	38	2019.10.14	2029.10.13	Original acquisition	no
582	Issuer		36198840	40	2019.10.14	2029.10.13	Original acquisition	no
583	Issuer		36679972	9	2019.10.28	2029.10.27	Original acquisition	no
584	Issuer		36689702	9	2019.10.21	2029.10.20	Original acquisition	no
585	Issuer		36691760	9	2019.11.14	2029.11.13	Original acquisition	no
586	Issuer		37635545	9	2019.12.7	2029.12.6	Original acquisition	no
587	Issuer		37643132	6	2019.12.14	2029.12.13	Original acquisition	no
588	Issuer		37644051	19	2019.12.7	2029.12.6	Original acquisition	no

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2. Overseas trademarks obtained by the issuer

1. Hong Kong

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe limited		303099934	4,9,11,19	2014.8.13-2024.8.13
2	Tianhe limited		303099943	4,9,11,19	2014.8.13-2024.8.13
3	Tianhe limited		303099952	4,9,11,19	2014.8.13-2024.8.13
4	Tianhe limited		301840112	1,4,9,11,19	2011.2.22-2021.2.21

According to the legal opinions of foreign lawyers and the issuer’s description, the above-mentioned trademarks do not have mortgages, pledges, or oth

Property rights disputes or potential disputes.

2. South Africa

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe Limited		2013/26951	4	2013.8.13-2023.8.13
2	Tianhe Limited		2013/26952	9	2013.8.13-2023.8.13
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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
3	Tianhe Limited		2013/26953	11	2013.8.13-2023.8.13
4	Tianhe Limited		2013/26954	19	2013.8.13-2023.8.13
5	Tianhe Limited		2013/26950	9	2013.8.13-2023.8.13

According to the legal opinions of foreign lawyers and the issuer's explanation, the above-mentioned trademarks are not pledged, transferred or have th

3. Chile

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe limited		1111789	4,9,11,19	2014.7.15-2024.7.15
2	Tianhe limited		1111791	4,9,11,19	2014.7.15-2024.7.15

According to the legal opinions of foreign lawyers and the issuer's instructions, and according to relevant website queries, the above-mentioned tradem

4. Germany

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe Limited		302016108626	9	2016.10.7-2026.10.7

According to the legal opinions of foreign lawyers and the issuer's explanation, the above-mentioned trademarks are not pledged, transferred or have th

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5. Jordan

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		131037	4	2013.9.23-2023.9.23
2	Issuer		131038	9	2013.9.23-2023.9.23
3	Issuer		131039	11	2013.9.23-2023.9.23
4	Issuer		131041	19	2013.9.23-2023.9.23
5	Issuer		131302	4	2013.9.23-2023.9.23
6	Issuer		131305	9	2013.9.23-2023.9.23
7	Issuer		131303	11	2013.9.23-2023.9.23
8	Issuer		131304	19	2013.9.23-2023.9.23

According to the legal opinions of foreign lawyers and the issuer's explanations, the above-mentioned trademarks are not pledged, transferred or third-party Independent ownership.

6. Madrid International Registered Trademark

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe Limited		1191439	4,9,11,19	2013.11.6-2023.11.6

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
2	Tianhe Limited		1216923	4,9,11,19	2014.4.29-2024.4.29
3	Tianhe Limited		1194401	4,9,11,19	2013.11.6-2023.11.6
4	Tianhe Limited		1375707	9	2017.9.13-2027.9.13
5	Tianhe Limited		1216664	4,9,11,19	2014.5.2-2024.5.2
6	Tianhe Limited		1239857	9,39	2014.12.22-2024.12.22
7	Tianhe Limited		1240322	4,9,11,19	2014.10.31-2024.10.31
8	Tianhe Limited		1256458	9	2015.6.8-2025.6.8
9	Tianhe Limited		1271723	9	2015.6.8-2025.6.8
10	Tianhe Limited		1288036	4,9,11,19	2015.12.15-2025.12.15
11	Tianhe Limited		1341528	9	2017.1.3-2027.1.3
12	Tianhe Limited		1341820	4,9,39,40	2017.1.3-2027.1.3
13	Tianhe Limited		1452275	9	2019.1.2-2029.1.2
14	Tianhe Limited		1455907	6,9	2019.1.2-2029.1.2

7. Croatia

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		Z20072059	4,9,11,19	2007.10.30-2027.10.30

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
2	Issuer		Z20080086	4,9,11,19	2008.1.15-2028.1.15
3	Issuer		Z20110202	4,9,11,19	2011.2.3-2021.2.3

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademark Rights situation.

8. Taiwan

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		01314607	9	2008.6.16-2028.6.15
2	Issuer		01314669	11	2008.6.16-2028.6.15
3	Issuer		01317560	4	2008.7.16-2028.7.15
4	Issuer		01318648	19	2008.7.16-2028.7.15
5	Issuer		01323802	19	2008.8.16-2028.8.15
6	Issuer		01328103	4	2008.9.16-2028.9.15

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
7	Issuer		01328436	9	2008.9.16-2028.9.15
8	Issuer		01328537	11	2008.9.16-2028.9.15
9	Issuer		01857252	9	2017.8.1-2027.7.31
10	Issuer		01416077	4	2010.7.1-2020.6.30
11	Issuer		01402830	9	2010.4.1-2020.3.31

12	Issuer	01402916	11	2010.4.1-2020.3.31
13	Issuer	01403147	19	2010.4.1-2020.3.31
14	Issuer	01483787	4	2011.11.16-2021.11.15
15	Issuer	01402829	9	2010.4.1-2020.3.31
16	Issuer	01402915	11	2010.4.1-2020.3.31

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
17	Issuer		01403146	19	2010.4.1-2020.3.31
18	Issuer		01481235	4	2011.11.1-2021.10.31
19	Issuer		01478950	9	2011.10.16-2021.10.15
20	Issuer		01479080	11	2011.10.16-2021.10.15
twenty one	Issuer		01482047	19	2011.11.1-2021.10.31

According to the legal opinions of foreign lawyers and the issuer's explanation, the above-mentioned trademarks are not pledged, transferred or have th

9. Switzerland

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		566960	4,9,11,19	2007.10.11- 2027.10.11
2	Issuer		614061	4,9,11,19	2011.1.19-2021.1.19
3	Issuer		569904	4,9,11,19	2008.1.7-2028.1.7

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademar

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Rights situation.

10 , Morocco

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		113802	4,9,11,19	2007.11.5-2027.11.5
2	Issuer		114876	4,9,11,19	2008.1.8-2028.1.8
3	Issuer		135671	4,9,11,19	2011.2.2-2021.2.2
4	Issuer		184667	9	2017.11.5-2027.11.5

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademarks.

Rights situation.

11. Japan

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		5283401	1,9,11,19,39	2009.11.27- 2019.11.27
2	Issuer		5267162	1,9,11,19,39	2009.9.18-2019.9.18
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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
3	Issuer		5955879	9	2017.6.16-2027.6.15
4	Issuer		5421663	1,9,11,19,39	2011.6.24-2021.6.24
5	Issuer		5931228	9	2017.3.10-2027.3.10
6	Issuer		6001091	9	2017.12.1-2027.12.1

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademarks.

Rights situation.

12 , Turkey

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		2008 12024	4,9,11,19	2008.3.5-2028.3.5
2	Issuer		2011 04551	4,9,11,19	2011.1.20-2021.1.20

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademarks.

Rights situation.

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13. Australia

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		1208003	4,9,11,19	2007.11.1-2027.11.1
2	Issuer		1219086	4,9,11,19	2008.1.11-2028.1.11
3	Issuer		1404422	4,9,11,19	2011.1.18-2021.1.18

According to the legal opinions of foreign lawyers and the issuer's description, the above-mentioned trademarks are currently valid, and the issuer has Pledge, transfer or the existence of third party rights.

14. Singapore

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		T0720818C	4,9,11,19	2007.10.24-2027.10.24
2	Issuer		T0800006C	4,9,11,19	2008.1.2-2028.1.2
3	Issuer		T1100850I	4	2011.1.24-2021.1.24
4	Issuer		T1100851G	9	2011.1.24-2021.1.24

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
5	Issuer		T1100852E	11	2011.1.24-2021.1.24
6	Issuer		T1100853C	19	2011.1.24-2021.1.24

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademarks. There are third-party rights.

15. South Korea

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		40-771270	4,9,11,19	2008.12.4-2028.12.4
2	Issuer		40-780706	4,9,11,19	2009.2.25-2029.2.25
3	Issuer		40-901892	4,9,11,19	2012.2.2-2022.2.2

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademarks.
Rights situation.

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16 , Vietnam

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		178095	4,9,11,19	2012.1.9-2020.12.6
2	Issuer		178096	4,9,11,19	2012.1.9-2020.12.6
3	Issuer		181412	4,9,11,19	2011.3.19-2021.1.18
4	Issuer		178095	04,09,11,19	2012.1.9-2020.12.6
5	Issuer		178096	04,09,11,19	2012.1.9-2020.12.6
6	Issuer		181412	04,09,11,19	2012.3.19-2021.1.18
7	Issuer		329465	09	2019.9.9-2027.4.19

According to the legal opinions of foreign lawyers and the issuer's explanation, the above-mentioned trademarks are not pledged, transferred or have the

17. Macau

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		N/54068	4	2011.6.9-2025.6.9

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
2	Issuer		N/54069	9	2011.6.9-2025.6.9
3	Issuer		N/54070	11	2011.6.9-2025.6.9
4	Issuer		N/54071	19	2011.6.9-2025.6.9

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademarks.
Rights situation.

18. European Union

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		6381321	1,4,9,11,19	2007.10.22-2027.10.22
2	Issuer		6576656	1,4,9,11,19	2008.1.15-2028.1.15
3	Issuer		9678608	1,4,9,11,19	2011.1.24-2021.1.24
4	Issuer		16076598	9	2016.11.24-2026.11.24

According to the legal opinions of foreign lawyers and the issuer's explanation, the issuer has independent ownership of the above-mentioned trademarks.
In the case of pledge, transfer, or the existence of third party rights.

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19 , Thailand

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		Kor302927	9	2007.11.6-2027.11.5
2	Issuer		Kor302331	11	2007.11.6-2027.11.5
3	Issuer		Kor290083	19	2007.11.6-2027.11.5
4	Issuer		Bor40088	39	2007.11.6-2027.11.5
5	Issuer		Bor40851	40	2007.11.6-2027.11.5
6	Issuer		Kor296563	9	2008.1.2-2028.1.1
7	Issuer		Kor296026	11	2008.1.2-2028.1.1
8	Issuer		Kor296564	19	2008.1.2-2028.1.1
9	Issuer		Bor42684	39	2008.1.2-2028.1.1

10	Issuer	Bor42685	40	2008.1.2-2028.1.1
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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
11	Issuer		Kor362134	9	2011.1.24-2021.1.23
12	Issuer		Kor362553	11	2011.1.24-2021.1.23
13	Issuer		Kor355003	19	2011.1.24-2021.1.23
14	Issuer		Bor61336	39	2011.1.24-2021.1.23
15	Issuer		Bor62105	40	2011.1.24-2021.1.23

According to the legal opinions of foreign lawyers and the issuer's explanation, the issuer has independent ownership of the above-mentioned trademark Rights situation.

20. United States

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		3917391	1	2011.2.8-2021.2.8
2	Issuer		3920085	1	2011.2.15-2021.2.15
3	Issuer		5633457	9	2018.12.18-2024.12.18

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
4	Issuer		3617453	9	2009.5.5-2019.5.5
5	Issuer		3577492	11	2009.2.17-2019.2.17
6	Issuer		3577493	19	2009.2.17-2019.2.17

The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

7	Issuer	3617457	9	2009.5.5-2019.5.5
8	Issuer	3588584	11	2009.3.10-2019.3.10
9	Issuer	3588585	19	2009.3.10-2019.3.10

According to the legal opinions of foreign lawyers and the issuer's explanation, the issuer has independent ownership of the above-mentioned trademark Rights situation. According to the company's description, the aforementioned trademarks 4 to 9 have been submitted for renewal and are still in the process c

21 , Canada

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		TMA781628	4,6,9,11,17,19,24,29	2010.11.4-2025.11.4
2	Issuer		TMA781631	4,6,9,11,17,19,24,29,39,40	2010.11.4-2025.11.4
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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
3	Issuer		TMA822594	4,6,9,11,17,19,24,29	2012.4.19-2027.4.19
4	Issuer		TMA945518	35,36,37,39,40,41,42	2016.8.8-2031.8.8
5	Issuer		TMA945519	35,36,37,39,40,41,42	2016.8.8-2031.8.8
6	Issuer		TMA1006302	9	2018.10.9-2033.10.9

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademark Rights situation.

22 , Malaysia

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		2011003729	4	2011.3.2-2021.3.2
2	Issuer		2011003728	9	2011.3.2-2021.3.2
3	Issuer		2011003727	11	2011.3.2-2021.3.2
4	Issuer		2011003726	19	2011.3.2-2021.3.2

According to the legal opinions of foreign lawyers and the issuer's instructions, and according to the trademark system query, the issuer has independent

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Circumstances of transfer or existence of third party rights.

23. Indonesia

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		IDM 000343518	4	2010.11.15-2020.11.15
2	Issuer		IDM 000356507	9	2010.11.15-2020.11.15
3	Issuer		IDM 000356508	11	2010.11.15-2020.11.15
4	Issuer		IDM 000346260	19	2010.11.15-2020.11.15
5	Issuer		IDM 000343519	4	2010.11.15-2020.11.15
6	Issuer		IDM 000447453	9	2010.11.15-2020.11.15
7	Issuer		IDM 000356509	11	2010.11.15-2020.11.15
8	Issuer		IDM 000346262	19	2010.11.15-2020.11.15
9	Issuer		IDM 000365923	4	2011.1.18-2021.1.18

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Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
10	Issuer		IDM 000409148	9	2011.1.18-2021.1.18
11	Issuer		IDM 000367816	11	2011.1.18-2021.1.18
12	Issuer		IDM 000364638	19	2011.1.18-2021.1.18

According to the legal opinions of foreign lawyers and the issuer's description, the issuer has independent ownership of the above-mentioned trademark condition.

24. India

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		1966684	4,9,11,19	2010.5.17-2020.5.17
2	Issuer		1966683	4,9,11,19	2010.5.17-2020.5.17
3	Issuer		2088859	4,9,11,19	2011.1.24-2021.1.24

4 Issuer 3575054 9 2017.6.20-2027.6.20

According to the legal opinions of foreign lawyers and the issuer's explanation, the issuer has independent ownership of the above-mentioned trademark. Circumstances of transfer or existence of third party rights.

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25, Philippines

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Issuer		4-2007-012171	9,11,19,39,40	2018.2.18-2028.2.18
2	Issuer		4-2008-000883	9,11,19,39,40	2008.7.7-2018.7.7
3	Issuer		4-2016-00506162	9	2017.7.6-2027.7.6

According to the legal opinions of foreign lawyers and the issuer's instructions, the issuer has independent ownership of the above-mentioned trademark. Rights situation. According to the company's description, the aforementioned trademark item 2 has been submitted for renewal and is still in the process of renewal.

26. United Arab Emirates

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe Limited		293346	9	2019.1.22-2028.6.7
2	Tianhe Limited		293345	6	2019.1.22-2028.6.7

According to the legal opinion issued by BSA Ahmad Bin Hezeem & Associates LLP on July 14, 2019, as of the date of issuance of the legal opinion, the above-mentioned trademarks are currently valid, and the issuer has independent ownership of the above-mentioned trademarks.

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27, Mexico

Serial number	Right holder	Trademark content	Registration Number	Approved product category	Valid period
1	Tianhe Limited		1914208	6	2018.5.23-2028.5.23

According to the legal opinion issued by Bufete Soni Law Firm on July 15, 2019, as of the date of issuance of the legal opinion, the above-mentioned trademarks are currently valid, and the issuer has independent ownership of the above-mentioned trademarks.

The above-mentioned trademarks enjoy independent ownership. According to inquiries on the relevant registration system, the above-mentioned trademarks

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Appendix 3: Status of the issuer's patents obtained in mainland China

Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
1	Issuer	ZL201410664909.7	A kind of DC/DC converter Control architecture, modulation strategy	invention	2014.11.19	2017.6.20	20 years	Original acquisition	
2	Issuer	ZL201010232681.6	All-sky hydraulic drive photovoltaic Tracking system	invention	2010.7.19	2013.3.27	20 years	Original acquisition	
3	Issuer	ZL201210141808.2	A new structure of crystalline silicon too Anode battery and preparation method thereof	invention	2012.5.8	2015.7.15	20 years	Original acquisition	
4	Issuer	ZL200810144293.5	Post-texturing of solar cells Production Process	invention	2008.7.31	2009.12.30	20 years	Original acquisition	
5	Issuer	ZL200810144292.0	Membrane permeable solar cell expansion Bulk technology	invention	2008.7.31	2010.12.29	20 years	Original acquisition	
6	Issuer	ZL200810234626.3	Single crystal silicon feeding device	invention	2008.10.27	2011.3.16	20 years	Original acquisition	
7	Issuer	ZL200910026142.4	Made of impurity silicon materials Preparation of high-purity monocrystalline silicon and Method and device	invention	2009.3.31	2011.5.4	20 years	Original acquisition	
8	Issuer	ZL200910029711.0	Metallurgical grade polysilicon solar Battery Phosphorus Diffusion Process	invention	2009.4.2	2011.3.30	20 years	Original acquisition	
9	Issuer	ZL200910029714.4	Polycrystalline silicic acid method texturing process	invention	2009.4.2	2011.9.7	20 years	Original acquisition	
10	Issuer	ZL200910181280.X	Wire saw for cutting silicon ingot	invention	2009.7.9	2012.4.4	20 years	Original acquisition	
11	Issuer	ZL200910181283.3	Roof photovoltaic installation system	invention	2009.7.9	2011.5.4	20 years	Original acquisition	
12	Issuer	ZL200910183220.1	Solar photovoltaic module cell Film defect detection method and inspection Measuring instrument	invention	2009.7.29	2012.10.3	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
13	Issuer	ZL201010129507.9	A realization of solar cells Selective emitter method	invention	2010.3.15	2011.8.17	20 years	Original acquisition	
14	Issuer	ZL201010129524.2	Conductive nickel for solar cells Pulp	invention	2010.3.15	2013.3.27	20 years	Original acquisition	
15	Issuer	ZL201010152168.6	A two-time screen printing and Solar energy combined with groove	invention	2010.4.20	2012.7.25	20 years	Original acquisition	
16	Issuer	ZL201010152175.6	Pool manufacturing process A passivated sun	invention	2010.4.20	2012.5.16	20 years	Original acquisition	
17	Issuer	ZL201010152169.0	Energy battery production method Circuit stack of photovoltaic modules	invention	2010.4.20	2012.10.3	20 years	Original acquisition	
18	Issuer	ZL201010152171.8	structure An improved solar cell	invention	2010.4.20	2012.7.25	20 years	Original acquisition	
19	Issuer	ZL201010152166.7	Diffusion film resistors are Method of uniformity	invention	2010.4.20	2013.5.15	20 years	Original acquisition	
20	Issuer	ZL201010198191.9	Sun with multiple junction boxes Battery pack	invention	2010.4.20	2013.5.15	20 years	Original acquisition	
twenty one	Issuer	ZL201010198176.4	Silicon powder vacuum compaction device and The method	invention	2010.6.10	2013.3.27	20 years	Original acquisition	
twenty two	Issuer	ZL201010198173.0	Adjustable solar power Pool component	invention	2010.6.10	2013.9.4	20 years	Original acquisition	
twenty three	Issuer	ZL201010238244.5	One for component NOCT Environmental simulation device for testing	invention	2010.6.10	2012.1.4	20 years	Original acquisition	
twenty four	Issuer	ZL201010238223.3	Back passivated battery manufacturer law	invention	2010.7.28	2012.10.17	20 years	Original acquisition	
			Processing of polysilicon ingots Prepared silicon rods for slicing	invention	2010.7.28	2012.8.8	20 years	Original acquisition	
			Methods						

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
25	Issuer	ZL201010238294.3	Crucible spraying process	invention	2010.7.28	2013.5.15	20 years	Original acquisition	
26	Issuer	ZL201010238237.5	Post cleaning process of silicon wafer	invention	2010.7.28	2011.12.7	20 years	Original acquisition	
27	Issuer	ZL201010238256.8	Reduce surface composite anti-reflection film The process of the battery	invention	2010.7.28	2011.12.14	20 years	Original acquisition	
28	Issuer	ZL201010238289.2	Crystalline silicon solar cell Single-sided acid texturing process	invention	2010.7.28	2012.5.16	20 years	Original acquisition	
29	Issuer	ZL201010238314.7	Crystalline silicon solar cell Controlling the thickness of silica	invention	2010.7.28	2012.5.30	20 years	Original acquisition	
30	Issuer	ZL201010238192.1	method Cutting head with MB wire saw	invention	2010.7.28	2012.7.18	20 years	Original acquisition	
31	Issuer	ZL201010238251.5	Uncensored 8 inch polycrystalline silicon method	invention	2010.7.28	2012.7.18	20 years	Original acquisition	
32	Issuer	ZL201010238272.7	Selective emitter solar Battery manufacturing process	invention	2010.7.28	2013.3.6	20 years	Original acquisition	
33	Issuer	ZL201010238274.6	An N-type back contact battery A kind of laser and acid etching junction	invention	2010.7.28	2012.8.8	20 years	Original acquisition	
			Synthetic texturing process A crystalline silicon solar cell	invention	2010.7.28	2013.5.15	20 years	Original acquisition	

34	Issuer	ZL201010263642.2	Selective launch junction production invention method	2010.8.26	2012.7.18	20 years	Original acquisition
35	Issuer	ZL201010263627.8	Single-step diffusion method for printing phosphorus source Make selective emission junction technology	2010.8.26	2012.11.14	20 years	Original acquisition
36	Issuer	ZL201010294778.X	Phosphorus source in tube diffusion process Recycling system	2010.9.28	2012.5.16	20 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
37	Issuer	ZL201010294746.X	Solar cell high square resistance expansion Scattered method	invention	2010.9.28	2012.10.17	20 years	Original acquisition	
38	Issuer	ZL201010298888.3	Silicon wafer wire mesh cutting process	invention	2010.10.8	2014.6.18	20 years	Original acquisition	
39	Issuer	ZL201010292733.9	Rapid cooling of polycrystalline furnace heat Field and how to use it	invention	2010.9.26	2012.6.6	20 years	Original acquisition	
40	Issuer	ZL201010296476.6	Air intake at both ends of the phosphorus diffusion furnace tube Device	invention	2010.9.29	2013.3.27	20 years	Original acquisition	
41	Issuer	ZL201010298887.9	A crystalline silicon RIE texturing Surface damage layer cleaner	invention	2010.10.8	2012.8.29	20 years	Original acquisition	
42	Issuer	ZL201010298878.X	Ingot sticking rod slicing process	invention	2010.10.8	2013.11.20	20 years	Original acquisition	
43	Issuer	ZL201010292735.8	Packaged components soldered in sections	invention	2010.9.26	2012.5.23	20 years	Original acquisition	
44	Issuer	ZL201010620738.X	The production of a large polycrystalline ingot Production method	invention	2010.12.31	2012.6.6	20 years	Original acquisition	
45	Issuer	ZL201010619898.2	A kind of polycrystalline ingot crystal Growth process	invention	2010.12.31	2012.5.2	20 years	Original acquisition	
46	Issuer	ZL201010620111.4	Silicon designed by topological principles Solar cell positive electrode	invention	2010.12.31	2012.10.17	20 years	Original acquisition	
47	Issuer	ZL201010620103.X	A solar cell production method	invention	2010.12.31	2012.10.3	20 years	Original acquisition	
48	Issuer	ZL201010620173.5	A non-standard environment Under test component battery	invention	2010.12.31	2013.7.3	20 years	Original acquisition	
49	Issuer	ZL201010620026.8	Method of setting working temperature Portable household photovoltaic power station Performance test device	invention	2010.12.31	2014.2.12	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
50	Issuer	ZL201010620688.5	Maximum power of solar module Point tracking device	invention	2010.12.31	2012.12.12	20 years	Original acquisition	
51	Sun Yat-sen University, Issuer	ZL200910213499.3	Transfer color battery under the spectrum Component	invention	2009.10.29	2011.7.20	20 years	Original acquisition	

52	Issuer, day Technology	ZL201010620676.2	Solar module plane installation Fixtures	invention	2010.12.31	2012.7.25	20 years	Original acquisition
53	Issuer, day Technology	ZL201010620861.1	Narrow pipe cooling junction box	invention	2010.12.31	2013.9.25	20 years	Original acquisition
54	Issuer, day Combined energy storage	ZL201010619930.7	Solar power generation system And its intelligent storage controller law	invention	2010.12.31	2013.8.14	20 years	Original acquisition
55	Issuer, day Technology	ZL201010620853.7	A kind of reflective crystalline silicon sun Battery pack	invention	2010.12.31	2013.4.24	20 years	Original acquisition
56	Issuer	ZL201010620839.7	A high transmission rate and low shading Area of solar cell	invention	2010.12.31	2013.1.2	20 years	Original acquisition
57	Issuer	ZL201010620327.0	Solar cell film Growth method	invention	2010.12.31	2012.6.6	20 years	Original acquisition
58	Issuer, day Technology	ZL201110031757.3	Connection of photovoltaic module frame structure	invention	2011.1.29	2013.1.9	20 years	Original acquisition
59	Issuer	ZL201110032192.0	Lotion for removing laser damage layer	invention	2011.1.29	2013.3.27	20 years	Original acquisition
60	Issuer	ZL201110040897.7	Solar power without backplane Pool component	invention	2011.2.16	2012.6.6	20 years	Original acquisition
61	Issuer	ZL201110052803.8	Passivated N-type silicon solar cell P-type doped layer of the pool Method and battery structure	invention	2011.3.5	2013.3.27	20 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
62	Sun Yat-sen University Issuer	ZL201110054530.0	Solar cell or solar cell Analog test of IV characteristics of components Try method	invention	2011.3.8	2013.7.3	20 years	Original acquisition	
63	Issuer	ZL201110062563.X	One film with multiple uses N-type solar cell And its preparation method	invention	2011.3.16	2012.12.12	20 years	Original acquisition	
64	Issuer	ZL201110111791.1	Plug-in component installation structure	invention	2011.4.30	2013.3.13	20 years	Original acquisition	
65	Issuer	ZL201110112187.0	Photovoltaic module frame assembly structure Structure and its components and components Installation structure	invention	2011.4.30	2013.4.24	20 years	Original acquisition	
66	Nanjing University Issuer	ZL201110111770.X	Preparation of silicon nanotubes method	invention	2011.4.30	2012.10.17	20 years	Original acquisition	
67	Issuer	ZL201110111779.0	Diamond wire cutting silicon wafer Cleaning method	invention	2011.4.30	2013.2.13	20 years	Original acquisition	
68	Issuer	ZL201110112185.1	Diamond wire cutting silicon wafer Method of texturing	invention	2011.4.30	2013.1.2	20 years	Original acquisition	
69	Issuer	ZL201110111775.2	A kind of solar cell floating Passivation structure and its method	invention	2011.4.30	2013.9.4	20 years	Original acquisition	
70	Issuer, day Technology	ZL201110112180.9	A kind of central opening connection Modular cell and its connection Connection structure	invention	2011.4.30	2012.10.3	20 years	Original acquisition	
71	Issuer, day Technology	ZL201110163406.8	Lightweight and easy to install component	invention	2011.6.17	2013.3.6	20 years	Original acquisition	
72	Issuer, day Technology	ZL201110163159.1	A photovoltaic module constant voltage Range operating point control elimination Methods of hot spot damage	invention	2011.6.17	2013.10.30	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
73	Issuer	ZL201110163154.9	Outdoor exposure rack fixture	invention	2011.6.17	2013.3.27	20 years	Original acquisition	
74	Issuer	ZL201110163152.X	Outdoor solar module Exposure rack	invention	2011.6.17	2013.3.27	20 years	Original acquisition	
75	Issuer	ZL201110163162.3	Band saw crystal bar cutting mechanism	invention	2011.6.17	2014.1.15	20 years	Original acquisition	
76	Issuer	ZL201110181287.9	Cold ion solar grade polycrystalline Purification method of silicon materials equipment	invention	2011.6.30	2013.5.15	20 years	Original acquisition	
77	Issuer	ZL201110180048.1	A kind of crystal ingot Measurement methods After removing RIE texturing	invention	2011.6.30	2013.3.6	20 years	Original acquisition	
78	Issuer	ZL201110180044.3	Micro damage on the surface of crystalline silicon Layer method	invention	2011.6.30	2013.7.24	20 years	Original acquisition	
79	Issuer	ZL201110183083.9	Measuring the lifetime of silicon wafers Surface treatment method	invention	2011.6.30	2013.9.4	20 years	Original acquisition	
80	Issuer	ZL201110185314.X	Multi-purpose solar battery string Suction pen	invention	2011.7.4	2013.3.13	20 years	Original acquisition	
81	Issuer	ZL201110185321.X	Single crystal furnace vacuum pipeline pressure Detection alarm system and its control System method	invention	2011.7.4	2013.4.24	20 years	Original acquisition	
82	Issuer, day Technology	ZL201110217703.6	Solar module installation and fixation Device	invention	2011.7.30	2013.9.4	20 years	Original acquisition	
83	Issuer	ZL201110217699.3	Bearing housing cooling pipe cleaning Device and method of use	invention	2011.7.30	2013.9.4	20 years	Original acquisition	
84	Issuer	ZL201110217661.6	Three suitable for RIE sude Meiji structure front dielectric film invention And its preparation method	invention	2011.7.30	2013.8.14	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
85	Issuer	ZL201110217211.7	Low defect and high yield polysilicon Ingot casting method and its thermal field Structure	invention	2011.7.30	2014.4.9	20 years	Original acquisition	
86	Issuer	ZL201110217253.0	Solar cell module low power Resistance connection method and its equipment Craft	invention	2011.7.30	2013.7.3	20 years	Original acquisition	
87	Issuer	ZL201110217200.9	The installation of solar photovoltaic modules Installation method and structure	invention	2011.7.30	2013.10.30	20 years	Original acquisition	
88	Issuer	ZL201110216669.0	Physical purification method of metal silicon Law and its equipment	invention	2011.7.30	2012.12.19	20 years	Original acquisition	
89	Issuer	ZL201110217704.0	Post-production of a multi-purpose mask Fabrication of fleece solar cells Method and structure	invention	2011.7.30	2013.10.30	20 years	Original acquisition	
90	Issuer, day Technology	ZL201110217711.0	Solar module packaging	invention	2011.7.30	2013.5.15	20 years	Original acquisition	
91	Issuer	ZL201110329442.7	Solar cell RIE process Temperature compensation method	invention	2011.10.26	2013.3.27	20 years	Original acquisition	

92	Issuer	ZL201110329864.4	Non-metallic photovoltaic module Easy to install parts and preparation method law	invention	2011.10.26	2014.4.9	20 years	Original acquisition	
93	Yancheng TRW	ZL201110344991.1	Three-cavity high-capacity laminating machine and How to use it	invention	2011.11.4	2015.5.20	20 years	Inherited	
94	Issuer	ZL201110405655.3	Floating knot on the back too Solar battery structure and its manufacturing Working method	invention	2011.12.8	2013.9.4	20 years	Original acquisition	
95	Issuer, day Heyabang	ZL201110405314.6	Automatic snow removal by solar modules Device and its control method	invention	2011.12.8	2013.12.18	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
96	Issuer	ZL201110405313.1	Heterogeneous floating junction back passivated HIT solar cell structure And its preparation process	invention	2011.12.8	2013.11.20	20 years	Original acquisition	
97	Issuer	ZL201110405263.7	Floating junction based on heterojunction Solar cell back passivation junction Structure and its preparation process	invention	2011.12.8	2014.8.6	20 years	Original acquisition	
98	Issuer	ZL201110405653.4	Two photovoltaic modules stacked structure	packaging invention	2011.12.8	2013.11.20	20 years	Original acquisition	
99	Issuer	ZL201110457658.1	A HIT solar cell junction Structure and its production method	invention	2011.12.30	2014.2.26	20 years	Original acquisition	
100	Issuer	ZL201110458011.0	Corner code card for photovoltaic module Assembly structure	invention	2011.12.30	2014.7.16	20 years	Original acquisition	
101	Issuer	ZL201110457747.6	Silicon used to test body life Film and its production method and Life test method	invention	2011.12.30	2015.7.22	20 years	Original acquisition	
102	Issuer	ZL201110459786.X	Solar Grade Ingot Polycrystalline Silicon Slice characterization method	invention	2011.12.31	2014.6.4	20 years	Original acquisition	
103	Issuer	ZL201210000526.0	Wet leakage of photovoltaic module edge Performance and long-term reliability Measuring device and method	invention	2012.1.4	2014.6.18	20 years	Original acquisition	
104	Issuer	ZL201210041886.5	Aluminum foil method to restore crystalline silicon Method	invention	2012.2.23	2014.6.4	20 years	Original acquisition	
105	Issuer	ZL201210043317.4	Both sides of the N-type double-sided battery Diffusion method	invention	2012.2.24	2014.1.15	20 years	Original acquisition	
106	Issuer	ZL201210047081.1	A kind of passivation of polysilicon wafer Approach	invention	2012.2.28	2014.7.9	20 years	Original acquisition	
107	Issuer	ZL201210047064.8	Low resistance buried grid solar Battery and its making method	invention	2012.2.28	2014.6.18	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
108	Issuer	ZL201210047063.3	Non-contact control ingot Crystal silicon seed crystal melting method	invention	2012.2.28	2014.11.26	20 years	Original acquisition	

			Degree method					
109	Issuer	ZL201210070717.4	Double layer with separate back glass invention	2012.3.16	2014.7.9	20 years	Original acquisition	
110	Issuer	ZL201210134804.1	Glass photovoltaic module invention	2012.5.3	2016.4.6	20 years	Original acquisition	
111	Issuer	ZL201210137185.1	Foldable components invention	2012.5.4	2015.6.3	20 years	Original acquisition	
112	Issuer	ZL201210141797.8	Solar cell assembly invention And its system installation pressure plate	2012.5.8	2014.12.10	20 years	Original acquisition	
113	Issuer	ZL201210140634.8	A needle using SiN thin film invention Hole formation local doping or gold invention Method of belonging	2012.5.8	2014.11.26	20 years	Original acquisition	
114	Issuer	ZL201210140670.4	Solar cell module composite invention Conductive backplane and its preparation method And how to use	2012.5.8	2014.11.12	20 years	Original acquisition	
115	Issuer	ZL201210141373.1	An improved back passivation sun sintering of battery filling performance method invention	2012.5.8	2015.5.6	20 years	Original acquisition	
116	Issuer	ZL201210141633.5	Ingot single crystal production method invention	2012.5.8	2015.3.11	20 years	Original acquisition	
117	Issuer	ZL201210141796.3	Full back electrode solar cell production method invention	2012.5.8	2015.1.21	20 years	Original acquisition	
118	Yancheng TRW	ZL201210141800.6	Cell failure after packaging detection method invention Selective emitter etching art	2012.5.8	2015.6.17	20 years	Inherited	
119	Issuer	ZL201210141799.7	Improve the rotation of silicon crystal cells invention How to change efficiency	2012.5.8	2014.12.31	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
120	Issuer	ZL201210141804.4	Plug-in component installation structure invention	2012.5.8	2014.11.26	20 years	Original acquisition		
121	Issuer	ZL201210147178.X	A kind of polysilicon wafer crystal orientation measurement Try method invention	2012.5.11	2014.12.31	20 years	Original acquisition		
122	Issuer	ZL201210190127.5	Ladder for polycrystalline silicon ingot Preparation method of high crucible invention	2012.6.8	2015.6.3	20 years	Original acquisition		
123	Issuer	ZL201210206186.7	A double-sided heterojunction solar Battery preparation method invention	2012.6.20	2014.12.31	20 years	Original acquisition		
124	Issuer	ZL201210205461.3	No hidden cracks for photovoltaic modules Moving frame method invention	2012.6.20	2016.8.10	20 years	Original acquisition		
125	Issuer	ZL201210206152.8	No hidden cracks for photovoltaic modules Movable frame removal device invention	2012.6.20	2016.9.7	20 years	Original acquisition		
126	Issuer	ZL201210205975.9	Quartz crucible for ingot casting invention	2012.6.20	2015.5.6	20 years	Original acquisition		
127	Issuer	ZL201210205228.5	A pure quasi-single crystal Hot spot invention	2012.6.20	2014.11.26	20 years	Original acquisition		
128	Issuer	ZL201210205227.0	A continuous growth quasi-single crystal Crystal device invention	2012.6.20	2015.4.15	20 years	Original acquisition		
129	Issuer	ZL201210205607.4	A dynamic of solar modules Mechanical load test device invention	2012.6.20	2014.7.16	20 years	Original acquisition		
130	Issuer	ZL201210205226.6	A kind of high mold-proof glass Molecular transparent protective film invention coating	2012.6.20	2014.8.6	20 years	Original acquisition		
131	Issuer	ZL201210205606.X	A kind of stannous sulfide solar energy Battery and its preparation method invention	2012.6.20	2014.9.24	20 years	Original acquisition		
132	Issuer	ZL201210205235.5	A kind of high-efficiency crystalline silicon too The surface of the positive battery invention Process	2012.6.20	2014.11.12	20 years	Original acquisition		

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
133	Issuer	ZL201210253217.4	Solar cell selectivity Etching device and method	invention	2012.7.20	2015.8.19	20 years	Original acquisition	
134	Issuer	ZL201210261438.6	Solar photovoltaic module automatic Packing machine and automatic packing method	invention	2012.7.26	2014.8.13	20 years	Original acquisition	
135	Issuer	ZL201210270341.1	PV module installation system and installation method	invention	2012.7.31	2015.10.28	20 years	Original acquisition	
136	Issuer	ZL201210268470.7	A new type of solar power Pool interconnection structure and its manufacturing method	invention	2012.7.31	2015.10.28	20 years	Original acquisition	
137	Issuer	ZL201210269096.2	Heat for polycrystalline ingot furnace Exchange table and its vent pipe diameter Change method	invention	2012.7.31	2014.12.31	20 years	Original acquisition	
138	Issuer	ZL201210274488.8	Solar cell surface metal Estimation method of cross resistance of chemical process law	invention	2012.8.3	2015.3.4	20 years	Original acquisition	
139	Issuer	ZL201210288450.6	Production of high-efficiency heterojunction battery Preparation method	invention	2012.8.14	2015.8.19	20 years	Original acquisition	
140	Issuer	ZL201210292141.6	PV module tester calibration method	invention	2012.8.16	2014.11.26	20 years	Original acquisition	
141	Issuer, China Mountain University	ZL201210291496.3	With no emitter area Solar battery and its preparation method	invention	2012.8.16	2014.12.10	20 years	Original acquisition	
142	Issuer	ZL201210292500.8	A self-centering sun Technology chip box capable of battery chip	invention	2012.8.16	2015.1.7	20 years	Original acquisition	
143	Issuer	ZL201210291498.2	A solar module automatic Packing machine	invention	2012.8.16	2014.7.9	20 years	Original acquisition	

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Prospect

Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
144	Issuer	ZL201210292199.0	Hand for solar cell Dynamic split device	invention	2012.8.16	2015.1.21	20 years	Original acquisition	
145	Issuer	ZL201210292493.1	Automatic cell splitting device And automatic split method	invention	2012.8.16	2014.11.26	20 years	Original acquisition	
146	Issuer	ZL201210291540.0	A solar module installation structure	invention	2012.8.16	2014.11.26	20 years	Original acquisition	
147	Issuer	ZL201210292256.5	With standard component storage device PV module testing system	invention	2012.8.16	2015.4.29	20 years	Original acquisition	
148	Issuer	ZL201210293067.X	Unify Prevent crystalline silicon solar modules Harmful polarization and black lines	invention	2012.8.17	2016.1.20	20 years	Original acquisition	
149	Issuer	ZL201210369274.9	How the phenomenon occurs A photovoltaic module installation structure	invention	2012.9.28	2015.12.9	20 years	Original acquisition	

150	Issuer	ZL201210525026.9	Electrode of solar cell structure	invention	2012.12.10	2015.6.10	20 years	Original acquisition
151	Issuer	ZL201210524975.5	Up and down of solar cells Electrode structure	invention	2012.12.10	2016.2.10	20 years	Original acquisition
152	Issuer	ZL201210559928.4	Folding component border	invention	2012.12.21	2015.1.21	20 years	Original acquisition
153	Issuer	ZL201210591992.0	Solar Simulator Standard Calibration Quasi-monitoring improvement methods	invention	2012.12.29	2015.4.29	20 years	Original acquisition
154	Issuer	ZL201310008588.0	The sun that can resist PID effect Battery passivation antireflection film	invention	2013.1.10	2015.11.18	20 years	Original acquisition
155	Issuer	ZL201310008854.X	N-type MWT solar cell Structure and manufacturing process	invention	2013.1.10	2015.7.29	20 years	Original acquisition
156	Issuer	ZL201310059668.9	A kind of polycrystalline silicon wafer crystal orientation Detection method and detection device	invention	2013.2.26	2015.6.3	20 years	Original acquisition

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Prospect

Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
157	Yancheng TRW	ZL201310136894.2	For selective emission electrode Testing during battery preparation Try to block the method	invention	2013.4.18	2015.9.9	20 years	Inherited	
158	Issuer	ZL201310134091.3	P-type silicon substrate heterojunction Pool	invention	2013.4.18	2015.4.15	20 years	Original acquisition	
159	Issuer	ZL201310154476.6	N-type hydrogen-doped crystalline silicon passivation Heterojunction solar cell Device	invention	2013.4.28	2016.6.29	20 years	Original acquisition	
160	Issuer	ZL201310179373.5	Passivated on the back of laminated film Solar cell and its preparation method	invention	2013.5.15	2016.8.24	20 years	Original acquisition	
161	Issuer	ZL201310197268.4	Solar module installation and clamping Device	invention	2013.5.24	2016.11.9	20 years	Original acquisition	
162	Issuer	ZL201310222931.1	Solar cell electric split Slice device	invention	2013.6.6	2016.12.28	20 years	Original acquisition	
163	Issuer	ZL201310260249.1	A photovoltaic roof installation structure Structure and component structure	invention	2013.6.26	2016.4.6	20 years	Original acquisition	
164	Issuer	ZL201310260236.4	An improved photovoltaic cell Parallel resistance method	invention	2013.6.26	2016.5.25	20 years	Original acquisition	
165	Issuer	ZL201310263287.2	Open circuit circuit of polysilicon wafer Pressure prediction method	invention	2013.6.26	2015.10.28	20 years	Original acquisition	
166	Issuer	ZL201310273090.7	Process water for polycrystalline battery Flat and film source evaluation method	invention	2013.6.28	2015.4.15	20 years	Original acquisition	
167	Issuer	ZL201310310101.4	A new type of heterojunction too Solar battery	invention	2013.7.23	2015.9.9	20 years	Original acquisition	
168	Issuer	ZL201310340050.X	Automatic packing of anti-cracking components equipment	invention	2013.8.6	2015.9.23	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
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169	Issuer	ZL201310358556.3	Micro-concentration photovoltaic ribbon	invention	2013.8.16	2016.6.15	20 years	Original acquisition
170	Issuer	ZL201310358425.5	Screen printing device	invention	2013.8.16	2015.5.20	20 years	Original acquisition
171	Issuer	ZL201310398369.8	Separate substrate layer on both sides of the film Method and heterojunction sun	invention	2013.9.5	2015.12.9	20 years	Original acquisition
172	Yancheng TRW	ZL201310403033.6	Energy battery preparation process A photovoltaic module frame Marking method and its photovoltaic module	invention	2013.9.6	2016.8.17	20 years	Inherited
173	Issuer	ZL201310424686.2	Production Process Household photovoltaic off-grid power supply	invention	2013.9.17	2015.9.16	20 years	Original acquisition
174	Issuer	ZL201310440907.5	The back of crystalline silicon solar cells Surface beam bridge type contact electrode and Its preparation method	invention	2013.9.25	2015.12.23	20 years	Original acquisition
175	Issuer	ZL201310467811.8	Porous pyramid anti-reflective junction Structure preparation method and Heterojunction Solar battery preparation process	invention	2013.10.10	2015.9.9	20 years	Original acquisition
176	Issuer	ZL201310500915.4	Processing method of photovoltaic ribbon And the drawing die used	invention	2013.10.23	2015.9.30	20 years	Original acquisition
177	Issuer	ZL201310544706.X	And photovoltaic ribbon processing equipment Smart electric soldering iron	invention	2013.11.6	2015.6.24	20 years	Original acquisition
178	Yancheng TRW	ZL201310604369.9	The second of crystalline silicon solar cells Sub-print registration method	invention	2013.11.26	2016.11.23	20 years	Inherited
179	Issuer	ZL201310610867.4	Probe test equipment for cell To install and use the device	invention	2013.11.26	2015.12.2	20 years	Original acquisition
180	Issuer	ZL201310625417.2	Cell current measurement method Micro-concentration photovoltaic ribbon and its Welding method	invention	2013.11.29	2015.9.30	20 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
181	Issuer	ZL201310632740.2	Back-emitter symmetric heterojunction Solar cell and its preparation method	invention	2013.11.29	2016.9.7	20 years	Original acquisition	
182	Issuer	ZL201310635112.X	law Full back electrode solar cell Production method and full back electrode	invention	2013.12.3	2016.3.2	20 years	Original acquisition	
183	Issuer	ZL201410019509.0	Polar solar cell N-type crystal of solar cell Cleaning treatment of bulk silicon	invention	2014.1.16	2015.10.21	20 years	Original acquisition	
184	Issuer	ZL201410021773.8	method Metal electrode on the front of the cell Printing method and printing equipment	invention	2014.1.17	2016.1.13	20 years	Original acquisition	
185	Issuer	ZL201410042618.4	Set Front electrode junction of solar cell Structure	invention	2014.1.29	2016.9.28	20 years	Original acquisition	
186	Issuer	ZL201410075181.4	Silicon wafer wet etching equipment and etching method	invention	2014.3.3	2016.7.13	20 years	Original acquisition	
187	Issuer	ZL201410082025.0	For engraving of solar cells Corrosion slurry and preparation method thereof And how to use	invention	2014.3.7	2015.6.24	20 years	Original acquisition	
188	Issuer	ZL201410098396.8	Used on the surface of solar cells Multiple overprint alignment of fine grid method	invention	2014.3.18	2016.11.16	20 years	Original acquisition	
189	Issuer	ZL201410146800.4	A method for detecting silicon wafer crystal orientation Method and testing device	invention	2014.4.11	2016.9.7	20 years	Original acquisition	
190	Issuer	ZL201410158537.0	An increase option emitter Mask width used in the process Degree method	invention	2014.4.21	2016.4.6	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
191	Issuer	ZL201410215742.6	A confirmed semi-finished battery Chip anti-PID performance test method	invention	2014.5.21	2015.12.9	20 years	Original acquisition	
192	Issuer	ZL201410216834.6	Light with anti-PID function Voltage confluence device	invention	2014.5.21	2016.8.17	20 years	Original acquisition	
193	Issuer	ZL201410217097.1	With selective emitter Heterojunction solar cells and Its preparation method	invention	2014.5.21	2016.1.20	20 years	Original acquisition	
194	Issuer	ZL201410217300.5	Volume resistance and sheet resistance Conversion calibration device and its calibration Quasi-method	invention	2014.5.21	2016.3.23	20 years	Original acquisition	
195	Issuer	ZL201410275382.9	N-type crystalline silicon solar power Selective emission junction Structure	invention	2014.6.19	2016.8.17	20 years	Original acquisition	
196	Issuer	ZL201410277487.8	Local doping of solar cells method	invention	2014.6.19	2016.5.11	20 years	Original acquisition	
197	Issuer	ZL201410321813.0	Distributed local boron doped Double-sided photosensitive crystalline silicon solar Battery and its preparation method	invention	2014.7.7	2017.2.15	20 years	Original acquisition	
198	Issuer	ZL201410337376.1	One method for preparing high-efficiency ingots Crystal method	invention	2014.7.15	2016.8.24	20 years	Original acquisition	
199	Issuer	ZL201410393187.6	Conductive to reducing the front grid lines Number of heterojunction cells and Its preparation method	invention	2014.8.11	2016.5.25	20 years	Original acquisition	
200	Issuer	ZL201410447653.4	Improve boron-doped P-type single crystal Silicon battery light-induced attenuation device And how to use it	invention	2014.9.3	2016.4.6	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
201	Issuer	ZL201410447418.7	Shadows in photovoltaic system design Method of measurement and its shadow measuring instrument	invention	2014.9.3	2017.3.29	20 years	Original acquisition	
202	Issuer	ZL201410692631.4	Photovoltaic module bracket and photovoltaic Component system	invention	2014.11.26	2017.1.18	20 years	Original acquisition	
203	Issuer	ZL201410712128.0	Too with point contact structure Positive battery device structure and Preparation	invention	2014.11.28	2016.9.7	20 years	Original acquisition	
204	Issuer	ZL201410722696.9	Separate texturing and cleaning steps Crystalline silicon solar cell Wet chemical treatment method Used for building interior decoration	invention	2014.12.2	2016.8.17	20 years	Original acquisition	

Issuer, China

205	Mountain University	ZL201410743903.9	Color photovoltaic modules and their manufacture	invention	2014.12.8	2016.9.28	20 years	Original acquisition	
			Preparation method						
206	Issuer	ZL201410778073.3	Solar cell front surface						
			Partial contact gate line structure and its preparation method	invention	2014.12.15	2017.5.10	20 years	Original acquisition	
207	Issuer	ZL201410789712.6	Self-aligned selective diffusion	invention	2014.12.17	2016.9.28	20 years	Original acquisition	
			Solar cell forming method						
208	Issuer	ZL201410812375.8	Adjustable tilt angle photovoltaic						
			Component IV curve test assistant	invention	2014.12.23	2017.8.4	20 years	Original acquisition	
			Assist device						
209	Issuer	ZL201410811692.8	Full back electrode solar cell						
			Formation of localized metallization	invention	2014.12.23	2017.1.25	20 years	Original acquisition	
			Production method						
210	Issuer	ZL201410810951.5	Isolation of AC output components						
			Pads and AC output components	invention	2014.12.23	2017.2.1	20 years	Original acquisition	
			Isolation packaging method						

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
211	Issuer	ZL201410817382.7	Used in electrode laser transfer						
			Laser transfer alignment device	invention	2014.12.24	2017.3.29	20 years	Original acquisition	
			And its alignment method						
212	Issuer	ZL201410837882.7	Back contact heterojunction solar	invention	2014.12.29	2017.2.1	20 years	Original acquisition	
			Pool and its preparation method						
213	Issuer	ZL201510026844.8	Crystalline silicon solar						
			Energy battery and its body passivation method	invention	2015.1.19	2017.8.4	20 years	Original acquisition	
			law						
214	Nanjing University	ZL201110315824.4	Light conversion function	invention	2011.10.17	2014.7.9	20 years	Original acquisition	
	Issuer		物 and its preparation method						
215	Issuer	ZL201510065118.7	Dispersion of photovoltaic smart junction box	invention	2015.2.6	2016.9.7	20 years	Original acquisition	
			Thermal structure						
216	Issuer	ZL201510100788.8	Used for smart photovoltaic module testing						
			Smart chip short-circuit installation	invention	2015.3.6	2017.3.1	20 years	Original acquisition	
			Set						
217	Issuer	ZL201510108949.8	A new type of intelligent junction box	invention	2015.3.12	2017.7.28	20 years	Original acquisition	
			Welding belt clamp with guide groove						
218	Issuer	ZL201510157996.1	And use the ribbon clamp	invention	2015.4.3	2017.2.22	20 years	Original acquisition	
			Ribbon pulling method						
			A kind of solar component						
219	Issuer	ZL201510380531.2	Body type junction box and its sun	invention	2015.7.2	2017.2.22	20 years	Original acquisition	
			Energy battery pack						
			Heat dissipation type for solar modules						
220	Issuer	ZL201510381990.2	Split junction box and its too	invention	2015.7.2	2017.2.22	20 years	Original acquisition	
			Solar battery components						
221	Issuer	ZL201510401580.X	A crystal ingot cutting tool	invention	2015.7.9	2017.3.8	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
222	Issuer	ZL201510466381.7	Suitable for foundation settlement Photovoltaic group for lowering the foundation site Piece mounting bracket	invention	2015.8.2	2017.9.29	20 years	Original acquisition	
223	Issuer	ZL201510502103.2	A high-efficiency passivation contact crystal Preparation of bulk silicon solar cells	invention	2015.8.15	2017.7.28	20 years	Original acquisition	
224	Issuer	ZL201510510361.5	Crystalline silicon with full back electrode Method for preparing solar cell	invention	2015.8.19	2017.4.19	20 years	Original acquisition	
225	Issuer	ZL201510667835.7	A crystalline silicon solar cell Module glass separation method	invention	2015.10.16	2017.7.7	20 years	Original acquisition	
226	Issuer	ZL201510686871.8	A kind of installation double glass photovoltaic group Ways to protect corners	invention	2015.10.22	2017.7.28	20 years	Original acquisition	
227	Issuer	ZL201510714262.9	A monitoring solar cell Anti-PID performance method and Its test device	invention	2015.10.28	2017.4.19	20 years	Original acquisition	
228	Issuer	ZL201610050192.6	Full back electrode solar cell super Low surface concentration front surface Method of formation	invention	2016.1.26	2017.3.1	20 years	Original acquisition	
229	Issuer	ZL201610095279.5	Etching pattern overprinting high precision Alignment method and device	invention	2016.2.22	2017.7.28	20 years	Original acquisition	
230	Issuer	ZL201610186020.1	A technology suitable for MBB Solar cell busbar pattern structure	invention	2016.3.25	2017.3.8	20 years	Original acquisition	
231	Issuer	ZL201610215636.7	A solar cell packaging method Method and package structure	invention	2016.4.8	2017.9.15	20 years	Original acquisition	
232	Issuer	ZL201610538686.9	A built-in smart chip Photovoltaic module	invention	2016.7.8	2017.9.15	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
233	Issuer, day Technology	ZL201610892599.3	A kind of anti-edge leakage Carving method of positive battery	invention	2016.10.13	2017.7.28	20 years	Original acquisition	
234	Issuer	ZL201110459607.2	Solar cell etching method And its equipment	invention	2011.12.31	2013.10.30	20 years	Original acquisition	
235	Issuer	ZL201410433143.1	With intelligent shutdown function Photovoltaic system	invention	2014.8.28	2017.10.27	20 years	Original acquisition	
236	Issuer	ZL201510108606.1	A heat-dissipating intelligent wiring box	invention	2015.3.12	2018.1.9	20 years	Original acquisition	
237	Issuer	ZL201510417298.0	A heterojunction solar cell And its preparation method	invention	2015.7.15	2017.10.27	20 years	Original acquisition	
238	Issuer	ZL201510492928.0	An optimization based on cascade Smart photovoltaic modules and Cascade	invention	2015.8.13	2017.10.17	20 years	Original acquisition	
239	Issuer, day Technology	ZL201510512590.0	Compound for polysilicon ingot furnace Carbon barrier coating and preparation Method, graphite guard plate, polycrystalline Silicon ingot furnace	invention	2015.8.19	2017.11.28	20 years	Original acquisition	
240	Issuer, lake Beitianhe	ZL201510533224.3	A saturated formula of a graphite boat law	invention	2015.8.27	2017.12.8	20 years	Original acquisition	
241	Issuer	ZL201510992824.6	Single-sided transverse gradient doping Mass junction battery and its preparation law	invention	2015.12.25	2017.10.24	20 years	Original acquisition	
242	Issuer	ZL201610028152.1	Full-back heterojunction solar Pool and its preparation method Full-back electrode solar power	invention	2016.1.16	2018.2.2	20 years	Original acquisition	

243	Issuer	ZL201610050185.6	Pool ultra-low surface concentration in front table Preparation method of surface field	2016.1.26	2017.11.7	20 years	Original acquisition	
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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
244	Issuer	ZL201610328025.3	Monocrystalline silicon double-sided solar cell And its preparation method	invention	2016.5.17	2017.12.8	20 years	Original acquisition	
245	Issuer	ZL201610427890.3	Solar module tape edge banding Laminating process and tape sealing Edge tool	invention	2016.6.16	2018.1.9	20 years	Original acquisition	
246	Issuer	ZL201610476065.2	A built-in diode light Volt component	invention	2016.6.24	2018.1.9	20 years	Original acquisition	
247	Tianhe Limited, Guodian NARI Technology shares Limited company	ZL201610851496.2	One with power generation forecast Distributed photovoltaic monitoring And monitoring methods	invention	2016.9.26	2017.12.29	20 years	Original acquisition	
248	Issuer	ZL201010198184.9	A photovoltaic power generation system	invention	2010.6.10	2012.11.28	20 years	Original acquisition	
249	Issuer, river Hai University State campus	ZL201410564559.7	A roof distributed photovoltaic Calculation of the best inclination angle of the system	invention	2015.1.28	2017.7.21	20 years	Inherited	
250	Issuer, river Hai University State campus	ZL201510050581.4	A photovoltaic power generation system Comprehensive reactive power compensation for network access Control system and method	invention	2016.1.30	2017.12.29	20 years	Inherited	
251	Issuer, river Hai University State campus	ZL201510116307.2	Multi-prism refraction condenser Integrated solar battery pack Pieces	invention	2015.3.17	2017.8.15	20 years	Inherited	
252	Issuer, river Hai University State campus	ZL201510357164.4	Flat single axis system tracking trajectory Calculation method	invention	2015.6.25	2017.4.5	20 years	Inherited	
253	Trina Asia	ZL201510128526.2	Photovoltaic module electrical performance test method	invention	2015.3.23	2017.7.7	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
254	Co-creation testing	ZL201410008186.5	Solar cell module indoor Temperature coefficient test method	invention	2014.1.8	2015.12.30	20 years	Inherited	
255	Yancheng TRW	ZL201010620038.0	A way to prevent the dilution of the liquid medicine and Method of protecting the surface of silicon wafer	invention	2010.12.31	2013.4.24	20 years	Inherited	
256	Yancheng TRW	ZL201110120324.5	Etching cleaning equipment and etching Cleaning process	invention	2011.5.11	2013.2.13	20 years	Inherited	
257	Yancheng Trina, Hewei New Material	ZL201110163390.0	EVA lamination for photovoltaic modules After the anti-reflection rate of the glass testing method Incident angle of photovoltaic module	invention	2011.6.17	2013.3.6	20 years	Inherited	

258	Issuer	ZL201510940866.5	Impact factor test method	invention	2015.12.16	2018.4.6	20 years	Original acquisition
259	Issuer	ZL201510988790.3	Solar cell reverse breakdown Performance test method	invention	2015.12.24	2018.3.20	20 years	Original acquisition
260	Issuer	ZL201610581744.6	A forced convection growth crystal Method and device for bulk silicon	invention	2016.7.22	2018.3.13	20 years	Original acquisition
261	Issuer	ZL201510111535.0	A smart for ventilation and heat dissipation Junction Box	invention	2015.3.13	2018.5.15	20 years	Original acquisition
262	Issuer	ZL201510189574.2	One for different thickness PV modules installed adjacently Fixtures	invention	2015.4.20	2018.9.11	20 years	Original acquisition
263	Issuer	ZL201510302473.1	A kind of crystalline silicon with high efficiency and high square resistance Cell diffusion process	invention	2015.6.5	2018.11.30	20 years	Original acquisition
264	Issuer	ZL201510344467.2	Solar cell assembly Ribbon	invention	2015.6.19	2018.8.3	20 years	Original acquisition
265	Issuer, lake Beitianhe	ZL201510901412.7	An efficient solar cell Preparation	invention	2015.12.9	2018.9.18	20 years	Original acquisition
266	Issuer	ZL201510925076.X	Used solar cells High-purity silicon recovery method	invention	2015.12.14	2018.12.18	20 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
267	Issuer	ZL201610091453.9	A kind of elimination of B doped crystalline silicon Solar cell light attenuation Method and equipment	invention	2016.2.19	2018.9.11	20 years	Original acquisition	
268	Issuer	ZL201610158286.5	Solar crystalline silicon photovoltaic Simulated light-induced degradation Reduction device and method	invention	2016.3.18	2018.9.11	20 years	Original acquisition	
269	Science in China Dean Changchunying Chemical Research Institute, Distribution people	ZL201610906545.8	Thiophenes and their preparation Methods and applications, perovskite Positive battery	invention	2016.10.17	2018.6.1	20 years	Inherited	
270	Science in China Dean Changchunying Chemical Research Institute, Distribution people	ZL201510454181.X	An organic dye and its preparation Method and its application	invention	2015.7.29	2017.4.19	20 years	Inherited	
271	Science in China Dean Changchunying Chemical Research Institute, Distribution people	ZL201510512739.5	A photosensitive dye and its preparation Preparation method and solar cell	invention	2015.8.20	2017.4.19	20 years	Inherited	
272	Issuer	ZL201610957429.9	For flexible photovoltaic power plants Photovoltaic module replacement system	invention	2016.10.27	2018.7.10	20 years	Original acquisition	
273	Issuer	ZL201610975610.2	A crystalline silicon solar cell Rotary sintering furnace and its sintering Craft	invention	2016.11.7	2018.8.21	20 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
274	Issuer	ZL201611214527.X	A quick test solar power Device for induced attenuation of cell	invention	2016.12.26	2018.5.15	20 years	Original acquisition	
275	Issuer, cloud Metallurgical Energy	ZL201611261582.4	Settings and methods One for complex terrain Adjustable photovoltaic bracket	invention	2016.12.30	2018.6.8	20 years	Original acquisition	
276	Issuer, cloud Metallurgical Energy	ZL201710067866.8	Photovoltaic support column or pile foundation Foundation elevation adjustment	invention	2017.2.7	2018.8.28	20 years	Original acquisition	
277	Issuer	ZL201710079632.5	Used for the sealing of solar modules Edge equipment and its working method	invention	2017.2.15	2018.4.17	20 years	Original acquisition	
278	Issuer	ZL201710104735.2	High conversion efficiency anti-PID N-type crystalline silicon double-side	invention	2017.2.24	2018.9.11	20 years	Original acquisition	
279	Issuer	ZL201710551808.2	And its preparation method A half-cell solar cell Components and welding methods	invention	2017.7.7	2018.10.30	20 years	Original acquisition	
280	Yancheng TRW	ZL201710329677.3	A solar battery aluminum back field Structure and manufacturing method	invention	2017.5.11	2018.5.29	20 years	Original acquisition	
281	Issuer	ZL201510797323.2	A terminal APP-based Smart PV module information following	invention	2015.11.18	2019.2.15	20 years	Original acquisition	
282	Issuer	ZL201610581802.5	Tracking system A graded high-purity molten stone Preparation process of British crucible	invention	2016.7.22	2019.1.4	20 years	Original acquisition	
283	Changzhou University Tianhe Limited	ZL201610674023.X	A new type of colloidal crystal Self-assembly method	invention	2016.8.15	2019.3.22	20 years	Original acquisition	
284	Trina Technology Issuer	ZL201621324348.7	Laminating tooling for double glass	utility model	2016.12.6	2017.6.20	10 years	Original acquisition	
285	Issuer	ZL201621341238.1	Power generation test environment	utility model	2016.12.7	2017.6.6	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
286	Issuer	ZL201520241662.8	An accurate measurement of photovoltaics The outdoor exposure of the module	utility model	2015.4.20	2015.9.9	10 years	Original acquisition	
287	Issuer	ZL201520124278.X	Drying device Back passivation solar power Passivation mold slotting on the back of the module	utility model	2015.3.4	2015.8.19	10 years	Original acquisition	
288	Issuer	ZL201420026535.1	structure Roller vertical conveying mechanism	utility model	2014.1.16	2014.6.18	10 years	Original acquisition	
289	Issuer	ZL201220690566.8	Solar cell module	Utility model	2012.12.13	2013.7.3	10 years	Original acquisition	
290	Issuer	ZL201120056165.2	Solar grade monocrystalline silicon	utility model	2011.3.5	2012.2.8	10 years	Original acquisition	
291	Issuer	ZL201120056163.3	Components with electronic label	utility model	2011.3.5	2012.1.4	10 years	Original acquisition	
292	Issuer	ZL201120056266.X	Front passivated RIE texturing Crystalline silicon battery	Utility model	2011.3.5	2011.10.5	10 years	Original acquisition	
293	Issuer, day Technology	ZL201120135580.7	Very thin wire connection modular Cell	Utility model	2011.4.30	2011.10.5	10 years	Original acquisition	
294	Issuer	ZL201120135579.4	Coating heat for single crystal furnace Screen	Utility model	2011.4.30	2011.12.14	10 years	Original acquisition	
295	Issuer	ZL201120135036.2	Solar cell and its Component	Utility model	2011.4.30	2011.10.5	10 years	Original acquisition	
296	Issuer	ZL201120135578.X	Solar cell assembly	Utility model	2011.4.30	2011.10.5	10 years	Original acquisition	
297	Issuer	ZL201120147208.8	Connection junction of solar modules	Utility model	2011.5.11	2012.1.4	10 years	Original acquisition	

			Structure						
298	Issuer	ZL201120147172.3	Solar component frame	Utility model	2011.5.11	2011.12.7	10 years	Original acquisition	
			Connection structure						
299	Issuer	ZL201120204624.7	High output polysilicon ingot furnace	Utility model	2011.6.17	2012.3.14	10 years	Original acquisition	
			Thermal field structure						

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
300	Issuer	ZL201120204633.6	Double with high reflection structure	Utility model	2011.6.17	2012.1.18	10 years	Original acquisition	
			Glass components						
301	Issuer	ZL201120204631.7	Heat shield support for single crystal furnace	Utility model	2011.6.17	2012.2.1	10 years	Original acquisition	
			Brace						
302	Issuer	ZL201120204640.6	Improve solar cell diffusion	Utility model	2011.6.17	2012.3.14	10 years	Original acquisition	
			Uniform Quartz Boat						
303	Issuer	ZL201120205117.5	Wet etching groove	Utility model	2011.6.17	2012.1.18	10 years	Original acquisition	
304	Issuer	ZL201120225752.X	Solar photovoltaic pre-assembled frame group	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
			Piece extrusion device						
305	Issuer	ZL201120226074.9	Chain washing machine	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
306	Issuer	ZL201120227368.3	Washing machine to prevent stacking	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
307	Issuer	ZL201120226067.9	Solar cell silicon wafer wet engraving	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
			Corrosion fluid replacement device						
308	Issuer	ZL201120226056.0	Leak-proof device for single crystal furnace	Utility model	2011.6.30	2012.4.4	10 years	Original acquisition	
309	Issuer	ZL201120226116.9	A kind of single crystal furnace auxiliary chamber extraction	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
			Empty device						
310	Issuer	ZL201120225898.4	A reusable cast	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
			Crucible for ingot						
311	Issuer	ZL201120225887.6	One used for single crystal furnace to lower	Utility model	2011.6.30	2012.3.14	10 years	Original acquisition	
			Energy-consuming thermal field device						
312	Issuer	ZL201120227309.6	Component frame locking device	Utility model	2011.6.30	2012.2.1	10 years	Original acquisition	
313	Issuer	ZL201120232513.7	Ingot crucible heating rotary table	Utility model	2011.7.4	2012.3.14	10 years	Original acquisition	
314	Issuer	ZL201120232512.2	Used for crucible spray heating spin	Utility model	2011.7.4	2012.3.14	10 years	Original acquisition	
			Limiting device of turntable						

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
315	Issuer	ZL201120232475.5	Used for crucible spray heating spin	Utility model	2011.7.4	2012.2.1	10 years	Original acquisition	
			Silicone pad heating plate for turntable						
316	Issuer	ZL201120232572.4	Used for crucible spray heating spin	Utility model	2011.7.4	2012.4.4	10 years	Original acquisition	
			Side plate device of turntable						
317	Issuer	ZL201120232473.6	Single crystal furnace chassis	Utility model	2011.7.4	2012.3.14	10 years	Original acquisition	
318	Issuer	ZL201120232511.8	Solar module frame connection	Utility model	2011.7.4	2012.1.18	10 years	Original acquisition	
			structure						

319	Issuer	ZL201120232472.1	With temperature detection device Crucible spray heating rotary table	Utility model	2011.7.4	2012.3.14	10 years	Original acquisition
320	Issuer	ZL201120232510.3	Vacuum pressure transmission of single crystal furnace Sensor installation structure	Utility model	2011.7.4	2012.2.1	10 years	Original acquisition
321	Issuer	ZL201120274585.8	Solar cell module cleaning knife With	Utility model	2011.7.30	2012.4.25	10 years	Original acquisition
322	Issuer	ZL201120275716.4	Optimized stack of photovoltaic modules structure	Utility model	2011.7.30	2012.3.14	10 years	Original acquisition
323	Issuer	ZL201120274582.4	Automatic component turning machine	Utility model	2011.7.30	2012.3.14	10 years	Original acquisition
324	Issuer	ZL201120275009.5	JYT furnace cleaning quick interface Device	Utility model	2011.7.30	2012.4.11	10 years	Original acquisition
325	Issuer	ZL201120275648.1	Silicon liquid overflow instant feedback device Set	Utility model	2011.7.30	2012.3.28	10 years	Original acquisition
326	Issuer	ZL201120275878.8	Quick feedback silicon liquid overflow monitor Control device	Utility model	2011.7.30	2012.4.11	10 years	Original acquisition
327	Issuer	ZL201120275727.2	For solar cell modules Mold on the silicone junction box With	Utility model	2011.7.30	2012.3.14	10 years	Original acquisition
328	Issuer	ZL201120275647.7	A single crystal furnace thermal field	Utility model	2011.7.30	2012.4.11	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
329	Issuer, day Technology	ZL201120275853.8	Improve the efficiency of component framing Fixture	Utility model	2011.8.1	2012.4.4	10 years	Original acquisition	
330	Issuer	ZL201120321337.4	Removable solar battery pack Pieces of aluminum frame	Utility model	2011.8.30	2012.4.4	10 years	Original acquisition	
331	Issuer	ZL201120321293.5	Solar cell module	Utility model	2011.8.30	2012.5.2	10 years	Original acquisition	
332	Issuer	ZL201120321292.0	Invisible solar modules Crack tester	Utility model	2011.8.30	2012.5.23	10 years	Original acquisition	
333	Issuer	ZL201120321290.1	Self-cleaning photovoltaic modules	Utility model	2011.8.30	2012.4.4	10 years	Original acquisition	
334	Issuer	ZL201120321289.9	With local cooling device Polysilicon thermal field	Utility model	2011.8.30	2012.5.30	10 years	Original acquisition	
335	Issuer	ZL201120321336.X	Screw type box cover junction box	Utility model	2011.8.30	2012.5.2	10 years	Original acquisition	
336	Issuer, day Technology	ZL201120321333.6	Wiring with cooling base box	Utility model	2011.8.30	2012.4.4	10 years	Original acquisition	
337	Issuer	ZL201120321012.6	Sand suction machine and its water	Utility model	2011.8.30	2012.5.30	10 years	Original acquisition	
338	Issuer	ZL201120320844.6	Solar photovoltaic module Detection lamp	Utility model	2011.8.30	2012.4.4	10 years	Original acquisition	
339	Issuer	ZL201120320631.3	A solar cell component color Non-metallic detachable insulation frame	Utility model	2011.8.30	2012.4.4	10 years	Original acquisition	
340	Issuer	ZL201120413028.X	Solar cell cleaning device	Utility model	2011.10.26	2012.6.27	10 years	Original acquisition	
341	Issuer, day Technology	ZL201120414221.5	Temperature monitoring interface Wire box	Utility model	2011.10.26	2012.6.27	10 years	Original acquisition	
342	Issuer	ZL201120412978.0	With foldable photovoltaic modules Solar mobile power station	Utility model	2011.10.26	2012.7.4	10 years	Original acquisition	
343	Issuer	ZL201120413114.0	A hydraulic lift Solar mobile power station	Utility model	2011.10.26	2012.6.20	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
344	Issuer	ZL201120414131.6	A warehouse with an external interface Solar mobile power station	Utility model	2011.10.26	2012.7.4	10 years	Original acquisition	
345	Issuer	ZL201120413107.0	A container loading type Independent solar mobile electricity station	Utility model	2011.10.26	2012.6.20	10 years	Original acquisition	
346	Issuer	ZL201120413808.4	Free splicing solar panel Piece border	Utility model	2011.10.26	2012.6.20	10 years	Original acquisition	
347	Issuer	ZL201120413807.X	Free splicing solar panel Piece holder	Utility model	2011.10.26	2012.6.20	10 years	Original acquisition	
348	Issuer	ZL201120414132.0	Free splicing solar panel Pieces of slider	Utility model	2011.10.26	2012.7.4	10 years	Original acquisition	
349	Issuer	ZL201120414135.4	Free splicing solar panel Long rail	Utility model	2011.10.26	2012.6.20	10 years	Original acquisition	
350	Issuer	ZL201120413031.1	Improve the yield of silicon rod tail Device	Utility model	2011.10.26	2012.6.20	10 years	Original acquisition	
351	Issuer	ZL201120412988.4	With flat miniature diode Photovoltaic module	Utility model	2011.10.26	2012.7.4	10 years	Original acquisition	
352	Issuer	ZL201120413034.5	Forklift for polysilicon ingot furnace Lifting device	Utility model	2011.10.26	2012.7.18	10 years	Original acquisition	
353	Issuer	ZL201120507612.1	Point contact back emitter heterogeneous Junction solar cell	Utility model	2011.12.8	2012.8.1	10 years	Original acquisition	
354	Issuer	ZL201120571434.9	One for component production Cell string adapter template	Utility model	2011.12.30	2012.10.3	10 years	Original acquisition	
355	Issuer	ZL201120574200.X	Forklift crane for polysilicon ingot Install the device	Utility model	2011.12.31	2012.10.3	10 years	Original acquisition	
356	Issuer	ZL201120574116.8	Outdoor mobile solar panel PID power recovery test box	Utility model	2011.12.31	2012.10.3	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
357	Issuer	ZL201120573837.7	Manual solar module power Attenuation prevention module	Utility model	2011.12.31	2012.8.29	10 years	Original acquisition	
358	Issuer	ZL201120573995.2	Automatic solar module power Attenuation prevention module	Utility model	2011.12.31	2012.8.29	10 years	Original acquisition	
359	Issuer	ZL201220060035.0	Solar cell module installation junction Structure	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition	
360	Issuer	ZL201220060017.2	Grinding for processing round chamfers wheel	Utility model	2012.2.23	2012.10.17	10 years	Original acquisition	
361	Issuer	ZL201220060016.8	Stacked test tooling handle set Pieces	Utility model	2012.2.23	2012.11.7	10 years	Original acquisition	
362	Issuer, day Technology	ZL201220060034.6	PV module frame	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition	
363	Issuer	ZL201220060033.1	Back passivation solar cell structure	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition	
364	Issuer	ZL201220060031.2	Connection junction between photovoltaic modules Structure	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition	
365	Issuer	ZL201220060018.7	Anti-overflow glue for solar modules frame	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition	
366	Issuer	ZL201220060024.2	Solar module aluminum frame	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition	
367		ZL201220060023.8	Integrated silicon wafer etching paste		2012.2.23	2012.10.3			

	Issuer		Material cleaning machine	Utility model			10 years	Original acquisition
			A kind of used to control ingot crystal					
368	Issuer	ZL201220060001.1	Body growth interface shape Set	Utility model	2012.2.23	2013.3.13	10 years	Original acquisition
369	Issuer	ZL201220060003.0	Crystal rod splicing device	Utility model	2012.2.23	2012.10.17	10 years	Original acquisition
370	Issuer	ZL201220060002.6	A way to prevent the battery from overshooting Silicon chip protection structure	Utility model	2012.2.23	2012.10.3	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
371	Issuer	ZL201220062262.7	Multi-process cavity double-sided coating PECVD device	Utility model	2012.2.24	2012.10.17	10 years	Original acquisition	
372	Issuer	ZL201220067530.4	A kind of silicon crystal rod for detecting grinding surface Size tool	Utility model	2012.2.28	2012.10.17	10 years	Original acquisition	
373	Issuer	ZL201220067526.8	Polycrystalline ingot silicon material solid and liquid two Phase real-time image detection device	Utility model	2012.2.28	2012.10.17	10 years	Original acquisition	
374	Issuer	ZL201220067470.6	Warning for solar modules Junction Box	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
375	Issuer	ZL201220067469.3	Has low energy consumption thermal field structure Ingot furnace	Utility model	2012.2.28	2012.10.17	10 years	Original acquisition	
376	Issuer, day Technology	ZL201220067468.9	Solar module anti-overflow cementing Structure	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
377	Issuer, day Technology	ZL201220067467.4	Module lamination positioning template and Double glass group using this template Pieces	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
378	Issuer, day Technology	ZL201220067466.X	Borderless component packaging structure	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
379	Issuer	ZL201220067453.2	Anticorrosive treatment of photovoltaic module	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
380	Issuer	ZL201220067451.3	Cell carrier cooling device Set	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
381	Issuer	ZL201220067425.0	Intelligent component testing device	Utility model	2012.2.28	2012.10.17	10 years	Original acquisition	
382	Issuer	ZL201220067424.6	Wedge frame structure	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
383	Issuer	ZL201220067423.1	Sun with buffer structure Battery pack side packaging	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
384	Issuer	ZL201220067422.7	Compound crucible side guard	Utility model	2012.2.28	2012.10.17	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
385	Issuer	ZL201220067421.2	Easy to install solar modules Frame structure	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	
386	Issuer	ZL201220067382.6	Single crystal rod docking device	Utility model	2012.2.28	2012.10.17	10 years	Original acquisition	
387	Issuer	ZL201220067528.7	Busbar installation fixture	Utility model	2012.2.28	2012.10.3	10 years	Original acquisition	

388	Issuer	ZL201220067527.2	A kind of low damage and high passivation Solar battery	Utility model	2012.2.28	2012.12.19	10 years	Original acquisition
389	Issuer	ZL201220078204.3	Wire saw cutting auxiliary equipment	Utility model	2012.3.5	2012.10.3	10 years	Original acquisition
390	Issuer	ZL201220152743.7	A light with back passivation Volt battery structure	Utility model	2012.4.11	2012.12.5	10 years	Original acquisition
391	Issuer	ZL201220152741.8	Double carbon brush mechanism	Utility model	2012.4.11	2012.12.5	10 years	Original acquisition
392	Issuer	ZL201220152710.2	Module back plate opening device	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition
393	Issuer	ZL201220152709.X	Used to reduce polycrystalline carbon in ingots Crucible heat shield	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition
394	Issuer	ZL201220152708.5	Battery back engraved roller	Utility model	2012.4.11	2012.12.5	10 years	Original acquisition
395	Issuer	ZL201220152707.0	Polycrystalline silicon rod grinding machine grinding wheel Angle adjustment tooling	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition
396	Issuer	ZL201220152706.6	Busbarless solar cells Probe row of measuring equipment	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition
397	Issuer	ZL201220152682.4	Single crystal ingot perpendicularity test instrument	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition
398	Issuer	ZL201220152610.X	With controllable crystal growth thermal field Structured ingot furnace	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition
399	Issuer	ZL201220152517.9	Battery low resistance connection structure	Utility model	2012.4.11	2012.12.5	10 years	Original acquisition
400	Issuer	ZL201220152607.8	A component packaging structure	Utility model	2012.4.11	2012.12.12	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
401	Issuer, day Heyabang	ZL201220204110.6	Plug-in component installation structure	Utility model	2012.5.8	2013.1.16	10 years	Original acquisition	
402	Issuer	ZL201220292405.3	With temperature monitoring function Slicing device	Utility model	2012.6.20	2013.1.16	10 years	Original acquisition	
403	Issuer, joint Weixin Materials	ZL201220293341.9	Strong bond with EVA Powerful Double Glass Module	Utility model	2012.6.20	2013.1.30	10 years	Original acquisition	
404	Issuer	ZL201220293328.3	Used for component lamination process Detection device	Utility model	2012.6.20	2013.1.16	10 years	Original acquisition	
405	Issuer	ZL201220292232.5	Automatic component frame removal machine fixed Device	Utility model	2012.6.20	2013.1.16	10 years	Original acquisition	
406	Issuer	ZL201220292146.4	Single crystal sticking device	Utility model	2012.6.20	2013.3.13	10 years	Original acquisition	
407	Issuer	ZL201220293326.4	Automatic cutting device	Utility model	2012.6.20	2013.1.16	10 years	Original acquisition	
408	Issuer	ZL201220292404.9	Solar energy photovoltaic cell welding Template	Utility model	2012.6.20	2013.1.16	10 years	Original acquisition	
409	Issuer	ZL201220290985.2	Polycrystalline silicon rod C angle chamfering machine Adjust tooling	Utility model	2012.6.20	2013.1.16	10 years	Original acquisition	
410	Issuer	ZL201220292471.0	Heat exchange with filter barrel Filter and filter barrel	Utility model	2012.6.20	2013.4.24	10 years	Original acquisition	
411	Issuer	ZL201220407469.3	Can be used for frameless component mounting Installed component installation structure	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	
412	Issuer	ZL201220406851.2	Double glass module fixed structure	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	
413	Issuer	ZL201220407226.X	Self-cleaning solar battery pack Parts and components self-cleaning device	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	
414	Issuer	ZL201220407310.1	Solar panel production one Body console	Utility model	2012.8.16	2013.3.27	10 years	Original acquisition	
415	Issuer	ZL201220405959.X	Smart junction box	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
416	Issuer	ZL201220407330.9	Solar photovoltaic module lamination Turnover car	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	
417	Issuer	ZL201220407466.X	Bus bars for photovoltaic modules and Its components	Utility model	2012.8.16	2013.3.27	10 years	Original acquisition	
418	Issuer	ZL201220407037.2	With selective emitter Solar battery	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	
419	Issuer	ZL201220405835.1	I-shaped solar module edge Frame and its installation structure	Utility model	2012.8.16	2013.3.13	10 years	Original acquisition	
420	Issuer	ZL201220407278.7	Solar cell slot system Velvet equipment and its bubble breaking Device	Utility model	2012.8.16	2013.3.27	10 years	Original acquisition	
421	Issuer	ZL201220551602.2	Light for component east-west installation Volt array and its mounting bracket	Utility model	2012.10.26	2013.4.24	10 years	Original acquisition	
422	Issuer	ZL201220711944.6	A kind of back passivated IBC too Solar battery structure	Utility model	2012.12.21	2013.7.3	10 years	Original acquisition	
423	Issuer	ZL201220717426.5	Solar component packaging Backplane	Utility model	2012.12.21	2013.7.3	10 years	Original acquisition	
424	Issuer	ZL201220719834.4	A HIT solar cell structure	Utility model	2012.12.21	2013.10.30	10 years	Original acquisition	
425	Issuer	ZL201320038975.4	For polysilicon ingot furnace Circumferential and radial heat exchange table	Utility model	2013.1.25	2013.7.10	10 years	Original acquisition	
426	Issuer	ZL201320099680.8	Photovoltaic module stack tester Install	Utility model	2013.3.5	2013.7.24	10 years	Original acquisition	
427	Issuer, spit Lufan Tianhe	ZL201320099325.0	Photovoltaic module stack lead wire Control tooling	Utility model	2013.3.5	2013.7.24	10 years	Original acquisition	
428	Issuer	ZL201320099280.7	PV module junction box positioning Tooling	Utility model	2013.3.5	2013.7.24	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
429	Issuer	ZL201320107991.4	Crystalline silicon solar cells and thin Membrane battery synthesis of double-sided double Solar battery components	Utility model	2013.3.11	2013.7.24	10 years	Original acquisition	
430	Issuer	ZL201320192146.1	Carrier board for carrying silicon wafer	Utility model	2013.4.17	2013.11.13	10 years	Original acquisition	
431	Issuer	ZL201320263063.7	Glue nozzle for sizing	Utility model	2013.5.15	2013.10.30	10 years	Original acquisition	
432	Issuer	ZL201320293929.9	Corner protection of solar module frame structure	Utility model	2013.5.27	2013.11.13	10 years	Original acquisition	
433	Issuer	ZL201320324023.9	Support structure for glass production	Utility model	2013.6.6	2013.11.13	10 years	Original acquisition	
434	Issuer	ZL201320324217.9	Corner protection structure of double glass module	Utility model	2013.6.6	2013.11.13	10 years	Original acquisition	
435	Issuer, spit Lufan Tianhe	ZL201320418453.7	Corner protector for photovoltaic module	Utility model	2013.7.15	2013.12.18	10 years	Original acquisition	
436	Issuer	ZL201320502265.2	Micro-concentration photovoltaic wiring ribbon	Utility model	2013.8.16	2014.1.15	10 years	Original acquisition	
437	Issuer, spit Lufan Tianhe	ZL201320542200.0	Convenient for quick installation of photovoltaic modules PV modules installed and connected system	Utility model	2013.9.3	2014.2.5	10 years	Original acquisition	

438	Issuer	ZL201320577983.6	An outdoor photovoltaic off-grid power supply	Utility model	2013.9.17	2014.2.12	10 years	Original acquisition
439	Issuer	ZL201320578881.6	Solar cell polishing equipment	Utility model	2013.9.18	2014.2.5	10 years	Original acquisition
440	Issuer	ZL201320596139.8	Prepare to reduce the deformation of structure	Utility model	2013.9.23	2014.2.26	10 years	Original acquisition
441	Issuer	ZL201320593624.X	A crystalline silicon solar cell Front electrode	Utility model	2013.9.25	2014.4.2	10 years	Original acquisition
442	Issuer	ZL201320660820.4	The back of crystalline silicon solar cells Surface beam bridge type contact electrode	Utility model	2013.10.25	2014.9.3	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
443	Issuer	ZL201320693889.7	Used for channel steel frame construction Connection device	Utility model	2013.11.5	2014.4.23	10 years	Original acquisition	
444	Issuer	ZL201320718178.0	Easy to adjust the inclination of components Solar module installation structure	Utility model	2013.11.14	2014.6.4	10 years	Original acquisition	
445	Issuer	ZL201320719712.X	Frame structure of photovoltaic module	Utility model	2013.11.14	2014.5.7	10 years	Original acquisition	
446	Issuer, spit Lufan Tianhe	ZL201320732332.X	Two-way installation of photovoltaic modules Device	Utility model	2013.11.19	2014.4.23	10 years	Original acquisition	
447	Issuer	ZL201320733711.0	Mounting support for photovoltaic module	Utility model	2013.11.19	2014.4.23	10 years	Original acquisition	
448	Issuer	ZL201320741182.9	Crystalline silicon solar cell Thin film passivation structure	Utility model	2013.11.21	2014.4.23	10 years	Original acquisition	
449	Issuer	ZL201320760716.2	Probe test equipment for cell Set	Utility model	2013.11.26	2014.4.30	10 years	Original acquisition	
450	Issuer	ZL201320762121.0	Welding ribbon soaking drying cutting Body equipment	Utility model	2013.11.28	2014.4.23	10 years	Original acquisition	
451	Issuer	ZL201320765189.4	Drainage roof photovoltaic module Waterproof installation structure	Utility model	2013.11.29	2014.5.7	10 years	Original acquisition	
452	Issuer, spit Lufan Tianhe	ZL201320780739.X	Portable rooftop photovoltaic module Support structure	Utility model	2013.12.3	2014.5.28	10 years	Original acquisition	
453	Issuer	ZL201320834869.7	Photovoltaic with grounding function Component fixing device	Utility model	2013.12.18	2014.5.28	10 years	Original acquisition	
454	Issuer, spit Lufan Tianhe	ZL201320835074.8	Photovoltaic with integrated mounting bracket Component	Utility model	2013.12.18	2014.6.18	10 years	Original acquisition	
455	Issuer	ZL201320834925.7	Easy to install and splicing photovoltaic Module structure and photovoltaic module	Utility model	2013.12.18	2014.5.28	10 years	Original acquisition	
456	Issuer	ZL201320850397.4	Component side with integrated cable clamp Frame structure	Utility model	2013.12.23	2014.5.28	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
457	Issuer	ZL201320862267.2	Grid junction of solar cell Structure	Utility model	2013.12.25	2014.5.28	10 years	Original acquisition	

458	Issuer	ZL201320866429.X	Fixing the edges of photovoltaic module	Utility model	2013.12.26	2014.7.30	10 years	Original acquisition
459	Issuer	ZL201420015111.5	The difference of hydrogen-doped crystalline silicon passivation Mass junction solar cell	Utility model	2014.1.10	2014.10.8	10 years	Original acquisition
460	Issuer	ZL201420017348.7	Micro-concentration photovoltaic battery	Utility model	2014.1.10	2014.6.18	10 years	Original acquisition
461	Issuer	ZL201420018903.8	Battery slice with flexible cover box	Utility model	2014.1.13	2014.6.18	10 years	Original acquisition
462	Issuer	ZL201420029679.2	Solar Packing Buffer	Utility model	2014.1.17	2014.7.23	10 years	Original acquisition
463	Issuer	ZL201420039556.7	Cooling solar module	Utility model	2014.1.22	2014.7.2	10 years	Original acquisition
464	Issuer	ZL201420056023.X	Solar cell module stack Foolproof positioning template	Utility model	2014.1.29	2014.7.2	10 years	Original acquisition
465	Issuer	ZL201420084072.4	Solar module installation support frame	Utility model	2014.2.27	2014.7.23	10 years	Original acquisition
466	Issuer	ZL201420125303.1	Framed solar module Ground structure	Utility model	2014.3.20	2014.7.23	10 years	Original acquisition
467	Issuer	ZL201420125304.6	Suitable for angle installation Solar component frame	Utility model	2014.3.20	2014.7.23	10 years	Original acquisition
468	Issuer	ZL201420191998.3	Improved selection of emitter light expansion Uniformity structure	Utility model	2014.4.21	2014.9.3	10 years	Original acquisition
469	Issuer	ZL201420361935.8	Embedded photovoltaic modules Bracket	Utility model	2014.7.1	2014.11.5	10 years	Original acquisition
470	Issuer	ZL201420359948.1	Automatic grounding photovoltaic system	Utility model	2014.7.1	2014.11.5	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
471	Issuer	ZL201420373810.7	Distributed local boron doped Double-sided photosensitive crystalline silicon solar battery	Utility model	2014.7.7	2014.11.26	10 years	Original acquisition	
472	Issuer	ZL201420395267.0	Quickly improve crystalline silicon solar Mass production equipment for polycrystalline silicon solar module production	Utility model	2014.7.16	2014.11.26	10 years	Original acquisition	
473	Issuer	ZL201420451967.7	Conductive to reducing the front grid lines Number of heterojunction cells	Utility model	2014.8.11	2014.12.17	10 years	Original acquisition	
474	Issuer	ZL201420492660.1	Light with six output ports Volt component	Utility model	2014.8.28	2014.12.17	10 years	Original acquisition	
475	Issuer	ZL201420492786.9	With intelligent shutdown function Photovoltaic system	Utility model	2014.8.28	2014.12.17	10 years	Original acquisition	
476	Issuer	ZL201420492787.3	Sub-cascade of photovoltaic modules Optimal function of photovoltaic system	Utility model	2014.8.28	2014.12.17	10 years	Original acquisition	
477	Issuer	ZL201420506710.7	Box and its photovoltaic module Crystal silicon solar cell	Utility model	2014.9.3	2014.12.31	10 years	Original acquisition	
478	Issuer	ZL201420530494.X	Replacement metal front electrode Back electrode structure battery test Test bench	Utility model	2014.9.15	2014.12.31	10 years	Original acquisition	
479	Issuer	ZL201420574630.5	Convenient for quick connection of components Photovoltaic module	Utility model	2014.9.30	2015.2.25	10 years	Original acquisition	
480	Issuer	ZL201420677356.4	Tile house and outdoor general photovoltaic Folding bracket	Utility model	2014.11.13	2015.2.11	10 years	Original acquisition	
481	Issuer	ZL201420721069.9	Photovoltaic modules connected with C-shaped steel Connect the installation device	Utility model	2014.11.26	2015.3.18	10 years	Original acquisition	
482	Issuer	ZL201420722134.X	Automatic grounding color steel tile bracket structure	Utility model	2014.11.26	2015.3.18	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
483	Yancheng TRW	ZL201420739936.1	Too with point contact structure Positive battery device structure	Utility model	2014.11.28	2015.3.18	10 years	Inherited	
484	Issuer	ZL201420754506.7	Photovoltaic double glass module mounting clamp With	Utility model	2014.12.4	2015.4.15	10 years	Original acquisition	
485	Issuer	ZL201420770643.X	The positive charge of crystalline silicon solar cells Pole structure	Utility model	2014.12.8	2015.3.18	10 years	Original acquisition	
486	Issuer	ZL201420787292.3	Color steel tile bracket fixture	Utility model	2014.12.11	2015.4.29	10 years	Original acquisition	
487	Issuer	ZL201420787215.8	Building balcony photovoltaic system	Utility model	2014.12.11	2015.3.18	10 years	Original acquisition	
488	Issuer	ZL201420795151.6	Photovoltaic cell production line coating Clip-on hook	Utility model	2014.12.15	2015.4.1	10 years	Original acquisition	
489	Yancheng TRW	ZL201420797177.4	Solar cell front surface Partial contact grid structure	Utility model	2014.12.15	2015.4.15	10 years	Inherited	
490	Issuer	ZL201420807331.1	Judge the failure of photovoltaic modules Used photovoltaic module structure	Utility model	2014.12.17	2015.4.1	10 years	Original acquisition	
491	Issuer	ZL201420826456.9	Adjustable tilt angle photovoltaic Component IV curve test assistant	Utility model	2014.12.23	2015.4.1	10 years	Original acquisition	
492	Yancheng TRW	ZL201420826798.0	Assist device Isolation of AC output components pad	Utility model	2014.12.23	2015.4.1	10 years	Inherited	
493	Issuer	ZL201420827301.7	Outdoor real-time photovoltaic modules Electricity and operation monitoring and control system	Utility model	2014.12.23	2015.4.1	10 years	Original acquisition	
494	Issuer	ZL201520074462.8	PV module installation hook	Utility model	2015.2.2	2015.6.10	10 years	Original acquisition	
495	Issuer	ZL201520088450.0	Mechanical load measurement of photovoltaic modules Test equipment	Utility model	2015.2.6	2015.6.24	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
496	Issuer	ZL201520092909.4	Laser on the back of the photovoltaic cell Slot pattern structure	Utility model	2015.2.9	2015.6.10	10 years	Original acquisition	
497	Issuer	ZL201520116952.X	Solar back passivation battery Coated carrier board	Utility model	2015.2.26	2015.6.24	10 years	Original acquisition	
498	Issuer	ZL201520131943.8	Frame assembly installation structure	Utility model	2015.3.6	2015.6.10	10 years	Original acquisition	
499	Issuer	ZL201520132761.2	Multi-function discharge of welding equipment Device	Utility model	2015.3.9	2015.7.8	10 years	Original acquisition	
500	Issuer	ZL201520140146.6	A light that can actively dissipate heat Volt component	Utility model	2015.3.12	2015.8.19	10 years	Original acquisition	
501	Yancheng TRW	ZL201520202771.9	Welding belt clamp with guide groove	Utility model	2015.4.3	2015.7.29	10 years	Inherited	
502	Issuer	ZL201520223037.0	Front grid structure of cell	Utility model	2015.4.14	2015.7.29	10 years	Original acquisition	
503	Issuer	ZL201520243510.1	A method for connecting photovoltaic modules Electrical connection device in the Set	Utility model	2015.4.21	2015.8.19	10 years	Original acquisition	

			A method for connecting photovoltaic modules					
504	Issuer	ZL201520245929.0	The electrical connection in the front of the cell structure	Utility model	2015.4.21	2015.9.9	10 years	Original acquisition
505	Issuer	ZL201520317760.5	Metal electrode on the front of the cell printing table	Utility model	2015.5.15	2015.9.9	10 years	Original acquisition
506	Issuer	ZL201520322288.4	Automatic cell printing table cleaning device	Utility model	2015.5.18	2015.9.9	10 years	Original acquisition
507	Issuer	ZL201520321463.8	Online cell fragment collection set device	Utility model	2015.5.18	2015.9.9	10 years	Original acquisition
508	Issuer	ZL201520365900.6	A way to increase photovoltaic module development electricity installation structure	Utility model	2015.5.29	2015.9.9	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
509	Issuer	ZL201520381420.9	Front grid line of cell electrode structure	Utility model	2015.6.5	2015.9.9	10 years	Original acquisition	
510	Issuer	ZL201520428576.8	A copper strip with high oxidation resistance	Utility model	2015.6.19	2016.7.6	10 years	Original acquisition	
511	Issuer	ZL201520448162.1	Adhesive installation of photovoltaic backplane mechanism	Utility model	2015.6.26	2015.9.30	10 years	Original acquisition	
512	Trina Technology, Issuer	ZL201520468477.2	A connection for solar modules wire box	Utility model	2015.7.3	2015.11.18	10 years	Original acquisition	
513	Issuer	ZL201520514978.X	A new type of heterojunction solar battery	Utility model	2015.7.15	2016.2.3	10 years	Original acquisition	
514	Issuer, lake Beitianhe	ZL201520566069.0	Automatic loading and unloading of chain silicon wafers	Utility model	2015.7.30	2015.12.2	10 years	Original acquisition	
515	Issuer	ZL201520572079.5	Anti-reverse device of film box of machine suitable for foundation settlement	Utility model	2015.8.2	2015.12.23	10 years	Original acquisition	
516	Issuer, day Heyabang	ZL201520577259.2	Photovoltaic group for lowering the foundation site	Utility model	2015.8.4	2015.12.9	10 years	Original acquisition	
517	Issuer	ZL201520591071.3	Piece mounting bracket	Utility model	2015.8.8	2016.1.20	10 years	Original acquisition	
518	Issuer, lake Beitianhe	ZL201520600639.3	Non-opening double glass component	Utility model	2015.8.11	2015.12.2	10 years	Original acquisition	
519	Issuer	ZL201520619379.4	Used for angular chi type color steel tile house	Utility model	2015.8.17	2015.12.2	10 years	Original acquisition	
520	Issuer, lake Beitianhe	ZL201520638369.5	Photovoltaic support structure	Utility model	2015.8.21	2015.12.30	10 years	Original acquisition	
521	Issuer	ZL201520657653.7	Light Decay Solar Cells Install	Utility model	2015.8.27	2015.12.23	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
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522	Issuer, river Hai University State campus	ZL201520654018.3	A large area of perovskite too Positive battery pack	Utility model	2015.8.27	2016.2.3	10 years	Original acquisition
523	Issuer, lake Beitianhe	ZL201520664290.X	A kind of polysilicon texturing machine Pure water spray system	Utility model	2015.8.28	2016.3.30	10 years	Original acquisition
524	Issuer	ZL201520677349.9	A kind of anti-light-induced degradation Positive battery sintering furnace	Utility model	2015.9.2	2015.12.23	10 years	Original acquisition
525	Issuer, day Technology	ZL201520698684.7	Photovoltaic module roof support structure Structure	Utility model	2015.9.10	2015.12.30	10 years	Original acquisition
526	Issuer, lake Beitianhe	ZL201520698833.X	Silicon wafer automatic corrector device	Utility model	2015.9.10	2015.12.30	10 years	Original acquisition
527	Issuer	ZL201520805959.2	A photovoltaic power supply system Vending machine	Utility model	2015.10.16	2016.3.9	10 years	Original acquisition
528	Yancheng TRW	ZL201520818764.1	A double-glass photovoltaic module protection angle	Utility model	2015.10.22	2016.2.3	10 years	Inherited
529	Issuer, day Technology	ZL201520834681.1	Solar photovoltaic module installation structure	Utility model	2015.10.26	2016.3.2	10 years	Original acquisition
530	Issuer, day Heyabang, Tian Technology	ZL201520845220.4	A short-side return of photovoltaic modules Positive fixture	Utility model	2015.10.28	2016.3.30	10 years	Original acquisition
531	Issuer, day Technology	ZL201520882235.8	A light that can be precisely positioned Volt component junction box	Utility model	2015.11.6	2016.3.9	10 years	Original acquisition
532	Issuer	ZL201520891967.3	A method for combining double glass components Installed on the tracking bracket	Utility model	2015.11.10	2016.3.30	10 years	Original acquisition
533	Issuer, day Technology	ZL201520926277.7	Installation structure A modular solar power Junction box for pool components	Utility model	2015.11.19	2016.6.29	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
534	Issuer, day Heyabang	ZL201520960151.1	Battery chip feeding device	Utility model	2015.11.27	2016.4.20	10 years	Original acquisition	
535	Issuer	ZL201520959968.7	Back passivation solar cell Metal structure and its back Passivated solar cells	Utility model	2015.11.27	2016.3.30	10 years	Original acquisition	
536	Tianhe Limited	ZL201521001529.1	Single polycrystalline silicon wafer universal bearing Graphite frame	Utility model	2015.12.7	2016.5.4	10 years	Original acquisition	
537	Issuer, day Heyabang	ZL201521003797.7	Photovoltaic module glass feeding partition Lie tool	Utility model	2015.12.7	2016.5.4	10 years	Original acquisition	
538	Yancheng TRW	ZL201521025140.0	Wiring for photovoltaic module Box pressing device	Utility model	2015.12.11	2016.4.20	10 years	Inherited	
539	Issuer	ZL201521049352.2	Incident angle of photovoltaic module Impact factor testing device	Utility model	2015.12.16	2016.4.20	10 years	Original acquisition	
540	Issuer	ZL201521051658.1	A photovoltaic module or array IV characteristic measuring device	Utility model	2015.12.16	2016.5.4	10 years	Original acquisition	
541	Issuer	ZL201521062107.5	Applied to double glass module installation Ground-free connection structure	Utility model	2015.12.17	2016.5.11	10 years	Original acquisition	
542	Issuer	ZL201521089489.0	Junction box and component bus bar Wiring structure	Utility model	2015.12.24	2016.5.11	10 years	Original acquisition	
543	Issuer	ZL201521106437.X	Full-back solar cell structure	Utility model	2015.12.25	2016.5.11	10 years	Original acquisition	
544	Issuer	ZL201521116034.3	Transparent perovskite solar cell Conductive substrate and its perovskite Solar cell	Utility model	2015.12.30	2016.5.11	10 years	Original acquisition	
545	Issuer	ZL201521116035.8	Perovskite solar cell module Package structure	Utility model	2015.12.30	2016.6.1	10 years	Original acquisition	
546	Yancheng TRW	ZL201620023770.2	Double layer lattice heating lamination machine	Utility model	2016.1.11	2016.6.29	10 years	Inherited	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
547	Issuer	ZL201620021821.8	Hole plugging block for double glass components Tooling	Utility model	2016.1.11	2016.6.15	10 years	Original acquisition	
548	Issuer	ZL201620047386.6	Complex terrain photovoltaic square array pile Bit adjustment structure	Utility model	2016.1.18	2016.6.29	10 years	Original acquisition	
549	Issuer	ZL201620112729.2	Photovoltaic mounting system	Utility model	2016.2.3	2016.6.29	10 years	Original acquisition	
550	Issuer	ZL201620112955.0	Fixed components of photovoltaic mounting structure	Utility model	2016.2.3	2016.7.13	10 years	Original acquisition	
551	Issuer	ZL201620165654.4	Light used for color steel tile roof Volt component installation structure	Utility model	2016.3.4	2016.7.27	10 years	Original acquisition	
552	Issuer	ZL201620200218.6	Photovoltaic bracket adjustment horizontal installation Set	Utility model	2016.3.16	2016.8.10	10 years	Original acquisition	
553	Issuer	ZL201620213515.4	Used for color steel tile roof photovoltaic Flat steel installation structure of power station	Utility model	2016.3.18	2016.10.12	10 years	Original acquisition	
554	Issuer, cloud Metallurgical Energy	ZL201620286977.9	Internal pressure installation of photovoltaic modules Device	Utility model	2016.4.7	2016.8.24	10 years	Original acquisition	
555	Issuer	ZL201620288279.2	Transparent and conductive with nanowires Perovskite solar Pool	Utility model	2016.4.8	2016.12.14	10 years	Original acquisition	
556	Yancheng TRW	ZL201620288338.6	Solar cell packaging junction Structure	Utility model	2016.4.8	2016.8.24	10 years	Inherited	
557	Issuer	ZL201620405888.1	Photovoltaic mounting assembly utility vehicle	Utility model	2016.5.7	2016.9.28	10 years	Original acquisition	
558	Issuer	ZL201620417475.5	For laser transfer equipment Slurry coating platform	Utility model	2016.5.10	2016.9.21	10 years	Original acquisition	
559	Issuer	ZL201620417566.9	For surface with mounting block Packaging device for glass products	Utility model	2016.5.10	2016.10.12	10 years	Original acquisition	
560	Issuer	ZL201620417445.4	Cell metal fine grid line excitation Optical transfer head device	Utility model	2016.5.10	2016.9.21	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
561	Issuer	ZL201620450535.3	Single crystal silicon double-sided sun battery	Utility model	2016.5.17	2017.1.18	10 years	Original acquisition	
562	Issuer	ZL201620522619.3	A kind of anti-low power factor Distributed photovoltaic power station	Utility model	2016.6.1	2016.10.12	10 years	Original acquisition	
563	Issuer	ZL201620539153.8	Borderless viscose laminate Photovoltaic panels	Utility model	2016.6.2	2016.11.16	10 years	Original acquisition	
564	Issuer	ZL201620555589.6	Laser transfer pattern template	Utility model	2016.6.8	2016.10.26	10 years	Original acquisition	
565	Yancheng TRW	ZL201620591459.8	Hand-held tape edge banding tool	Utility model	2016.6.16	2017.4.19	10 years	Inherited	
566	Issuer	ZL201620635626.4	Cell printing paste coating Shave	Utility model	2016.6.24	2016.11.16	10 years	Original acquisition	
567	Issuer	ZL201620643708.3	A built-in diode light Volt component	Utility model	2016.6.24	2016.11.16	10 years	Original acquisition	

568	Issuer	ZL201620752596.5	Low resistance to corporate intranet interference Grid-connected distributed photovoltaic power station	Utility model	2016.7.16	2016.12.14	10 years	Original acquisition
569	Issuer, day Technology	ZL201620900227.6	Photovoltaics for photovoltaic modules Junction Box	Utility model	2016.8.18	2017.2.15	10 years	Original acquisition
570	Issuer	ZL201620930567.3	Has a stacked heterojunction structure Passive emitter solar	Utility model	2016.8.24	2017.2.22	10 years	Original acquisition
571	Issuer	ZL201621113401.9	Solar photovoltaic screen printing Use scraper and scraper	Utility model	2016.10.10	2017.4.12	10 years	Original acquisition
572	Issuer, day Technology	ZL201621164399.8	Flux spraying precision for string welding machine Accurate control device	Utility model	2016.11.1	2017.5.10	10 years	Original acquisition
573	Issuer, day Technology	ZL201621158187.9	A kind of battery for multiple busbar Test device	Utility model	2016.11.1	2017.8.15	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
574	Issuer	ZL201621192345.2	Double-sided crystal silicon solar power Pool	Utility model	2016.11.6	2017.6.20	10 years	Original acquisition	
575	Issuer	ZL201621192441.7	A double-sided solar cell Test device	Utility model	2016.11.6	2017.4.19	10 years	Original acquisition	
576	Issuer, day Technology	ZL201621207552.0	Double-sided photovoltaic modules and photovoltaics Power system	Utility model	2016.11.9	2017.8.11	10 years	Original acquisition	
577	Issuer	ZL201621335431.4	Measuring PERC solar cells Device for local contact with void	Utility model	2016.12.7	2017.6.6	10 years	Original acquisition	
578	Issuer	ZL201621407201.4	An efficient that is easy to test Solar cell and its test equipment	Utility model	2016.12.20	2017.6.20	10 years	Original acquisition	
579	Issuer	ZL201621407170.2	Set PV module frame installation knot	Utility model	2016.12.20	2017.8.15	10 years	Original acquisition	
580	Issuer	ZL201621409152.8	Structure Segmented micro-focusing welding tape	Utility model	2016.12.21	2017.6.20	10 years	Original acquisition	
581	Trina Technology, Issuer	ZL201621409078.X	Multi busbar solar cell	Utility model	2016.12.21	2017.8.4	10 years	Original acquisition	
582	Issuer	ZL201720010118.1	Solar module frame	Utility model	2017.1.5	2017.7.7	10 years	Original acquisition	
583	Issuer	ZL201720120199.0	IBC battery single soldering station and string Combined welding station	Utility model	2017.2.9	2017.8.25	10 years	Original acquisition	
584	Yancheng TRW	ZL201720137421.8	Used for the sealing of solar modules Edge equipment	Utility model	2017.2.15	2017.9.29	10 years	Inherited	
585	Issuer	ZL201720032048.X	A kind of water photovoltaic module installation Installation unit floating platform	Utility model	2017.1.11	2017.11.28	10 years	Original acquisition	
586	Issuer	ZL201720346966.X	Solar cell string Mobile positioning system	Utility model	2017.4.4	2017.11.3	10 years	Original acquisition	
587	Issuer	ZL201720497320.1	One for solar cells Protective sleeve for component connector	Utility model	2017.5.5	2017.11.28	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
588	Issuer	ZL201720616695.5	Solar cell assembly	Utility model	2017.5.27	2017.12.8	10 years	Original acquisition	
589	Issuer	ZL201720767113.3	Solar cell silicon wafer Sintering furnace	Utility model	2017.6.28	2018.1.9	10 years	Original acquisition	
590	Issuer	ZL201720889117.9	Photovoltaic string welding machine	Utility model	2017.7.20	2018.1.26	10 years	Original acquisition	
591	Issuer	ZL201720976307.4	A crystalline silicon solar power Pool	Utility model	2017.8.4	2018.2.6	10 years	Original acquisition	
592	TRW Technology	ZL201420259749.3	Photovoltaic solar simulator test Device	Utility model	2014.5.21	2014.9.17	10 years	Original acquisition	
593	Trina Technology	ZL201420263030.7	Rail-free photovoltaic installation system Unify	Utility model	2014.5.21	2014.9.17	10 years	Original acquisition	
594	Trina Technology	ZL201420283256.3	Portable foldable off-grid group Pieces	Utility model	2014.5.30	2014.10.8	10 years	Original acquisition	
595	Trina Technology	ZL201420287913.1	Manually adjustable fixed light Bracket system	Utility model	2014.5.30	2014.10.8	10 years	Original acquisition	
596	Trina Technology	ZL201420301393.5	Used for linkage pumping of polycrystalline furnace Vacuum device	Utility model	2014.6.6	2014.10.29	10 years	Original acquisition	
597	Trina Asia	ZL201520160715.3	Photovoltaic module electrical performance test Device	Utility model	2015.3.23	2015.6.24	10 years	Original acquisition	
598	Trina Asia	ZL201520165740.0	Electric performance of a photovoltaic module Lead test fixture	Utility model	2015.3.23	2015.6.24	10 years	Original acquisition	
599	Yancheng TRW	ZL201120056456.1	With high light transmission structure Solar battery components	Utility model	2011.3.5	2011.9.21	10 years	Inherited	
600	Yancheng TRW	ZL201120135039.6	A crystalline silicon solar cell Main grid structure	Utility model	2011.4.30	2011.12.14	10 years	Inherited	
601	Yancheng TRW	ZL201120205107.1	A photovoltaic module packaging junction Structure	Utility model	2011.6.17	2012.5.16	10 years	Inherited	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
602	Yancheng TRW	ZL201120226069.8	Crystalline silicon solar cell module	Utility model	2011.6.30	2012.1.18	10 years	Inherited	
603	Yancheng TRW	ZL201120232474.0	One for cleaning and drying silicon wafers Dry hot water heating device	Utility model	2011.7.4	2012.1.18	10 years	Inherited	
604	Yancheng TRW	ZL201120274594.7	Solar cell chip etching machine Transmission device	Utility model	2011.7.30	2012.3.14	10 years	Inherited	
605	Yancheng TRW	ZL201120321186.2	Super soft tin-coated copper strip	Utility model	2011.8.30	2012.4.4	10 years	Inherited	
606	Hubei TRW	ZL201620026274.2	Slurry centrifugal filter	Utility model	2016.1.12	2016.7.6	10 years	Original acquisition	
607	Hubei TRW	ZL201620033501.4	Lamination for washing machine Detection device	Utility model	2016.1.14	2016.6.1	10 years	Original acquisition	
608	Hubei TRW	ZL201620033515.6	Used for silicon wafer cleaning equipment filter	Utility model	2016.1.14	2016.6.29	10 years	Original acquisition	
609	Hubei TRW	ZL201620042977.4	Screen printing sintering furnace belt Cleaning device	Utility model	2016.1.15	2016.6.15	10 years	Original acquisition	
610	Hubei TRW	ZL201620204596.1	Waste acid from crystalline silicon solar cells Recovery of HNO3 and HF from liquid	Utility model	2016.3.17	2016.11.16	10 years	Original acquisition	
611	Hubei TRW	ZL201620565682.5	Anti-breaking grid solar cell Positive electrode screen	Utility model	2016.6.14	2016.11.16	10 years	Original acquisition	
612	Hubei Tianhe	ZL201620690369.4	Crystalline silicon solar battery back power Polar net structure	Utility model	2016.7.1	2016.12.14	10 years	Original acquisition	
613	Issuer	ZL201720498985.4	Small size solar cells and Solar battery	Utility model	2017.5.5	2018.3.13	10 years	Original acquisition	
614	Issuer	ZL201720976215.6	One can achieve secondary printing Screen printing machine	Utility model	2017.8.4	2018.2.27	10 years	Original acquisition	

615	Issuer	ZL201721112120.6	A photovoltaic interconnection strip and light Volt battery pack	Utility model	2017.8.31	2018.3.27	10 years	Original acquisition	
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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
616	Issuer	ZL201721317237.8	A photovoltaic cell tile, light Volt battery installation component and light Top photovoltaic cell system	Utility model	2017.10.12	2018.5.29	10 years	Original acquisition	
617	Issuer, day Technology	ZL201721570270.1	A photovoltaic module, photovoltaic tile Photovoltaic system	Utility model	2017.11.21	2018.11.16	10 years	Original acquisition	
618	Issuer, day Technology	ZL201721602730.4	Unify Building roof photovoltaic system System and PV module connection Component	Utility model	2017.11.24	2018.5.29	10 years	Original acquisition	
619	Issuer	ZL201721750917.9	Double-sided double-glass photovoltaic group Pieces of glass back panel and double-sided double Glass photovoltaic module	Utility model	2017.12.14	2018.6.15	10 years	Original acquisition	
620	Issuer, day Technology	ZL201721775935.2	A photovoltaic module frame and Framed photovoltaic module	Utility model	2017.12.18	2018.6.29	10 years	Original acquisition	
621	Issuer, day Technology	ZL201721824656.0	Multifunctional double-sided photovoltaic Component bracket	Utility model	2017.12.22	2018.7.6	10 years	Original acquisition	
622	Issuer, day Technology	ZL201721824102.0	A photovoltaic module corner code and Photovoltaic module	Utility model	2017.12.22	2018.7.6	10 years	Original acquisition	
623	Issuer	ZL201820049318.2	A contact technology based on passivation Full back electrode solar battery	Utility model	2018.1.11	2018.8.3	10 years	Original acquisition	
624	Issuer, day Heyabang	ZL201820113801.2	A photovoltaic module automation Assembly line test tooling and test Test device	Utility model	2018.1.23	2018.8.31	10 years	Original acquisition	
625	Issuer	ZL201820280672.6	One with snow melting function Crystalline silicon solar battery Pieces	Utility model	2018.2.27	2018.12.14	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
626	Issuer	ZL201820280793.0	A kind of snow melting function Crystalline silicon solar battery Pieces	Utility model	2018.2.27	2018.11.23	10 years	Original acquisition	
627	Issuer	ZL201820280709.5	One with snow melting function Double glass crystal silicon solar battery Pool component	Utility model	2018.2.27	2018.12.21	10 years	Original acquisition	
628	Issuer	ZL201820280794.5	A kind of snow melting function Double glass crystal silicon solar battery Pool component	Utility model	2018.2.27	2018.11.30	10 years	Original acquisition	
629	Issuer	ZL201820324971.5	An integrated circuit board	Utility model	2018.3.9	2018.9.7	10 years	Original acquisition	

630	Issuer	ZL201820332206.8	PV modules A photovoltaic conductive backplane and Photovoltaic module	Utility model	2018.3.9	2018.11.16	10 years	Original acquisition
631	Issuer	ZL201820332175.6	A photovoltaic cell assembly	Utility model	2018.3.9	2018.9.21	10 years	Original acquisition
632	Issuer	ZL201820323975.1	A full tandem half piece Photovoltaic module	Utility model	2018.3.9	2018.9.7	10 years	Original acquisition
633	Issuer	ZL201820324000.0	A new type of half-cell photovoltaic Pool component	Utility model	2018.3.9	2018.11.16	10 years	Original acquisition
634	Issuer	ZL201820323990.6	A new type of circuit design Photovoltaic module	Utility model	2018.3.9	2018.9.7	10 years	Original acquisition
635	Issuer	ZL201820332223.1	A new type of printing machine Height adjustment device for inkjet printing And printing machine	Utility model	2018.3.9	2018.9.28	10 years	Original acquisition
636	Issuer	ZL201820409354.5	A solar cell and Laminated double glass solar cell Component	Utility model	2018.3.26	2018.11.9	10 years	Original acquisition
637	Issuer	ZL201820496767.1	A utility model of solar photovoltaic module		2018.4.3	2018.9.28	10 years	Inherited

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
			Junction box group						
638	Issuer, day Technology	ZL201821019976.3	A new type of photovoltaic battery pack Frame structure and photovoltaic Battery pack	Utility model	2018.6.28	2018.12.21	10 years	Original acquisition	
639	Issuer	ZL201821020129.9	A photovoltaic inverter	Utility model	2018.6.28	2018.12.21	10 years	Original acquisition	
640	Hubei TRW	ZL201320012478.7	A buried gate with increased height Metalized electrode structure	Utility model	2013.1.10	2013.9.4	10 years	Inherited	
641	Hubei TRW	ZL201320012480.4	Solar cell front film structure	Utility model	2013.1.10	2013.9.4	10 years	Inherited	
642	Hubei TRW	ZL201320012479.1	One can prevent silicon wafers from hanging Floating flower basket	Utility model	2013.1.10	2013.9.4	10 years	Inherited	
643	Hubei TRW	ZL201320012483.8	One that can increase productivity New type of quartz boat	Utility model	2013.1.10	2013.9.4	10 years	Inherited	
644	Hubei TRW	ZL201320012481.9	One that can be used in both directions Graphite boat	Utility model	2013.1.10	2013.9.4	10 years	Inherited	
645	Hubei TRW	ZL201320012484.2	A new type of unloading carrier With	Utility model	2013.1.10	2013.9.4	10 years	Inherited	
646	Hubei Tianhe	ZL201820360416.8	Polycrystalline chain type texturing machine New pressure rod device	Utility model	2018.3.16	2018.11.6	10 years	Original acquisition	
647	Hubei Tianhe	ZL201820361027.7	One kind of SC-LSZ3300 more Crystal chain type texturing machine Device for preventing overvoltage damage	Utility model	2018.3.16	2018.11.6	10 years	Original acquisition	
648	Hubei Tianhe	ZL201820360417.2	Polycrystalline chain type texturing machine Silicon wafer guide roller device	Utility model	2018.3.16	2018.11.6	10 years	Original acquisition	
649	Hubei Tianhe	ZL201820360128.2	A silicon wafer etching belt leaf roller Wheel device	Utility model	2018.3.16	2018.11.6	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
650	Hubei Tianhe	ZL201820360418.7	A kind of electromagnetic sheet diffusion tail gas Emission treatment device	Utility model	2018.3.16	2018.11.9	10 years	Original acquisition	
651	Yancheng TRW	ZL201820425452.8	Reflective flat sun Energy battery pack	Utility model	2018.3.28	2018.12.18	10 years	Original acquisition	
652	Yancheng TRW	ZL201820425392.X	A reflective enhanced flat panel too Solar battery components	Utility model	2018.3.28	2018.12.11	10 years	Original acquisition	
653	Hefei Trina Light Energy Technology Limited company	ZL201721351163.X	Anti-PID solar modules structure	Utility model	2017.10.19	2018.4.27	10 years	Original acquisition	
654	Hefei Trina Light Energy Technology Limited company	ZL201721350719.3	One for solar cells Grip of chip component transfer machine	Utility model	2017.10.19	2018.4.27	10 years	Original acquisition	
655	Hefei Trina Light Energy Technology Limited company	ZL201721351192.6	A kind of five main grid double glass solar Energy component	Utility model	2017.10.19	2018.4.27	10 years	Original acquisition	
656	Hefei Trina Light Energy Technology Limited company	ZL201721351191.1	To improve the utilization of light energy Solar battery components	Utility model	2017.10.19	2018.4.27	10 years	Original acquisition	
657	Hefei Trina Light Energy Technology Limited company	ZL201721370791.2	Solar cell module cooling platform	Utility model	2017.10.19	2018.4.27	10 years	Original acquisition	
658	Hefei Trina Light Energy Technology Limited company	ZL201721373217.2	A photovoltaic cell and application Photovoltaic group using this cell Piece circuit connection structure	Utility model	2017.10.19	2018.4.27	10 years	Original acquisition	
659	Hefei Trina Light Energy Technology Limited company	ZL201721351174.8	Crucible spraying for polycrystalline ingot Heating rotary table	Utility model	2017.10.19	2018.6.15	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
660	Hefei Trina Light Energy Technology Limited company	ZL201721351150.2	One with alarm function Lamination for photovoltaic modules machine	Utility model	2017.10.19	2018.6.15	10 years	Original acquisition	
661	Hefei Trina Light Energy Technology Limited company	ZL201721350705.1	A kind of regulating temperature gradient Thermal field of polysilicon ingot filtering structure	Utility model	2017.10.19	2018.6.15	10 years	Original acquisition	
662	Hefei Trina Light Energy Technology Limited company	ZL201721351612.0	Photovoltaic tiles	Utility model	2017.10.19	2018.6.15	10 years	Original acquisition	
663	Hefei Trina Light Energy Technology Limited company	ZL201721351164.4	Solar photovoltaic module cell Chip defect detector	Utility model	2017.10.19	2018.6.15	10 years	Original acquisition	
664	Hefei Trina Light Energy Technology Limited company	ZL201721351194.5	PV module insulation withstand voltage Dynamic test device	Utility model	2017.10.19	2018.6.15	10 years	Original acquisition	
665	Hefei Trina Light Energy Technology Limited company	ZL201721427693.8	Solar photovoltaic module group frame Machine assembly platform	Utility model	2017.10.31	2018.6.15	10 years	Original acquisition	
666	Hefei Trina Light Energy Technology Limited company	ZL201721425585.7	Photovoltaic module cell welding Steel belt group with TT welding machine Combined structure	Utility model	2017.10.31	2018.6.15	10 years	Original acquisition	
667	Hefei Trina Light Energy Technology Limited company	ZL201721427694.2	All-sky hydraulic drive photovoltaic Tracking system	Utility model	2017.10.31	2018.6.15	10 years	Original acquisition	

668	Limited company Hefei Trina Light Energy Technology Limited company	ZL201721351162.5	Solar cell module lamination machine	Utility model	2017.10.19	2018.6.26	10 years	Original acquisition
669	Hechuang Testing	ZL20172113991.X	PID test environment box	Utility model	2017.9.1	2018.3.6	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
670	Co-creation testing	ZL201721114259.4	Solar modules can be sprayed cyclically Shower system	Utility model	2017.9.1	2018.3.6	10 years	Original acquisition	
671	Co-creation testing	ZL201721120920.2	Environmental test detection device and Environmental test detection system	Utility model	2017.9.1	2018.3.30	10 years	Original acquisition	
672	Co-creation testing	ZL201721120966.4	Leakage current detection device and leakage Current detection system	Utility model	2017.9.1	2018.3.27	10 years	Original acquisition	
673	Co-creation testing	ZL201721113994.3	Component test in environmental test chamber Test rack	Utility model	2017.9.1	2018.3.6	10 years	Original acquisition	
674	Co-creation testing	ZL201721120948.6	Thermal performance detection device and thermal Performance testing system	Utility model	2017.9.1	2018.3.6	10 years	Original acquisition	
675	Co-creation testing	ZL201721114323.9	Lead end tensile testing machine	Utility model	2017.9.1	2018.3.6	10 years	Original acquisition	
676	Co-creation testing	ZL201721114438.8	Module airbag type mechanical load Testing Machine	Utility model	2017.9.1	2018.3.6	10 years	Original acquisition	
677	Co-creation testing	ZL201721113880.9	Solar Module/Cell EL Test all-in-one	Utility model	2017.9.1	2018.3.16	10 years	Original acquisition	
678	Co-creation testing	ZL201721259533.7	Mechanical load measurement of photovoltaic modules Test device	Utility model	2017.9.28	2018.6.19	10 years	Original acquisition	
679	Co-creation testing	ZL201721260472.6	Airbag type of photovoltaic module Load test device	Utility model	2017.9.28	2018.6.19	10 years	Original acquisition	
680	Co-creation testing	ZL201721258583.3	A dustproof test for photovoltaic modules Test device	Utility model	2017.9.28	2018.5.1	10 years	Original acquisition	
681	Hechuang Testing	ZL201721260475.X	A steady state simulation and UV Aging integrated test box	Utility model	2017.9.28	2018.5.1	10 years	Original acquisition	
682	Co-creation testing	ZL201721258582.9	Multifunctional photovoltaic module test system	Utility model	2017.9.28	2018.5.1	10 years	Original acquisition	
683	Co-creation testing	ZL201721258662.4	A waterproof test of photovoltaic modules Test device	Utility model	2017.9.28	2018.5.1	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
684	Trina Energy Storage	ZL201620049539.0	Energy storage battery pack structure and collection Packing energy storage device	Utility model	2016.1.19	2016.8.31	10 years	Original acquisition	
685	Trina Energy Storage	ZL201620045739.9	Photovoltaic energy storage power distribution system	Utility model	2016.1.19	2016.8.17	10 years	Original acquisition	
686	Trina Energy Storage	ZL201620152364.6	Energy storage container for quick repair Battery high-voltage box structure of box	Utility model	2016.2.29	2016.8.3	10 years	Original acquisition	
687	Trina Energy Storage	ZL201620152365.0	Energy of photovoltaic energy storage system Management system	Utility model	2016.2.29	2016.8.3	10 years	Original acquisition	

688	Trina Energy Storage ZL201620818384.2	Soft pack battery pack structure	Utility model	2016.7.29	2017.1.25	10 years	Original acquisition
689	Trina Energy Storage ZL201621339860.9	Soft pack battery cooling and ventilation junction Structure	Utility model	2016.12.7	2017.8.1	10 years	Original acquisition
690	Trina Energy Storage ZL201820295192.7	A cylindrical lithium battery support frame	Utility model	2018.3.3	2018.8.31	10 years	Original acquisition
691	Trina Energy Storage ZL201820295193.1	A frequency measurement system	Utility model	2018.3.3	2018.8.31	10 years	Original acquisition
692	Trina Energy Storage ZL201820295199.9	A high-voltage battery system Dynamic expansion equalization circuit	Utility model	2018.3.3	2018.9.18	10 years	Original acquisition
693	Trina Energy Storage ZL201820295198.4	A power source drive protect the circuit	Utility model	2018.3.3	2018.10.12	10 years	Original acquisition
694	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720303791.4	An angle adjustable sun Can support the frame	Utility model	2017.3.27	2018.5.15	10 years	Original acquisition
695	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720304588.9	Tool-free solar panel Support components	Utility model	2017.3.27	2017.12.19	10 years	Original acquisition
696	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720303621.6	Solar panel cable connection Connector	Utility model	2017.3.27	2017.12.19	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
697	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720304346.X		Waterproof line without rubber parts Cable connector	Utility model	2017.3.27	2017.12.19	10 years	Original acquisition	
698	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720304347.4		A welding-free bus bar connection Connector	Utility model	2017.3.27	2017.12.19	10 years	Original acquisition	
699	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720304587.4		An automatic cutting machine laying Correction device	Utility model	2017.3.27	2017.12.12	10 years	Original acquisition	
700	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720303793.3		Anti-aging cable joint	Utility model	2017.3.27	2017.12.12	10 years	Original acquisition	
701	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720561850.8		A four-bar and five-bar integrated type Welding belt guide wheel	Utility model	2017.5.19	2018.5.15	10 years	Original acquisition	
702	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720562579.X		A photovoltaic module test assistant Helper	Utility model	2017.5.19	2018.4.10	10 years	Original acquisition	
703	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720562580.2		Right-angle welding of a bus bar Machine flux spraying device	Utility model	2017.5.19	2018.2.23	10 years	Original acquisition	
704	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720561846.1		Solar component welding unit	Utility model	2017.5.19	2017.12.19	10 years	Original acquisition	
705	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720563160.6		Solar component support Inner frame	Utility model	2017.5.19	2017.12.12	10 years	Original acquisition	
706	Changzhou You Ze Hezhong Optoelectronics Co., Ltd. ZL201720304348.9		A utility model of solar component support		2017.11.22	2018.5.11	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
	Hezhong Optoelectronics Limited company		Box connector						
707	Issuer	ZL201820859582.2	A photovoltaic module and inverter Smart photovoltaic data acquisition system	Utility model	2018.6.4	2019.3.26	10 years	Original acquisition	
708	Issuer, day Technology	ZL201821120357.3	A kind of photovoltaic intelligent connection Wire box environmental stress test Device	Utility model	2018.7.13	2019.2.22	10 years	Original acquisition	
709	Issuer	ZL201821212475.7	A universal photovoltaic module Junction Box	Utility model	2018.7.27	2019.2.1	10 years	Original acquisition	
710	Issuer	ZL201821421950.1	Solar shading for automobile Panels, sunshades and skylights system	Utility model	2018.8.31	2019.3.1	10 years	Original acquisition	
711	Issuer	ZL201821430163.3	A half-cell photovoltaic Component	Utility model	2018.8.31	2019.3.5	10 years	Original acquisition	
712	Yancheng TRW	ZL201820425690.9	A kind of multi-pipe heat dissipation high Panel Solar Cell Thin Group Pieces	Utility model	2018.3.28	2019.1.15	10 years	Original acquisition	
713	Yancheng TRW	ZL201820425394.9	An efficient heat dissipation plate too Solar battery thin components	Utility model	2018.3.28	2019.1.15	10 years	Original acquisition	
714	Yancheng TRW	ZL201820451129.8	A reflective heat dissipation high-efficiency flat Panel Solar Cell Thin Group Pieces	Utility model	2018.3.28	2019.1.15	10 years	Original acquisition	
715	Yancheng TRW	ZL201821226200.9	A way to reduce diffusion and compensate nitrogen Exhaust pipe of diffusion furnace Device	Utility model	2018.8.1	2019.2.15	10 years	Original acquisition	
716	Yancheng TRW	ZL201821227615.8	Polysilicon wafer before and outside etching Visual defect detection system	Utility model	2018.8.1	2019.1.18	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
717	Trina Energy Management	ZL201820501734.1	Solar air source dual source heat Pump unit	Utility model	2018.4.10	2019.1.4	10 years	Original acquisition	
718	Trina Energy Tube	ZL201820500892.5	Copper pipe drilling for heat pump unit Device	Utility model	2018.5.22	2019.3.1	10 years	Original acquisition	
719	Trina Energy Tube	ZL201820958715.1	Household waste heat recovery type Air energy heat pump water heater	Utility model	2018.6.21	2019.1.8	10 years	Original acquisition	
720	Issuer	ZL201130177011.4	Photovoltaic module junction box	Exterior design	2011.6.17	2011.12.7	10 years	Original acquisition	
721	Issuer	ZL201130208489.9	Solar module aluminum frame (two)	Exterior design	2011.7.4	2011.12.21	10 years	Original acquisition	
722	Issuer	ZL201130208488.4	Solar module aluminum frame (One)	Exterior design	2011.7.4	2011.12.14	10 years	Original acquisition	
723	Issuer, day Technology	ZL201130250176.X	Photovoltaic module corner protection	Exterior design	2011.7.30	2012.3.14	10 years	Original acquisition	
724	Issuer	ZL201230504856.4	Solar cell (1)	Exterior design	2012.10.22	2013.8.14	10 years	Original acquisition	
725	Issuer	ZL201230504576.3	Solar cell (two)	Exterior design	2012.10.22	2013.9.25	10 years	Original acquisition	
726	Issuer	ZL201330424326.3	Household photovoltaic off-grid system (2.5kwh)	Exterior design	2013.9.3	2014.2.12	10 years	Original acquisition	
727	Issuer	ZL201330424443.X	Outdoor photovoltaic off-grid system (2.5kwh)	Exterior design	2013.9.3	2014.2.12	10 years	Original acquisition	

728	Issuer	ZL201330557829.8	Mounting rails for photovoltaic modules	Exterior design	2013.11.19	2014.4.23	10 years	Original acquisition
729	Issuer	ZL201530181422.9	Main grid electrode on the front surface of the cell	Structure design	2015.6.5	2015.11.18	10 years	Original acquisition
730	Issuer	ZL201630019553.1	Solar cell module connection Line box (Tianhe second generation)	Exterior design	2016.1.20	2016.6.29	10 years	Original acquisition
731	Issuer	ZL201830339397.6	Photovoltaic inverter	Exterior design	2018.6.28	2018.11.9	10 years	Original acquisition
732	Trina Energy Storage	ZL201730022323.5	Household photovoltaic energy storage device	Exterior design	2017.1.20	2017.10.24	10 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
733	Issuer	ZL201830554732.4	Low-speed intelligent unmanned helicopter	Exterior design	2018.9.30	2019.2.1	10 years	Original acquisition	
734	Tianhe Limited	ZL201611117510.2	Selective polysilicon film	Structure design	2016.12.7	2019.4.5	20 years	Original acquisition	
735	North China Power University, issuing people	ZL201610482833.5	Passivation contact structure and its preparation method	Invention	2016.6.27	2018.10.16	20 years	Inherited	
736	Issuer	ZL201821119133.0	A highly stable mixed vitamin calcium Titanium ore materials and applications	Invention	2016.6.27	2018.10.16	20 years	Inherited	
737	Yancheng Trina, Issuer	ZL201821152603.3	An anti-breaking grid photovoltaic cell Wafers and photovoltaic modules	Utility model	2018.7.13	2019.4.26	10 years	Original acquisition	
738	Yancheng Trina, Issuer	ZL201821152603.3	Used for packaging and transporting photovoltaic panels	Utility model	2018.7.19	2019.4.26	10 years	Original acquisition	
739	Issuer, day Technology	ZL201821430276.3	Shipped in recyclable packaging Transmission structure assembly	Utility model	2018.8.31	2019.5.24	10 years	Original acquisition	
740	Issuer	ZL201821620552.2	One for photovoltaic battery pack Reflective film perforation tooling	Utility model	2018.9.30	2019.5.24	10 years	Original acquisition	
741	Issuer	ZL201821620348.0	Sea water salt making system	Utility model	2018.9.30	2019.5.24	10 years	Original acquisition	
742	Issuer	ZL201821715669.9	A kind of large shed type sea water system Salt system	Utility model	2018.9.30	2019.5.24	10 years	Original acquisition	
743	Issuer	ZL201821715669.9	A kind of inverter power semiconductor Body device pin bending device	Utility model	2018.10.22	2019.5.24	10 years	Original acquisition	
744	Issuer	ZL201822274638.0	An intelligent robot chassis Control System	Utility model	2018.12.31	2019.6.28	10 years	Original acquisition	
745	Yancheng TRW	ZL201821227661.8	A jet-printing screen printing equipment	Utility model	2018.8.1	2019.4.23	10 years	Original acquisition	
746	Yancheng TRW	ZL201821226276.1	Solar cell screen Printing machine	Utility model	2018.8.1	2019.4.23	10 years	Original acquisition	
747	Yancheng TRW	ZL201821245161.7	Photovoltaic component bus bar Bending tooling	Utility model	2018.8.3	2019.4.2	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
746	Yancheng TRW	ZL201821227662.2	A powerful purge type PECVD process chamber	Utility model	2018.8.1	2019.5.10	10 years	Original acquisition	
747	Yancheng TRW	ZL201821245074.1	Solar cell assembly Edge detection tooling	Utility model	2018.8.3	2019.4.30	10 years	Original acquisition	
748	Yancheng TRW	ZL201821244851.0	Glue injection device for junction box	Utility model	2018.8.3	2019.5.24	10 years	Original acquisition	

749	Jiangsu Trina Qingte Electric Limited company	ZL201620023752.4	A single with phase selection function Phase series regulator compensator	Utility model	2016.1.11	2016.8.31	10 years	Inherited
750	Jiangsu Trina Qingte Electric Limited company	ZL201620218246.0	A low-voltage distribution transformer Load balancing device	Utility model	2016.3.21	2016.9.7	10 years	Inherited
751	Jiangsu Trina Qingte Electric Limited company	ZL201821611980.9	A large-capacity battery for energy storage Power converter	Utility model	2018.9.30	2019.4.5	10 years	Original acquisition
752	Issuer	ZL201830687680.8	Special inspection robot	Exterior design	2018.11.30	2019.4.5	10 years	Original acquisition
753	Issuer	ZL201830687689.9	Intelligent sanitation robot	Exterior design	2018.11.30	2019.4.5	10 years	Original acquisition
754	Issuer	ZL201830775160.2	electric car	Exterior design	2018.12.31	2019.5.3	10 years	Original acquisition
755	Issuer	ZL201822274515.7	Electric power inspection robot Electrical control system	Utility model	2018.12.31	2019.7.23	10 years	Original acquisition
756	Co-creation testing	ZL201821038735.3	A kind of photovoltaic module dust inspection Measuring device	Utility model	2018.7.3	2019.7.23	10 years	Original acquisition
757	Issuer, cloud South Metallurgical New Energy shares Limited company, Kunming Qiqi	ZL201610933314.6	Inclined roof waterproof photovoltaic Component mounting device	invention	2016.11.1	2019.9.13	20 years	Original acquisition

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
758	Technology is limited Liability company Science in China Dean Changchunying Chemical Research Research Institute, Distribution people	ZL201611105393.8	Phenanthrocarbazole compounds, Its preparation method and application Perovskite solar cell	invention	2016.12.5	2019.8.9	20 years	Original acquisition	
759	Issuer	ZL201821715650.4	A floating photovoltaic power Station, inverter system and pontoon	Utility model	2018.10.22	2019.8.30	10 years	Original acquisition	
760	Issuer	ZL201920293041.2	A new type of photovoltaic module Install components	Utility model	2019.3.7	2019.9.13	10 years	Original acquisition	
761	Nankai University Issuer	ZL201711453544.3	A perovskite/silicon heterogeneity Sealing of junction laminated solar How to install	invention	2017.12.28	2019.11.26	20 years	Inherited	
762	Issuer	ZL201821707385.5	A new type of microgrid control System device	Utility model	2018.10.22	2019.11.8	10 years	Original acquisition	
763	Issuer	ZL201821997496.4	A new type of AC-DC thermocouple Hybrid microgrid main circuit	Utility model	2018.11.30	2019.10.29	10 years	Original acquisition	
764	Issuer	ZL201822010148.X	A scan with IV curve Intelligent photovoltaic group Parts and power generation system	Utility model	2018.11.30	2019.10.11	10 years	Original acquisition	
765	Issuer	ZL201822010187.X	An adjustable for mountain Section photovoltaic bracket	Utility model	2018.11.30	2019.10.11	10 years	Original acquisition	
766	Issuer	ZL201822264597.7	A new type of AC-DC thermocouple Hybrid microgrid control layer Control System	Utility model	2018.12.31	2019.11.8	10 years	Original acquisition	
767	Issuer	ZL201822274669.6	A utility model of unmanned sanitation robot		2018.12.31	2019.11.29	10 years	Original acquisition	

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Serial number	Right holder	Patent No	name	Types of	Application date	Announcement date	Right period	How to get	Other
Electrical control system									
768	Issuer	ZL201920728299.0	A utility model of scanning electron microscope sample stage	Utility model	2019.5.12	2019.11.19	10 years	Original acquisition	
769	Issuer	ZL201920815408.2	A photovoltaic cell assembly	Utility model	2019.5.31	2019.11.19	10 years	Original acquisition	
770	Issuer	ZL201920885749.7	A new type of structure photovoltaic Pool component	Utility model	2019.6.13	2019.11.29	10 years	Original acquisition	
771	Issuer	ZL201920886163.2	A new type of photovoltaic module	Utility model	2019.6.13	2019.11.29	10 years	Original acquisition	
772	Issuer	ZL201822264582.0	A low-pressure diffusion furnace	Utility model	2018.12.31	2019.12.27	10 years	Original acquisition	
773	Trina Energy Storage	ZL201920459339.6	Automatic expansion for lithium battery Capacity balance battery management system	Utility model	2019.4.8	2019.11.29	10 years	Original acquisition	
774	Trina Energy Storage	ZL201920459338.1	An easily disassembled energy storage system Harness protection cover	Utility model	2019.4.8	2019.11.29	10 years	Original acquisition	
775	Trina Energy Storage	ZL201920658208.0	DCDC-based photovoltaic direct Hanging self-powered container energy storage system	Utility model	2019.5.8	2019.12.3	10 years	Original acquisition	

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Appendix 4: Subsidiaries and joint-stock companies cancelled or transferred by the issuer during the reporting period

Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
1	Xiangshui Hengneng Solar Power Co., Ltd.	May 2018	transfer	
2	Xiangshui Yongneng Solar Power Co., Ltd.	May 2018	transfer	
3	Yunnan Metallurgical New Energy Co., Ltd.	June 2018	transfer	
4	Huaian Huangma Tianhe Solar Power Co., Ltd.	May 2018	transfer	
5	Yancheng Qianneng Solar Power Co., Ltd.	April 2018	transfer	
6	Qidong Heyirui New Energy Technology Co., Ltd.	July 2017	Logout	
7	Wuhan Taiyin Photovoltaic Power Technology Co., Ltd.	November 2017	Logout	
8	Linqu County Puzhao Photovoltaic Power Generation Co., Ltd.	May 2018	Logout	
9	Binzhou Heli Photovoltaic Energy Co., Ltd.	April 2018	Logout	
10	Qihe Heyirui Power Technology Co., Ltd.	April 2018	Logout	

11	Shanghai Xuanhe Photovoltaic Power Co., Ltd.	October 2018	transfer
12	Shandong Tianrui Power Sales Co., Ltd.	September 2018	Logout
13	Jiansheng Modern Agriculture (Changzhou) Co., Ltd.	May 2018	transfer
14	Changzhou Heyuan Photovoltaic Power Co., Ltd.	May 2018	transfer
15	Shanghai Zhijie New Energy Technology Co., Ltd.	August 2018	transfer
16	Ji'an Hongxu Photovoltaic Power Co., Ltd.	December 2017	Logout
17	Qingdao Hengtianxin Photovoltaic Power Co., Ltd.	April 2018	Logout

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
18	Anhui Tianqi Electricity Sales Co., Ltd.	July 2018	Logout	
19	Zhuji Yourui Power Technology Co., Ltd.	March 2018	Logout	
20	Nantong Jiansheng Modern Agriculture Co., Ltd.	July 2017	Logout	
twenty one	Ningyang County Shuntian Photovoltaic Power Co., Ltd.	May 2018	Logout	
twenty two	Waiwu Heli Photovoltaic Power Co., Ltd.	April 2018	Logout	
twenty three	Huanggang Yangyuan Photovoltaic Power Co., Ltd.	June 2017	transfer	
twenty four	Hangzhou Guangshun Power Technology Co., Ltd.	December 2018	transfer	
25	Linhai Tianhui Photovoltaic Power Co., Ltd.	January 2017	Logout	
26	Bozhou Tengtian Photovoltaic Power Generation Co., Ltd.	September 2017	Logout	
27	Pingyi Tianlang Photovoltaic Power Co., Ltd.	November 2017	Logout	
28	Hefei Yuanjing Photovoltaic Power Co., Ltd.	May 2018	transfer	
29	Rongcheng Yuancheng Solar Power Co., Ltd.	May 2018	transfer	
30	Huanggang Yuanjing Solar Power Development Co., Ltd.	May 2018	transfer	
31	Jiangsu Tianhe Green Power Investment Co., Ltd.	November 2018	Logout	
32	Suqian Yaotian Photovoltaic Power Co., Ltd.	November 2018	Logout	
33	Rongcheng Yuanjing Photovoltaic Power Co., Ltd.	September 2018	Logout	
34	Hefei Tianhe Power Sales Co., Ltd.	October 2018	Logout	
35	Rushan Tianneng Photovoltaic Power Co., Ltd.	May 2018	Logout	
36	Qingdao Yuanjing Solar Power Co., Ltd.	August 2018	Logout	

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
37	Huaian Zhongchuang Energy Development Co., Ltd.	May 2018	transfer	
38	Xiangyang Yaoyang New Energy Development Co., Ltd.	December 2017	Logout	

39	Taihe Tianchuang Solar Power Co., Ltd.	August 2018	Logout
40	Xinyu Tianchuang Solar Power Co., Ltd.	August 2018	Logout
41	Zhangjiakou Hechuang Solar Power Co., Ltd.	April 2018	Logout
42	Huaian Yiheng Solar Power Co., Ltd.	May 2018	transfer
43	Fushan Tianchuang Solar Power Co., Ltd.	July 2017	Logout
44	Yanqi County Huaguang Power Generation Co., Ltd.	May 2018	transfer
45	Ordos Tianhui Energy Co., Ltd.	October 2018	Logout
46	Beipiao Shengyang New Energy Development Co., Ltd.	March 2018	Logout
47	Huaian Tianfeng Solar Power Co., Ltd.	May 2018	transfer
48	Delingha Funeng Photovoltaic Power Co., Ltd.	December 2017	Logout
49	Shuozhou Tianlu New Energy Development Co., Ltd.	May 2018	Logout
50	Baoji Hechuang Photovoltaic Power Co., Ltd.	July 2018	Logout
51	Xuyi Tianyao New Energy Development Co., Ltd.	September 2018	Logout
52	Yulin Tianchuang Photovoltaic Power Co., Ltd.	November 2018	Logout
53	Turpan Huaguang Power Generation Co., Ltd.	May 2018	transfer
54	Turpan Zhongfuwang Photovoltaic Power Co., Ltd.	May 2018	transfer
55	Hami Honghua Solar Technology Co., Ltd.	May 2018	transfer

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
56	Changzhou Tianru New Energy Development Co., Ltd.	May 2018	transfer	
57	Shanshan Anpeiqi Co., Ltd.	May 2018	transfer	
58	Ganzhou Huadian New Energy Co., Ltd.	May 2018	transfer	
59	Fengtai Hongneng New Energy Co., Ltd.	January 2018	Logout	
60	Dongfang Donghe Solar Power Co., Ltd.	November 2018	Logout	
61	Guyuan County Guanghui New Energy Power Generation Co., Ltd.	May 2018	transfer	
62	Baoting Baohe Solar Power Co., Ltd.	November 2018	Logout	
63	Qinzhou Qingyuan Photovoltaic Power System Co., Ltd.	January 2018	transfer	
64	China Power Electric (Ulanhot) Photovoltaic Power Generation Co., Ltd.	May 2018	transfer	
65	Sheyang Tian Chuangxin Energy Co., Ltd.	December 2018	Logout	
66	Yancheng Yaoneng Solar Power Co., Ltd.	August 2018	Logout	
67	Angren County Tianhui Photovoltaic Power Co., Ltd.	May 2018	Logout	
68	Gucheng Tianhui Photovoltaic Power Co., Ltd.	November 2018	Logout	
69	Youyu County Huaguang Power Generation Co., Ltd.	May 2018	transfer	
70	Changling Tianhui New Energy Development Co., Ltd.	January 2018	Logout	
71	Anda Tiantaili New Energy Co., Ltd.	November 2018	Logout	
72	Changzhou Yongtian New Material Technology Co., Ltd.	December 2018	transfer	
73	Changzhou Neng Chuangxin Energy Development Co., Ltd.	May 2018	transfer	
74	Jiaxiang Xinhe Photovoltaic Power Co., Ltd.	November 2018	transfer	

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
75	Chenzhou Helisheng New Energy Co., Ltd.	June 2018	Logout	
76	Wuwei Yineng Solar Power Co., Ltd.	May 2018	transfer	
77	Fuzhou Hongxu Photovoltaic Power Co., Ltd.	June 2018	Logout	
78	Wushi Huaguang Power Generation Co., Ltd.	May 2018	transfer	
79	Hanchuan Yuanjing Photovoltaic Power Co., Ltd.	December 2018	Logout	
80	Changzhou Hewei New Material Technology Co., Ltd.	March 2019	transfer	
81	Lanzhou Tianhe Energy Management Co., Ltd.	January 2019	Logout	
82	Tuokexun County Trina Solar Energy Co., Ltd.	May 2019	transfer	
83	Quzhou Jianhe Photovoltaic Power Co., Ltd.	March 2019	Logout	
84	Suqian Sky Blue Photovoltaic Power Co., Ltd.	January 2019	transfer	
85	Ordos Tianyu Energy Co., Ltd.	May 2019	Logout	
86	Mulei Tianhui Photovoltaic Power Generation Co., Ltd.	April 2019	transfer	
87	Jiangsu Tianchang New Energy Development Co., Ltd.	April 2019	transfer	
88	Heyuan Tianze Electric Power Co., Ltd.	May 2019	Logout	
89	Yancheng Tianqi Solar Power Co., Ltd.	June 2019	transfer	
90	Hunan Trina Xuhui New Energy Technology Development Co., Ltd.	March 2019	Logout	
91	Langxi Huake Photovoltaic Power Co., Ltd.	May 2019	transfer	
92	Gengma Tiansheng Photovoltaic Power Co., Ltd.	March 2019	Logout	
93	Dongying Tianlu New Energy Co., Ltd.	February 2019	Logout	

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
94	Zhuoni County Tiantai New Energy Co., Ltd.	February 2019	Logout	
95	Tongliao Tianchang New Energy Co., Ltd.	January 2019	Logout	
96	Wuhu Tianwu Photovoltaic Power Co., Ltd.	June 2019	transfer	
97	Jilin Tianqing Solar Power Co., Ltd.	May 2019	Logout	
98	Tianhe New Energy Investment Co., Ltd.	August 2019	Logout	
99	Guangzhou Guangneng Photovoltaic Power Technology Co., Ltd.	June 2019	Logout	
100	Guangdong Heze Power Sales Co., Ltd.	June 2019	Logout	
101	Zhangjiakou Hetian New Energy Technology Co., Ltd.	June 2019	Logout	
102	Trina Solar (Hong Kong) Enterprises Limited	June 2018	Logout	
103	Trina Solar (Malaysia) SDN. BHD	2018 year	Logout	
104	Lightleasing PTY LTD	June 2017	transfer	

105	Trina Solar Japan 3 GK	January 2018	Logout
106	Trina Solar Japan 4 GK	January 2018	Logout
107	Sirius Solar Japan 10 GK	December 2017	transfer
108	Sirius Solar Japan 11 GK	June 2017	transfer
109	Sirius Solar Japan 12 GK	March 2018	transfer
110	Sirius Solar Japan 13 GK	March 2018	transfer
111	Sirius Solar Japan 16 GK	December 2017	transfer
112	Sirius Solar Japan 18 GK	June 2018	transfer

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
113	Sirius Solar Japan 21 GK	November 2017	transfer	
114	Sirius Solar Japan 22 GK	March 2018	transfer	
115	Sirius Solar Japan 24 GK	November 2017	transfer	
116	Solar Field 2 GK	March 2017	transfer	
117	Solar Field 3 GK	March 2017	transfer	
118	Woodlake Limited	March 2018	Logout	
119	Univergy 49 GK	June 2017	transfer	
120	J&A Energy LLC.	December 2017	transfer	
121	De Soto Limited	June 2018	Logout	
122	Solar Field 10 GK	December 2017	transfer	
123	Solar Field 4 GK	December 2017	transfer	
124	Okei Photovoltaic Generation Plant GK	November 2017	transfer	
125	LOHAS ECE BROWN KK	December 2017	transfer	
126	Smith Hall Solar Farm Limited	January 2017	transfer	
127	Cherry Tree Solar Farm Limited	January 2017	transfer	
128	Pollington Solar Limited	September 2017	transfer	
129	Shortheath Solar Park Limited	September 2017	transfer	
130	Kellingley Solar Farm Limited	July 2017	transfer	
131	Wrotham Heath Solar Farm Limited	March 2017	transfer	

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
	Trina Solar (Puerto Rico) Development,			

132	LLC	December 2018	Logout
133	Valencia Solar Farm, LLC	December 2018	Logout
134	El Coto Solar Farm, LLC	December 2018	Logout
135	Machuchal Solar Farm, LLC	December 2018	Logout
136	San Sebastian Solar Farm, LLC	December 2018	Logout
137	Desford Lane Solar Farm Limited	January 2017	transfer
138	TRINA 能源 STORAGE SOLUTIONS (AUSTRALIA) PTY. LTD.	May 2019	Logout
139	Solar Field 1 GK	January 2019	transfer
140	Solar Field 9 GK	April 2019	transfer
141	Univergy 82 GK	January 2019	transfer
142	Sirius Solar Japan 14 GK	January 2019	transfer
143	Sirius Solar Japan 17 GK	January 2019	transfer
144	Sirius Solar Japan 19 GK	January 2019	transfer
145	Sirius Solar Japan 25 GK	January 2019	transfer
146	Sirius Solar Japan 26 GK	January 2019	transfer
147	Sirius Solar Japan 27 GK	January 2019	transfer
148	Sirius Solar Japan 28 GK	January 2019	transfer
149	Sirius Solar Japan 29 GK	January 2019	transfer

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
150	Sirius Solar Japan 32 GK	January 2019	transfer	
151	Sirius Solar Japan 34 GK	April 2019	transfer	
152	Sirius Solar Japan 36 GK	January 2019	transfer	
153	Sirius Solar Japan 37 GK	January 2019	transfer	
154	TAIYUNG SOLARENERGY PRIVATE LIMITED	January 2019	transfer	
155	TAIYUNG SOLAR PROJECTS PRIVATE LIMITED	January 2019	transfer	
156	Green Mega Solar GK	June 2019	transfer	
157	Sirius Solar Japan 30 GK	June 2019	transfer	
158	Sirius Solar Japan 38 GK	June 2019	transfer	
159	Sirius Solar Japan 33 GK	July 2019	transfer	
160	Megasolar 1408-L GK	September 2019	transfer	
161	Tingri County Tianhui New Energy Power Development Co., Ltd.	November 2019	Logout	
162	Baoying Yuanjing Photovoltaic Power Co., Ltd.	December 2019	Logout	
163	Hubei Tianyang Energy Technology Service Co., Ltd.	December 2019	Logout	
164	CleanEnergiesHispaniaKK	November 2019	Logout	
165	TrinaInashikiG.K	December 2019	Logout	
166	Trina Solar(Singapore) Pte. Ltd	December 2019	Logout	
167	Yancheng Yunshan Photovoltaic Power Co., Ltd.	September 2018	transfer	
168	Shuntai Financial Leasing Co., Ltd.	May 2018	transfer	

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Serial number	company name	time	Transfer or cancellation	Original shareholding ratio of the is
169	Changzhou Shichuang Silicon Technology Co., Ltd.	September 2017	transfer	
170	GR Coigüe SpA	December 2017	transfer	
171	Tenguyama Solar Park GK	September 2017	transfer	
172	Mitre Calera Solar, S.de RLde CV	March 2019	transfer	
173	Mulei County Zhiguang Technology Service Co., Ltd.	April 2019	transfer	
174	Projekt 27 GmbH & Co. KG	June 2019	transfer	

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Attachment 5: The grid connection time, sales time and operation cycle of each power station sold by the issuer during

Project abbreviation	Project company name	address	On-grid time	Sale time	operation
Cherry Tree	Cherry Tree Solar Farm Limited	United Kingdom	January 2017	January 2017	0 monti
Desford Lane	Desford Lane Solar Farm Limited	United Kingdom	January 2017	January 2017	0 monti
Smith Hall	Smith Hall Solar Farm Limited	United Kingdom	January 2017	January 2017	0 monti
Wrotham	Wrotham Heath Solar Farm Limited	United Kingdom	January 2017	March 2017	2 monti
Kellingley	Kellingley Solar Farm Limited	United Kingdom	April 2017	July 2017	3 monti
Pollington	Pollington Solar Limited	United Kingdom	January 2017	September 2017	8 monti
Shortheath	Shortheath Solar Park Limited	United Kingdom	January 2017	September 2017	8 monti

Huanggang Hongdi Heavy Industry 10MW rooftop distributed power station project Item	Huanggang Yangyuan Photovoltaic Power Co., Ltd.	China	December 2016	June 2017	6 months
Jiangsu Yancheng Sheyang 20MW Ground Centralized Power Station Project Item	Yancheng Qianneng Solar Power Co., Ltd.	China	June 2017	April 2018	10 months
Yancheng 100MW Ground Centralized Power Station Project	Xiangshui Hengneng Solar Power Co., Ltd.	China	December 2014	May 2018	41 months
Yancheng Xiangshui 20MW Ground Centralized Power Station Project	Xiangshui Hengneng Solar Power Co., Ltd.	China	December 2014	May 2018	41 months
Huaian Yuguang Complementary 10MW Ground Distributed Power Station Project Item	Huaian Zhongchuang Energy Development Co., Ltd.	China	December 2015	May 2018	29 months
Jiangsu Huaian Huangma 6MW Ground Centralized Power Station Project the company	Huaian Huangma Tianhe Solar Power Co., Ltd.	China	December 2015	May 2018	29 months
10MW ground-level distribution of fishing and light complementary in Jialing Township, Huaian, Jiangsu Bulk Power Plant Project (Phase I)	Huaian Tianfeng Solar Power Co., Ltd.	China	March 2017; April 2018	May 2018	1 month; 14 months

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Trina Solar Co., Ltd.					Prospect
Project abbreviation	Project company name	address	On-grid time	Sale time	operation
Huaian Yanhe 8MW Ground Centralized Power Station Project	Huaian Yiheng Solar Power Co., Ltd.	China	June 2016	May 2018	23 months
Special Change Yanqi Phase I 30MW Ground Centralized Power Station Project Item	Yanqi County Huaguang Power Generation Co., Ltd.	China	August 2015	May 2018	33 months
Central Prosperity 20MW Ground-based Centralized Electricity Project Station project	Turpan Xintan Xinji Photovoltaic Power Co., Ltd. Division	China	January 2016	May 2018	28 months
Xinjiang Turpan Anpeiqi 20MW ground centralized electricity Station project	Shanshan Anpeiqi Co., Ltd.	China	June 2016	May 2018	23 months
Hefei Jingshang Commercial City 30MW rooftop distributed power station project	Hefei Yuanjing Photovoltaic Power Co., Ltd.	China	December 2015	May 2018	29 months
Hebei Guyuan Phase I 20MW Ground Centralized Power Station Project Item	Guanghui New Energy Power Generation Co., Ltd. Division	China	December 2015	May 2018	29 months
Xinjiang TBEA Wushi Phase I and Phase II 40MW Ground Power Station Project Item	Wushi Huaguang Power Generation Co., Ltd.	China	June 2015, January 2017	May 2018	35 months, 16 months
Turpan Xinte 40MW Ground Centralized Power Station Project	Turpan Huaguang Power Generation Co., Ltd.	China	May 2016	May 2018	24 months
30MW Huhe Racecourse, Ulanhot City, Xing'an League, Xinjiang (Ulanhot) Photovoltaic Power Generation Ground power station project	Ulanhot Electric Co., Ltd.	China	June 2016	May 2018	23 months
Changzhou Menghe Agricultural Greenhouse 5MW Ground Distributed Power Station project	Changzhou Heyuan Photovoltaic Power Co., Ltd.	China	June 2016	May 2018	23 months
Special Change Shanxi Youyu 50MW Ground Centralized Power Station Project Item	Youyu County Huaguang Power Generation Co., Ltd.	China	June 2016	May 2018	23 months
Xinjiang Hami 13th Division Red Star Fourth Field Phase II 20MW land Noodle centralized power station project	Hami Honghua Solar Technology Co., Ltd.	China	January 2016	May 2018	28 months
Huanggang Yuanjing Modern Dairy 6MW rooftop distributed power station project	Huanggang Yuanjing Solar Power Development Co., Ltd. the company	China	December 2015	May 2018	29 months
5.8MW Room of Standard Factory in Ganzhou Economic and Technological Development Zone Rooftop distributed power station project	Ganzhou Huadian New Energy Co., Ltd.	China	May 2016	May 2018	24 months

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Trina Solar Co., Ltd.					Prospect
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Project abbreviation	Project company name	address	On-grid time	Sale time	operation
Shandong Rongcheng 11.37MW rooftop distributed power station project (Phase 1)	Rongcheng Yancheng Solar Power Co., Ltd. Division	China	December 2015	May 2018	29 mont
Wuwei Phase II 100MW Ground Centralized Power Station Project	Wuwei Yining Solar Power Co., Ltd.	China	June 2017	May 2018	11 mont
Yunnan Jianshui 300MW Ground Centralized Power Station Project	Yunnan Metallurgical New Energy Co., Ltd.	China	June 2015-March 2018	June 2018	3 months-36
Shanghai Jinshan-Dongpei, Zhejiang East 6.55MW distributed power station project	Shanghai Zhijie New Energy Technology Co., Ltd.	China	April 2015	August 2018	40 mont
Shanghai NTN 10.02MW distributed power station project	Shanghai Xuanhe Photovoltaic Power Co., Ltd.	China	September 2015	October 2018	37 mont
Zhejiang Yuhang 10.02MW rooftop distributed power station project (Phase 4)	Hangzhou Guangshun Power Technology Co., Ltd.	China	December 2015	December 2018	36 mont
30MW distributed power station in Suqian Economic and Technological Development Zone					
Project/Suqian Shangshang Packaging 14MW Distributed Power Station Item	Shangshang Photovoltaic Power Co., Ltd.	China	December 2015, December 2016	January 2019	37 months, 25 mont
Xinjiang Tuokexun 90MW Ground Centralized Power Station Project/ Xinjiang Tuokexun Phase II 50MW Ground Centralized Power Station project	Toksun County Trina Solar Co., Ltd. Division	China	December 2014, March 2016	May 2019	53 months, 38 months
Yancheng Tianhe National Energy 2MW Distributed Photovoltaic Power Project	Yancheng Tianqi Solar Power Co., Ltd.	China	September 2017	June 2019	21 mont

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Appendix 6: The amount, maturity, interest rate and interest expenses of bank loans and contractual commitments in the

						Unit: t
Borrowing bank	Amount	Borrowing start date	Loan due date	Interest rate range	2019 interest	
Huishang Bank	27,890.83	2019/10/16	2020/3/11	4.50%		
Agricultural Bank of China Changzhou Xinbei Branch	77,862.23	2019/4/24	2020/6/12	3.38%-4.57%		
Changzhou Xinbei Sub-branch, Jiangsu Jiangnan Rural Commercial Bank Co., Ltd.	100.00	2015/10/30	2021/9/30	4.90%		
Changzhou Industrial Investment Co., Ltd.	1,500.00	2013/12/26	2022/12/30	0.00%		
Agricultural Bank of China Co., Ltd. Changzhou Xinbei Branch	10,070.03	2015/10/26	2021/9/30	4.90%		
China Development Bank Xinjiang Branch	36,200.00	2013/12/26	2036/4/20	5.39%		1,
Industrial Bank Changzhou Branch	107,000.00	2019/3/15	2020/11/6	5.22%		2,
China Minsheng Bank Shanghai Branch	30,000.00	2019/4/29	2020/6/27	5.22%		1,
Bank of Suzhou	3,000.00	2019/7/26	2020/7/25	5.00%		
Bank of China Changzhou Xinbei Sub-branch	30,000.00	2019/8/6	2020/6/19	4.70%-4.80%		
Bank of Communications Changzhou Branch	44,799.00	2019/8/8	2020/4/23	4.60%-5.00%		
Brazilian Bank	10,464.30	2019/8/29	2020/2/11	3.40%		
China Development Bank Jiangsu Branch	97,666.80	2019/10/11	2020/10/23	3.05%-3.06%		
China Development Bank Jiangsu Branch	83,714.40	2019/11/22	2020/12/29	3.01%-3.04%		
Industrial and Commercial Bank of China Xiantao City Branch	9,500.00	2019/1/31	2020/9/26	5.00%		

Huaneng Tiancheng Financial Leasing Co., Ltd.	14,190.00	2019/3/8	2021/3/10	6.00%
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Huaneng Tiancheng Financial Leasing Co., Ltd.	40,193.00	2019/9/24	2031/9/24	6.18%	
China Development Bank Jiangsu Branch	8,440.74	2014/3/26	2026/11/20	3.20%	
Huaneng Tiancheng Financial Leasing Co., Ltd.	15,000.00	2019/4/23	2031/5/9	6.00%	
Huaneng Tiancheng Financial Leasing Co., Ltd.	57,000.00	2019/5/15	2021/5/10	6.00%	2,
Bank of Communications Tokyo Branch	11,723.25	2019/11/21	2020/10/17	0.90%	
Bank of Jiangsu Changzhou Branch	5,000.00	2019/12/24	2020/1/20	4.35%	
China Exim Bank	23,900.00	2019/9/12	2031/8/23	4.90%	
China Exim Bank	17,200.00	2019/12/20	2030/12/12	4.90%	
Huishang Bank & China Minsheng Bank Shanghai Branch	4,279.00	2016/9/28	2020/6/20	5.35%	
Huaneng Tiancheng Financial Leasing Co., Ltd.	80,000.15	2019/8/12	2031/12/10	4.42%	
WELLSFARGO	13,882.62	2019/7/10	2020/9/30	4.30%-4.99%	
Industrial and Commercial Bank of Vietnam	13,703.82	2019/9/30	2020/1/30	3.90%	
Jiangsu Dafeng Rural Commercial Bank	4,940.00	2016/8/25	2021/7/21	5.46%	
Bankinter	1,750.62	2019/7/12	2020/7/12	4.00%	
BBVA	679.18	2019/11/14	2020/11/14	1.25%	
CajaLaboral	395.21	2019/10/3	2020/10/2	1.25%	
DeudasConfirmingNeMn	1,047.84	2019/11/14	2020/11/14	3.50%	
total	883,093.03	-	-	-	

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Attachment 7: The company's important government subsidies in each period of the reporting period, including funding

2017 year							
Serial number	project name	Subsidy amount	Law or policy basis / approval document	Funding channel	Subsidy ownership	Subsidy purpose	With Bt
1	Foreign economic and trade support funds	3,200,000.00	Internal documents of relevant government departments 9	Changzhou Xinbei District Dragon Hutang Sub-district Office	Trina Solar	2016 foreign economic and trade st; Growth policy funding	i
2	Supplementary Funding for Jiangsu Provincial Industrial Enterprise Technology gold	1,200,000.00	"Opinions on reducing the cost of real economy enterprises" "Jiangsu Province Industrial Enterprise Technology Reform Comprehensive Award Supplement Golden Triangle Comprehensive Rules (SuChigui [2016] No. 11) "Xuhui District, Changzhou City Organize the application of 2017 Jiangsu Province Industrial Enterprise Technology The notice of rebuilding comprehensive awards and supplementary funds (Su Jingxin Comprehensive	Xuhui District, Changzhou City	Trina Solar	Provincial Industrial Enterprises in Comprehensive award for technology funds	

			[2017] No. 179)" "Measures for the Management of Special Funds for Foreign Economic and Trade Development (Financial Enterprises) [2014] No. 36)" "Jiangsu Provincial Special Business Development Project Fund Management Measures (Su Caigui [2014] No. 37)" "Customs Affairs Bureau Organized the 2017 business development special fund support project Notification of Project Application (Jiangsu Provincial Department of Finance)" "The CPC Changzhou Municipal Committee and the Changzhou Municipal People's Government Reform of the system and mechanism of personnel work, and comprehensively promote the "Dragon Implementation Opinions on Innovation and Entrepreneurship of the "City Talent Plan" (Regular Office Xinbei District, Changzhou City Trina Solar	Promote the steady growth of foreign Change transformation and upgrade Foreign investment in economic cooperation Work to promote modern fluidity Department construction, support the Good business environment
3	Business Development Fund-Trade Insurance Premium	9,155,100.00		
4	The first batch of talent plan subsidies	1,000,000.00		

9 The sponsor and the issuer’s lawyers conducted interviews with relevant government departments on the background and policy basis of the government subsidy;

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	Trina Solar Co., Ltd.				Prospectus
				Implementation measures for project application, determination and policy implementation (Revision) (Chang Talent Office [2016] No. 4)" "About "Dragon City Talent Program" 2016 Leading Talents Special support and cultivation support project list (2) through Know (Chang Talent Office [2016] No. 12)" "About Release 2017 Notice of Special Funds for Annual "Dragon City Talents Plan" (Changrenshefa [2017] No. 196) (Changcai Industry and Trade [2017] No. 44)" "Changzhou Foreign Economic and Trade Development Special Fund Management and Use Implementation Rules (Chang Zheng Ban Fa [2012] No. 54) (Changzhou Xinbei District Conference Organize the 2017 Changzhou Foreign Trade Development Special Fund Accounting Center Notice of Financial Reporting Work (Changshang Business [2017] No. 182)" Department of Science and Technology of Jiangsu Province-"Policy Guidance Program (National International Technology Cooperation-Key Countries and Districts District City of Changzhou City Cooperation Project)", Jiangsu Provincial Department of Science and Technology and Trina Solar Signed "Jiangsu Province Science and Technology Project Contract" "About the implementation of the "Trinity" development strategy to promote Measures for the management of special funds for the transformation and upgrading of industrial enterprises (often Jingxin Investment [2014] No. 220), Changcai Industry and Trade [2014] No. 50" "On the Further Improvement of "Three in One Development strategy to promote the transformation and upgrading of industrial enterprises Notice of the Fund Management Measures (Changjingxin Investment Xinbei District, Changzhou City Trina Solar [2015] No. 291)" "About the organization Political situation Implementation of the "Trinity" development strategy to promote industrial enterprises Notice of special funds for transformation and upgrading (Changjingxin Investment [2017] No. 3)" "About the release of 2016 implementation "Trinity" development strategy promotes the transformation of industrial enterprises Notice of special funds for type upgrade (Changjingxin Investment [2017] No. 215) (Chang Cai Industry and Trade [2017] No. 26)" The Department of Commerce of Jiangsu Province released the 2017-2019 Changzhou Xinbei District Conference An internationally well-known brand name to be cultivated and developed by Jiangsu Province Accounting Center Notice of Order (Su Business [2017] No. 394)" "Jiangsu Provincial Department of Finance, Jiangsu Provincial Department of Science and Technology Xinbei District, Changzhou City Trina Solar Notice of appropriation by year (Su Finance [2017] 55 Political situation	2017 Changzhou Foreign Trade Development special funds Combining new slurry and transfer Printing equipment Research on the efficiency of technology Grant subsidies In 2016, the "Three One" development strategy Promote the transformation of industrial enterprises Upgrade special funds 2017-2019 Jiangsu Province Focus on nurturing and developing International famous brand subsidy High performance and low cost N-type High efficiency silicon solar cell R&D and production of double glass
5	Special funds for business development	1,300,000.00			
6	Combining new slurry and transfer equipment to improve battery rotation Technical research and development of chemical efficiency	1,000,000.00			
7	Changzhou implements the "Trinity" development strategy to promote Special funds for transformation and upgrading of industrial enterprises	970,1000.00			
8	Key cultivation and development of Jiangsu Province from 2017 to 2019 Famous international brand	1,500,000.00			
9	Special fund project for the transformation of scientific and technological achievements into products	1,000,000.00			

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			number)"		Industrialization
10	2017 industrial and information transformation subsidies	170,000.00	"About the organization to declare the 2017 municipal industry and information transformation and upgrading of industrialization (Yanjiangxin Yancheng City Finance Bureau, Yancheng Trina Yancheng City Economic and Information Commission On the special funds for the transformation and upgrading of industry and informatization (salt Cai Gong Mao [2017] No. 40)"		Component workshop assembly line Manufacturing, welding machine up Automatic glue filling of wire box,
11	Government incentives for increased import and export	1,161,300.00	"Hefei Municipal People's Government on Promoting Import and Export Stability Several policy opinions on growth (Hezheng [2016] No. 36)" "Regarding the organization to declare the 2016 Hefei foreign trade promotion Government Treasury Payment Center Notice of Policy Projects		Support key enterprises to tap the p Increase efficiency
12	Smart device subsidies	1,000,000.00	"Transformation and Upgrading of Provincial Industry and Information Industry in Jiangsu Province Special Fund Management Measures (Su Caigui [2014] No. 38)" "The Provincial Economic and Information Technology Commission and the Provincial Department of Finance 2016 provincial industrial and information industry transformation and upgrading Political situation Notice of Special Fund Project (Su Jingxin Comprehensive [2016] No. 91)"		Solar cell module Level and automation transformation Item
13	Wujin Finance Bureau income tax refund subsidy	2,655,500.00	Management Committee of Wujin National High-tech Industrial Development Zone Meeting, Trina Solar (Singapore) Co., Ltd. and Yabang "Project Investment Agreement		Tax subsidy
14	2016 project support fund of Shanghai Zizhu Garden	4,850,000.00	"About Shanghai Zizhu High-tech Industrial Development Zone The third batch of projects approved in 2017 Approval (Zizhu Gaoxinguan [2017] No. 4)" "Shanghai Zizhu Use of special development funds for high-tech industrial development zones And Management Measures (Hu Yucai [2016] No. 146), "Shanghai Project Management of Management Committee of Zizhu High-tech Industrial Development Zone Management Measures (Trial) "About Shanghai Zizhu High-tech		"Shanghai R&D Center" item Project funding
15	Business Development Fund	1,455,800.00	The third batch of 2017 industrial development zone special funds Notice of approval of project review (Zizhu High-tech Management Office [2017] No. 70)" "Jiangsu Provincial Business Development Special Fund Management Office Law (Su Caigui [2014] No. 37), "Jiangsu Provincial Department of Commerce of Jiangsu Province on the 2015 Accounting Business Development Notice of Special Fund Project Application (Su Cai Industry and Trade)		Promote the steady growth of foreign investment and economic Work and promote modern circulation

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Prospect

			[2015] No. 39)"		Department construction, support the Good business environment
16	Implementation of the "Trinity" development strategy in 2016	2,149,000.00	"About the implementation of the "Trinity" development strategy to promote Measures for the management of special funds for the transformation and upgrading of industrial enterprises (often Jingxin Investment [2014] No. 220, Changcai Industry and Trade [2014] 50 No.)" "On the further improvement of the "Trinity" development Strategy to promote the transformation and upgrading of industrial enterprises special fund management Notice of Administrative Measures (Changjingxin Investment [2015] No. 291)" "Regarding the organization's declaration for implementation in 2016" Development strategy to promote the transformation and upgrading of industrial enterprises Political situation Notice of Project Funds (Changjingxin Investment [2017] No. 3)" "About the release of the 2016 implementation of the "Trinity" issue Development strategy to promote the transformation and upgrading of industrial enterprises special funds Notice (Chang Jingxin Investment [2017] No. 215, Chang Cai Gong Trade [2017] No. 26)"		Equipment purchase subsidy
17	VAT refund	1,242,961.86	"Regarding the continued implementation of the value-added tax refund policy for Xiangshui Yongnengtai Solar power has VAT refund Notice (Caishui [2016] No. 81)"		VAT refund
18	VAT refund	3,091,160.83	"Regarding the continued implementation of the value-added tax refund policy for Toksun County Day Heguang Energy Limited Liability company Notice (Caishui [2016] No. 81)"		VAT refund
19	2016 individual tax and income tax refund	2,077,733.22	"The State Council's Regarding Promoting the Healthy Development of the Photovoltaic Industry Several Opinions (State Council 2013 No. 24)", Hu Xiantao City Treasury Payment center People's Government of Xiantao City, Northern Province, Changzhou Trina Solar Co., Ltd. has The company, Shenzhen Jiejiawei Innovative Energy Equipment Co., Ltd. has "Project Investment Agreement" signed by the limited company		tax return
20	VAT refund	5,568,942.37	"Regarding the continued implementation of the value-added tax refund policy for Xiangshui Yongnengtai Solar power has VAT refund Notice (Caishui [2016] No. 81)"		VAT refund

2018 year

Serial number	project name	Subsidy amount	Law or policy basis / approval document	Funding channel	Subsidy ownership	Subsidy purpose	With B
1	The tenth batch of special funds for talents-foreign experts Subsidy	1,050,000.00	"About supporting enterprises to strengthen the Policy Opinions (Changzhengbanfa [2016] No. 101)" "Guang Political situation	Xinbei District, Changzhou City	Trina Solar	High-level foreign expert workers Salary subsidy	i
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Trina Solar Co., Ltd.							
Prospect							
2	The first batch of provincial high-level innovative entrepreneurs in Jiangsu Only introduced special funds for the plan	1,200,000.00	Rules for the Implementation of Policy Opinions (Changrenshefa [2016] No. 178)" "About the release of the tenth batch of talent special funds for 2017 Jin's Notice (Changrenshefa [2017] No. 329)" "Regarding the Confirmation of the 2017 Jiangsu Province "Double Innovation Plan" Notification of funding recipients (Su Talent Office [2017] No. 37)" "About Printing and Distributing" Jiangsu Provincial High-level Innovation and Entrepreneurship Notice of Management Measures for Special Funds of Talent Introduction Program> Su Cai Gui [2011] No. 8)" "About <Jiangsu Provincial Special funds for the introduction of high-level innovative talents Administrative Measures> Supplementary Notice (Su Cai Gui [2013] 31 No.)" "About issuing the first batch of provinces in Jiangsu Province in 2017 Special funds for the introduction of high-level innovative and entrepreneurial talents Jin's Notice (Su Caixing [2017] No. 95)" "Regarding further implementation of unemployment insurance to support enterprise stability Notice of job assignment (issued by Su Renshe [2015] 245 No.)" "About Doing a Good Job in Employment and Entrepreneurship under the New Situation Implementation opinions of work (Chang Zhengfa [2015] Notice of center staff loss (Trina Solar "Regarding further implementation of unemployment insurance to support enterprise stability Notice of fixed position work (issued by Changrenshe [2016]84 number)"	Xinbei District, Changzhou City	Trina Solar	Entrepreneur talent introduction plan Special fund allocation	i
3	Unemployment insurance supports companies to apply for stable jobs subsidy	2,606,264.00	Notice of job assignment (issued by Su Renshe [2015] 245 No.)" "About Doing a Good Job in Employment and Entrepreneurship under the New Situation Implementation opinions of work (Chang Zhengfa [2015] Notice of center staff loss (Trina Solar "Regarding further implementation of unemployment insurance to support enterprise stability Notice of fixed position work (issued by Changrenshe [2016]84 number)"	Xinbei District, Changzhou City	Trina Solar	Support enterprises to stabilize position Job stabilization subsidy	i
4	The third batch of national top-notch young people To support funding	1,750,000.00	The General Office of the Organization Department of the CPC Central Committee Organization Department of the CPC Central Committee Approval of the national "Ten Thousand Talents Plan" Know (Group Hall Zi [2018] No. 6)" "Special Fund Management Office for Innovation Capability Building of Jiangsu Province Law (Interim) (Su Caigui [2017] No. 27)" "Jiangsu Province	Xinbei District, Changzhou City	Trina Solar	Top talent support funds	i
5	Provincial Special Fund for Innovation Capacity Building (Second Batch)	980,000.00	The Department of Finance and the Department of Science and Technology issued 2018 Provincial Special Fund for Innovation Capacity Building (Second Batch) Notice (Su Caijiao [2018] No. 115)" "Transformation and Upgrading of Provincial Industry and Information Industry in Jiangsu Province Special Fund Management Measures (Su Caigui [2014] No. 38)"	Xinbei District, Changzhou City	Trina Solar	State of Photovoltaic Science and Technology Key laboratory subsidies	i
6	The first batch of provincial industrial and information industry transformation and upgrading specific fund	1,000,000.00	"The Provincial Economic and Information Technology Commission and the Provincial Department of Finance Regarding Organization 2018 provincial industrial and information industry transformation and upgrading Notice of Special Fund Project (Su Jingxin Comprehensive [2018] No. 525)" "About issuing the first Approval of special funds for the transformation and upgrading of provincial industrial and information industries	Xinbei District, Changzhou City	Trina Solar	Comprehensive award for technology	i
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Trina Solar Co., Ltd.							
Prospect							
7	Special funds for quality province	1,000,000.00	Notice of the Golden Index (Su Cai Gong Mao [2018] No. 383)" "Opinions of the Provincial Government on Accelerating Quality Development (Su Zheng [2016] No. 88)" "Provincial Government's Regarding Accelerating Opinions on the construction of a powerful province (Su Zhengfa [2012] No. 91)" "The Provincial Government's Regarding Strengthening Enterprises' Innovation and Transformation Level Implementation Opinions (Su Zhengfa [2011] No. 117)" The 2018 annual high-quality and strong province special funding guidelines were issued Target notice (Su Caixing [2018] No. 89)" "Changzhou High-tech Zone (New North District) on the implementation of talent Opinions on first development strategy (for trial implementation) (Changkai Working Committee [2017] No. 51)" "About Promoting Overseas Elite Talents	Xinbei District, Changzhou City	Trina Solar	Special funds for strong quality province	i
National "10,000 Plan"							

8	The third batch of domestic and overseas elite talents in K750,000.00 specific fund	Changzhou Province's "double innovation" talent introduction (Changkai Talent Office [2017] No. 9) "About the In 2018, the third batch of domestic and overseas elites in Xinbei District, Changzhou City Notice of Talent Special Fund (Changkai Talent Office [2018] 5 number)"	Changzhou Xinbei District Conference Trina Solar	District-level young top talents Supporting funding	i
9	The first and third rounds of the US SOLAR2 Review and Turkey's anti-dumping investigation and interest, export credit insurance government subsidy	Fund Management Measures (Su Caigui [2014] No. 37) "The Department of Finance of Jiangsu Province and the Annual business development special funds support project application work Notice (Su Cai Industry and Trade [2018] No. 15)"	Changzhou Xinbei District Conference Trina Solar	Anti-dumping investigations and Export interest discount, export credit insurance government subsidy	i
10	The first and third rounds of the US SOLAR2 Review and Turkey's anti-dumping investigation and interest, export credit insurance government subsidy	Fund Management Measures (Su Caigui [2014] No. 37) "The Department of Finance of Jiangsu Province and the Annual business development special funds support project application work Notice (Su Cai Industry and Trade [2018] No. 15)"	Changzhou Xinbei District Conference Trina Solar	Anti-dumping investigations and Export interest discount, export credit insurance government subsidy	i
11	"Trinity" special fund	3,360,000.00	Reported to the "Trinity" special fund project in 2018 (No. Changzhou Xinbei District Conference One batch) notice (Changjingxin Comprehensive [2018] No. 105) "Regarding the release of special funds for the "Trinity" in 2018 The notice to accelerate the effective investment of project funds by enterprises (often	Equipment purchase subsidy	i

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Trina Solar Co., Ltd.						Prospect
			Jingxin Investment [2018] No. 281)"			
			"Transformation and Upgrading of Provincial Industry and Information Industry in Jiangsu Province Special Fund Management Measures (Su Caigui [2014] No. 38)"			
12	Provincial-level industrial and information industry transformation and upgrade gold	4,500,000.00	"The Provincial Economic and Information Technology Commission and the Provincial Department of Finance Regarding Organization 2018 special fund industrial and information industry transformation and upgrade project (Changzhou City Trina Solar	Technical transformation of industry Comprehensive bonus project		
			Notice of Special Fund Project (Su Jingxin Comprehensive Political situation			
			[2018] No. 525)" "About issuing the first			
			Approval of special funds for the transformation and upgrading of provincial industrial and information industries			
			Notice of the Golden Index (Su Cai Gong Mao [2018] No. 383)"			
			"The Municipal Government's Regarding Accelerating the Development of Modern Financial Services (Chang Zhengfa [2018] No. 41)" "Municipal			
13	Trina Solar's share reform and restructuring compensation	26,000,000.00	Government's Several Opinions on Accelerating the Changzhou Xinbei District Conference Trina Solar	Corporate equity reform and asset re-make up		
			Zhengfa [2017]) No. 107, "About Organization Declaration 2016			
			Annual Changzhou Financial Development (enterprise share reform and listing)			
			Notice of Project Funds (Changzheng Jinfa [2018] No. 7)"			
			"Regarding further implementation of unemployment insurance to support enterprise stability			
			Notice of job assignment (issued by Su Renshe [2015] 245			
14	Unemployment insurance supports companies to apply for stable jobs subsidy	1,538,521.04	No.)" "About Doing a Good Job in Employment and Entrepreneurship and the New Situation	Support enterprises to stabilize position		
			Implementation opinions of work (Chang Zhengfa [2015] Management center staff list Trina Solar	Job stabilization subsidy		
			"Regarding further implementation of unemployment insurance to support enterprise stability			
			Notice of fixed position work (issued by Changrenshe [2016]84			
			number)"			
			"Measures for the Management of Special Funds for Foreign Economic and Trade Development (Financial Enterprises) [2014] No. 36)" "Jiangsu Provincial Special Business Development Project			
15	Maldives project government subsidy	1,411,500.00	Fund Management Measures (Su Caigui [2014] No. 37)" "Xinbei District, Changzhou City Trina Solar	Maldives project		
			The Department of Finance of Jiangsu Province and the Department of Commerce of Jiangsu Province on the organization of 2018			
			Annual business development special funds support project application work			
			Notice (Su Cai Industry and Trade [2018] No. 15)"			

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			"Xiantao City Development and Reform Commission on Forwarding Lake Beitianhe Solar Energy Co., Ltd. 420MW solar cell Notice of the investment plan within the budget of the project Source [2015] No. 132)" "The State Council's Several opinions on the healthy development of the industry (State Council 2013 Document No. 24)" "E Fagai Investment Letter [2015] Document No. 78" "The Ministry of Finance issued the 2017 border area in advance Notice of Transfer Payment Funds (Xin Caiyu [2017] No. 2)"	Xiantao City Treasury Payments center Hubei Tianhe	Tax incentives	i
16	Government tax rebates (income tax, value-added tax and individual Tax)-Value-added tax and income tax refund	2,357,752.00				
17	VAT refund	1,918,539.23	"Transfer payment in border areas of Xinjiang Uygur Autonomous Region Fund Management Measures (Xin Caiyu [2016] No. 4) "About Issued the transfer payment funds for border areas in 2017 Know (Tushi Caiyu [2018] No. 27)"	National Treasury Tokson County Branch Bank Tokson Trina	VAT refund	i
18	Wujin High-tech Zone Finance Bureau issued 2017 awards paragraph	3,856,900.00	Management Committee of Wujin National High-tech Industrial Development Zone Meeting, Trina Solar (Singapore) Co., Ltd. and Yabang "Project Investment Agreement	Wujin National High-tech Technology Industry Development Zone Political situation	Finance Bureau of Wujin High-tech Distribute 2017 awards	i
19	Wujin Finance Bureau income tax, value-added tax, personal office Tax refund subsidy	2,524,200.00	"The State Council's Regarding Promoting the Healthy Development of the Photovoltaic Industry Several opinions (State Council 2013 No. 24 Document)" Political situation	Wujin National High-tech Development of the Photovoltaic Industry Technology Industry Development Zone Political situation	Income tax, value-added tax, individual Personal income tax refund subsidy paragraph	i
20	Received 2017 project support funds from Shanghai Zizhu	2,000,000.00	"About Shanghai Zizhu High-tech Industrial Development Zone Project funds passed the review of the fourth batch of projects in 2018 Approval (Zizhu Gaoxinguan [2018] No. 7)" "Shanghai Zizhu Use of special development funds for high-tech industrial development zones And Management Measures (Hu Caiyu [2016] No. 146). "Shanghai Project Management of Management Committee of Zizhu High-tech Industrial Development Zone Management Measures (Trial) "About Shanghai Zizhu High-tech Evaluation of the fourth batch of projects of the development zone special funds in 2018 Notice of the approved reply (Zizhu High-tech Management Office [2018] No. 126)"	Shanghai Zizhu High-tech Technology Industry Development Zone Shanghai Zizhu Management Management Committee	Shanghai Zizhu Garden 2017 Project support funds	i
twenty one	Industrial support fund investment company project investment Agreement agreed subsidy	1,966,410.48	"Changzhou National High-tech Industrial Development Zone Management Committee Member's meeting on Trina Solar's power investment company project Purpose Special Agreement Clause	Xinbei District, Changzhou Political situation Capital	Industry Support Fund Investment Investment in corporate projects Special agreement Agreed terms	i
twenty two	In 2017, undertaking industrial transfer to promote processing trade Yi Chuangxin Development Special Fund	2,000,000.00	Xinzhuan High-tech Zone "About Supporting Industrial Development Regulations on Promoting the Development of Industrial Technology Industry Development Zone	Xinzhuan High-tech Zone Technology Industry Development Zone	Undertaking industry in 2017 Transfer to promote processing trade	i

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			Policy" "How to Promote the Development of Modern Service Industry"	Government Treasury Payments Center	Special funds for innovation and development
			Policy on Printing and Distributing Supporting Industries in Xinzhuan High-tech Zone		
			Notice on the development of the "1+3" policy system		
			[2017] No. 191)"		
twenty three	Xinzhuan District Economic and Trade Development Bureau	2,394,195.00	Internal documents of relevant government departments 10	Industrial Technology of Hubei Nvros Stat	Xinzhuan District Economic and Trade
	Logistics subsidies for export performance enterprises			Financial State	New occurrences in 2016
				Library Payment Center	Oral performance enterprise logistics
				the company	paste
twenty four	According to the Management Committee of Yancheng Economic and Technological Development Zone	16,960,000.00	Yancheng Economic and Technological Development Zone Management Committee, Trina Solar	Yancheng Economic and Technological Development	Reward for invoicing sales
	Commitment to complete the business license change from Yancheng Tianhe Energy (Singapore) Co., Ltd., Yancheng National Energy Investment		Fa District Optoelectronics Industry	Management Office	funds
	Within 24 months from the date of		"Yancheng Economic and Technological Development Zone		
	Billion hours, 16.96 million yuan in reward funds		500MW Photovoltaic Cell Project Investment Agreement"		
25	Amortized deferred revenue infrastructure incentives	3,983,863.68	Yancheng Economic and Technological Development Zone Management Committee, Trina Solar	Yancheng Economic and Technological Development	Amortized deferred income basis
			Energy (Singapore) Co., Ltd., Yancheng National Energy Investment	Fa District Optoelectronics Industry	Facilities rewards
			"Yancheng Economic and Technological Development Zone		
			500MW Photovoltaic Cell Project Investment Agreement"		
26	R&D subsidies	2,000,000.00	Yancheng Economic and Technological Development Zone Management Committee, Trina Solar	Yancheng Economic and Technological Development	R&D subsidies
			Energy (Singapore) Co., Ltd., Yancheng National Energy Investment	Fa District Optoelectronics Industry	
			"Yancheng Economic and Technological Development Zone		
			500MW Photovoltaic Cell Project Investment Agreement"		
27	Trinity grant funds in 2018 (amortized three	1,980,000.00	"Deepen the "Trinity" Development Strategy and Promote Advanced		
	One special subsidy)		Opinions on Accelerating the Development of Manufacturing Industry		
			Reported to the "Trinity" special fund project in 2018 (No. Changzhou Xinbei District Conference	Trina Technology	Equipment purchase subsidy
			One batch) notice (Changjingxin Comprehensive [2018] No. 105)	Accounting Center	
			"About the release of the 2018 "Trinity" special project		
			Notice on Accelerating the Effective Investment of Project Funds by Enterprises"		

Serial number

project name

2019 Nian

10 The sponsor and the issuer’s lawyers conducted interviews with relevant government departments on the background and policy basis of the government subsidy;

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		Subsidy amount	Law or policy basis / approval document	Funding channel	Subsidy ownership	Subsidy purpose	With B
1	Amortization of subsidies for purchase of machinery and equipment	3,204,005.75	Yancheng Economic and Technological Development Zone Management Committee, Trina Solar Energy (Singapore) Co., Ltd. and Yancheng National Energy Investment	Yancheng Economic and Technological Development Zone Management Office	Trina Solar	Subsidies for the purchase of machinery	
2	The second batch of project funding of the “Trinity” in 2019 gold	1,500,000.00	"About the organization to declare the 2018 "Trinity" special Of the second batch of funding projects (Chang Jing Xin Zong He [2018] No. 283)"	Xinbei District, Changzhou City Political situation	Trina Solar	"Industry Award" and "Manufacturing single crown Military" Demonstration Enterprise	i
3	2018 Provincial Strategic Emerging Industry Development Project Funds	700,000.00	"About issuing the provincial strategic emerging industries in 2018 Notice on the Development of Special Funds 2018 Provincial Special Funds for the Development of Strategic Emerging Industries Request for gold project (issued by Su Xinxing Industry Office [2018] 15 No.)" "Jiangsu Provincial Strategic Emerging Industry Development Special Interim Measures for the Administration of the Funds Measures of the Soviet Union [2012] 172 number"	Xinbei District, Changzhou City Political situation	Trina Solar	Technology upgrade and automation Transformation (Phase III) Technical Mesh-high efficiency N type single Surface solar cell technology research Development and industrialization	
4	Provincial-level quality province and quality standardization in 2019 Subsidy	3,000,000.00	"About issuing the 2019 provincial-level quality provinces and quality Notice of Standardization Subsidy Fund Index (Su Cai Industry and Trade [2019] No. 9)" "Provincial Government's Regarding Accelerating the Development of Modern Financial Services Opinions on several policies and measures to revitalize the real economy (Suzhengban [2017] No. 25)"	Changzhou City Finance Bureau	Trina Solar	2018 China University of Industry Awards	i
5	Trina Solar's share reform and restructuring compensation	23,000,000.00	"The Municipal Government's Regarding Accelerating the Development of Modern Financial Services (Chang Zhengfa [2018] No. 41)" "Municipal Government's Several Opinions on Accelerating the Zhengfa [2017]) No. 107, "About Organization Declaration 2017 North District Accounting Center Annual Changzhou Financial Development (enterprise share reform and listing) Notice of Project Funds (Changzheng Jinfa [2018] No. 7)"	Xinbei District, Changzhou City Political Bureau, Changzhou New Solar	Trina Solar	Corporate equity reform and asset re-make up	i
6	Hefei New Station District Investment Promotion Bureau, Hefei New Station District Reward	1,960,000.00	Management Committee of Hefei New Station Comprehensive Development Experimental Zone and Trina "Trina Solar Project Investment Cooperation for Energy Photovoltaic Module Production Base protocol"	Hefei New Station High-tech Technology Industry Development Zone Government Treasury Payment Center	Trina Solar	Housing rental subsidy	i
7	2018 municipal level strategic emerging industry special funds Grant	4,000,000.00	"Regarding the release of the 2018 municipal strategic emerging industry Notice on the Budget Indicators of Special Funds for Industry Yancheng Economic and Technological Development [2018] No. 31)" "Yancheng Municipal Strategic Emerging Industry Finance Bureau Measures for the Management of Special Funds for the Industry (Yan Caigui [2018] No. 4"	Yancheng City Finance Bureau	Trina Solar	500MW high efficiency solar Component production project	i

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8	Special upgrade of municipal industry and information technology in 2018 Special fund subsidy	3,940,000.00	"Regarding the organization and declaration of the 2018 Yancheng City-level War Notice of Special Fund Projects for Strategic Emerging Industries (Yanfa Change [2018] No. 137)" "Regarding the release of the 2018 Municipal Industry and Information Technology Notice of Special Fund for Type Upgrade (Yancai Industry and Trade [2018] No. 38, "Regarding the organization and declaration of the 2018 Yancheng City Work Yancheng Economic and Technological Development District Finance Bureau Of the special funds for the transformation and upgrading of industry and informatization Know (Yanjingxinban [2018] No. 58)"	Yancheng City Finance Bureau	Trina Solar	500MW high efficiency solar Component production project	i
9	State Key Laboratory Construction and Operation Subsidy	7,181,941	"Appropriation for Appropriation" confirmed by Changzhou Municipal Finance Bureau with seal Changzhou City Finance Bureau	Trina Solar		State Key Laboratory Construction	i

			book"			Set up operation subsidy	
			"The Municipal Bureau of Industry and Information Technology and the Municipal Information Bureau issued the 2019			National enterprise technology	i
10	The first batch of project funds of the "Trinity" in 2019	1,000,000.00	"Trinity" first batch of project funds notice (chang Gong Xin Zong [2019] No. 113)"	Information and Chemical Bureau, Changzhou Finance Bureau	Trina Solar	heart	
11	Export of provincial-level business development special funds in 2019	2,787,600.00	Su Cai Industry and Trade [2019] No.109 Document	Xinbei District, Changzhou City Political situation	Trina Solar	Export credit insurance support funds	i
12	Responding to or applying for cases related to fair trade in import and export	2,000,000.00	Sued support funds	Import and Export of Special Funds for Provincial Business Development, Xinbei District, Changzhou City	Trina Solar	Support enterprises to participate in Provincial unified organization in a	i
			Notification of Fair Trade Project Application	Political situation		Fair trade related cases	
						Response or appeal	
13	2016-2019 Provincial High-level Innovation and Entrepreneurship Special funds for talent introduction plan	1,300,000.00	"Jiangsu Provincial Department of Finance, Jiangsu Provincial Talent Work Leadership Elementary School The group office issued the 2016-2019 provincial high Special funds for the introduction of high-level innovative talents Notice (Su Caixing [2019])"	Xinbei District, Changzhou City	Trina Solar	High-level innovative entrepreneurs Just introduced	i
14	Suqian Economic and Technological Development Zone	3,334,440.00	"500MW photovoltaic cells in Yancheng Economic and Technological Development Zone Project Investment Agreement	District Finance Bureau	Tianhe Suqian	Infrastructure supporting subsidies	i
15	Amortization of 2MW subsidy for Golden Sun Demonstration Project	414,716.90	"Jiangsu Provincial Department of Finance Regarding Liquidation of 2009-2012 Notice of Central Subsidy Fund for Sun Demonstration Project Jian [2015] No. 84 Document	Department of Finance of Jiangsu Province	Golden Sun Demonstration Project 2MW		i
16	Changzhou implements the "Trinity" development strategy to promote Special funds for transformation and upgrading of industrial enterprises	1,046,354.99	On the implementation of the "Trinity" development strategy to promote industrial enterprises Measures for the Management of Special Funds for Industrial Transformation and Upgrading (Changjingxin Investment [2016] No. 3) Zi [2014] No. 220), Changcai Industry and Trade [2014] No. 208 District, Changzhou City	Xinbei District, Changzhou City	Trina Solar	One" development strategy promote Transformation of industrial enterprises	i
			"About further improving the "Trinity" development strategy for industrial enterprises Measures for the management of special funds for the transformation and upgrading of industrial enterprises Notice (Changjingxin Investment [2015] No. 291)" "About			Special funds	

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Organize a declaration for the implementation of the "Trinity" development strategy in 2016 Strategy to promote the transfer of special funds for the transformation and upgrading of industrial enterprises Know (Chang Jingxin Investment [2017] No. 3) "About the Release In 2016, the implementation of the "Trinity" development strategy to promote Notice of special funds for transformation and upgrading of industrial enterprises (Chang Jing Xin Investment [2017] No. 215) (Chang Cai Industry and Trade [2017] 26 number)"

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Attachment 8: At the end of each reporting period, the issuer included photovoltaic power plants in inventory account specific situation

December 31, 2019

Serial number	Plant name	Project company full name	Is it a set Chinese power station	Built and connected time	Book balance (Ten thousand yuan)
1	Xinjiang Kashgar Bachu Ground Centralized Phase II 40MW Power station project	Huaguang Power Generation in Bachu County limited liability company	Yes	June 2016	25,459.75
2	Ren Building, Nanping Town, Suixi County Renxun Village 40MW ground centralized Power station project	Tianhuai Xinneng, Suixi County Source Co., Ltd.	Yes	September 2017	21,260.45
3	Xinjiang Zhongxing Yecheng 30MW ground power station project Item	Yecheng County Yuanguang Energy Limited company	Yes	August 2015	16,821.51
4	Xinjiang Special Change Bachu Phase I 20MW ground power station project Item	Huaguang Power Generation in Bachu County limited liability company	Yes	July 2015	13,317.61
5	Wujiaqu Energy Convergence Group 1 20MW Ground Power station project	Wujiaqu Energy Convergence Albert Limited investment in new energy the company	Yes	May 2016	11,428.91
6	SAIC Changsha, Hunan 13MW distributed power station project	Hunan Trina Solar Electric Power Development Co., Ltd. Division	no	January 2017	5,289.53
7	10.43MW, Yuhang, Zhejiang Roof distributed power station project Project (Phase I)	Hangzhou Yourui Electric Power Branch Technology Co., Ltd.	no	May 2015	3,651.97
8	Shandong Yishui 10MW Hou Shui Xinshunfeng Optoelectronics Top distributed power station project	Shandong Yishui Xinshunfeng Optoelectronics Technology Co., Ltd	no	May 2015	5,502.91
9	10.49MW, Yuhang, Zhejiang Roof distributed power station project Project (Phase III)	Hangzhou Yourui Electric Power Branch Technology Co., Ltd.	no	September 2015	3,674.30
10	10.06MW, Yuhang, Zhejiang Roof distributed power station project Project (Phase II)	Hangzhou Yourui Electric Power Branch Technology Co., Ltd.	no	June 2015	3,523.82
11	Weifang Linqu Huajian 15W Roof distributed power station project Item	Linqu Xin Shunfeng Optoelectronics Technology Co., Ltd	no	December 2015	4,968.97
12	Vaillant Environmental Power Supply 7 MW Roof distributed power station project Item	Shouguang Fuhe Photovoltaic Branch Technology Co., Ltd.	no	December 2015	3,071.19
13	Source View Solar Suizhou Yan Di Agricultural Technology Co., Ltd. has Limited company 6000KW light Power Generation Project	Suizhou Yuanjing Sun Limited energy and power development the company	no	December 2015	2,951.41

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Serial number	Plant name	Project company full name	Is it a set Chinese power station	Built and connected time	Book balance (Ten thousand yuan)
14	Fujian Taiwan Glass Photovoltaic Glass 5.8MW rooftop distributed	Zhangpu Tianmin Photovoltaic Development	no	July 2016	2,585.88

December 31, 2018

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https://translate.googleusercontent.com/translate_f

	Rooftop distributed power station project	Himac Co., Ltd.				
10	Suqian Shangshang Packaging 14MW Distributed power station project	Suqian Sky Blue Limited volts the company	no	December 2016	6,685.33	
11	10.43MW house in Yuhang, Zhejiang	Project Technology Limited the company		May 2015	5,882.79	
12	Shandong Yishui 10MW roof Distributed power station project	Yishui Xinshunfeng Optoelectronics technology has Limited company		May 2015	5,812.74	
13	10.49MW house in Yuhang, Zhejiang	Project Technology Limited the company		September 2015	5,704.31	
14	10.06MW house in Yuhang, Zhejiang	Project Technology Limited the company		June 2015	5,699.92	
15	Weifang Linqu Huajian 15W House Top distributed power station project	Linqu Xin Shunfeng Optoelectronics technology has Limited company		December 2015	5,238.46	
16	Vaillant Environmental Power Supply 7 MW Rooftop distributed power station project	Shouguang Fuheguang Fu Technology Limited company	no	December 2015	3,250.81	
17	Yuanjing Solar Suizhou Yandi 6MW rooftop distributed electricity Station project	Suizhou Yuanjing Solar power Development Co., Ltd. Division	no	December 2015	3,113.63	
18	Fujian Taiwan Glass Photovoltaic 5.8MW rooftop distributed electricity Station project	Zhongguo Tianmingguang Limited power generation the company	no	July 2016	2,723.39	
19	Hongze 0.8MW roof distribution Power station project (Phase II)	Hongze Heyuanguang Limited volts the company	no	December 2016	2,699.07	
20	Xuzhou Xingxing Home Appliances 6MW Rooftop distributed project	Suining Hechuang Energy Limited source development the company		December 2015	2,648.06	

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Serial number	Plant name	Project Company name	Is it a set Chinese power station	Built and connected to the grid time	Book value (Ten thousand yuan)
twenty one	Hangbu, Kecheng District, Quzhou	Quzhou Kechenghui New energy has Limited company	no	August 2016	2,581.69
twenty two	Guangneng, Laiwu City, Shandong	Shandong Canton Energy Limited source development the company		December 2015 -April 2016	2,054.43
twenty three	Anhui Bozhou Gujing Tribute	Bozhou Xuyang New Energy generation Limited company	no	October 2015	2,035.16
twenty four	Gujia Household 5.45MW House Top distributed power station project	Hangzhou Yizhao Power Power Technology Limited the company		June 2017	1,773.47
25	Shandong Tengzhou Power	Tengzhou Power Crystal Limited new energy the company	no	October 2015	1,773.25
26	Jintan Fundant Project	Trina Light Limited power generation the company	no	March 2015	1,528.05
27	other				7,219.07
		total			259,434.48

December 31, 2017

Serial number	Plant name	Project company name		Built and connected time	Book balance (Ten thousand yuan)
		Weight	Chinese power station		
1	Yunnan Jianshui 300MW site Noodle centralized power station project	Yunnan Metallurgical New Energy shares have Limited company	Yes	June 2015 Until 2017 Continued grid connection	174,621.09
2	Yancheng 100MW Ground Set Chinese power station project	Xiangshui Hengnengtai Solar power has Limited company	Yes	December 2014	66,721.44
3	90MW land in Toksun, Xinjiang Noodle centralized power station project	Toksun County Day Huguang Energy Limited Liability company	Yes	December 2014	53,268.64
4	Wuwei Phase II 80MW Ground Centralized power station project	Wuwei Yinengtai Solar power has Limited company	Yes	Not yet connected to the grid	41,298.12
5	Special change Shanxi Youyu 50MW Ground centralized power station project	Huaguang, Youyu County Limited Liability for Power Generation Ren company	Yes	June 2016	33,027.43
6	Xinjiang Kashgar Bachu Ground Chinese style second phase 40MW Centralized power station project	Huaguang, Bachu County Limited Liability for Power Generation Ren company	Yes	June 2016	30,000.34
7	Xinjiang Toksun Phase II 50MW ground centralized electricity Station project	Toksun County Day Huguang Energy Limited Liability company	Yes	March 2016	28,299.57

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Serial number	Plant name	Project company name		Built and connected time	Book balance (Ten thousand yuan)
		Weight	Chinese power station		
8	Turpan Xinte 40MW Land Noodle centralized power station project	Turpan City Hua Limited photovoltaic power generation the company	Yes	May 2016	27,702.36
9	Special Change Yanqi Phase I 30MW Ground centralized power station project	Huaguang, Yanqi County Limited Liability for Power Generation Ren company	Yes	August 2015	23,614.42
10	Ulanhao, Xing'an League, Inner Mongolia Special City Huhe Racecourse 30MW Ground power station project	CLP Electric (Ukraine Lanho) Photovoltaic Power Generation Co., Ltd. Division	Yes	June 2016	19,273.89
11	Xinjiang Zhongxing Yecheng 30MW Ground centralized power station project	Yuanguang Energy Limited Company Division	Yes	August 2015	18,519.96
12	Hebei Guyuan Phase I 20MW Ground centralized power station project	Guanghui of Guyuan County New energy power generation Limited company	Yes	December 2015	16,342.09
13	Wuwei Phase II 20MW Ground Centralized power station project	Wuwei Yinengtai Solar power has Limited company	Yes	June 2017	15,433.71
14	An Peiqi, Turpan, Xinjiang 20MW ground centralized electricity Station project	Shanshan An Peiqi Limited company	Yes	June 2016	14,863.93
15	Hefei Jingshang Commercial City 30MW rooftop distributed electricity Station project	Hefei Yuanjingguang Limited volts the company	no	December 2015	14,846.43
16	Prosperity in Turpan, Xinjiang 20MW ground centralized electricity Station project	Turpan Zhongfu Wang photovoltaic power generation Limited company	Yes	January 2016	13,729.32
17	Xinjiang Special Change Bachu 20MW ground centralized electricity Station project	Huaguang, Bachu County Limited Liability for Power Generation Ren company	Yes	July 2015	13,014.71
	Red Star of Xinjiang Hami 13th Division Hami Honghua too				

18	20MW on the ground Centralized power station project	Sunpower has limited company	Yes	January 2016	12,949.22
	Suqian Economic and Technology Development Zone				
19	30MW distributed power station project	Lijie Limited	no	December 2015	12,822.36
	Item	the company			
	Wujiaqu Juneng Albert I	Wujiaqu Energy			
20	20MW ground centralized electricity Station project	Weiye New Energy Investment Co., Ltd. Division	Yes	May 2016	12,598.46
	Renlou Mine, Nanping Town, Shaoxing County				
twenty one	20MW in Renxun Village, Subdivided new energy Ground centralized power station project	Lidong New energy project company	Yes	September 2017	11,727.98
	20MW, Sheyang, Yancheng, Jiangsu	Yancheng Cannery			
twenty two	Ground centralized power station project	Solar power has limited company	Yes	June 2017	11,458.39

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Serial number	Plant name	Project company name	Chinese power station	Built and connected time	Book balance (Ten thousand yuan)
twenty three	13MW SAIC in Changsha, Hunan	Tianhetai Solar power on Hair Co., Ltd.	no	January 2017	8,438.42
twenty four	Suqian Shangshang Packaging 14MW Distributed power station project	Suqian Sky Blue Limited the company	no	December 2016	6,763.72
25	Hongze 0.8MW roof distribution Bulk Power Plant Project (Phase II)	Hongze Heyuanguang Limited the company	no	December 2016	6,706.36
26	Jiangsu Huaian Yellow Code 6MW Ground centralized power station project	Huaian Huangmatian He solar power Electric Co., Ltd.	Yes	December 2015	6,587.58
27	10.49MW, Yuhang, Zhejiang	Ruidian Technology Limited the company		September 2015	6,151.94
28	10.06MW, Yuhang, Zhejiang	Ruidian Technology Limited the company		June 2015	6,058.53
29	Shandong Yishui 10MW roof Distributed power station project	Yishui Xinshunfeng Optoelectronics technology has Limited company	Yes	May 2015	5,982.98
30	Huaian Yuguang Complementary 10MW Ground distributed power station project	Huaian Zhongchuang Energy Limited source development the company		December 2015	5,885.74
31	10.43MW, Yuhang, Zhejiang	Ruidian Technology Limited the company		May 2015	5,869.75
32	Yancheng Xiangshui 20MW Ground Centralized power station project	Xiangshui Yongnengtai Solar power has Limited company	Yes	December 2014	5,816.92
33	Shandong Rongcheng 11.37MW	Wuancheng Limited company	no	December 2015	5,648.64
34	Weifang Linqi Huajian 15W	Linqi Xin Shunfeng Optoelectronics technology has Limited company	Yes	December 2015	5,520.28
35	Yuguang, Jialing Township, Hubei	Huanjia Tianfengtai Solar power has Limited company	no	March 2017	4,800.23
36	Huaian Yanhe 8MW Ground Centralized power station project	Huaian Yihengtai Solar power has Limited company	Yes	June 2016	4,670.98

37	Yunnan Jianshui 300MW site Noodle centralized power station project Limited company	Yunnan Metallurgical New Energy shares have Yes Not yet connected to the grid	4,375.14
38	10.02MW, Yuhang, Zhejiang Rooftop distributed power station project (Phase 4)	Hangzhou Guangshun Electric Technology Limited the company	December 2015 4,554.63

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Serial number	Plant name	Project company name	Is it a set	Built and connected time	Book balance (Ten thousand yuan)
	Shanghai NT	Shanghai Xuanheguang			
39	10.02MW distributed power Station project	Limited volts the company	no	September 2015	3,689.44
40	Huanggang Yuanjing Modern 6MW rooftop distributed electricity Station project	Huanggang Yuan Jingtai Solar power on Hair Co., Ltd.	no	December 2015	3,427.04
41	Vaillant Environmental Power Rooftop distributed power station project	Shouguang Fuheguang Supply 7 MW Fu Technology Limited company	no	December 2015	3,419.01
42	Yuanjing Solar Suizhou Yandi 6MW rooftop distributed electricity Station project	Suizhou Yuanjing Solar power Development Co., Ltd.	no	December 2015	3,275.85
43	Shanghai Jinshan-Dongpei, East 6.55MW distributed power station project	Shanghai Zhijiexin Energy technology has Limited company	no	April 2015	3,262.11
44	Xuzhou Xingxing Home Appliances Rooftop distributed project	Suining Hechuang Energy Limited source development the company	no	December 2015	2,982.01
45	Fujian Taiwan Glass Photovoltaic 5.8MW rooftop distributed Power station project	Zhongguo Tianmingguang Limited power generation the company	no	July 2016	2,901.73
46	Hangbu, Kecheng District, Quzhou 12MW rooftop distributed electricity Station Project (Phase I)	Quzhou Kechenghui New energy has Limited company	no	August 2016	2,542.01
47	Ganzhou Economic and Techno- District standard factory 5.8MW Rooftop distributed power station project	Ganzhou Economic and Techno- District standard factory 5.8MW Energy Limited Company	no	May 2016	2,494.98
48	Guangneng, Laiwu City, Shandong 4.42MW distributed power station Project (Phase I)	Guangdong Canton Energy Limited source development the company	no	December 2015 -April 2016	2,293.45 Grid-connected one after another
49	Changzhou Menghe Agriculture 5MW ground distributed electricity Station project	Changzhou Menghe Limited volts the company	no	June 2016	2,174.35
50	Anhui Bozhou Gujing Tributary 6.29MW distributed power station project	Bozhou Xuyang New Energy generation Limited company	no	October 2015	2,123.97
51	Gujia Household 5.45MW House Top distributed power station project	Hangzhou Yizhao Power Power Technology Limited the company	no	June 2017	1,864.83
52	Shandong Tengzhou Power 4.07MW rooftop distributed Power Station Project (Phase I)	Tengzhou Power Crystal Limited new energy the company	no	October 2015	1,859.34
53	other				10,094.55
		total			808,550.35

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Annex IX: During the reporting period, the project has been completed as of **2020 Nian 3 Yue 31** The completion of Final accounts

2019:

project name	whether Completed	whether paid	whether Finalized
Area A, 47.54MW Water Surface Project, Guqiao Town, Fengtai County, Yushui	Yes	Yes	Yes
Zone B of Water Surface 42.22MW Project, Guqiao Town, Fengtai County, Yushui	Yes	Yes	Yes
The sixth bid section of the 1.8MW (BIPV) EPC project of Shandong Heavy Equipment Laiwu Industrial Park	Yes	Yes	Yes
Taisha 80.6KW Distributed EPC Project of Guangzhou Eryun Group, Guangdong Province	Yes	Yes	Yes
Ibaraki Ebizawa 0.63MW AC	Yes	Yes	Yes
10 projects including Saitama Namegawa C 1.5MW AC	Yes	Yes	Yes
Picon I	Yes	Yes	Yes
PICON II	Yes	Yes	Yes
PICON III	Yes	Yes	Yes
Hokkaido Noboribetsu Chitose 250KW AC	Yes	Yes	Yes
Hokkaido Shinori 0.4MW AC	Yes	Yes	Yes
Hokkaido Oketo 0.25MW AC	Yes	Yes	Yes
Changzhou Langhua Electronics 0.22MW Photovoltaic EPC Project	Yes	Yes	Yes
Photovoltaic system project of Weilai Automobile Swap Station Sample Station	Yes	Yes	Yes
Kurokawa Miyagi 18.9MW AC	Yes	Yes	Yes
Miyagi Kitazawa Suginosawa 1.247MW AC	Yes	Yes	Yes
Iwate Shimohara Ushiro 1.0 MW AC	Yes	Yes	Yes
26MW Agricultural and Solar Complementary Project in Bufeng, Jiangsu Yancheng Economic Development Zone	Yes	Yes	Yes
15MW distributed EPC project in GLP Logistics Park, Suzhou Industrial Park	Yes	Yes	Yes
CNBM Shengshi New Materials 5.6MW Photovoltaic PC Project	Yes	Yes	no
CNBM Tongcheng New Energy Materials Co., Ltd. 4.78MW	Yes	Yes	no
PLASENCIA DE JALÓN	Yes	Yes	Yes

Three of the issuer's completed and delivered projects during 2019 have not yet completed final accounts or audits:

(1) Shandong Heavy Equipment Laiwu Industrial Park 1.8MW (BIPV) EPC project belongs to Shandong Heavy Equipment Laiwu Industrial Park The sixth tender of the 49.50MW (BIPV) EPC project, according to the agreement with the owner, will be completed and combined with other tenders. Unified final accounts after delivery; (2) CNBM Shengshi New Materials 5.6MW photovoltaic PC project and CNBM Tongcheng New Energy Materials Co., Ltd. 4.78MW is the completed and delivered project in the fourth quarter of 2019. As of 2019

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Trina Solar Co., Ltd.

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At the end of the year, the third-party audit work has not yet been completed, so the final accounts have not yet been completed.

2018 year:

project name	Has it been completed	Has it been delivered	Has it been settled
Iwate Shimohara Mae	Yes	Yes	Yes
JP Fukui Nihon Saikaihatsu 2MW AC Project	Yes	Yes	Yes
Miyagi Tome Towa 0.875MW AC	Yes	Yes	Yes
Iwate Wagacho Goto 1.2474MW AC	Yes	Yes	Yes
EL OLIVILLO	Yes	Yes	Yes
Hengdong Mulei 100MW Photovoltaic Power Project	Yes	Yes	Yes
Wuqiang Longzhihe 200WM Wind Farm Project (Phase I 100mw) New approach road project	Yes	Yes	Yes
The 220MW photovoltaic power generation project in Wuqiang Longzhihe was dismantled In addition to transformation	Yes	Yes	Yes
10.865MW distributed photovoltaic poverty alleviation project in Yongchangfu District	Yes	Yes	Yes
Rose Manor Roof Distributed Photovoltaic Power Generation Project	Yes	Yes	Yes
Beijing Shunyi Municipal Holding Co., Ltd. distributed light Power Generation Project	Yes	Yes	Yes
The first batch of village-level photovoltaics in Fengning Manchu Autonomous County in 2017 Poverty Alleviation Power Station Project	Yes	Yes	Yes
Xijiang Town Photovoltaic Poverty Alleviation Power Station in Huichang County, Ganzhou City, Jiangxi Province project	Yes	Yes	Yes
Zaoqiang County Distributed Photovoltaic Poverty Alleviation Project in 2018	Yes	Yes	Yes
Huaqin Energy Storage Multi-energy Complementary Demonstration Project	Yes	Yes	Yes
Clare	Yes	Yes	Yes
Mafraq	Yes	Yes	Yes
Kaixo	Yes	Yes	Yes
Mexsolar	Yes	Yes	Yes
Carpio del Tajo	Yes	Yes	Yes
Paradise Park	Yes	Yes	Yes
Fukushima Ono S	Yes	Yes	Yes

At the end of 2018, the issuer has two projects that have been completed and actually delivered but have not yet processed final accounts or audits Case. The reason for the failure to handle the final accounts or audit is that the owner's completion and organization work is slow. As of 2019 The final accounts have been processed in the first half of the year. The details are as follows: (a) Fengning Manchu Autonomous County's first batch of Poverty alleviation power station project, the project has been connected to the grid at the end of 2018, and the actual settlement date is June 2019 30th; (b) Photovoltaic Poverty Alleviation Power Station Project in Xijiang Town, Huichang County, Ganzhou City, Jiangxi Province, the end of 2018

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It has been connected to the grid for power generation, and the actual settlement date is March 14, 2019.

2017:

project name	whether Completed	whether paid	whether Finalized
Aomori Mizawa 1.5MW AC	Yes	Yes	Yes
Miyagi Hanayama 0.875MW	Yes	Yes	Yes
Tottori Yanago 2MW A	Yes	Yes	Yes
Tottori Yanago 2MW B	Yes	Yes	Yes
Ishikawa Noto Mizuho A 1.99MW AC	Yes	Yes	Yes

Ishikawa Noto Mizuho B 1.99MW AC	Yes	Yes	Yes
Miyagi Shichigahama 1.6MW	Yes	Yes	Yes
Miyagi Ishinomaki 13.9MW	Yes	Yes	Yes
Ishikawa Noto Hanyuu 1.36MW	Yes	Yes	Yes
Miyagi Kurihara 2MW DC	Yes	Yes	Yes
Iwate Kami/Kanda Shimizu 1.995MW AC	Yes	Yes	Yes
Iwate Wagacho Fujine 0.468MW AC	Yes	Yes	Yes
Ibaraki Kanai 0.5MW AC	Yes	Yes	Yes
Ibaraki Fukuhara 1.0MW AC	Yes	Yes	Yes
Bingosawa (1.62 MW) AC	Yes	Yes	Yes
Hebei Ningfeng Electrical Equipment Co., Ltd. 5.9MW distributed photovoltaic Power Generation EPC Project	Yes	Yes	Yes
337.96kw Photovoltaic Project in Xiaying Village, Zhoutian Town, Ganxian City, Jiangxi Province	Yes	Yes	Yes
Tianjin China North City 5.21MW Distributed Photovoltaic Power Project	Yes	Yes	no
1.3MW roof distribution of Changzhou Xidian Transformer Co., Ltd. Photovoltaic power generation project	Yes	Yes	Yes
34.185kwp photovoltaic poverty alleviation project in Dingzhuang Village, Situ Town, Danyang, Jiangsu Project, Wutang 54.49kwp Photovoltaic Poverty Alleviation Project, Situ Town, Danyang, Jiangsu Project, 62.64kwp photovoltaic poverty alleviation in Wutang Village, Situ Town, Danyang, Jiangsu Project, 34.02kwp Photovoltaic Poverty Alleviation Project in Situ Town, Danyang, Jiangsu	Yes	Yes	Yes
Shandong Zhengda Pharmaceutical 1.0024MW Distributed Photovoltaic Power Project	Yes	Yes	Yes
Kunshan Henglongxing 351KW Distributed Photovoltaic Power Project	Yes	Yes	Yes
200Kwp village-level photovoltaic poverty alleviation in Baisanguan Village, Yuyang District, Shiyang City Demonstration power station	Yes	Yes	Yes
Hebei Chengde Photovoltaic Poverty Alleviation Power Station EPC Project (Fengning Phase I)	Yes	Yes	Yes
Photovoltaic Poverty Alleviation Power Generation Project in Yucheng County, Henan Province	Yes	Yes	Yes
Photovoltaic Power Generation Poverty Alleviation Procurement Project in Yizhang County, Chenzhou City, Hunan Province	Yes	Yes	Yes
252kwp photovoltaic carport power station project of Baiyin Xinleya Ceramic Factory	Yes	Yes	Yes

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project name	whether Completed	whether paid	whether Finalized
2.226MW Photovoltaic Poverty Alleviation Power Generation Project in Guiyang County	Yes	Yes	Yes
Photovoltaic Poverty Alleviation Power Generation Project in Yaidong County, Chenzhou City	Yes	Yes	Yes
Anren County 4.74MW Photovoltaic Power Generation Poverty Alleviation Project	Yes	Yes	Yes
State Grid Shanxi Electric Power Company's all-round power supply station photovoltaic power generation construction Set up project	Yes	Yes	Yes
Tower Project	Yes	Yes	Yes

The 5.21MW distributed photovoltaic power generation project in North China City in Tianjin was completed and delivered at the end of 2017, but the final accounts were not processed because the issuer and the client had a dispute over the quality of the project, which is currently in litigation.

2016:

project name	Has it been completed	Whether it has been delivered or not
Kato\A 2.1MW DC	Yes	Yes
Kato\C 2.2MW DC	Yes	Yes
Gunma Hiraide 1.0MW AC	Yes	Yes
Hyogo Tatsuno 1.2 MW	Yes	Yes

Ibaraki Ishigami 1.5MW AC	Yes	Yes	Yes
Yachimata Chiba 1.7MW DC	Yes	Yes	Yes
Zhejiang Dongming Stainless Steel Co., Ltd. roof 3.98MW points Cloth power station	Yes	Yes	Yes

At the end of 2016, the issuer did not have completed and actually delivered but failed to complete the final accounts.

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Appendix 10: Changes in the company's long-term equity during the reporting period

											Unit: t
Investee	initial balance	Additional investment	Reduce investment	Under the equity method Confirmed vote Capital loss / Earnings	Other comprehensive income	Other rights change	Announcement Cash dividend Or profit	Provision for impairment ready	Foreign currency Conversion difference	Transfer out to hold For sale assets	end
2019 Nian											
1. Joint venture											
Projekt 27 GmbH & Co. KG	0.78	-	0.78	-	-	-	-	-	-	-	-
Projekt 28 GmbH & Co. KG	0.78	-	-	16.93	0.06	-	-	-	-	-	-
Greenrock Trina GmBH	106.01	-	-	16.93	-0.84	-	-	-	-	-	-
EPC 17 GmbH	11.18	-	-	147.17	-0.03	-	-	-	-	-	-
PSM 30 Gmbh & Co.KG	-	0.04	-	-0.04	-	-	-	-	-	-	-
PSM 50 Gmbh & Co.KG	-	0.04	-	-0.04	-	-	-	-	-	-	-
Promonenercol Solar SAS	-	56.63	-	-	-	-	-	-	-	-	-
Subtotal	118.76	56.71	0.78	180.95	-0.81	-	-	-	-	-	-
2. Joint ventures											
Lijiang Longji Silicon Materials Co., Ltd.	20,486.58	-	-	17,140.87	-	-	-	-	-	-	37
Bright Solar Renewable Energy Private Limited	1,515.49	-	-	-30.26	0.98	-	-	-	-	-	1
Beijing Zhizhong Energy Internet Research Institute has Limited company	3,487.75	-	-	-95.44	-	89.57	-	-	-	-	3
Zhangzhou Jiao U.S. Power Investment Corporation New Energy Development Company Limited company	130.50	-	-	34.68	-	-	-	-	-	-	-

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Investee	initial balance	Additional investment	Reduce investment	Under the equity method			Announcement Cash dividend Or profit	Provision for impairment ready	Foreign currency Conversion difference	Transfer out to hold report For sale assets	end
				Confirmed vote Capital loss / Earnings	Other comprehensive income	Other rights change					
Shenzhen Quantum Energy Internet Co., Ltd. Division	1,824.00	-	-	570.00	-	-	-	-	-	-	2
Jiangsu Tianhui Lithium Battery Co., Ltd.	-	2,156.00	-	-43.91	-	-	-	-	-	-	2
Subtotal	27,444.33	2,156.00	-	17,575.94	0.98	89.57	-	-	-	-	47
total	27,563.09	2,212.71	0.78	17,756.89	0.17	89.57	-	-	-	-	47

2018 year

1. Joint venture

Ushi Huaguang Power Generation Co., Ltd. Liability company	3,275.38	1,335.12	4,610.50	-	-	-	-	-	-	-	-
Projekt 27 GmbH & Co. KG	-	0.78	-	-	-	-	-	-	-	-	-
Projekt 28 GmbH & Co. KG	-	0.78	-	-	-	-	-	-	-	-	-
Greenrock Trina GmbH	-	106.01	-	-	-	-	-	-	-	-	-
EPC 17 GmbH	-	11.18	-	-	-	-	-	-	-	-	-
Subtotal	3,275.38	1,453.88	4,610.50	-	-	-	-	-	-	-	-

2. Joint ventures

Shuntai Financial Leasing Limited company	12,859.34	-	13,148.74	289.41	-	-	-	-	-	-	-
Lijiang Longji Silicon Materials Co., Ltd.	3,355.71	16,500.00	-	630.87	-	-	-	-	-	-	20
Bright Solar Renewable Energy Private Limited	1,515.78	-	-	-	-0.28	-	-	-	-	-	1
Beijing Zhizhong Energy Internet Research Institute has Limited company	3,461.30	-	-	26.45	-	-	-	-	-	-	2

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Investee	initial balance	Additional investment	Reduce investment	Under the equity method			Announcement Cash dividend Or profit	Provision for impairment ready	Foreign currency Conversion difference	Transfer out to hold report For sale assets	end
				Confirmed vote Capital loss / Earnings	Other comprehensive income	Other rights change					
Zhangzhou Jiao U.S. Power Investment Corporation New Energy Development Company Limited company	-	130.50	-	-	-	-	-	-	-	-	-
Shenzhen Quantum Energy Internet Co., Ltd. Division	-	1,900.00	-	-76.00	-	-	-	-	-	-	1
Yancheng spruce photovoltaic power generation Limited company	-	2,214.00	2,214.00	-	-	-	-	-	-	-	-
Subtotal	21,192.12	20,744.50	15,362.74	870.73	-0.28	-	-	-	-	-	27
total	24,467.50	22,198.38	19,973.24	870.73	-0.28	-	-	-	-	-	27

2017 year

1. Joint venture

GR Coigüe SPA	14.65	-	14.65	-	-	-	-	-	-	-	-
Ushi Huaguang Power Generation Co., Ltd.	-	3,179.96	-	95.42	-	-	-	-	-	-	2

Liability company										
Subtotal	14.65	3,179.96	14.65	95.42	-	-	-	-	-	2
2. Joint ventures										
Changzhou Trina Solar International school	9,026.18	-	-	-312.06	-	-	-	-	-8,714.12	
Shuntai Financial Leasing Limited company	12,266.54	-	-	1,305.06	-712.26	-	-	-	-	12
Changzhou Shichuang Silicon Technology Limited company	-	1,125.00	1,125.00	-	-	-	-	-	-	
Lijiang Longji Silicon Materials Limited company	-	3,500.00	-	-144.29	-	-	-	-	-	3
Bright Solar Renewable Energy Private Limited	1,673.05	-	-	-	-157.27	-	-	-	-	1

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Investee	initial balance	Additional investment	Reduce investment	Under the equity method			Announcement Cash dividend Or profit	Provision for impairment ready	Foreign currency Conversion difference	Transfer out to hold For sale assets	end
				Confirmed vote Capital loss / Earnings	Other comprehensive income	Other rights change					
Beijing Zhizhong Energy Internet Research Institute has Limited company	3,431.75	-	-	9.55	-	-	-	-	-	-	2
Subtotal	26,417.52	4,625.00	1,125.00	858.26	-869.53	-	-	-	-	-8,714.12	21
total	26,432.17	7,804.96	1,139.65	953.67	-869.53	-	-	-	-	-8,714.12	24

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Attachment 11: During the reporting period, the company's fixed assets specific projects in each phase

A. As of December 31, 2019:

Unit: ten thousand yuan

project	Original value	Accumulated depreciation	Provision for impairment	Book value
1. Houses and buildings:				
Management	50,431.60	14,581.74	-	35,849.86
For production	178,693.80	56,435.84	-	122,257.96
For R&D	4,560.57	1,569.80	-	2,990.77
Subtotal	233,685.97	72,587.38	-	161,098.59
2. Photovoltaic power station:				
Distributed Light of Yancheng Component Factory Volt project	1,551.12	296.71	-	1,254.41
U.S. GMI Photovoltaic Project	2,165.33	601.57	-	1,563.76
American GMII photovoltaic project	6,028.30	1,600.16	-	4,428.14
Greece SAE Photovoltaic Project	10,119.96	4,148.08	-	5,971.88
Greece TSE Photovoltaic Project	9,540.01	2,395.33	-	7,144.68
Anhui two Huaiying top runners Photovoltaic project	67,251.90	4,605.61	-	62,646.29
Leaders in Yangquan, Shanxi Volt project	31,946.04	3,030.21	-	28,915.83
Distribution of warehouses in Northwest District of Changzhou Photovoltaic project	1,578.42	60.98	-	1,517.44
Shanxi Changzhi Leader Photovoltaic project	93,453.17	1,226.21	-	92,226.96
Shaanxi Tongchuan Leader Photovoltaic project	101,106.16	870.92	-	100,235.24
Inner Mongolia Baotou leader light Volt project	5,121.00	-	-	5,121.00
Subtotal	329,861.41	18,835.78	-	311,025.63
3. Machinery and equipment:				
Crystalline silicon	137,081.26	64,426.86	14,579.00	58,075.40
battery	520,476.49	184,131.23	8,963.36	327,381.90
Component	135,612.37	30,341.22	1,292.81	103,978.34
other	100,421.94	64,653.65	871.56	34,896.73
Subtotal	893,592.06	343,552.96	25,706.73	524,332.37
4. Other				

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project	Original value	Accumulated depreciation	Provision for impairment	Book value
Office and other equipment	79,338.46	64,083.60	531.55	14,723.31
Transportation	2,064.39	1,383.06	25.56	655.77
Subtotal	81,402.85	65,466.66	557.11	15,379.08
total	1,538,542.29	500,442.78	26,263.84	1,011,835.67

B. As of December 31, 2018:

Unit: ten thousand yuan

project	Original value	Accumulated depreciation	Provision for impairment	Book value
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1. Houses and buildings:				
Management	49,013.36	12,244.81	-	36,768.55
For production	179,237.73	49,014.87	-	130,222.86
For R&D	4,560.57	1,360.09	-	3,200.48
Subtotal	232,811.66	62,619.77	-	170,191.89
2. Photovoltaic power station:				
Distributed Light of Yancheng Component Factory	1,551.12	226.91	-	1,324.21
Volt project				
U.S. GMI Photovoltaic Project	2,130.26	506.06	-	1,624.20
American GMII photovoltaic project	5,930.65	1,337.02	-	4,593.63
Greece SAE Photovoltaic Project	10,109.40	3,523.07	-	6,586.33
Greece TSE Photovoltaic Project	9,551.20	1,976.61	-	7,574.59
Anhui two Huaiying top runners				
Photovoltaic project	66,569.73	1,534.07	-	65,035.66
Leaders in Yangquan, Shanxi				
Volt project	31,736.90	1,493.58	-	30,243.32
Subtotal	127,579.26	10,597.32	-	116,981.94
3. Machine equipment:				
Crystalline silicon	134,319.44	89,123.15	15,055.88	30,140.41
battery	404,514.68	182,700.27	8,957.95	212,856.46
Component	109,644.57	43,040.88	1,707.98	64,895.71
other	98,168.13	56,175.43	1,267.35	40,725.35
Subtotal	746,646.82	371,039.73	26,989.16	348,617.94
4. Other				
Office and other equipment	80,517.71	66,588.68	481.59	13,447.44
Transportation	2,838.94	2,079.62	21.97	737.35
Subtotal	83,356.65	68,668.30	503.56	14,184.79

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project	Original value	Accumulated depreciation	Provision for impairment	Book value
total	1,190,394.39	512,925.11	27,492.72	649,976.57

C. As of December 31, 2017:

Unit: ten thousand yuan

project	Original value	Accumulated depreciation	Provision for impairment	Book value
1. Houses and buildings:				
Management	45,864.87	9,812.24	-	36,052.63
For production	164,143.17	40,670.52	-	123,472.65
For R&D	4,483.61	1,136.99	-	3,346.62
Subtotal	214,491.65	51,619.75	-	162,871.90
2. Photovoltaic power station:				
Distributed Photovoltaic Project of Yancheng Module Factory	1,551.12	157.11	-	1,394.01
Item				
U.S. GMI Photovoltaic Project	2,028.14	400.16	-	1,627.98
American GMII photovoltaic project	5,646.36	1,047.07	-	4,599.29
Greece SAE Photovoltaic Project	10,129.10	2,168.59	-	7,960.51

Greece TSE Photovoltaic Project	9,429.68	2,292.80	-	7,136.88
Anhui two Huai Yingshang leader photovoltaic project	12,293.40	7.08	-	12,286.32
Shanxi Yangquan City Leader Photovoltaic Project Item	19,616.89	137.61	-	19,479.28
Subtotal	60,694.69	6,210.42	-	54,484.28
3. Machine equipment:				
Crystalline silicon	253,711.07	157,638.97	22,618.44	73,453.66
battery	515,056.77	221,658.49	10,131.63	283,266.65
Component	120,076.14	38,712.88	12,035.16	69,328.10
other	98,684.55	45,083.02	1,211.11	52,390.42
Subtotal	987,528.53	463,093.36	45,996.34	478,438.83
4. Other				
Office and other equipment	85,356.37	67,218.29	470.37	17,667.71
Transportation	2,757.22	2,030.92	21.66	704.63
Subtotal	88,113.59	69,249.21	492.03	18,372.34
total	1,350,828.47	590,172.74	46,488.37	714,167.36

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Appendix 12: Specific changes in construction in progress in each period of the reporting period

A. Changes in 2019

project name	2019.01.01	Fixed capital for the period		Fixed in this period Asset amount	Disposal in this period	Foreign currency statement Calculate the difference		Transformation Time point	Unit: ten thousand yuan
		Transfer-in amount	Amount			2019.12.31	2019.12.31		
Trina Technology builds new black silicon Wool production line and PERC	35,450.28	34,199.04	27,699.09	97,348.40	-	-	-	2019 year 1-12 months	
High-efficiency battery technological transformation project									
Trina Solar Technology Leads									
N-type high-efficiency battery technological Reengineering	3,469.17	-	3,152.60	56,621.77	-	-	-	2019 3 Month, may	
TRW Thailand PERC high	4,676.35	22,220.63	12,075.27	37,581.03	-	39.17	1,430.39	2019 year 1-12 months	
High-efficiency battery technological transformation project									
Trina Solar PERC High									
High-efficiency battery and half-cut components	4,949.22	7,929.44	23,354.28	60,272.71	3,117.54	-	10,836.69	2019 year 1-12 months	
Technical renovation project									
Yancheng Tianhe New Production Line									
And MBB cut in half	17,323.39	10,173.47	10,763.65	28,380.96	-	-	9,879.55	2019 year 1-12 months	
Technical renovation project									
Trina Yabang Cut Half Components	204.42	-	1,488.83	1,693.25	-	-	-	2019 year 3-12 months	
Technical renovation project									
Trina Vietnam builds new production line									
And PERC high-efficiency battery	201.09	30,954.89	21,312.68	52,471.74	-	3.08	-	2019 year 6-11 months	
Technical renovation project									
Sporadic transformation of Hubei Tianhe engineering	205.02	-	203.48	408.50	-	-	-	2019 year 1-12 months	

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project name	2019.01.01	Fixed capital for the period		Fixed in this period Asset amount	Disposal in this period	Foreign currency statement		Transformation Time point	Inter- Am
		Transfer-in amount	Amount			Calculate the difference	2019.12.31		
Hefei Trina MBB Cut Semi-component technical renovation project		3,925.07	3,918.68	7,843.75	-	-	-	2019 year 3-10 months	
Trina Suqian builds new production line	-	-	31,194.38	10,814.20	-	-	20,380.18	2019 year 6-12 months	
Trina Suqian New Battery project	-	-	1,038.26	-	-	-	1,038.26	no	
Trina Yiwu New Components project	-	-	3,371.27	-	-	-	3,371.27	no	
Front-runner photovoltaic power station project Item	9,476.40	-	228,179.43	202,227.63	-	-	35,428.21	2019 year 6-12 months	2,2
other	241.22	-	2,747.39	1,098.71	-	-0.02	1,889.87	2019 year 1-12 months	
total	164,190.56	109,402.54	370,499.28	556,762.66	3,117.54	42.24	84,254.42		2,2

B. Changes in 2018

Unit: ten thousand yuan

project name	2018.01.01	Fixed capital for the period		This period of business cooperation And increase the amount	Transfer in this period Fixed assets Amount	Intangible in this period Asset amount	Foreign currency statement		Conversion time
		Transfer-in amount	Amount				Calculate the difference	2018.12.31	
Trina Technology builds new black silicon system Efficient cashmere production line and PERC Battery technical renovation project		3,404.12	35,822.09	3,296.99	-	7,072.92	-	35,450.28	2018 year 2~12 months
Trina Solar Technology Leader Technical transformation of N-type high-efficiency battery		-34,941.89	18,527.29	-	-	-	-	53,469.18	-

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project name	2018.01.01	Fixed capital for the period		This period of business cooperation And increase the amount	Transfer in this period Fixed assets Amount	Intangible in this period Asset amount	Foreign currency statement		Conversion time
		Transfer-in amount	Amount				Calculate the difference	2018.12.31	
engineering									
TRW Thailand PERC is efficient Battery technical renovation project	651.63	-7,484.42	-	3,479.64	-	19.93	4,676.34	2018 year 2~12 months	
Shanghai plant and equipment renovation	-	-	46.84	-	46.84	-	-	2018 8. October	
Trina Solar PERC high efficiency Technical transformation of battery engineering	8,065.15	34,406.02	3,650.00	-	12,157.95	-	-	42,943.22	2018 year 1~12 months
Sporadic renovation of Turpan Tianhe engineering	105.00	-	-	-	105.00	-	-	-	2018 4 month
Yancheng Tianhe's new production line and									2018 year

29.10.2020 The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

MBB cut half assembly technical renovation project	2017.01	-42,426.72	-	38,505.04	-	-	17,323.39	1~12 months
Cheng								
Trina Yabang cutting half-component technology Reengineering	1,927.82	- 519.91	-	2,243.32	-	-	204.41	2018 year 1~12 months
Trina Vietnam's new production line and PERC high-efficiency battery technological transformation engineering	4,539.46	-	4,349.89	-	7.41	201.10	2018 year 1~12 months	
Hubei Tianhe Sporadic Renovation Project	329.94	- 470.82	-	595.74	-	-	205.02	2018 year 1~12 months
Cheng								
Leading Runner Photovoltaic Power Station Project	39,146.94	-36,420.17	-	66,390.11	-	-	9,476.40	2018 year January to

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project name	2018.01.01	Fixed capital for the period	New in this issue	This period of business cooperation	Transfer in this period	Intangible in this period	Foreign currency statement	2018.12.31	Conversion time
		Transfer-in amount	Amount	And increase the amount	Fixed assets Amount	Asset amount	Calculate the difference		
other	129.85	-2,746.43		1.03	2,636.09	-	0.00	241.22	2018 year 1~12 months
total meter	67,465.68	109,170.00	125,109.05	1.03	137,582.54	-	27.34	164,190.56	

C. Changes in 2017

Unit: ten

project name	2017.01.01	New in this issue	This period of business cooperation	Transfer in this period	Intangible in this period	Foreign currency statement	2017.12.31	Conversion time
		Amount	And increase the amount	Fixed assets Amount	Asset amount	Calculate the difference		
Trina Technology builds new black silicon texturing production line and PERC high-efficiency battery technical renovation project	1,089.31	8,182.41	-	5,867.60	-	-	3,404.12	2017 1~12 months
TRW Thailand PERC high-efficiency battery technological transformation engineering	4,461.99	7,595.01	-	11,264.55	-	-140.82	651.63	2017 February to
Shanghai plant and equipment renovation	337.19	382.51	-	719.70	-	-	-	2017 June, September
Trina Solar PERC high-efficiency battery and cut in half Component technical renovation project	7,510.57	20,917.06	-	20,362.49	-	-	8,065.14	2017 1~12 months
Turpan Tianhe Sporadic Renovation Project	119.53	48.22	-	62.75	-	-	105.00	2017 December month
Yancheng Tianhe's new production line and MBB cut in half Component technical renovation project	3,719.96	23,690.90	-	10,761.23	3,247.93	-	13,401.70	2017 2~12 months

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New in this issue This period of business cooperation Transfer in this period Intangible in this period Foreign currency statement

29.10.2020 The issuer paid countervailing duties to the U.S. Customs for some of the solar modules it provided to the U.S. market from 2011 to 2018.

project name	2017.01.01	Amount	And increase the amount	Fixed assets Amount	Asset amount	Calculate the difference	2017.12.31	Conversion time
Trina Yabang cutting half-component technical renovation project	418.89	2,835.33	-	1,326.39	-	-	1,927.83	2017 2~12 months
TRW Vietnam's new production line and PERC high efficiency Battery technical renovation project	297.01	745.90	-	1,030.72	-	-8.07	4.12	2017 January to September
Hubei Tianhe Sporadic Renovation Project	1,221.14	829.52	-	1,720.72	-	-	329.94	2017 January to November
Leading Runner Photovoltaic Power Station Project	541.94	71,640.61	-	32,249.21	-	-	39,446.34	2017 September to December
other	116.61	654.01	-	617.83	22.32	-0.61	129.86	2017 1~12 months
total meter	19,347.14	137,521.48	-	85,983.19	3,270.25	-149.50	67,465.68	

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Attachment 13: 20-F and this declaration disclose the description of the power plant sales business and the accounting i
Comparison

matter	Disclosure in this declaration	20-F Disclosure
Power Station Pin Sales business description	The issuer is responsible for the development and construction of the power station by establishing a project company as an investor in the power station project. After the photovoltaic power station is connected to the grid for power generation, the issuer will sell the photovoltaic power station to obtain the sales income of the power station. This type of "rolling development and rolling sales" model has been widely adopted in the domestic photovoltaic power plant business in recent years. And a business model recognized by the market.	<p>Solar Power Projects Segment</p> <p>Once construction is complete we either hold and operate the project or sell it to a third party. This segment enables us to capture additional portions of the value chain in the solar industry. We engage in the full life-cycle of developing and operating solar power projects, including project selection, design, permitting, engineering, procurement, construction, installation, monitoring, operation and maintenance.</p> <p>Build-to-sell projects. We usually determine whether a project is a build-to-sell project before commencing construction. Most of our overseas projects and some of our projects in China are build-to-sell projects. We actively market our build-to-sell projects throughout the development process and usually are able to identify and engage purchasers before the completion of construction.</p> <p>Translation "</p> <p>Photovoltaic power station project</p> <p>After the completion of the construction of the photovoltaic power station, the issuer holds ar Enough to expand the extra part of the solar energy industry value chain. We are engaged in t Including project selection, design, permitting, engineering, procurement, construction, instal 'Construction-sale of photovoltaic power plants'</p> <p>We usually determine whether a project is a'construction-sale photovoltaic power plant' before Most projects and some projects in China are'construction-sale photovoltaic power plants'. TI Actively promote our projects from construction to sales, usually able to identify and attract l</p>

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matter	Disclosure in this declaration	20-F Disclosure
		<p>The Company recognizes the sale of project assets with the concurrent sale or lease of the underlying land use rights,</p> <p>whether explicit or implicit in the transaction, in accordance with ASC 360-20, Real Estate Sales. For these transactions, the Company has determined that the project asset sale represents the sale of real estate and is therefore subject to the revenue recognition guidance applicable to real estate sales.</p> <p>The sale of photovoltaic power stations is the issuer's daily business activities and an extension of the issuer's core business. A project asset comprises of properties, physical fixtures, solar modules and other related integral equipment attached to the land that cannot be removed and used separately without incurring significant costs. Equipment is determined to be integral when the cost to remove the equipment from its existing location, ship and reinstall at a new site, including any diminution in fair value, exceeds ten percent of the fair value of the equipment at the time of original installation. Under real estate accounting, the Company recognizes revenue and profit using the full accrual method once the sale is consummated, the buyer's initial and continuing investments are adequate to demonstrate its commitment to pay, the buyer's receivable is not subject to any future subordination, and the Company has transferred the usual risk and rewards of ownership to the buyer. For the years ended December 31, 2013 and 2014, and 2015 revenues from the sale of project assets were \$11,930,935 and \$133,896,015, and \$90,427,349 respectively. During the years presented, the Company did not have sales that qualified for use of the installment method nor entered into any sale transactions during the construction period of the project assets.</p> <p>The guarantee clause is stipulated in the equity transfer contract of British Power Station and Yuansheng Investment. The aforementioned guarantee clause does not affect the equity transfer consideration. In addition, other sales power plant equity transfer contracts have no substantially all of the risks and rewards of ownership to the buyer, the Company recognizes gross profit under a method determined by the nature and extent of the continuing involvement. In certain arrangements, the Company provide the customers guarantees of system performance for a limited period of time and the exposure to loss is contractually limited based on the terms of the applicable agreement. In accordance with real estate sales</p>
	<p>The photovoltaic power plants held and sold by the issuer are used in the market to find third-party customers for the sale of</p> <p>According to market conditions, the current transfer of photovoltaic power plants is mostly carried out in the form of equity transfer.</p> <p>The essence is to sell power plant assets by way of equity transfer. When the industrial and commercial change of equity delivery is completed and</p> <p>According to the irrevocable sales contract, the main risks and rewards of the relevant power station equipment are determined and transferred to the relevant customers.</p> <p>At the time, the issuer confirmed the sales revenue of photovoltaic power plants.</p>	
Power Station Pin		
Sales business		
Description receipt		
Enter confirmation		

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matter	Disclosure in this declaration	20-F Disclosure
		<p>accounting guidance, the gross profit recognized is reduced by the maximum exposure to loss until such time that the exposure no longer exists. As of December 31, 2015, deferred revenue related to the guarantee of system performance after the sale amounted to \$4,582,640.</p> <p>Translation "</p> <p>The company confirms the sale of photovoltaic power plants and the sale or lease of related land use rights.</p> <p>All instructions are applicable to ASC 360-20 "Real Estate Sales". For these transactions, the sales of real estate are shown, so the revenue recognition guidelines applicable to real estate sales are used.</p> <p>The sales of real estate are shown, so the revenue recognition guidelines applicable to real estate sales are used. Real estate, fixtures, solar cell modules and other related overall equipment on the site, which cannot be removed and used separately. When disassembling the equipment from the existing site, the cost to remove the equipment from its existing location, ship and reinstall at a new site, including any decrease in fair value) when it exceeds 10% of the fair value of the equipment</p>

Dividable. When the following conditions are met, the company uses the full confirmation method:

A. The sale has been completed;

B. The buyer's initial and subsequent investments are sufficient to prove the promise to pay for the property;

C. The resulting seller's collection is not subject to subordinate influence;

D. The seller has transferred the usual risks and ownership rewards to the buyer in a substantial manner.

No substantial continuous participation in the operation of the property

As of December 31, 2013, December 31, 2014 and December 31, 2015, the company sold photovoltaic power plants.

The revenue of the power station was 11,930,935 USD, 133,896,015 USD and 90,437,349 USD.

Within this period, the company did not use the installment payment method for sales or transfers.

If the company continues to participate in the photovoltaic power plant and does not transfer ownership, the company will confirm the gross profit of the transferred risks and rewards.

The gross profit is determined according to the nature and degree of continuous participation.

Provides a guarantee of system performance, and in accordance with the terms of the applicable contract.

According to the guidance of the accounting standards for the sale of chattels, the risk of loss

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matter	Disclosure in this declaration	20-F Disclosure
	<p>The above costs and expenses are offset at the consolidated statement level against the internal failures of the power plant, and power is provided with the gross profit. After cashing the gross profit, the photovoltaic power plants that are intended for external sales are listed in the consolidated statement and labeled as "Goods" subject.</p>	<p>includes materials and construction and other capitalizable costs incurred to construct the solar energy project systems.</p>
	<p>C. Follow-up measurement of photovoltaic power station</p> <p>The power generation revenue during the operation period of the photovoltaic power station is recognized as "other income" in the consolidated statement.</p> <p>The issuer depreciates the photovoltaic power station at the subsidiary level according to the straight-line method and a reasonable estimation period.</p> <p>The cost of power generation revenue; at the level of consolidated statements, offset the unrealized internal losses of the power station construction.</p> <p>After gross profit, the holding and selling photovoltaic power plants are listed as "inventory" in the consolidated statement.</p>	<p>Upon completion of the construction of build-to-sell project assets, the Company initiates a plan to sell the assets or make the assets for immediate sale in its present condition to potential buyers at the end of the construction period.</p> <p>The sales of photovoltaic power plants are measured at the lower of its carrying amount or fair value less costs to sell. At each reporting date, the appropriateness of the classification of build-to-sell project assets is reassessed. If facts and circumstances change such that it is no longer probable that the project asset will be sold within one year, the project asset will be reclassified to property, plant and equipment.</p> <p>Translation "</p> <p>The company builds solar photovoltaic power plant projects ('photovoltaic power plants'), the Or (ii)'Construction-holding photovoltaic power plants'. The company classifies photovoltaic For "build-sell photovoltaic power plants" or "build-hold photovoltaic power plants". The cla Accounting and presentation in financial statements, including consolidated income statement sales of photovoltaic power plants are being consolidated</p> <p>The sales of photovoltaic power plants' transactions are all reflected in the cash flow generated based on actual cash flow</p> <p>In the case of photovoltaic power plants, it is reported as the cost of goods sold in the consolidated statement.</p> <p>Previously, the power generation income generated by photovoltaic power plants was included in the "Station" refers to the photovoltaic power station that the company holds and operates and used for the production of goods, provision of labor services, leasing or operation and management. The income of students is listed as part of the income in the consolidated income statement. And listed as investment activities in the cash flow statement. The proceeds received from the</p>
	<p>D. Sales of photovoltaic power plants</p> <p>For photovoltaic power plants that are sold, the issuer usually conducts transactions by way of equity transfer. The quality is to sell power station assets by way of equity transfer, and the amount of income recognized is the amount of shares in the project company.</p> <p>On the basis of the consideration for the transfer of rights, plus the corresponding liabilities of the power station project company, minus the power station project</p> <p>In addition to the remaining assets of the power station, the company will restore the equity consideration to the</p> <p>The assets are recognized as the sales cost of the power station.</p>	
	<p>E. Preparation of cash flow statement related to photovoltaic power station</p> <p>For photovoltaic power plants listed as "inventory", the cash flows related to the construction and sales of photovoltaic power plants are being consolidated</p> <p>The cash flow statement is reflected as "cash flow from operating activities", which is prepared based on actual cash flow</p> <p>Cash flow statement.</p>	

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matter	Disclosure in this declaration	20-F Disclosure
		<p>The scale is listed as the cash flow from investment activities. The net profit and loss from the construction of the "Construction-Sales Photovoltaic Power Station" are reported in the income statement.</p>
		<p>The cost of photovoltaic power plants mainly includes the capitalizable costs of permits, land Materials, components, construction, installation and labor, and other capitalizable costs for the construction of the "Construction-Sales Photovoltaic Power Station".</p>
		<p>After the construction of the "construction-sales photovoltaic power station" is completed, the photovoltaic power station will be sold to potential buyers at a reasonable price. Basically, the photovoltaic power station will be sold to potential buyers at a reasonable price. No depreciation is accrued when standing at the construction stage or classified as holding assets. Value or fair value minus the cost of selling, whichever is lower. On each reporting day, the appropriateness of the classification of photovoltaic power plants sold. If facts and circumstances change such that it is no longer probable that the project asset will be sold within one year, the project asset will be reclassified to property, plant and equipment.</p>
	<p>Fixed assets refer to the useful life held for the production of goods, provision of labor services, leasing or operation and management</p> <p>Tangible assets with a higher unit value with a life of more than one year, including photovoltaic power plants that are in operation</p> <p>Wait.</p>	
	<p>A. Presentation of photovoltaic power plants</p> <p>Fixed capital The issuer decides to sell or hold the operation during the stand-up phase of photovoltaic Production-Photovoltaic plants are listed as "fixed assets".</p> <p>Power station</p>	<p>After the completion of the construction of the "Construction-Sales Photovoltaic Power Station", the power plant assets will be listed as 'real estate, plant and equipment'...</p>
	<p>The issuer's specific criteria for dividing photovoltaic power plants into inventory and fixed assets are: policy restrictions</p> <p>The photovoltaic power plants that are transferred and used by the issuer's roof are listed as "fixed assets"; project approval documents</p> <p>PV power plants that clearly intend to operate and generate electricity are listed as "fixed assets".</p>	

The issuer's classification of photovoltaic power plants into inventory and fixed assets is mainly based on policy regulations and documents.

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The project approval document of the photovoltaic power station, the issuer's project approval document will carry out the management plan for the sale of the power station. Estimate the cost, and make relevant financial analysis and evaluation based on it, and include it in the content of the project. The holding intention of Ming Power Station is for external sales or holding operations.

B. Initial measurement of photovoltaic power station

The cost of photovoltaic power station includes: purchase cost, construction cost and other attributable to the cost of the power station cost.

The issuer's transportation expenses, loading and unloading expenses, insurance expenses and other

Expenses that are part of the purchase cost are included in the purchase cost. The related costs of project construction are included in the construction

Cause the cost. Land use rights fees, design fees, survey fees, supervision fees, etc. are included in other expenses.

The above costs and expenses are offset at the consolidated statement level against the internal failures of the power plant components purchased within the group.

After cashing the gross profit, the operating photovoltaic power plants will be listed in the consolidated statement as "construction in progress" or "solid "Determined assets" and "intangible assets" subjects.

C. Follow-up measurement of photovoltaic power station

The power generation revenue during the operation period of the photovoltaic power station is recognized as "main business revenue".

The issuer depreciates the photovoltaic power station at the subsidiary level according to the straight-line method as the power station operation period

The cost of power generation revenue; at the level of consolidated statements, offset the unrealized internal components of power station construction

After gross profit, holding and operating photovoltaic power plants are listed as "fixed assets" and "intangible assets" in the consolidated statement.

"Assets" account.

D. Transfer of photovoltaic power station

If the photovoltaic power plant that is in operation loses the right to the invested

The capital's control right, the disposal price and the corresponding consolidated financial statement level enjoy the project company

The difference in the share of net assets is included in investment income.

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E. Preparation of cash flow statement related to photovoltaic power station

For photovoltaic power plants listed as "fixed assets", the relevant cash flow for construction and sales of photovoltaic power plants is

Reflected in the consolidated cash flow statement as "cash flow from investment activities", based on actual cash flow

Prepare cash flow statement.

Note: The full disclosure of issuer 20-F can be found on the website of the US Securities and Exchange Commission (abbreviation: SEC)

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