

CHINA CLASSIFICATION SOCIETY
Annual Report
2020





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President's Statement



2020 was a quite extraordinary year for China Classification Society (CCS). At the start of the year, the Covid-19 pandemic created a complex global situation not seen in a century.

Despite this major challenge, CCS staff have worked tirelessly to overcome difficulties and to write a successful new chapter in our story.

CCS worked hard, alongside clients and industry partners, to mitigate the impact of the pandemic, adopting measures to prevent the spread of Covid-19 and to resume work in an orderly manner at home and overseas. CCS also assisted the industry in its fight against Covid-19, donating medical supplies to the Union of Greek Shipowners and the General Hospital of the Yangtze River Shipping. We further donated software and provided free or discounted services to some enterprises and organizations. Those measures have helped the industry fight back against the pandemic.

All areas of the business enjoyed steady growth during the past year and the number of surveyed ships continued to increase. By the end of 2020, the size of the surveyed fleet reached 32,054 with a gross tonnage of 163.45 million tons, including 4831 ships engaged in international shipping totalling 124 million tons, 24,518 ships engaged in domestic shipping totalling 37.26 million tons and 2,705 ocean-going fishing vessels totalling 1.88 million tons. Service survey has been carried out 8,441 times for CCS-classed ships engaging in international shipping, recording a year-on-year increase of 7.5%. CCS successful rate in bidding for fixed facilities in maritime business reached 86%, creating a new record in the last three years. CCS industrial service business registered strong growth and CCS continued to develop new packages for survey, testing, certification and evaluation and to extend the scope for certification to shipping, energy, equipment manufacturing, finance and

insurances, rail transit and low-carbon green products. CCS further actively supported national strategies such as the "building China into a great power with high quality products and good transportation infrastructure" green development and digital China. Meanwhile, service quality levels and customer satisfaction have further risen over the last 12 months.

CCS has kept good records in the inspection by port state control (PSC) and flag states. Work safety continued to be at the forefront of all our activities and organised methodically. The activities "safe work month" were carefully organised, and the "three-year action for special rectification of work safety" was scientifically formulated and solidly promoted. Our ship survey business in ocean fishing vessels has passed external audit. The "four-standard-into-one" management system operated effectively, the first complete assessment by International Quality Assessment Review Body (IQARB)

succeeded, and the version change of ISO 45001 system was successful. Elsewhere, the recognition and management of ship survey and testing agencies were enhanced constantly, and the standardised management construction was completed for the supplier recognition; and customer satisfaction was steadily improved. The overall service satisfaction of CCS has been further enhanced based on the third-party satisfaction survey results.

CCS continued to take the lead in technical innovation, making new breakthroughs in standardised system construction. Over the year 16 new rules/guidelines were issued in areas ranging from green and intelligent technologies to epidemic prevention, including the Rules for Green Ships, the Rules for Green Ecological Ships and the Rules for Intelligent Ships (2020), confirming CCS position as a world leader in intelligent ships with new guidelines on intelligent (i) machinery, i-hull, i-energy efficiency and i-integration platforms. Our research into unmanned ship systems progressed, and there were also breakthroughs in green ship technology and advances in intelligent ship technology. CCS Key Technology Laboratory for Unmanned Ship Systems and Equipment was granted as the key laboratory of the transportation industry. CCS is building the new standard system of aquatic lifesaving equipment with the "ships-shoresky" integrated intelligent solution. The "digital classification society" model has made progress, and the Industrial Internet Innovation Centre of Shipbuilding and Ocean Engineering Industry and its Guizhou Disaster Recovery Centre have been constructed during the year.

Moreover, the last year has seen CCS works with the wider shipping industry to tackle the issue of greenhouse gas emissions in the maritime sector.

In 2020, CCS carefully studied the major statements of General Secretary Xi Jinping on the objectives of peak carbon dioxide emissions and the visions of carbon neutrality. Together with ship and shipping industries, we researched carbon reduction measures and the peak carbon emissions paths of shipping in line with the technologies and measures for peak emissions for reference when the Ministry of Transport was making its decisions on the peak carbon emissions.

We continued to raise our profile on the world stage, submitting 22 proposals to the International Maritime Organization (IMO) and having our say on a range of important issues. China's Energy Efficiency Existing Ship Index (EEXI) proposal was successfully included in the amendment to the International Convention for the Prevention of Pollution from Ships (MARPOL). CCS technical influence grew globally through its work with the International Association of Classification Societies (IACS) on several key subjects. Our international growth also increased. CCS obtained new statutory authorization from four maritime authorities during the year, including the Faroe Islands, Luxembourg, Togo and Brunei. The society now holds 55 authorizations from national and regional governments. CCS continues to improve its global service network and today has 120 outlets covering the main ports globally across 26 countries and regions. We have also worked hard to strengthen international links, playing prominent roles in major international

maritime events such as the Second Global Sustainable Transport Conference, the Global International Maritime Online Forum, and Greek Hall of Fame. We also put our energies into boosting cooperation with International Maritime Organization (IMO), the International Association of Classification Societies (IACS) and International Chamber of Shipping, for the wider benefit of the industry. This work on the international stage with the prime global maritime organization underlined China's position as one of the most powerful and important maritime nations in the world.

We look back on the past 12 months with mixed emotions. Adversity and challenges have been faced with growing confidence and we have learnt that the development of CCS is inseparable from the concern, trust and support of shipping, shipbuilding, energy, finance and other related industries. We firmly believe that there will be more stories of success and triumph for ship surveyors from China as the world gradually recovers from the immense trauma of COVID-19. Today we begin to look forward with hope again, our national and personal dreams combined. From our homes to our offices, our dream remains the same - to build an even stronger China powered by the irresistible tide of maritime.



CCS Chairman & President

Top Management



- | | |
|----------------------|--|
| Mo Jianhui | President & Deputy Secretary of CPC (right in the front row) |
| Li Changjian | Secretary of CPC & Vice President (left in the front row) |
| Sun Feng | Deputy Secretary of CPC & Vice President (middle in the back row) |
| Gao Jianguang | Secretary of Committee for Discipline Inspection (second from right in the back row) |
| Zhong Xiaojin | Vice President (second from left in the back row) |
| Zhu Kai | Vice President & Chief Engineer (first from right in the back row) |
| Fan Qiang | Vice President (first from left in the back row) |

China Classification Society in 2020

► Fleet

CCS fleet includes vessels engaged in international shipping, domestic shipping and ocean fishing. At the end of December 2020, the number of classified ships stood at 32,054, with a gross tonnage of 163.45 million tons. These included high value-added ships, such as large ore carriers, container vessels and liquefied natural gas (LNG) carriers, as well as green and intelligent ships.



● International shipping fleet:

4,831 ships

124 million GT

Average age of 9.81 years



● Domestic ships:

24,518 ships

37.26 million GT

Average age of 11.39 years



● Ocean-going fishing vessel fleet:

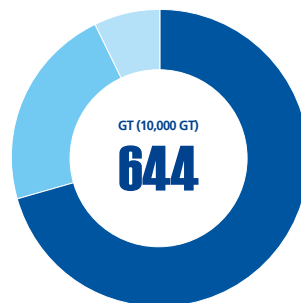
2,705 ships

1.88 million GT

Average age of 7.6 years



● **Newbuildings** Total ships constructed (December 21, 2019 - December 20, 2020)



- International classified ships: 108 ships
- Domestic classified ships: 256 ships
- Domestic non-classified ships: 777 ships

- International classified ships: 4.545 million GT
- Domestic classified ships: 1.433 million GT
- Domestic non-classified ships: 462,000 GT

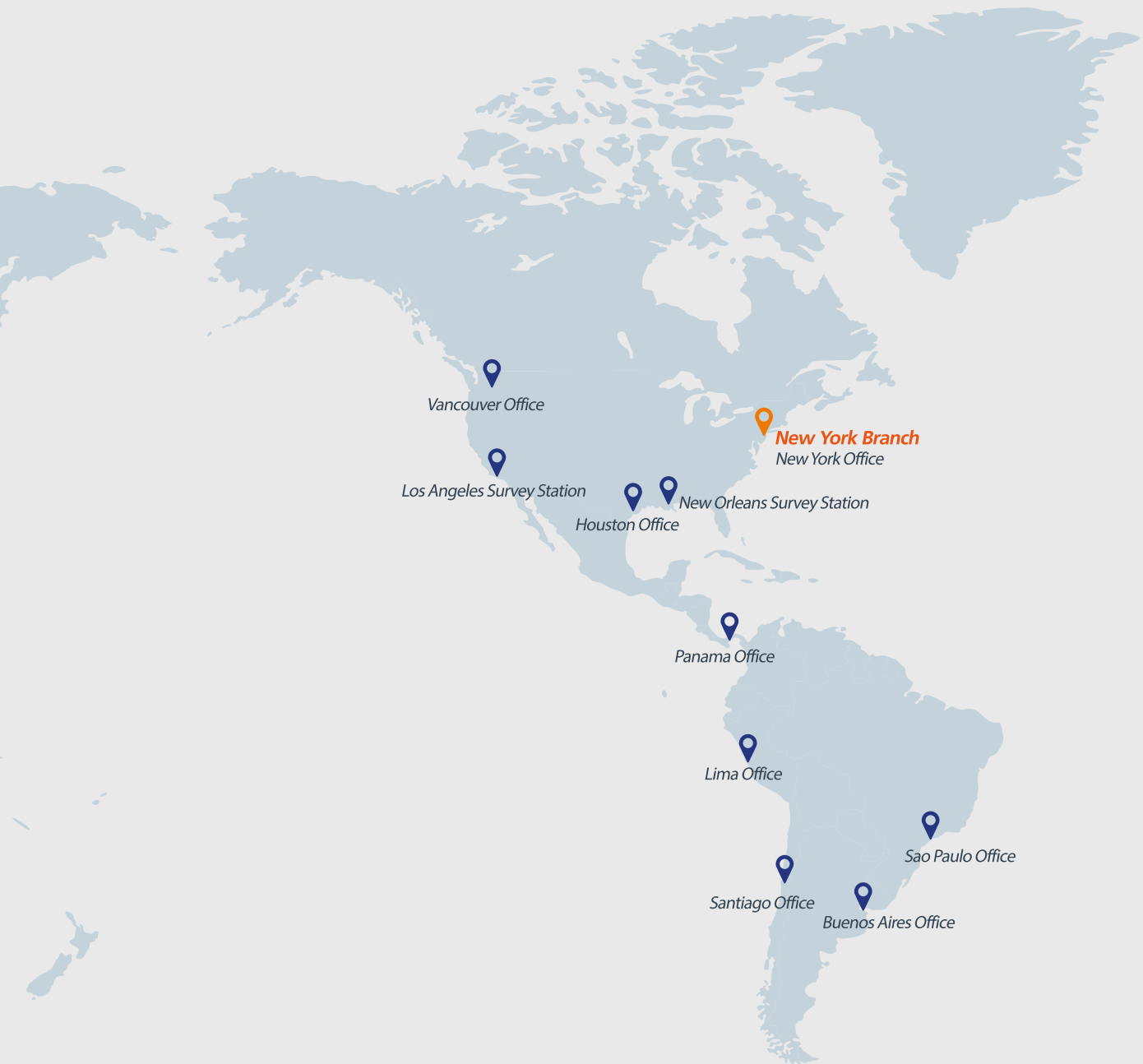




► Organization and network

CCS has **120** survey and service offices worldwide

75 outlets on the Chinese mainland and 45 outlets in Hong Kong, Macao, Taiwan and overseas



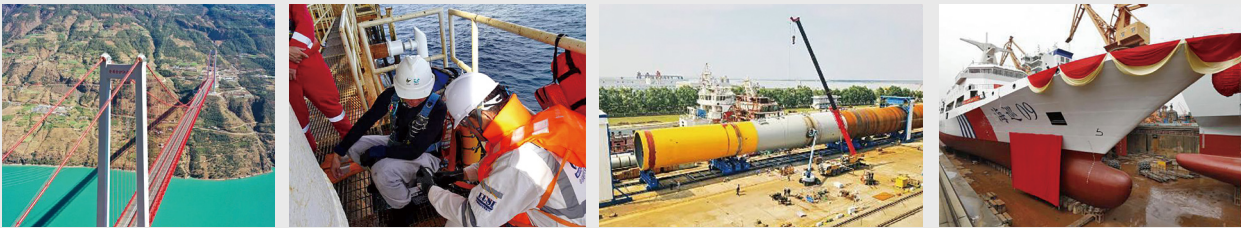
CCS operates four companies:

China Classification Society Industrial Corporation (CCSI), Chinese Classification Society Certification Company (CCSC), Beijing DigitalEasy Technology Development Co Ltd and China Ship Survey Press.

Subject to the management of impartiality, the operation of these companies is under the exclusive responsibility of their own.

● China Classification Society Industrial Corporation (CCSI)

CCSI has 17 branches nationwide, mainly engaged in supervision, testing, inspection, consulting and assessment services. Its scope covers traffic engineering, marine shipping, energy and the chemical industry, finance, insurance and equipment manufacturing. CCSI can boast almost 20 qualifications, including CNAS/CMA, equipment supervision, road and bridge engineering, electromechanical engineering, professional offshore oil equipment and special equipment testing.



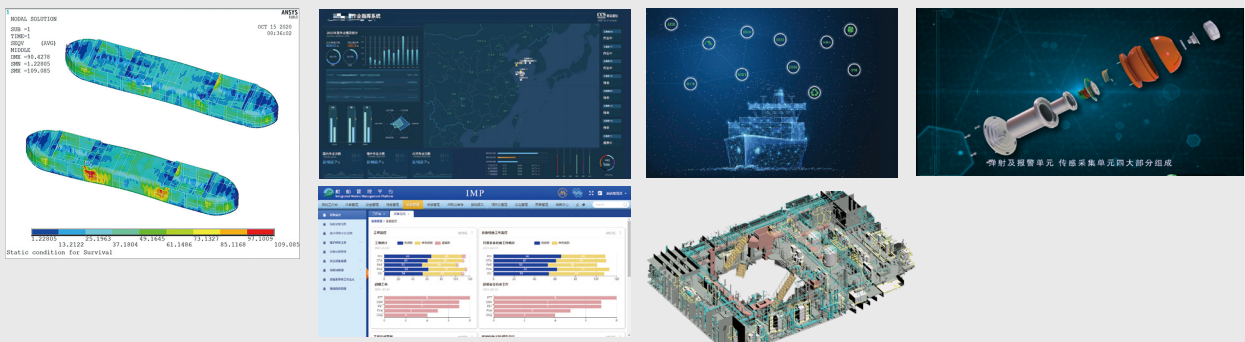
● Chinese Classification Society Quality Authentication Company (CCSC)

CCSC has 32 branches and a technical center, product testing center and training center in China. It also has a wholly-owned subsidiary: Beijing Longzhihui Management Consulting Co Ltd. CCSC is mainly engaged in system and product certification, service certification, container inspection, industrial product inspection, safety work and the green and low-carbon sector, as well as integrating IT applications into industrialization, animal welfare evaluation, vocational education and training, risk management and technical and testing services.



● Beijing DigitalEasy Technology Development Co., Ltd.

DigitalEasy Technology provides high-tech services for the shipping and maritime industry. These include software development, technical consultation and operation management. Its products and services cover engineering software development, intelligent management platform development, data analysis services, visual model application, digital modelling, calculation assessment, digital simulation and ship communication and navigation.



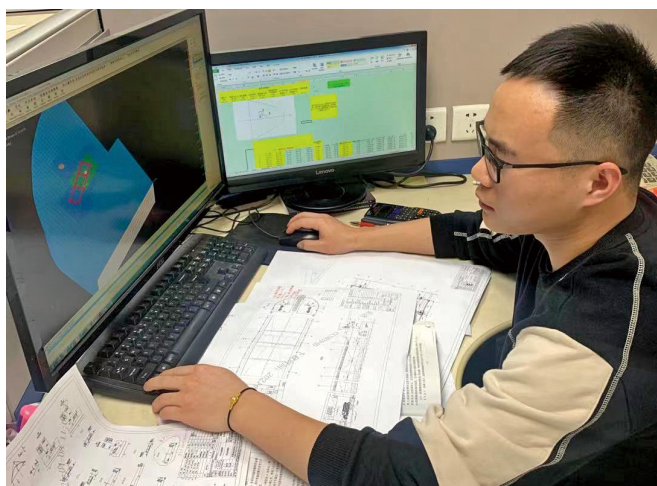
● China Ship Survey Press

China Ship Survey Press is a periodicals publisher whose titles include 'China Ship Survey', along with CCS special reports. It also issues news online, on new media platforms and through its own WeChat account.

The business provides public opinion analysis and delivers various information services, as well as developing cultural products, organizing cultural exchanges and exhibitions and providing creative design services,

Haihongzhicai Advertising Centre designs and produces China Ship Survey and other publications. It also manages subscriptions and sales as well as overseeing advertising design and production. The centre is involved in exhibitions and audio and visual production.





Employee

Numbers and breakdown of roles



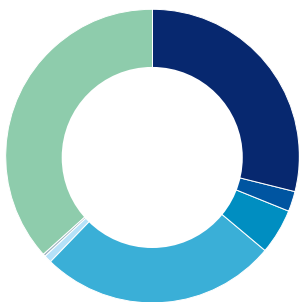
- Field and management surveyors
- Plan approval surveyors
- Regulated scientific research staff
- Leaders at managerial positions
- Integrated management

- Head office, branches and directly controlled entities: 2,928 staff
- Subordinate companies: 2,251 staff



► Clients

CCS offers its services to more than 30,000 customers across six continents, 139 countries or districts.



■ Ship-owning companies: 10,755	■ Overseas owners: 316
■ Design institutes: 859	■ Financing institutions: 58
■ Shipyards: 1,783	■ Industrial circle: 13,550 customers
■ Manufacturers: 9,762	

By the end of 2020, CCS had established strategic partnerships with 41 institutions, including four which were newly added that year.

► COVID-19 prevention and control



In an extraordinary year dominated by COVID-19, everyone in the CSS organisation came together as one to face the difficulties posed by the virus.

For its concerted efforts in prevention and control and in getting the shipping industry back to work, CCS won high praise from the Ministry of Transport and the wider sector.

CCS adopted vigorous measures to prevent the spread of the virus and any resurgence of infections and to deal with any local outbreaks.

Moreover, CCS worked to buy PPE at home and overseas. In the initial stages of the outbreak CCS organised the purchase of equipment from overseas suppliers for General Hospital of the Yangtze River Shipping and staff.

With the situation stable in China, it turned its attention to the global fight against the virus, supplementing PPE supplies needed by overseas agencies.

CCS further worked with the wider industry, urging the Secretary General of the IMO to send a circular letter addressing delays in the delivery of ships caused by COVID-19. It helped ease the contract fulfilment pressure being felt by the shipbuilding industry in China.

In addition, CCS worked with the IMO towards ship certificate extension and on remote surveys.

As part of its efforts to prevent the spread and to control the virus, CCS released 'Safety Guidelines for Epidemic Prevention of Ships' and the 'Guidelines for Monitoring and Assessment of Air Quality and Biological Environment in Ships'.

Both proved valuable to shipping companies in their prevention work. CCS also completed the inspection of ferries in the Qiongzhou Strait.

Practising social responsibility, CCS donated medical supplies to Greece Shipowner Alliance and General Hospital of the Yangtze River Shipping.

Elsewhere CCS waived survey expenses and service charges to relevant domestic enterprises and donated 400 sets of ship engineering calculation software to 228 small and medium-sized design companies, amounting to more than RMB 15 million.



R&D and technical innovation



CCS has a strategy of innovation-driven development as it looks to make scientific and technological breakthroughs in key areas. It does this by upholding the principles of "openness, innovation, sharing and leadership".

So far it has established two institutes and six centres for scientific research. These are: Shanghai Institute of Standards, Wuhan Institute of Standards, Technology R&D Center, Maritime Engineering Technology Center, Science Innovation Test Center, Information Center, London Maritime Center and Overseas Technical Center. CCS also promotes the development of safe, intelligent and green industrial laboratories.

In terms of technological achievements, the COMPASS system is a complete engineering calculation software of rule application and classification rule system for ships and marine engineering. CCS also has business management systems in operation.

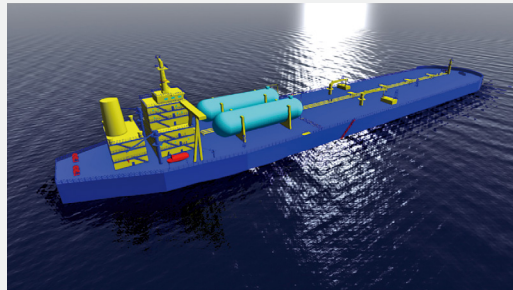
CCS provides the whole industry with advanced, safe, green and applicable specifications and standards.

Through its intensified technical R&D efforts it is establishing standards for safety technology, green technology, intelligent technology, marine engineering technology and industrial technology.

It has further promoted the upgrading of shipping, shipbuilding and supporting industries through its research and the application of new technologies and new standards.

In its emerging industrial services business, CCS has taken the lead in areas including national certification and accreditation, work safety standardization, energy conservation and emission reduction accreditation, as well as offshore wind power service, tank and container inspection, non-destructive testing, ship and bridge supervision, and marine engineering inspection and testing, ranking it at the top of the industry.

► Green technology



1. Green technology innovation and research

CCS promoted research into the recycling of ship resources, green technologies and clean energy applications. In 2020 it released updated rules relating to green eco-ships and prepared the guidelines relating to ship exhaust gas recycling (EGR). It went on to help with the application of EGR in marine engines in China.

Breakthroughs were also made in research into energy-saving technologies such as marine air lubrication drag reduction systems. Against the background of COVID-19, CCS worked with the wider industry on epidemic prevention on ships and biological particle detection technology. It further launched the world's first ship safety guidelines for epidemic prevention and helped the wider industry in its return to work.

2. Alternative fuel and propulsion systems

CCS' work on hydrogen and ammonia marine fuel technologies and hybrid power systems led to its report on low-carbon development trends in shipping. A three-year action plan to promote the green development of inland water transportation has been created within the industry to continue to advance shore power construction and to study the applied technology of lower-carbon energy.

Five 'special inland water' projects have been created, examining the use of green intelligent ships and promoting and demonstrating green intelligent technologies in vessels on inland rivers and waterways.

3. Ship energy efficiency technology

CCS was involved in hybrid marine power system Energy Efficiency Design Index (EEDI) research, completing analysis into energy efficiency. It also developed software to calculate diesel engine exhaust pollution. Based on the International Maritime Organization (IMO) greenhouse gas (GHG) reduction objectives, the data is being used by shipping enterprises to support their decision making. CCS also prepared the Rightship GHG rating process, the industry standard of comparing the relative efficiency of the world's shipping fleet, improved the processes rating service and provided technical services for the industry.



► Intelligent technology



CCS formulated rules and guidelines for Specifications on Intelligent Ships, looking at intelligent systems and the application of the technology at its different stages. In addition, it completed a risk assessment framework for maritime autonomous navigating vessels.

Using information gathered from testing, trial voyages and technical research, CCS established the “intelligent anti-collision system test platform of ships” and “ship equipment digital twin research platform”, as well as an “integrated intelligent energy efficiency analysis system” and a ship data quality assessment platform.

CCS tested intelligent navigation and fishing boat identification systems and established guidelines for intelligent water search and rescue robots. A new standard of aquatic lifesaving equipment and the future integration of intelligence was also developed.



► High value-added ships



Plan approval of large luxury cruise ships was carried out, along with ship type research and development on medium-sized luxury cruisers.

CCS completed ship type dR&D on ultra-large membrane-type LNG carriers, seagoing-vessel-into-river membrane-type LNG ships, ultra-large LNG double fuel power-driven container vessels and new double fuel power-driven large bulk cargo ships and ore carriers.

Plan approval of double fuel power-driven VLCC oil tankers was completed, and ships were surveyed.



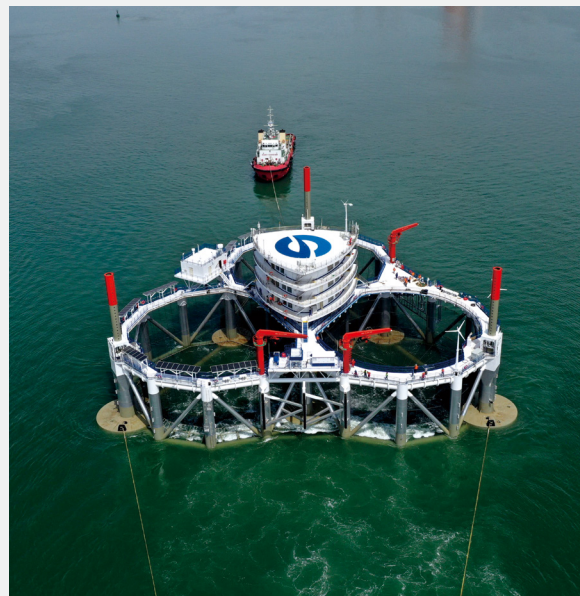
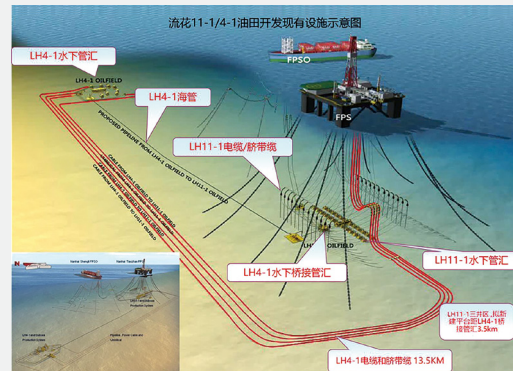
► Offshore engineering technology



In 2020, CCS undertook 22 major R&D and special projects for national ministries and commissions, including the Ministry of Science and Technology and Ministry of Industry and Information Technology. It also prepared six regulations, including *Regulations for the Survey of Mobile Offshore Platforms*. Nine specifications and guidelines were reviewed, for example, the Guidelines for Drilling Compensation Systems. CCS also approved many plans for traditional oil and gas projects and emerging marine equipment as well as special products.

Deepwater technology and capabilities continued to improve. CCS completed the plan approval for a deepwater semi-submersible production platform as well as its independent verification. It analyzed the installation of 330m deep jacket platform and independently verified the cylindrical FPSO. CCS also approved plans for ocean research and exploration vessels and fully anchored semi-submersible platforms.

The marine new economic market reached a new level. CCS undertook third-party plan approval for 31 offshore wind farm substations and acted as technical consultant for eight windfarms. It also carried out plan approval and independent verification of the first offshore floating wind turbine in China, and approved plans for marine aquaculture and marine tourism facilities.



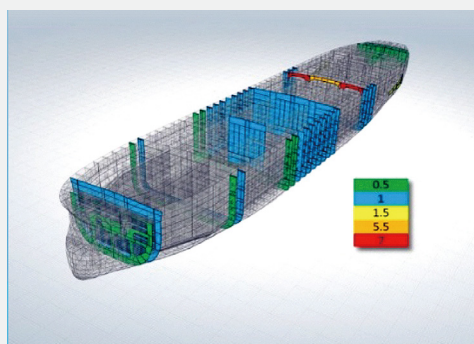
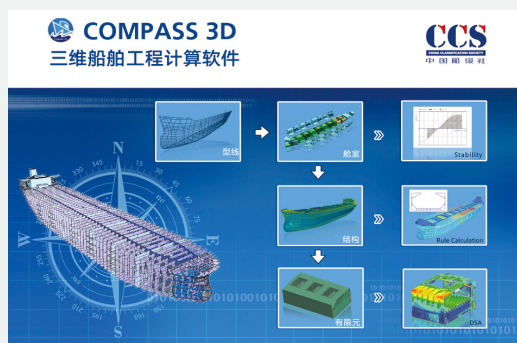
► Engineering software systems



CCS played its part in engineering software development planning, clarifying project objectives and implementation.

It took part in studies looking at the national shipping industry's software system, final assembly manufacturing standards and unified data standards for ship engineering software. It continued to maintain and update engineering software.

A service-oriented approach involved working jointly with customers to meet their challenges. CCS also developed free ship engineering calculation software for small and medium-sized design companies in China and provided online training for the first time.



► Digital information



CCS has promoted further acceleration in the building of the "digital classification society". Together with China Academy of Information and Communications Technology (CAICT), CCS co-initiated the Industrial Internet Innovation Center of Shipbuilding and Ocean Engineering Industry and developed a blockchain data sharing platform, boosting the marketing of digital services.

Its China SCF Center operated well and a CCS Disaster Recovery Centre was built in Guizhou, improving information-based service security. The CCS customer service (CSM) and ship information management (SSMIS) systems were connected to complete "the remote office" and the adoption of Cloud services

Upgrades were carried out on the intelligent office (OA) and main management (MIS) systems. A cloud-based video teaching system based was developed. CCS took part in work on national standards for the industrial Internet and on identification coding rules for the ship and ocean engineering industry.



▶ International standards



CCS actively participated in the work of the International Maritime Organization (IMO) and the International Association of Classification Societies (IACS). Representatives attended international events, following protocols and rules around epidemic prevention and control, including the use of video links. These included the 7th IMO inter-sessional working group meeting on ship greenhouse gas reduction and 81 IACS council meetings.

CCS took the chair of the IACS Autonomous Shipping Vessels expert group and as ongoing chair of the IACS Professional and Expert groups continued to move their work forward.

It joined several new project teams looking at issues including underwater noise and network security and continued to promote the IACS work on unified standards of shore power. CCS completed its term as chair of the EU Accreditation Organization Product Mutual Recognition Technical Committee, winning praise for its efforts during that time.



▶ New survey technology and equipment



1. 5G+ real-time remote ship inspection

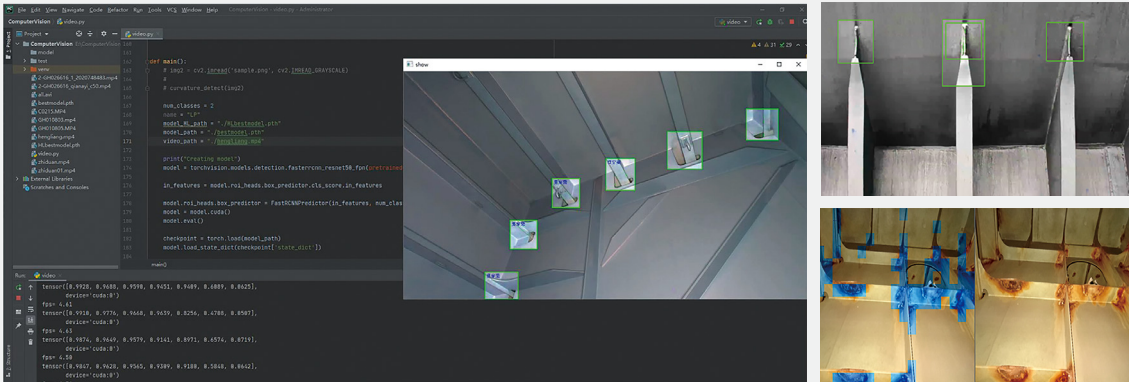
CCS responded quickly to the impact of Covid-19 on the shipping industry, working to use new technology and equipment, including 5G, ad-hoc networks, wearable devices, virtual reality and unmanned aerial vehicles (UAVs), to carry out real-time remote ship inspections. These have been highly effective and adopted by flag countries including Singapore, Liberia and Marshall Islands.

It worked with China Mobile (Zhejiang) to develop the technologies and equipment for use in 5G+ Smart Ship surveys.



2. Image recognition

CCS progressed the use of image recognition technology for use in hull structure inspections and to identify defects. A sample database of typical hull structure nodes and defects was created. Target detection and image enhancement algorithm models were developed.



3. UAVs in ship inspections

CCS has actively promoted the commercial use of intelligent UAVs in ship inspections and issued the first supplier qualification certificate to a UAV service company.



► Specifications/guidelines



● Specifications

Documents	EIF (enter into force, if applicable)
Rule Change Notice For: Rules for Classification of Sea-Going Steel Ships (RCN No.1, March, 2020)	2020.03.15
2020 Amendments to Rules for Classification of Sea-Going Steel Ships	2020.07.01
Rule Change Notice For: Rules for Classification of Sea-Going Steel Ships (RCN No.2, July, 2020)	2020.07.01
Rule Change Notice For: Rules for Classification of Sea-Going Steel Ships (RCN No.3, August, 2020)	2020.08.01
Rule Change Notice For: Rules for Classification of Sea-Going Steel Ships (RCN No.4, December, 2020)	2021.01.01
2020 Amendments to Rules for Materials and Welding	2020.07.01
Rule Change Notice For: Rules for Materials and Welding (RCN No.1, June 2020)	2020.07.01
Rule Change Notice For: Rules for Materials and Welding (RCN No.2, December 2020)	2021.01.01
2020 Amendment Notice for: Rules for Construction and Equipment of Ships Carrying Dangerous Liquid Chemicals in Bulk (2020)	2020.07.01
Rule Change Notice For: Rules for Construction and Equipment of Ships Carrying Dangerous Liquid Chemicals in Bulk (RCN No.1, June, 2020)	2021.01.01
2017 Amendments to Rules for Construction and Equipment of Ships Carrying Liquefied Gases in Bulk	2020.07.01
Rule Change Notice For: Rules for Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (RCN No.1, June, 2020)	2020.06.19
Rule Change Notice For: Rules for Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (RCN No.2, December, 2020)	2021.01.01
Rules for Construction and Classification of Yacht, 2020	2020.07.01
Rules for Ships Using Natural Gas Fuels 2021	2021.01.01
Specifications for LNG Bunkering Pontoon	2021.01.01
RULES FOR GREEN ECO-SHIPS 2020	2020.07.01
Rules for Intelligent Ships, 2020	2020.03.01
Rules for Classification of Mobile Offshore Units, 2020	2020.07.01
Rule Change Notice For: Rules for Classification of Mobile Offshore Units (RCN No.1, 2020)	2020.08.28
Rules for Classification Offshore Floating Installations, 2020	2020.07.01
Rules for Offshore Oil and Gas Process System, 2020	2020.07.01
Rules for Certification of Freight Containers, 2020	2021.01.01
Rule Change Notice For: Rules for Construction of International Sea-going Steel Fishing Vessel (RCN No.1, 2019)	2020.07.01
Rule Change Notice For: Rules for Construction of International Sea-going Steel Fishing Vessel (RCN No.1, 2020)	2021.01.01
Rule Change Notice For: Rules for Construction of International Sea-going Steel Fishing Vessel (RCN No.2, 2020)	2021.07.01
Rules of Inland Waterways Green Ships, 2020	2020.02.01

● 指南

Documents	EIF (enter into force, if applicable)
Guidelines for Preparing Ship Ballast Water Management Plan, 2020	2020.04.10
Guidelines for Condition Assessment Program (CAP) for Existing Ships, 2020	2020.07.01
Guidelines for Type Approval of Ship's Ballast Water Management Systems, 2020	2020.04.10
Guidelines for Certification of Offshore Jacket Structures in Service, 2020	2020.01.01
Guidelines for the Safety of Survey Sites	2020.03.02
Guidelines for Assessment of Sloshing Loads and Structural Scantling of Tanks, 2020	2020.09.01
Guidelines for Inspection of Thick Higher Strength Steel Plates for Ships, 2020	2020.01.01
Guidelines for Direct Strength Analysis of Hull Structure of Ore Carriers, 2020	2020.07.01
Guidelines on Survey and Verification of the Energy Efficiency Design Index (EEDI) of Ships, 2020	2020.12.01
Guidelines for Approval and Survey of Selective Catalytic Reduction (SCR) System, 2020	2021.01.01
Guidelines for Application of Selective Catalytic Reduction System, 2020	2021.01.01
Guidelines for LNG Fuel Bunkering Operation, 2021	2021.01.01
Guidelines on Survey and Certification for Ballast Water Management of ships, 2020	2020.04.10
Guidelines for Surveys of Offshore Wind Farm Facilities' Construction, 2020	2020.03.01
Guidelines for Requirement and Security Assessment of Ship Cyber System, 2020	2020.03.01
Guidelines for Certification of Goal-based Numerical Tank, 2020	2020.07.01
Guidelines for Approval of the Suppliers and Personnel Qualification Management, 2020	2020.07.01
Guidelines for Risk Based Inspection of the Structure for Fixed Jacket Platforms, 2020	2020.01.01
Guidelines to Survey of Solid Ice Passage of Pontoon, 2020	2020.03.01
Guidelines on Maritime Cyber Risk Assessment and Cyber Safety Management System, 2019	2020.02.01
Guidelines to Analysis of Transportation of Large Offshore Structures and Floating Installation, 2020	2020.03.01
Guidelines to Implementation of Inspections of Maritime Labour Conditions, 2020	2020.02.01
Guidelines for DC Distribution System, 2020	2020.05.01
Guidelines for surveys of marine riser systems, 2020	2020.06.01
Guidelines to Quantitative Risk Assessment for Oil and Gas Facilities, 2020	2020.07.01
Guidelines for NOx Emission Test and Inspection of Marine Diesel Engine, 2020	2020.06.15
Guidelines for evaluation and survey of marine rigid wing sails, 2020	2020.07.01
Guidelines for Hull Structure of Woodchip Carriers 2020	2020.07.01
Guidelines for Epidemic Prevention and Control of Ships 2020	2020.08.01
Guidelines for survey of marine air lubrication system, 2020	2020.07.01
Guidelines for Closed Bus-ties Dynamic Positioning System, 2020	2020.09.01
Guidelines for Application of Selective Catalytic Reduction (SCR) System Onboard Ships, 2020	2020.12.01
Guidelines for Drilling Compensation Systems, 2020	2020.12.01
Guidelines for Compliance Survey of Construction and Equipment of Ships Transiting Canals 2020	2020.11.01
Guidelines for Preparation and Implementation of Survey Programme on the Enhanced Programme of Inspections during Surveys, 2020	2021.01.01

Documents	EIF (enter into force, if applicable)
Guidelines for Preparation of Semi- Submersible Vessel Transportation Manual 2020	2020.12.10
Guidelines for The Application of Ultrasonic Leak Detection Technology, 2020	2020.12.15
Guidelines for Monitoring And Evaluation of Cabin Air Quality and Biohazard Factors, 2021	2021.03.01
Guidelines for Survey of Rim Propellers, 2021	2021.03.01
Guidelines for The Application of Environmental Conditions in the Design And Assessment of Offshore Structures, 2021	2021.04.01
Shipboard Electric Wires And Cables	2020.09.24
Circuit Breakers	2020.09.24
Motors	2020.09.24
Generators	2020.09.24
Low Voltage Switchboard	2020.09.24
Uninterruptible Power Systems	2020.09.24
Flammable Gas Detection and Alarm System	2020.09.24
Primary lithium Battery	2020-09-24
Fixed Fire Detection And Fire Alarm System	2020.09.24
Navigational Warning Receivers	2020.01.19
Ship Security Alert System	2020.09.24
Satellite Emergency Position Indicating Radio Beacon	2020.09.24
Launching and Embarkation Appliances	2020.08.27
Lifeboats	2020-08-27
Marine Radar	2020.09.24
Steering Gear Control Systems	2020.01.19
Air Pipe Automatic Closing Devices	2020.01.08
Steel for Anchor Chain Cables and Accessories	2020.11.30
Copper Alloy Propellers	2020.12.08
Mooring Chains and Accessories for Positioning of Offshore Installations	2020.11.30
Guidelines for Survey of Intelligent Equipment	2020.12.10

Services



► Optimizing ship plan approval and survey management for new constructions

Services for new constructions, including inspections, ship plan approval and product collaboration, were further improved. A new management approach to new constructions was also put into action. A standard timescale for plan approval was established.

New constructions included FEN DOU ZHE a 10,000m deep

manned submersible; China's first ship for the transportation of spent nuclear fuel; ultra-large ore carriers; ultra-large and luxury cruise ships; liquefied natural gas carriers and liquefied natural gas powered platform supply vessels.

CCS further provided services for Maersk's 2,200 TEU container vessels and other major projects by overseas shipowners.

► Classified fleet services grew through innovation

CCS successfully took part in the annual review of EU ship carbon dioxide emission monitoring, reporting and verification (MRV). Its double-class ship operation survey service system was improved and the development of electronic record book software recognition service MARPOL was completed.

CCS improved its service of "first, special and new" ship

types, analyzed the operational capacity of large ore carriers, large container vessels, large liquefied natural gas carriers and luxury cruise ships. It also provided technical support for luxury cruise liners operating in China.

An "ad hoc technical support group" for classified ship inspections was formed, and CCS supported research on a number of IACS and IMO technical matters.

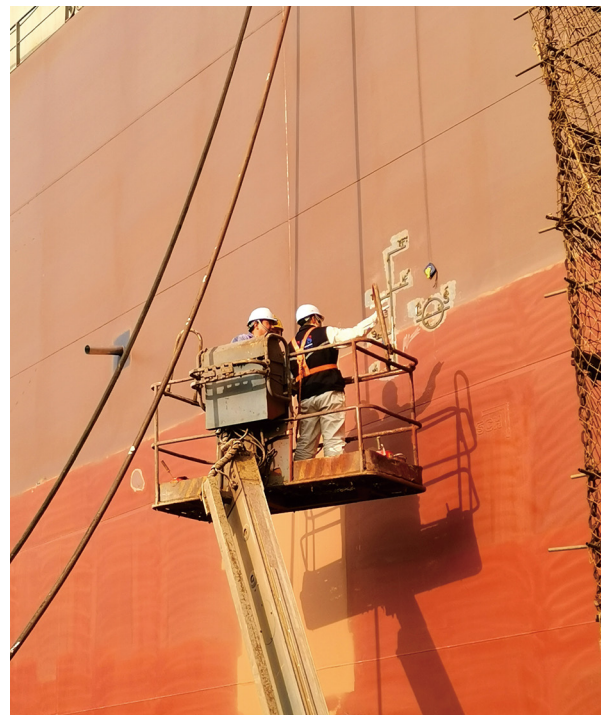
► Safety and quality of domestic vessels remains high

In 2020, the safety and quality of domestic vessels remained at high levels. CCS completed its work to improve the quality of Yangtse River waters and prevent pollution.

It provided free safety and quality management courses for 1,525 small and micro shipping enterprises. A three-year project providing technical assistance in Qinghai Province was also completed.

CCS provided support for the resumption of cruises on the Yangtse River and the return to work of shipping companies in the wake of Covid-19.

Other domestic tasks included preparing the 2020 National Ship Survey Conference, training auditors, increasing support to shipping companies and promoting safety measures, while maintaining its strong record of safety inspections.



▶ Survey services for public security ships updated

Survey services for public security ships were updated. CCS surveyed more than 150 public security ships in 2020, with a package of solutions for ship equipment construction, inspections and technical assessment. CCS signed a memorandum of understanding with the Anti-Smuggling Bureau of General Administration of Customs and the Logistics Support Department of the National Immigration Administration to aid the high-quality development of ship equipment. Coastguard vessels were thoroughly classified, and an initial classification was started for existing ships of the National Immigration Administration.



▶ Product inspection moves forward

CCS re-organised its product survey technical support in 2020, with a focus on research into new products and technologies. Information-based product inspection was accelerated, along with the use of online networks and apps.

CCS achieved 100 per cent electronization of inspection reports, 77 per cent electronization of product certificates and a 30 per cent electronic filing rate for product inspection files. It also worked to aid small and micro businesses.



► Ocean-going fishing vessels see growth

CCS carried out in-service surveys on 1,824 ocean-going fishing vessels in 2020, with initial surveys to 155 ships of 126,000gt. It also completed 153 plan approvals. Ship owners were encouraged to improve safety management and the first safety management system conformity certificate for ocean-going fishing enterprises was issued. CCS also carried out studies on overseas fishery aquaculture facilities. The first ocean-going fishing vessel classified by CCS was completed.



► Offshore engineering grows against the trend

CCS won the tender to work on key technical issues for the Liu Hua 11-1/4-1 deepwater oilfield project. It carried out classification survey services for a cylindrical FPSO (floating, production, storage and offloading) vessel,

deepwater drilling vessel and offshore floating wind turbine. CCS provided complete technical survey services for 98 new facilities, bucking the wider sector trend.

► Industrial development expands

In 2020, CCSI completed 253 supervision consulting projects involving ships and marine engineering, roads and bridges, and port equipment. It carried out testing on 2,290 projects involving ships, roads and bridges and special equipment, and 3,319 surveys on ships and marine engineering.

It successfully tendered to carry out testing on the Canada LNG Core Process Modules Project, CIMC Sinopacific Type-C Fluid Container Project, among others. The Baiyang Lake research vessel and power scheme was completed.

CCSC issued 4,990 new system certificates, 299 product certificates and 715 standardized evaluation certificates of work safety. It surveyed 624,700 containers and completed 162 industrial product inspections and supervision projects, along with 2,201 energy conservation and emission reduction

examination and verification projects.

Continuing to play a leading role in work safety and growing its services, in 2020 CCSC made breakthroughs in rail transit, working on several metro systems, and green data.

DigitalEasy Technology updated 24 new functions of engineering calculation software, established the ship emergency response service (ERS) model and finite element model for 193 ships and maintained the ERS model for 300 vessels.

It provided technical support for users of the ship management system (STEMS) on 597 vessels. The company optimized its organizational structure and developed a VR panoramic cloud platform and 'Ship Data Communication - Electronic Record Book', further enhancing its independent R&D capability.

► Value-added services widely recognised

New services, including EEXI&CII assessment were launched in 2020. Value-added services involving offshore engineering safety assessment and technical consulting, CAP,

ERS, ship cyber security, technical consulting, and RIGHTSHIP GHG rating, also saw growth. Online customer training was delivered to more than 6,000.

International relationships



In a productive year for international exchanges and co-operation, CCS took part in preparation of the Second Global Sustainable Transport Conference and its technical exchanges.

It promoted the signing of cooperation agreement with Indonesian Classification Society and signed a technical and business cooperation memorandum with Brunei Classification Society.

A framework agreement for technical cooperation in marine new energy projects with China Merchants Industrial Holdings Co Ltd and Registro Italiano Navale was also signed.

CCS worked to promote international co-operation under the 'Poseidon Principles', including talks with International Chamber of Shipping (ICS) on further technical cooperation on greenhouse gas reduction and underwater ship noise.

It worked with the relevant authorities in Singapore, Marshall Islands and Liberia to develop and adopt remote surveys and with Finnish businesses on new maritime technologies.

CCS' London Maritime Centre played its role, strengthening communication with the international industry.

CCS successfully served as the chair of EU Accreditation Organisation Quality Assessment and Certification Body (QACE).

Actively participating in IMO work online and offline, CCS submitted 22 proposals - six more than 2019.

China's EEXI proposal was successfully included in the draft amendment to MARPOL, further underlining CCS' technical influence in IACS.

CCS chaired the Environmental Panel, EG/MASS and EG/FSA, and took the lead in formulating criteria for buckling evaluation which has been recognized internationally.

It joined new IACS project teams looking at complex system, underwater noise and network security, and served as manager of the main engine certification and marine engine piping system construction standards project team. CCS also continued to promote work to unify standards of shore power.

Licensing by flag countries

CCS was licensed by the governments of four flag states in 2020: Togo, Brunei, Luxembourg and Denmark Faroe Islands – bringing the total number to 55.

Board of Directors/Committees

On the basis of relevant international and domestic rules, and from a managerial, technical, professional and regional perspective, CCS has formed the board of directors and committees. These represent the interests of all parties and have been created to provide constructive suggestions to CCS' management, technical work and services in an independent, impartial, justified and scientific manner, and to safeguard the interests of all sectors of society.

• China Classification Society board of directors



Honorary President

Liu Xiaoming Party Member & Vice Minister of the Ministry of Transport

President

Mo Jianhui President & Deputy Secretary of CPC of China Classification Society

Vice Presidents

9

Council Members

14

Secretary-general

Liu Fengquan Deputy Director of General Office of China Classification Society (in charge)

• Technical Committee

Chairman of Committee

Mo Jianhui President of China Classification Society

Vice Chairman of Committee

Sun Feng Vice President of China Classification Society
 Li Hongyin Deputy Director General of the Maritime Safety Administration of the Ministry of Transport
 Liu Xinzhong Director General of the Fishery Industry and Fishery Administration Authority of the Ministry of Agriculture and Rural Affairs
 Shi Qiang Assistant Director of the Marine Department of the Hong Kong Special Administrative Region
 Xu Miao General Manager Assistant of China State Shipbuilding Corporation Limited
 Liu Yifan General Manager of Scientific and Technological Information of China Ocean Shipping Corporation Limited
 Hu Xianfu General Manager of China Merchants Industrial Holdings Co., Ltd.
 Wu Jiayi Superintendent Engineer of China Merchants Energy Shipping Co., Ltd.
 Wang Xiaoyong Vice President of Dalian Maritime University
 Shao Shan Deputy Division Chief of Vessel Insurance Division of Shipping and Cargo Insurance Department of PICC Property and Casualty Co., Ltd.

Committee Members

45

Secretary-general

Cui Yuwei Division Chief of Scientific and Technological Information Division of China Classification Society

● Classification Committee

Chairman of Committee

Zhu Kai Vice President & Chief Engineer of China Classification Society

Executive Member

Gu An Deputy Director General of Review Bureau 1 of China Development Bank
 Chen Yan Deputy General Manager of Planning Department of China National Offshore Oil Corporation
 Zhang Shouguo Executive Vice President of China Shipowners' Association
 Zhang Yucheng Executive Vice President of Hebei Ocean Shipping Co., Ltd.
 Gu Jun General Manager of Shanmei Group Taihang Shipping Co., Ltd.
 Gao Zefeng Deputy General Manager of Transportation Finance Department of The Export-Import Bank of China
 Yu Huaiming Division Chief of Business Development Division/Executive Member of China Classification Society
 Zhu Qi Division Chief of Offshore Engineering Division/Executive Member of China Classification Society
 Pu Bing Division Chief of Domestic Operation Division/Executive Member of China Classification Society
 Tao Xin Division Chief of Special Ships Division/Executive Member of China Classification Society

Committee Members 30

Secretary-General

Pan Zhongbing Division Chief of Operation Classification Division of China Classification Society

● Committee in the Beijing-Tianjin-Hebei Region

Chairman

Wang Xiaohai Chairman of Tianjin Xingang Shipbuilding Heavy Industry Co., Ltd.

Committee Members 28

Secretary-General

Xu Jie General Manager of Tianjin Branch of China Classification Society
 Yao Xuecun General Manager of Qinhuangdao Branch of China Classification Society

● Committee in Northeast China

Chairman

Yang Zhizhong Chairman of Dalian Shipbuilding Heavy Industry Group Co., Ltd.

Vice-Chairman

Chen Bin Chairman & General Manager of COSCO Shipping Ferry Co., Ltd.

Committee Members 24

Secretary-general

Zhang Hui General Manager of China Classification Society Dalian Branch

● Committee in Shandong

Chairman

Fu Jian Deputy General Manager of Shandong Shipping Corporation

Vice Chairman

Zhang Guangwei Chief Engineer of China State Shipbuilding Corporation Diesel Engine Co., Ltd.
 Zhou Xiangyang Deputy General Manager of Qingdao Beihai Shipbuilding Industry Co., Ltd. of Wuchang Shipbuilding Industry Group

Committee Members 30

Secretary-general

Zhu Yongshi General Manager of China Classification Society Qingdao Branch

● Committee in Central China

Chairman

Tang Guanjun Director General of ChangJiang River Administration of Navigational Affairs

Committee Members 37

Secretary-general

Wang Zhigang General Manager of China Classification Society Wuhan Branch

● Committee in Southwest China

Chairman

Li Cheng General Manager of CSSC Chongqing Shipbuilding Industry Co., Ltd.

Vice-Chairman

Zhan Li General Manager of Chongqing Changjiang Shipping Corporation

Committee Members 41

Secretary-General

Gu Siyuan General Manager of China Classification Society Chongqing Branch

● Committee in Zhejiang

Chairman

Pan Chaogang Chairman of Zhejiang Shipping Group Co., Ltd.

Vice-Chairman

Zhou Jianhua General Manager of COSCO Shipping Heavy Industry Co., Ltd.
Wu Jie Chairman of Ningbo Zhongce Power Electromechanical Group Co., Ltd.

Committee Members 32

Secretary-general

Cai Yanxian General Manager of China Classification Society Zhejiang Branch

● Committee in Shanghai

Chairman

Weng Yi Safety Director of China Ocean Shipping Corporation Limited

Vice-Chairman

Chen Jianliang Chairman of Hudong Zhonghua Shipbuilding (Group) Co., Ltd.

Committee Members 26

Secretary-General

Meng Lingyi General Manager of China Classification Society Shanghai Branch

● Committee in Jiangsu and Anhui

Chairman

Zhou Bin General Manager of Nanjing Tanker Corporation

Committee Members 32

Secretary-general

Yang Qi General Manager of China Classification Society Jiangsu Branch

● Committee in South China

Chairman

Chen Wei Chairman & General Manager of COSCO Marine Special Transportation Co., Ltd.

Vice-Chairman

Gu Jinsong Chairman & General Manager of COSCO Shipping Bulk Co., Ltd.
Han Guangde Chairman of CSSC Offshore & Marine Engineering (Group) Company Limited

Committee Members 33

Secretary-General

Liang Feng General Manager of China Classification Society Guangzhou Branch

● Committee in Fujian

Chairman

Chen Xinchuan Chairman & General Manager of COSCO Shipping (Xiamen) Co., Ltd.

Vice-Chairman

Li Qingbiao President of Jimei University
Li Xinghu Chairman of Fujian Provincial Communications Transportation Group Co., Ltd.
Zhao Jinjie Chairman of Fujian Shipbuilding Industry Group Company Limited

Committee Members 26

Secretary-general

Zong Dafa General Manager of China Classification Society Fuzhou Branch

● Committee in the Mediterranean Countries

Chairman

George Prokopiou President of PROKOPIOU Group of Companies

Vice Chairman

Economou George President of ECONOMOU Group of Companies
 Frangou Angeliki CEO of NAVIOS Maritime Holdings Inc.
 Diamantidis Diamantis President of DIAMANTIDIS Group of Companies
 Su Zhongyi Managing Director of ERASMOUS Maritime Inc.
 Tsakos Nikolas President of TSAKOS Energy Navigation Ltd.

Committee Members 28

Honorary Chairman

Karnesis Spyros Director of European Product Carriers Ltd.
 Tsakos Panagiotis President of TSAKOS Shipping & Trading S.A.
 Palios Simos President of DIANA Shipping Services S.A.

Secretary-General

Jiping Chen General Manager of CCS Athens Branch

● Committee in Hong Kong

Chairman

Zhu Jianhui Chairman & President of COSCO Shipping
 (Hong Kong) Co., Limited

Committee Members 40

Secretary-general

Tian Dongming General Manager of China Classification
 Society Hong Kong Branch

● Committee in Singapore

Chairman

Anil Singh Chief Operating Officer of
 EASTERN PACIFIC SHIPPING

Committee Members 34

Secretary-general

Jiang Botao General Manager of China
 Classification Society Singapore
 Branch

Chronicle of CCS in 2020

January 9

CCSC issued the country's first intelligent transportation product certificate to Shenzhen Genvict Technologies Co Ltd.

January 16

The 400,000 DWT ultra-large ore carrier (VLOC) YUAN QIAN HAI of CCS was formally delivered, the last of 30 ships in the 400,000 DWT VLOC project delivered successfully. The CCS classified large ore carried fleet is now 65 strong and the largest in the world, solidifying its position as a global leader.

January 29

CCS held a conference on fighting COVID-19 and global PPE supplies. It went on to buy 35,668 items of protective clothing, 11,488 surgical masks, 2,112 pairs of goggles and 62 protective masks for the General Hospital of the Yangtze River Shipping. As the situation in China stabilized it worked to support the international fight against the virus, buying and deploying 14,300 masks, 105 items of protective clothing and 76 pairs of goggles to overseas institutions.

February 1

CCS issued the Announcement of China Classification Society on Continuous Survey Services during Epidemic Prevention and Control. It went on to issues notices and develop services to help the control of COVID-19 and the resumption of work in the shipping, shipbuilding and supporting industries.

February 10

CCS' "unmanned ship system and key equipment technology laboratory" was approved as a key player in transportation research. Verifying and assessing intelligent ship technology it successfully undertook the "China Unmanned Boat Challenge" which was highly praised by the industry.

March 3

CCS set up special teams to manage Covid-19 prevention and control and the return to work.

March 10

CCS successfully qualified in the assessment of IMO and obtained the Fact Statement from IQARB for the first time.

March 27

CCS delivered the first independently developed ship engineering calculation software for small and medium-sized ship design companies, free of charge. It provided more than 400 sets of the software to 228 companies and provided free online training. It also delivered safety and quality management training to 1,525 small shipping businesses over the year.

April 3

CCS, supported by the Ministry of Industry and Information Technology and the International Cooperation Department of the Ministry of Industry and Information, played its role in the IMO issuing *COVID-19 - Guidelines on Unforeseen Delays in Delivery of Ships*. It helped ease the contract fulfilment pressure being felt by the shipbuilding industry in China and safeguarded its interests.



- April 13** CCS signed a memorandum of understanding with the Anti-Smuggling Bureau of General Administration of Customs to jointly advance the construction and management of coastguard vessels.
- April 26** CCS launched its first online customer training service.
- May 6** CCSI completed the Fenghuang Island Floating Treatment Device project, improving CCS' marine engineering technical service capabilities.
- May 15** CCSC signed and issued the first test report on power of complete wind generating set, which was recognized the Mutual Recognition System for Renewable Energy Equipment Certification of International Electrotechnical Commission (IECRE), thus the test lab became the first domestic lab signing and issuing the complete machine test report recognized by IECRE.
- May 15** CCS issued the Cadres Construction Plan of China Classification Society (2020-2025), looking to create conditions for growth and for talent to stand out.
- May 19** CCS held the 5G+intelligent ship survey video conference, and jointly built the "new survey technology and equipment laboratory" base (Zhejiang) with China Mobile. The research team applied 5G, ad-hoc Network communication, image recognition, AR/VR, UAVs and other technological innovations to ship inspections.
- May 20** CCS completed the authentication and survey of the HAI GENG YI HAO demonstration project of deep and open sea fishery aquaculture equipment,
- May 28** CCS issued the Development Outline of China Classification Society (2021-2050), a three stage strategy towards a "government-trusted, industry-satisfied and international advanced" survey institution.
- June 8** CCS tested the rigidity of the first negative pressure isolation room container in China. CCS helped the transformation from "Made in China" to "Intelligently Made in China".
- June 15** CCS issued the Notice of China Classification Society on Printing and Issuing the Implementation Plan of the Three-year Action Plan for the Special Rectification of Work Safety.
- June 19** Ma Qiaoyi, CSS instructing surveyor, was elected as one of the "Top Ten People of the Year in Moving Transportation in 2019".
- June 30** CCS completed its year chairing the EU Accreditation Organisation Product Mutual Recognition Technical Committee, winning praise for its work from the chair of the EURO Product Mutual Recognition Steering Committee, the Mutual Recognition Secretariat and other EURO members.

**July 9**

CCS issued the Safety Guidelines for Epidemic Prevention of Ships. The guidelines look to reduce the risk of infectious disease transmission on board.

July 23

CCS put forward an evaluation index system for world-class classification societies, providing a scientific benchmarking system.

August 4

CCS signed a co-operation framework agreement with China Fishery Mutual Insurance Association.

August 11

The 14th Five-year Science and Technology Development Plan and 2035 Vision of China Classification Society was reviewed and approved. The plans are based on safety and environmental protection, with green and intelligence as main areas and digital services as a new breakthrough.

August 20

CCS jointly sponsored the Shipping Development Summit Seminar and Financial Exchange Conference of Hainan Free Trade Port with the Transportation Department of Hainan Province. CCS issued eight survey measures to facilitate the registration of ships in the port and established the Yacht Service Center of China Classification Society.

September 11

The ship ZHONG HUA FU QIANG, classified by CCS, was delivered. The first vessel in line with the requirements of the Safety Guidelines for Epidemic Prevention of Ships, it was awarded the additional EPC classification mark.

September 21

CCS classified ship survey documents were thoroughly digitised, highlighting that the "digital classification society" is moving into a new stage.

September 22

CMA CGM JACQUES SAADE, the first 23,000TEU double fuel power-driven container vessel in the world, classified by CCS, was delivered, adding a new large container vessel to its fleet.

September 25

CCS signed a memorandum of understanding with the Logistics Support Department of National Immigration Administration.

September 27

CCS signed a strategic co-operation agreement with the Fishery Industry and Fishery Administration Authority of the Ministry of Agriculture and Rural Affairs. Both are committed to modernization and the improvement of ocean-going fishing vessel technology.

October 29

CCSI completed a feasibility study on the clean upgrade and transformation of ships on Baiyang Lake, customized high-end reception vessel selection and a power scheme demonstration project to aid the development of Xiong'an New Area.

October 30

CCS obtained the management system certificate and IACS conformity statement covering ocean-going fishing vessels and maritime transfer vessels for the first time.



- November 3** CCS obtained a utility model patent for "a partial pressure diaphragm system for wind turbine blades".
- November 5** CCS established the "Industrial Internet Innovation Center of Shipbuilding and Ocean Engineering Industry" with CAICT.
- November 5** CCS cooperated with the Health Association of Chinese Center for Disease Control and Prevention, and China Building Materials Market Association, on solutions to the global impact of COVID-19 in the shipping industry and issued technical requirements to ensure the safety and physical health of seafarers.
- November 9** CCS was licensed by a 4th flag country this year. So far, the total number of licensing by flag countries has reached 55 – a rise 20 compared to the end of its "12th Five-year Plan".
- November 12** The 320,000 DWT ultra-large oil tanker (VLCC) YUANGUIYANG, classified by CCS, was delivered. It brought the number of VLCC ships classified by CCS to 95 (15.23 million GT). The CCS fleet is ranked fourth in the world with a global market share of 11 per cent.
- November 14** CCS completed the survey of LINGSHUI 17-2 FPSO, the world's first deepwater semi-submersible production and oil storage platform as it continued to build its high-end deepwater service capabilities.
- November 24** The first Chinese ocean-going fishing vessel, ZHONG TAI 6, classified by CCS, was successfully delivered.
- November 30** Eight "safe transportation" innovation cases reported by CCS were recommended by the Security Committee of the Ministry of Transport. Among them, Special Work for Improving the Safety and Quality in the Full Life Cycle of Domestic Ships and Ocean Fishing Vessels was specially recommended.
- December 9** China's first spent nuclear fuel carrier, XIN AN JI XIANG, classified by CCS, was delivered in Shanghai. It is a new ship type for the CCS fleet.
- December 15** CCS completed its work to improve the quality of Yangtze River waters and prevent pollution, implementing the instructions of General Secretary Xi Jinping on "stepping up conservation of the Yangtze River and stopping its over development".
- December 24** The IACS General Policy Group approved Common Structural Rules on Buckling. CCS' buckling assessment technology is internationally advanced and recognized globally.
- December 31** CCS implemented the pilot of building a country with strong transportation network as requested by the Ministry of Transport, and proposed 23 pilot tasks, which were approved by the Ministry of Transport, in 6 aspects, i.e. innovating the ship survey mode, strengthening the R&D of technologies and standards,



intensifying the capacity building in scientific research and experiments, building the digital ship survey, giving play to the role of main force and enhancing the capacities for international cooperation and transport security. It becomes one of the third-batch pilot units for the construction of country with strong transportation network.

December 31

CCS completed its preparation of the Action Plan for Building the World-class China Classification Society,

December 31

CCS finished its three-year local ship inspection project in Qinghai Province, helping water safety and environmental protection.

December 31

CCS yearly revenue, including its overseas companies, hit a new high. Growth continued despite the challenges of Covid-19 at home and overseas.







This report has been printed on environmentally friendly paper.

Annual Report 2020

CHINA CLASSIFICATION SOCIETY



CCS Mansion, 9 Dongzhimen Nan Da Jie, Beijing 100007, China

Tel: +86 10 5811 2288 Fax: +86 10 5811 2811

www.ccs.org.cn