

2015 2016 2017 2018 2019

Environment

Oil and oil products spills (m³)	71,6	51,9	35,84	18,47	415,34
Greenhouse gas emissions (million metric tCO ₂ e)	78	66	67	62	59
Emissions of carbon dioxide - CO ₂ (million metric tons)	74	62	63	58	55
Emissions of methane - CH ₄ (thousand metric tons)	150	145	133	127	130
Emissions of nitrous oxide - N ₂ O (metric tons)	2.332	1.820	1.761	1.629	1.514
Atmospheric emissions - Nox (thousand metric tons)	267	235	281	239	217
Atmospheric emissions - Sox (thousand metric tons)	120	131	135	139	138
Particulate material (thousand metric tons)	19	15	15	14	13
Freshwater withdrawn (million m³)	213,3	191,6	177,7	182,3	156,9
Reuse in proportion to the total freshwater used (%)	10	11,5	12,5	31,5	34,4
Freshwater demand [withdrawn + reused] (million m³)	236,9	216,4	203,1	266,3	239,1
Reused water (million m³)	23,6	24,8	25,4	84,0*	82,2*
Discharge of water effluents (million of m³)	277,1	281,8	293,2	289,1	271,6
- Superficial Water Bodies	270,7	274,8	285,1	276,2	269,1
- Underground Water Bodies	3,2	1,1	0,4	3,9	1,7
- Utility Supplier or Third Party Companies	3,2	5,8	7,7	9,0	0,9
Hazardous waste generated (thousand metric tons/year)	192	132	113	120	118
Non-Hazardous waste generated (thousand metric tons/year)	319	210	153	158	245
Scope 1 emissions - operational control					
Scope 2 emissions - operational control					
Scope 3 emissions (tons CO ₂ e)	527	460	437	412	400
Unused hydrocarbons (million of m³) - burn on flare	2.894	2.998	2.924	3.071	2.717
Unused hydrocarbons (million of m³) - dispatched into the atmosphere	72,0	60,3	49,3	52,5	57,4
Carbon Intensity in E&P (KgCO ₂ e/boe)			21		17,3
Carbon Intensity in Refining Segment (KgCO ₂ e/CWT)			43		42,5
Energy consumption (terajoule - TJ)	1.115.185	899.487	947.645	852.600	840.400
- Diesel	79.648	57.672	61.948	50.643	50.258
- Fuel Oil	59.415	75.342	51.106	31.349	19.425
- Natural Gas	719.597	550.027	641.530	573.330	576.787
- Fuel Gas	124.596	100.560	86.150	85.170	83.823
- Residual Gas	17.990	11.488	16.612	17.330	18.574
- Liquefied Petroleum Gas (LPG)	1.254	147	1.130	286	109
- FCC Coke	69.161	61.755	67.715	59.779	58.782
- Other	3.114	3.066	8	-	-
- Imported steam	28.256	26.870	1.852	20.123	20.886
- Imported electricity	18.382	18.693	19.593	14.589	11.756

Safety and Health

Occupational Health and Safety

Fatalities	16	3	7	6	2
Lost Time Injury Frequency Rate (TFCA)	0,76	0,59	0,58	0,57	0,48
- Lost Time Injury Frequency Rate (TFCA) - Employees		0,47	0,6	0,61	0,62
- Lost Time Injury Frequency Rate (TFCA) - Contractors		1,81	1,18	1,08	0,78
Total Recordable Injuries Rate (TRI)	2,15	1,63	1,08	1,01	0,76
- Total Recordable Injuries Rate (TRI) - Employees		1,09	0,81	0,82	0,71
- Total Recordable Injuries Rate (TRI) - Contractors		1,81	1,18	1,08	0,78
Occupational disease Frequency Rate (TIDO) - Employees		0	0,02	0,02	0
Average work related days lost per employee		0,19	0,23	0,18	0,15

Process Safety

Number of Process Safety Anomalies (Nasp Tier 1)	51	24	27	24	23
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Contributions to Society

Investments in socio-environmental projects (million BRL)	271	120	60	87	116
Investments in cultural projects (million BRL)	139	71	61	38,3	37,3
Investments in sport projects (million BRL)	86	50	21	79,7	70,9
Taxes paid (Bilion BRL)		85,8	101,3	145,3	206,8
Dividends per share (US\$) - PETR3	0	0	0	0,07	0,18
Dividends por share (US\$) - PETR4	0	0	0	0,24	0,23

People

Employees	56.874	51.255	46.979	47.556	46.416
Gender					
- Female	9.130	8.296	7.611	7.767	7.583
- Male	47.744	42.959	39.368	39.789	38.833
Ethnics					
- White	29875	27334	25.325	25.719	25.239
- Brown	12730	11495	10.585	10.878	10.686
- Black	2785	2564	2.390	2.486	2.455
- Yellow	754	705	647	656	648
- Indigenous	175	147	123	121	116
- Not stated	10555	9010	7.909	7.696	7.272
Idade					
- Up to 30 years	7.364	5.924	4.241	3.487	2.482
- 31 to 40	18.653	18.896	18.669	18.388	17.716
- 41 to 50	11.757	11.087	11.024	11.572	12.249
- 51 to 60	17.022	13.832	11.820	12.486	12.056
- 61 or more	2.078	1.516	1.225	1.623	1.913

*Since 2018, due to the revision of the corporate indicator "Reused Water Volume", we started to consider for the reinjected volume of water produced for secondary recovery of oil and gas in onshore fields.