



OFFSHORE

ENERGY. COMMITTED.

ANNUAL REPORT 2020

4.10.2 ENVIRONMENT

| | Year to Year | | 2020 - Regional Breakdown | | | | |
|----------------------------------------------------------------|-------------------|-------------------|---------------------------|-------------------|---------------------------|--------------------------|---------------|
| | 2020 | 2019 (revised) | Brazil | Angola | North America & Caribbean | Asia & Equatorial Guinea | Europe |
| Number of offshore units (vessels) | 13 | 12 | 7 | 3 | 1 | 2 | - |
| SBM Offshore Production | | | | | | | |
| Hydrocarbon Production (tonnes) | 46,987,495 | 47,492,381 | 33,431,698 | 6,825,727 | 4,114,800 | 2,615,269 | - |
| Energy Consumption | | | | | | | |
| Total Energy Consumption¹ | 63,161,957 | 60,762,908 | 39,216,434 | 12,733,608 | 3,645,868 | 7,551,095 | 14,953 |
| Offshore Energy Consumption | 63,133,658 | 60,720,811 | 39,215,603 | 12,733,252 | 3,636,908 | 7,547,894 | - |
| Onshore Energy Consumption | 28,300 | 42,097 | 831 | 355 | 8,960 | 3,201 | 14,953 |
| Offshore Energy consumption per production ² | 1.34 | 1.28 | 1.17 | 1.87 | 0.88 | 2.89 | - |
| Emissions – Offshore | | | | | | | |
| GHG Scope 1 | | | | | | | |
| Carbon dioxide (CO ₂ in tonnes) | 5,248,326 | 5,100,732 | 2,372,705 | 1,247,923 | 947,604 | 680,095 | - |
| Methane (CH ₄ in tonnes) | 12,844 | 11,818 | 2,104 | 3,725 | 5,221 | 1,793 | - |
| Nitrous oxide (N ₂ O in tonnes) | 311 | 304 | 169 | 69 | 33 | 40 | - |
| Emissions – Onshore | | | | | | | |
| GHG Scope 1 ³ | 165 | 233 | | | 0.7 | | 164 |
| GHG Scope 2 (location based) ³ | 2,516 | 3,429 | 32 | 39 | 1,200 | 530 | 715 |
| GHG Scope 2 (market based) | 588 | 510 | 32 | 39 | 49 | 446 | 23 |
| GHG Scope 3 - Air travel ⁴ | 8,231 | 27,742 | 2,851 | n.a. ⁵ | 426 | 198 | 4,755 |
| Flaring | | | | | | | |
| Total Gas Flared per production ⁶ | 14.08 | 12.77 | 2.48 | 28.82 | 70.09 | 35.71 | - |
| Gas Flared on SBM Offshore account per production ⁶ | 6.32 | 4.30 | 1.99 | 7.96 | 40.53 | 3.69 | - |
| Proportion of Gas Flared on SBM Offshore account | 44.9% | 33.7% | 80.1% | 27.6% | 57.8% | 10.3% | - |
| Other/Air Pollution – Non Greenhouse Gas Emissions | | | | | | | |
| Carbon monoxide (CO in tonnes) | 7,601 | 7,095 | 2,606 | 1,938 | 2,041 | 1,016 | - |
| Nitrogen oxides (NOx in tonnes) | 7,710 | 7,384 | 4,473 | 1,571 | 639 | 1,027 | - |
| Sulphur dioxides (SO ₂ in tonnes) | 142 | 137 | 56 | 17 | 25 | 43 | - |
| Volatile organic compounds (VOCs in tonnes) | 1,372 | 1,259 | 195 | 402 | 580 | 195 | - |
| Emissions – (Offshore+Onshore) | | | | | | | |
| Volume of GHG (CO₂ eq. in tonnes) | 5,671,147 | 5,515,367 | 2,478,549 | 1,361,803 | 1,088,514 | 737,337 | 4,942 |
| Offshore GHG emissions (operational control) | 5,662,163 | 5,486,881 | 2,475,667 | 1,361,765 | 1,088,038 | 736,694 | - |
| Offshore GHG emissions (equity share in tonnes) ⁷ | 3,864,477 | 3,301,828 | 1,705,433 | 680,882 | 1,088,038 | 390,122 | - |
| Onshore GHG emissions (offices + airtravel in tonnes) | 8,984 | 28,486 | 2,883 | 39 | 476 | 644 | 4,942 |
| Offshore GHG emissions per production ⁸ | 120.50 | 115.53 | 74.05 | 199.50 | 264.42 | 281.69 | - |
| Discharges | | | | | | | |
| Quantity of oil in produced water discharges ⁹ | 5.09 | 5.77 | 0.76 | 12.34 | 0.47 | 48.88 | - |

1 GJ = gigajoule, energy from fuel gas and marine gas oil

2 Gigajoule per tonnes of hydrocarbon production

3 Tonnes of CO₂ equivalents

4 Split per region is based on Travel agencies

5 Emissions related to flights are reported in the other regions

6 Tonnes of gas flared per thousand tonnes of hydrocarbon production

7 Equity share of operational control scope

8 Tonnes of GHG emissions per thousand tonnes of HC production

9 Tonnes of oil discharged to sea per million tonnes of hydrocarbon production