



2023 ANNUAL REPORT

BM
OFFSHORE



5.3.2 ENVIRONMENT

	Year to Year		2023 – Regional Breakdown				
	2023	2022	Brazil	Angola	North America & Caribbean	Asia & Equatorial Guinea	Europe
Number of offshore units (vessels)	15	14	6	3	4	2	
Fleet Production							
Hydrocarbon Production (tonnes)	57,762,768	51,956,883	28,894,992	5,250,770	21,594,240	2,022,767	
Scope 1 Emissions¹							
GHG Scope 1 (tonnes of CO ₂ Eq)	489	537	-	34.19	-	-	454.52
Scope 2 Emissions¹							
GHG Scope 2 (location based) (tonnes of CO ₂ Eq)	1,811	2,039	78	253	419	542	519
GHG Scope 2 (market based) (tonnes of CO ₂ Eq)	1,257	1,351	22	253	419	524	39
Scope 3 Emissions							
Scope 3 – Downstream Leased Assets							
Total Carbon dioxide (CO ₂ in tonnes)	5,332,324	5,276,289	2,249,283	1,242,863	1,284,856	555,322	
Total Methane (CH ₄ in tonnes)	10,414	10,191	2,438.29	4,637.38	2,238.67	1,100.14	
Total Nitrous oxide (N ₂ O in tonnes)	340	337	159	62	84	35	
Total GHG emissions Downstream Leased Assets (tonnes of CO₂ Eq)²	5,715,701	5,652,555	2,360,695	1,389,138	1,370,225	595,643	
Total GHG Emissions per Hydrocarbon Production ³	98.95	108.79	81.7	264.56	65.65	294.47	
<i>Other / Air Pollution – Non Greenhouse Gas Emissions (in tonnes)</i>							
<i>Carbon monoxide (CO in tonnes)</i>	7,300	7,139	2,600.23	2,182.03	1,766.34	751.65	
<i>Nitrogen oxides (NOx in tonnes)</i>	9,006	8,840	4,150.07	1,444.52	2,509.40	901.77	
<i>Sulphur dioxides (SO₂ in tonnes)</i>	164	218	36.17	42.59	68.26	16.72	
<i>Volatile organic compounds (VOCs in tonnes)</i>	1,096	1,071	233.80	506.95	239.52	115.42	
Scope 3 – Purchased Goods & Service⁴	179,822	356,056					
Scope 3 – Business Travel⁵	30,596	22,927	9,472			1,665	19,459
Total GHG Emissions⁴	5,927,865	6,033,426	2,370,188	1,389,425	1,370,645	597,832	19,952
GHG Emissions Intensity (Production)⁶	98.95	108.79	81.70	264.56	65.65	294.47	
GHG Emissions Intensity (Financial)⁷	1,194	1,228					
Flaring							
Total Gas Flared per hydrocarbon production ⁸	9.00	9.71	3.59	47.46	5.19	27.07	
Flaring emissions vs Total Emissions	30%	30%	6%	14%	3%	6%	

1 Due to new information and improved data quality, 2022 values for Scope 1 and Scope 2 have changed.

2 FPSO Liza Unity was sold to ExxonMobil on November 9, 2023. From that date on, its emissions are excluded from Scope 3 – Downstream Leased Assets. Furthermore, this value does not include emissions from the Normand Installer Installation vessel. Details on the impact and follow up are explained in section 5.2.2.

3 Tonnes of CO₂ Eq/1,000 tonnes HC production.

4 Tonnes of CO₂ Eq.

5 Tonnes of CO₂ Eq. Split per region is based on travel agency sources. Due to data aggregation in these sources, some regional data has been consolidated under region 'Europe'.

6 Tonnes of CO₂ Eq/1,000 tonnes of Hydrocarbon.

7 Tonnes of CO₂ Eq/US\$ million revenue.

8 Tonnes/1,000 Tonnes HC Production.

5 ESG INFORMATION

	Year to Year		2023 – Regional Breakdown				
	2023	2022	Brazil	Angola	North America & Caribbean	Asia & Equatorial Guinea	Europe
Energy							
Offshore Energy Processed (1) (GJ)	64,291,224	62,399,131	31,817,130	8,738,887	17,313,290	6,421,917	
Offshore Energy Processed (1) (MWh)	17,858,673	17,333,092	8,838,092	2,427,469	4,809,247	1,783,866	
Onshore Energy Consumed (2) (GJ) ¹	27,821	31,182	1,863	2,596	2,278	3,598	17,487
Onshore Energy Consumed (2) (MWh)	7,728	8,662	517	721	633	999	4,857
- o.w. on renewable energy contracts	2,926	3,904	371			41	2,514
Self generated renewable energy (MWh)	201	-					
Offshore Energy Processed (Intensity) ²	3,598	3,528					
Onshore Energy Consumed (Intensity) ²	1.56	1.76					
Total Energy Processed & Consumed (1) + (2) (GJ)	64,319,045	62,430,313	31,818,993	8,741,483	17,315,568	6,425,515	17,487
Offshore Energy per production (GJ per tonne of HC production)	1.11	1.20	1.10	1.66	0.83	3.17	
Discharges							
Quantity of oil in produced water discharges ³	3.79	3.44	2.13	8.59	0.86	46.84	

1 Due to new information and improved data quality, 2022 values for Onshore Energy consumption have changed.

2 MWh/US\$ million Revenue.

3 Tonnes of Oil in Produced Water/10⁶ Tonnes HC Production.

5.3.3 HUMAN RESOURCES

Headcount by Direct Hire and by Contractor

	Headcount	Total		Ratios	
		Direct Hire	Contractor	% of Global Headcount	% of Contractors
Africa	878	750	128	12%	15%
Asia	1,744	1,152	592	24%	34%
Europe	2,117	1,770	347	29%	16%
North America	35	32	3	0%	9%
South America	2,642	2,231	411	36%	16%
Grand Total	7,416	5,935	1,481	100%	20% ¹

1 % of Contractors as part of Global Headcount.

Direct Hire by employee contract and employee type

	Permanent Male Employees	Permanent Female Employees	Temporary Male Employees	Temporary Female Employees	Part-Time Male Employees	Part-Time Female Employees	% of Part-Time Employees
	Africa	672	75	2	1	0	0
Asia	922	179	32	19	1	0	0%
Europe	1,200	518	37	15	46	60	6%
North America	25	7	0	0	0	0	0%
South America	1,774	345	58	54	4	5	0%
Grand Total	4,593	1,124	129	89	51	65	2% ¹

1 % of Part-Time Employees as part of Global Headcount.