

2017

ANNUAL REPORT



EXPERIENCE MATTERS

5 NON-FINANCIAL DATA

5.2.2 ENVIRONMENT

Emissions & Energy

	Year to Year		2017 – Regional Breakdown			
	2017	2016 ¹	Brazil	Angola	North America & Equatorial Guinea	Asia
Number of offshore units (vessels)	14	14	7	3	3	1
SBM Offshore Production						
Hydrocarbon Production (tonnes)	55,914,824	44,621,370	41,338,878	10,988,770	3,388,428	198,749
Energy Consumption						
Offshore Energy Consumption – Scope 1 in GJ ²	62,746,663	55,486,649	40,358,799	16,304,135	6,027,049	56,679
Offshore Energy consumption per production ³	1.12	1.24	0.98	1.48	1.78	0.29
Onshore Energy Consumption – Scope 1 + Scope 2 in GJ ²	35,110	36,930				
Total Energy Consumption – Scope 1 + Scope 2 in GJ²	62,781,772	55,523,579				
Emissions – Offshore						
GHG Scope 1						
Carbon dioxide (CO ₂) in tonnes	5,193,405	5,766,556	2,621,690	2,147,172	420,539	4,004
Methane (CH ₄) in tonnes	11,917	18,351	2,976	8,319	623	0
Nitrous oxide (N ₂ O) in tonnes	314	309	181	105	28	0
Volume of GHG⁴	5,584,850	6,317,413	2,749,961	2,386,329	444,474	4,087
GHG per production offshore – Scope 1⁵	99.88	141.58	66.52	217.16	130.11	20.56
Flaring						
Total Gas Flared per production ⁶	10.92	21.70	3.19	40.86	8.81	NA
Gas Flared on SBM account per production ⁶	5.68	n.a. ⁷	2.95	16.82	3.25	NA
Proportion of Gas Flared on SBM account	52%	n.a. ⁷	93%	41%	37%	NA
Other/Air Pollution – Non Greenhouse Gas Emissions						
Carbon monoxide (CO) in tonnes	7,220	9,583	2,917	3,805	498	1
Nitrogen oxides (NO _x)	7,578	7,917	4,549	2,255	762	12
Sulphur dioxides (SO ₂)	7,735	12,691	53	38	7,639	5
Volatile organic compounds (VOCs)	1,268	1,988	292	909	66	0

¹ This information contains several data revisions compared to previous years. Details of these revisions can be found in section 5.1.6.

² GJ = gigajoule

³ gigajoule of energy per tonnes of hydrocarbon production

⁴ GHG = Greenhouse Gas Emissions; in tonnes of CO₂ equivalents

⁵ tonnes of Greenhouse Gas Emissions per thousand tonnes of hydrocarbon production

⁶ tonnes of gas flared per thousand tonnes of hydrocarbon production

⁷ Not available due to change in methodology see section 5.1.6 for details.

Emissions & Energy (continued)

	Year to Year		2017 – Regional Breakdown			
	2017	2016 Revised ¹	Brazil	Angola	North America & Equatorial Guinea	Asia
Emissions – Onshore (Buildings)						
Renewable Energy Generated ²	96,917	86,680				
GHG – Scope 1 (from buildings)						
Onshore Scope 1 energy consumption ²	1,025,112	1,003,712				
Onshore Scope 1 emissions ³	232	222				
GHG – Scope 2 (from buildings)						
Onshore Scope 2 energy consumption ²	8,727,549	9,254,492				
Onshore Scope 2 emissions ³	3,608	3,582				
GHG – Scope 3 (from air travel)						
Air travel emissions	12,343	12,916				
Emissions Total (Onshore + Offshore)						
Total Scope 1 Emissions ³	5,585,083	6,317,635				
Total Scope 2 Emissions ³	3,608	3,582				
Total Scope 3 Emissions ³	12,343	12,916				
Total Emissions (Scope 1 + Scope 2 + Scope 3)³	5,601,034	6,334,134				

¹ This information contains several data revisions compared to previous years. Details of these revisions can be found in section 5.1.6.

² kWh

³ tonnes of CO₂ equivalents

Discharges

	Year to Year		2017 – Regional Breakdown			
	2017	2016	Brazil	Angola	North America & Equatorial Guinea	Asia
Number of offshore units (vessels)	14	14	7	3	3	1
Discharges						
Volume of oil in produced water discharges per million tonnes of hydrocarbon production	2.55	2.59	0.87	7.03	8.59	NA
Spills						
Spills (oil and chemicals) with release to sea (number)	13	6	8	3	2	-
Oil spills with release to sea (number)	12	6	8	3	1	-
Volume of Oil spills (m ³)	0.006	0.011	0.00215	0.00325	0.0001	-
Number of Oil spills > 1 barrel (159 L)	-	-	-	-	-	-
Number of Oil spills > 1 barrel (159 L) per million tonnes of hydrocarbon production	-	-	-	-	-	-
Waste						
Restricted Waste (kg)	2,706,168	1,471,474	1,518,653	74,920	1,105,068	7,527
Non Restricted Waste (kg)	1,573,654	1,305,163	969,841	257,310	280,910	65,593
Total Waste (kg)	4,279,822	2,776,637	2,488,494	332,230	1,385,978	73,120

5 NON-FINANCIAL DATA

5.2.3 HUMAN RESOURCES

Headcount by Employee Type

	Total			Ratios
	Grand Total	Permanent	Contractor	% of Contractor Employees
SBM USA	235	229	6	3%
SBM – Malaysia	316	233	83	26%
SBM – Brazil	113	113	0	0%
SBM – Europe	734	679	55	7%
SBM – Schiedam	232	220	12	5%
SBM – Monaco	410	372	38	9%
Imodco	92	87	5	5%
SBM – Operations	2,381	1,882	499	21%
SBM – Headquarters	190	167	23	12%
SBM – Operations Brazil	1,152	1,019	133	12%
SBM – Operations Asia & Africa	109	71	38	35%
SBM – Operations Angola	461	401	60	13%
SBM – Operations North America	469	224	245	52%
SBM – Gas, Power & Renewables	13	13	0	0%
SBM – FPSO	69	69	0	0%
SBM – Group Executive Functions	114	87	27	24%
SBM – Shared Services	97	96	1	1%
SBM – Corporate	215	212	3	1%
Total	4,287	3,613	674	16%
Construction Yards (Brasa & Paenal)	523	513	10	2%
Grand Total	4,810	4,126	684	14%

Permanent Employees Headcount by Location

