

# 2017

## ANNUAL REPORT



**EXPERIENCE MATTERS**



## 5 NON-FINANCIAL DATA

### 5.2.2 ENVIRONMENT

#### Emissions & Energy

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

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

<sup>2</sup> GJ = gigajoule

<sup>3</sup> gigajoule of energy per tonnes of hydrocarbon production

<sup>4</sup> GHG = Greenhouse Gas Emissions; in tonnes of CO<sub>2</sub> equivalents

<sup>5</sup> tonnes of Greenhouse Gas Emissions per thousand tonnes of hydrocarbon production

<sup>6</sup> tonnes of gas flared per thousand tonnes of hydrocarbon production

<sup>7</sup> 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 <sup>1</sup>	Brazil	Angola	North America & Equatorial Guinea	Asia
<b>Emissions – Onshore (Buildings)</b>						
Renewable Energy Generated <sup>2</sup>	96,917	86,680				
<b>GHG – Scope 1 (from buildings)</b>						
Onshore Scope 1 energy consumption <sup>2</sup>	1,025,112	1,003,712				
Onshore Scope 1 emissions <sup>3</sup>	232	222				
<b>GHG – Scope 2 (from buildings)</b>						
Onshore Scope 2 energy consumption <sup>2</sup>	8,727,549	9,254,492				
Onshore Scope 2 emissions <sup>3</sup>	3,608	3,582				
<b>GHG – Scope 3 (from air travel)</b>						
Air travel emissions	12,343	12,916				
<b>Emissions Total (Onshore + Offshore)</b>						
Total Scope 1 Emissions <sup>3</sup>	5,585,083	6,317,635				
Total Scope 2 Emissions <sup>3</sup>	3,608	3,582				
Total Scope 3 Emissions <sup>3</sup>	12,343	12,916				
<b>Total Emissions (Scope 1 + Scope 2 + Scope 3)<sup>3</sup></b>	<b>5,601,034</b>	<b>6,334,134</b>				

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

<sup>2</sup> kWh

<sup>3</sup> tonnes of CO<sub>2</sub> 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
<b>Discharges</b>						
Volume of oil in produced water discharges per million tonnes of hydrocarbon production	2.55	2.59	0.87	7.03	8.59	NA
<b>Spills</b>						
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 <sup>3</sup> )	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	-	-	-	-	-	-
<b>Waste</b>						
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
<b>Total Waste (kg)</b>	<b>4,279,822</b>	<b>2,776,637</b>	<b>2,488,494</b>	<b>332,230</b>	<b>1,385,978</b>	<b>73,120</b>

## 5 NON-FINANCIAL DATA

### 5.2.3 HUMAN RESOURCES

Headcount by Employee Type

	Grand Total	Total		Ratios
		Permanent	Contractor	% of Contractor Employees
<b>SBM USA</b>	<b>235</b>	<b>229</b>	<b>6</b>	<b>3%</b>
<b>SBM – Malaysia</b>	<b>316</b>	<b>233</b>	<b>83</b>	<b>26%</b>
<b>SBM – Brazil</b>	<b>113</b>	<b>113</b>	<b>0</b>	<b>0%</b>
<b>SBM – Europe</b>	<b>734</b>	<b>679</b>	<b>55</b>	<b>7%</b>
SBM – Schiedam	232	220	12	5%
SBM – Monaco	410	372	38	9%
Imodco	92	87	5	5%
<b>SBM – Operations</b>	<b>2,381</b>	<b>1,882</b>	<b>499</b>	<b>21%</b>
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%
<b>SBM – Gas, Power &amp; Renewables</b>	<b>13</b>	<b>13</b>	<b>0</b>	<b>0%</b>
<b>SBM – FPSO</b>	<b>69</b>	<b>69</b>	<b>0</b>	<b>0%</b>
<b>SBM – Group Executive Functions</b>	<b>114</b>	<b>87</b>	<b>27</b>	<b>24%</b>
<b>SBM – Shared Services</b>	<b>97</b>	<b>96</b>	<b>1</b>	<b>1%</b>
<b>SBM – Corporate</b>	<b>215</b>	<b>212</b>	<b>3</b>	<b>1%</b>
<b>Total</b>	<b>4,287</b>	<b>3,613</b>	<b>674</b>	<b>16%</b>
<b>Construction Yards (Brasa &amp; Paenal)</b>	<b>523</b>	<b>513</b>	<b>10</b>	<b>2%</b>
<b>Grand Total</b>	<b>4,810</b>	<b>4,126</b>	<b>684</b>	<b>14%</b>

Permanent Employees Headcount by Location

