



EXPERIENCE **MATTERS**

**2016**

ANNUAL REPORT

## 6 NON-FINANCIAL DATA

### 6.2 NON-FINANCIAL INDICATORS

#### 6.2.1 HEALTH, SAFETY & SECURITY

##### Health, Safety & Security

	Year to Year		2016 – By Operating Segment	
	2016	2015	Offshore	Onshore
<b>Exposure Hours</b>				
Employee <sup>1</sup>	13,117,798	13,350,444	8,328,116	4,789,682
Contractor <sup>2</sup>	1,516,282	18,012,789	0	1,516,282
<b>Total Exposure hours</b>	<b>14,634,080</b>	<b>31,363,233</b>	<b>8,328,116</b>	<b>6,305,964</b>
<b>Fatalities (work related)</b>				
Employee	0	0	0	0
Contractor	0	0	0	0
<b>Total Fatalities</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Injuries</b>				
Lost Time Injury Frequency Rate Employee	0.12	0.03	0.19	0.00
Lost Time Injury Frequency Rate Contractor	0.00	0.02	0.00	0.00
<b>Lost Time Injury Frequency Rate (Total)<sup>3</sup></b>	<b>0.11</b>	<b>0.03</b>	<b>0.19</b>	<b>0.00</b>
Total Recordable Injury Frequency Rate Employee	0.34	0.34	0.50	0.04
Total Recordable Injury Frequency Rate Contractor	0.13	0.13	0.00	0.13
<b>Total Recordable Injury Frequency Rate (Total)<sup>4</sup></b>	<b>0.31</b>	<b>0.22</b>	<b>0.50</b>	<b>0.06</b>
<b>Occupational Illnesses</b>				
Employee	7	0	5	2
Contractor	5	4	0	5
<b>Total recordable Occupational Illness Frequency Rate (employees only)<sup>5</sup></b>	<b>0.11</b>	<b>0.00</b>	<b>0.12</b>	<b>0.08</b>
<b>Security</b>				
Work-related security incidents	9	2	3	6
Work-related security incident resulting in physical harm to employees (number)	0	0	0	0

1 permanent employees, part-time employees, locally hired agency staff ("direct contractors") in the fabrication sites, offices and offshore workers, i.e. all people working for the Company

2 any person employed by a Contractor or Contractor's Sub-Contractor(s) who is directly involved in execution of prescribed work under a contract with SBM Offshore.

3 Lost time injuries per 200,000 exposure hours

4 Recordable injuries per 200,000 exposure hours

5 Occupational illnesses per 200,000 exposure hours

## Process Safety

	Year to Year		2016 – Regional Breakdown			
	2016	2015 Revised <sup>1</sup>	Brazil	Angola	North America & Equatorial Guinea	Asia
<b>Loss of Containment</b>						
Loss of Containment incidents (number)	297	183	180	42	63	12
Oil and Gas Releases (number)	100	49	75	9	16	0
<b>Process Safety Events</b>						
Tier 1 incidents (number)	3	4	1	1	1	0
Tier 1 Frequency Rate	0.07	0.1	0.05	0.13	0.11	0.00
Tier 2 incidents (number)	14	11	8	2	4	0
Tier 2 Frequency Rate	0.34	0.29	0.38	0.27	0.45	0.00

<sup>1</sup> Details of the revised data are provided in section 6.1.6

## 6 NON-FINANCIAL DATA

### 6.2.2 ENVIRONMENT

#### Emissions & Energy

	Year to Year		2016 – Regional Breakdown			
	2016	2015 Revised <sup>1</sup>	Brazil	Angola	North America & Equatorial Guinea	Asia
Number of offshore units (vessels)	14	11	7	3	3	1
<b>SBM Offshore Production</b>						
Hydrocarbon Production (tonnes)	44,621,370	34,028,440	29,264,938	11,881,068	3,228,783	246,581
<b>Energy Consumption</b>						
Offshore Energy Consumption – Scope 1 in GJ <sup>2</sup>	51,702,482	38,298,297	30,932,828	15,208,854	5,512,837	47,963
Offshore Energy consumption per production <sup>3</sup>	1.16	1.13	1.06	1.28	1.71	0.19
Onshore Energy Consumption – Scope 1 + Scope 2 in GJ <sup>2</sup>	36,930	42,796				
<b>Total Energy Consumption – Scope 1 + Scope 2 in GJ<sup>2</sup></b>	<b>51,739,412</b>	<b>38,341,093</b>				
<b>Emissions – Offshore</b>						
<b>GHG Scope 1</b>						
Carbon dioxide (CO <sub>2</sub> ) in tonnes	5,766,556	4,999,926	2,631,318	2,662,849	468,795	3,594
Methane (CH <sub>4</sub> ) in tonnes	18,351	17,976	5,462	12,000	889	0
Nitrous oxide (N <sub>2</sub> O) in tonnes	309	254	162	117	30	0
<b>Volume of GHG<sup>4</sup></b>	<b>6,247,825</b>	<b>5,456,154</b>	<b>2,796,345</b>	<b>2,951,138</b>	<b>496,670</b>	<b>3,672</b>
<b>GHG per production offshore – Scope 1<sup>5</sup></b>	<b>140.0</b>	<b>160.34</b>	<b>95.6</b>	<b>248.4</b>	<b>153.8</b>	<b>14.9</b>
<b>Flaring</b>						
Total Gas Flared per production <sup>6</sup>	21.7	28.2	9.3	54.9	13.7	0.0
Gas Flared on SBM account per production <sup>6</sup>	2.76	3.48	4.2	-	0.1	-
Proportion of Gas Flared on SBM account	12.7%	12%	45%	0%	1%	-
<b>Other/Air Pollution – Non Greenhouse Gas Emissions</b>						
Carbon monoxide (CO) in tonnes	9,583	8,770	3,705	5,238	639	1
Nitrogen oxides (NO <sub>x</sub> )	7,917	6,254	4,370	2,586	950	11
Sulphur dioxides (SO <sub>2</sub> )	13,536	13,462	89	33	13,410	4
Volatile organic compounds (VOCs)	1,988	1,956	573	1,316	99	0

<sup>1</sup> Details of the revised data are provided in section 6.1.7

<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