



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
Exposure Hours				
Employee ¹	13,117,798	13,350,444	8,328,116	4,789,682
Contractor ²	1,516,282	18,012,789	0	1,516,282
Total Exposure hours	14,634,080	31,363,233	8,328,116	6,305,964
Fatalities (work related)				
Employee	0	0	0	0
Contractor	0	0	0	0
Total Fatalities	0	0	0	0
Injuries				
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
Lost Time Injury Frequency Rate (Total)³	0.11	0.03	0.19	0.00
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
Total Recordable Injury Frequency Rate (Total)⁴	0.31	0.22	0.50	0.06
Occupational Illnesses				
Employee	7	0	5	2
Contractor	5	4	0	5
Total recordable Occupational Illness Frequency Rate (employees only)⁵	0.11	0.00	0.12	0.08
Security				
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 ¹	Brazil	Angola	North America & Equatorial Guinea	Asia
Loss of Containment						
Loss of Containment incidents (number)	297	183	180	42	63	12
Oil and Gas Releases (number)	100	49	75	9	16	0
Process Safety Events						
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

¹ 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 ¹	Brazil	Angola	North America & Equatorial Guinea	Asia
Number of offshore units (vessels)	14	11	7	3	3	1
SBM Offshore Production						
Hydrocarbon Production (tonnes)	44,621,370	34,028,440	29,264,938	11,881,068	3,228,783	246,581
Energy Consumption						
Offshore Energy Consumption – Scope 1 in GJ ²	51,702,482	38,298,297	30,932,828	15,208,854	5,512,837	47,963
Offshore Energy consumption per production ³	1.16	1.13	1.06	1.28	1.71	0.19
Onshore Energy Consumption – Scope 1 + Scope 2 in GJ ²	36,930	42,796				
Total Energy Consumption – Scope 1 + Scope 2 in GJ²	51,739,412	38,341,093				
Emissions – Offshore						
GHG Scope 1						
Carbon dioxide (CO ₂) in tonnes	5,766,556	4,999,926	2,631,318	2,662,849	468,795	3,594
Methane (CH ₄) in tonnes	18,351	17,976	5,462	12,000	889	0
Nitrous oxide (N ₂ O) in tonnes	309	254	162	117	30	0
Volume of GHG⁴	6,247,825	5,456,154	2,796,345	2,951,138	496,670	3,672
GHG per production offshore – Scope 1⁵	140.0	160.34	95.6	248.4	153.8	14.9
Flaring						
Total Gas Flared per production ⁶	21.7	28.2	9.3	54.9	13.7	0.0
Gas Flared on SBM account per production ⁶	2.76	3.48	4.2	-	0.1	-
Proportion of Gas Flared on SBM account	12.7%	12%	45%	0%	1%	-
Other/Air Pollution – Non Greenhouse Gas Emissions						
Carbon monoxide (CO) in tonnes	9,583	8,770	3,705	5,238	639	1
Nitrogen oxides (NO _x)	7,917	6,254	4,370	2,586	950	11
Sulphur dioxides (SO ₂)	13,536	13,462	89	33	13,410	4
Volatile organic compounds (VOCs)	1,988	1,956	573	1,316	99	0

¹ Details of the revised data are provided in section 6.1.7

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