

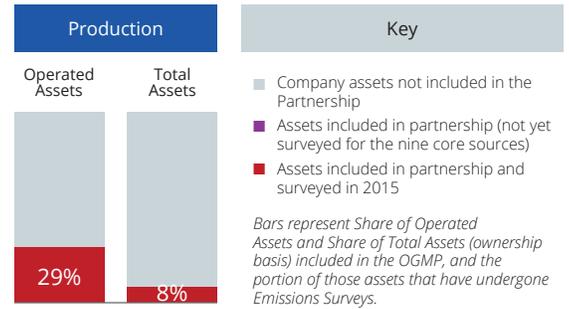
INTRODUCTION TO TOTAL S.A.

As a founding company member of CCAC-OGMP, Total S.A. decided to integrate in this first issue of the OGMP reporting nearly one third of their operated production Worldwide. This demonstrates Total S.A.'s commitment to improving methane measurement and the mitigation of these emissions as environmental priorities. Even though Total S.A.'s Methane Emissions Reporting has existed for more than 10 years now, this first issue of OGMP reporting was used as the occasion to undertake a complete verification of the reporting scheme. Each step of the reporting from the assets process up to the highest consolidation steps was put under deep scrutiny and enhanced as needed. It was also the occasion to demonstrate the technological excellence of the company by focusing on a technology where Total S.A. is in a leading position, namely Ultra Deep Offshore Installations. The results actually show ultra low levels of emissions.

PROGRESS IN MITIGATING METHANE EMISSIONS

For each asset surveyed, OGMP partners screen for the presence of each of the nine core OGMP sources. Sources found to be present are then further analyzed to quantify the number of sources overall, the number of sources mitigated, and the mitigation technology or practice being used. For unmitigated sources, OGMP partners also quantify the methane emissions in order to evaluate that source for mitigation feasibility (emissions levels are not part of public reporting).

SCOPE OF PARTICIPATING ASSETS AND EMISSIONS SURVEY PROGRESS



CORE SOURCES PRESENT AT SURVEYED ASSETS

Pneumatic Controllers and Pumps	<input type="checkbox"/>
Fugitives	<input checked="" type="checkbox"/>
Centrifugal Compressors with Wet Seals	<input type="checkbox"/>
Reciprocating Compressors	<input type="checkbox"/>
Glycol Dehydrators	<input checked="" type="checkbox"/>
Storage Tanks	<input checked="" type="checkbox"/>
Liquids Unloading	<input type="checkbox"/>
Hydraulically Fractured Completions	<input type="checkbox"/>
Casinghead gas	<input type="checkbox"/>

Core Sources Present at Surveyed Assets	Mitigation Progress (%)	Total Sources Identified as Present	Emissions Reduced under Program (metric tons CH ₄)
Fugitive equipment and process leaks	100	4	0
Glycol dehydrators	100	4	0
Hydrocarbon liquid storage tanks	100	4	0

Mitigated prior to the program
 Mitigated within the program
 Unmitigated

Total identified sources mitigated to date

Note: With the exception of Fugitive Equipment and Process Leaks, the "Total Sources Identified as Present" column indicates the actual number of equipment or component sources or emissions events. For Fugitive Equipment and Process Leaks, the source is counted on an asset-wide basis, so the number of sources indicates the number of assets counted within the Emission Surveys. Finally, because leaks can occur at random, Fugitive mitigation action must happen on an annual basis for the source to count as mitigated. Therefore all Fugitive mitigation shows as occurring "within the program," even if the practice was in place prior to joining OGMP.

Mitigation Actions by Source*

Fugitive equipment and process leaks

- DI&M program in which leaking components are generally repaired within 12 months of identification.

Glycol dehydrators

- Dehydrator system has all vents routed to a flare, VRU, or other beneficial use.

Hydrocarbon liquid storage tanks

- Tank vapors are routed to a flare/combustion device.

Methodology(ies) Used to Quantify Unmitigated Emissions*

- Total S.A. has not quantified unmitigated emissions under the program, as all sources present are already mitigated.

*More detailed descriptions of these actions and methodologies are found in OGMP's Technical Guidance Documents.

TOTAL S.A.'S BACKGROUND

Total S.A. is the No. 4 Oil and Gas Company Worldwide with a 2.3 Mboe/day operated production in 2015 of which approximately 50% is gas. Since 2010, Total S.A. reduced their greenhouse gas emissions by 19%. Between 2015 and 2019 Total S.A. plans to invest USD 7.4 Billion in R&D including 25% in clean technologies and environmental issues. Total S.A.'s active participation in CCAC-OGMP is part of a portfolio of actions contributing to creating a shared roadmap to reduce emissions in line with the 2°C target. Besides OGMP, Total S.A. is also a founding member of the Oil and Gas Climate Initiative (OGCI) where methane emissions are also a major work subject.

ABOUT THE PARTNERSHIP

The Climate and Clean Air Coalition (CCAC) has created a voluntary initiative to reduce methane emissions in the oil and gas sector: the CCAC Oil & Gas Methane Partnership. The CCAC officially launched the Partnership at the UN Secretary General's Climate Summit in New York in September 2014. To learn more about this Partnership, visit www.ccacoalition.org/en/content/ccac-oil-gas-methane-partnership.