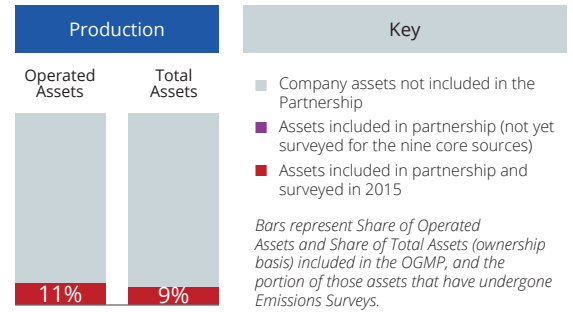


## INTRODUCTION TO ENI

Eni has been one of the first companies to be proactive on the issue of reducing methane emissions, and participating in the OGMP initiative has strengthened its commitment to invest in monitoring and reducing methane emissions all over the company. The partnership has been considered a good opportunity for sharing knowledge on methodologies and technologies, creating value from joint work. The initiative also represents a good leverage for stressing the methane emission issue within the project development process: the target is to endorse project scenarios compatible with lower methane emissions, in the direction of an increasing sustainable vision of our business.

## SCOPE OF PARTICIPATING ASSETS AND EMISSIONS SURVEY PROGRESS



## 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).

### CORE SOURCES PRESENT AT SURVEYED ASSETS

- Pneumatic Controllers and Pumps
- Fugitives
- Centrifugal Compressors with Wet Seals
- Reciprocating Compressors
- Glycol Dehydrators
- Storage Tanks
- Liquids Unloading
- Hydraulically Fractured Completions
- Casinghead gas

Core Sources Present at Surveyed Assets	Mitigation Progress (%)	Total Sources Identified as Present	Emissions Reduced under Program (metric tons CH <sub>4</sub> )
Fugitive equipment and process leaks	100	4	31
Centrifugal compressors with "wet" (oil) seals	100	41	0
Reciprocating compressors rod seal/packing vents	100	26	0
Glycol dehydrators	67	6	0
Hydrocarbon liquid storage tanks	100	58	0
	<div style="display: flex; justify-content: space-between;"> <div style="width: 33%; text-align: center;">Mitigated prior to the program</div> <div style="width: 33%; text-align: center;">Mitigated within the program</div> <div style="width: 33%; text-align: center;">Unmitigated</div> </div>		
	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.

**Centrifugal compressors with “wet” (oil) seals**

- Compressors use mechanical dry seal.

**Glycol dehydrators**

- Dehydrator has a flash tank separator that directs gas to beneficial use or flare; no stripping gas is used in the reboiler.

**Hydrocarbon liquid storage tanks**

- Tank vapors are recovered by routing to a Vapor Recovery Unit (VRU) system and directing to productive use.
- Tank vapors are routed to a flare/combustion device.

**Reciprocating compressors rod seal/packing vents**

- Rod packing is vented to the atmosphere and excessive leakage is identified and stopped whenever maintenance occurs between main engine overhauls.

Methodology(ies) Used to Quantify Unmitigated Emissions\*

**Fugitive equipment and process leaks**

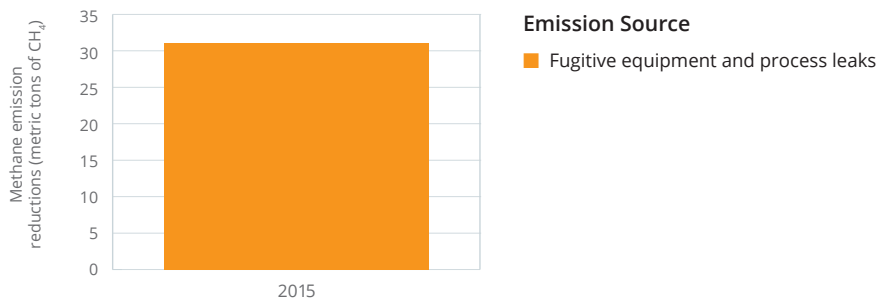
- Emission factors provided in OGMP Technical Guidance Document Number 2

**Glycol dehydrators**

- Emission factors provided in OGMP Technical Guidance Document Number 5

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

Methane Emissions Reductions Under the Program



**ENI'S BACKGROUND**

Eni is an integrated energy company that employs more than 28,000 people in 66 countries around the world. It is a key player in the exploration and production of oil and natural gas, the refining and sale of petroleum products, the generation and marketing of electricity. Eni adopts a unique sustainable model for long-term value creation, including an integrated strategy for decarbonization based on carbon footprint reduction, gas valorization and commitment on renewables.

**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](http://www.ccacoalition.org/en/content/ccac-oil-gas-methane-partnership).