

FRAMEWORK 2 - REDUCTION

OGDC METHANE AND FLARING COMMITMENTS

1) Near-Zero Upstream Methane Emissions by 2030; 2) Zero Routine Flaring by 2030

The intent of this document is to help reduce global emissions of methane and flaring, by means of providing support to operators in pursuit of their commitments.

This document outlines the suggested steps for an operator to continuously improve methane mitigation and reporting through the promotion and adoption of industry best practices and policies

	What does good look like?	How is it achieved?
METHANE	<ul style="list-style-type: none"> Improve detection, measurement, and quantification of methane emissions Eliminate routine venting of methane Improve quality of reported emissions Emissions abatement plan Implementing established industry best practices as per the abatement plan 	<ul style="list-style-type: none"> Deploying more comprehensive technologies and methods to detect, monitor, and measure leaks and venting. For each type of asset or facility, understanding and reducing operational events resulting in excess emission through monitoring – reduction through maintenance, re-design, retrofits, or operating procedures. Conduct source specific measurement on equipment to improve accuracy of emissions. Focus on priority sources from baseline emissions (e.g., low/high bleed pneumatic devices, tanks, and thief hatches in onshore assets), flares when not required for safety, and quality control and maintenance of seals in flanges, compression, and other equipment. Implementing best practice for emission sources through shared knowledge.
FLARING AND VENTING	<ul style="list-style-type: none"> Consider flareless facilities whenever possible No routine flaring or venting of associated gas Minimize any continuous and non-routine flaring in operations Improve or maintain a high flare destruction efficiency Ensure processes are in place to identify unlit flares 	<ul style="list-style-type: none"> Hydrocarbons currently being flared or vented can be recovered and sold as product. Good processing concepts supported by best practices, standards, and guides are important for achieving adequate performance for flares and vents. Flare use monitoring and optimization. When flaring is necessary, the destruction efficiency should be high to convert methane to carbon dioxide. Thermocouples, cameras

Suggested steps to be actioned include:

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| a) Implement improved methane detection and measurement technologies. | d) Develop methane abatement plan. |
| b) Eliminate venting to atmosphere. | e) Understand and reduce flaring. |
| c) Measurement of source level emissions as appropriate. | f) Improve flare destruction efficiency. |

It is recommended that an operator - already progressing in their methane and flaring reduction journey - familiarize itself with the following key technical documents that will help them to implement additional actions.

Once you are familiar with the key documents, there are additional links to access larger databases to learn more about the issue, please refer to [MGP library](#) or [IOGP library](#).

KEY TECHNICAL DOCUMENTS

#	Title	Description	Link
1	Recommended Practices for methane emissions detection and quantification technologies - upstream	The aim of this document – along with online Technology Filtering Tool, Technology Data Sheets, and Decision Trees – is to provide operators with a framework and guidelines for selecting and deploying methane detection and quantification technologies that are tailored to their facilities and objectives.	Methane emissions detection and quantification IOGP
2	MGP Gap Assessment Tool	This tool is intended to be a resource for asset managers at oil and gas companies to baseline methane management achievement at their assets and identify opportunities for improvement.	Gap Assessment Tool MGP
3	Guidelines for design and operation of flare gas recovery systems	These guidelines focus on continuous flaring sources in normal operations and address measures for source recovery, flare closure, and flare ignition.	Guidelines for design and operation of flare gas recovery systems IOGP
4	Guidelines for design and operations to minimize/avoid flaring	The scope is to provide the preliminary evaluation and design considerations of flare gas recovery systems (FGRS) in the petroleum and petrochemical industries.	Guidelines for design and operations to minimize and avoid flaring IOGP
5	Guidelines for venting minimization and vent recovery systems	These guidelines provide an overview of a FGRS and its typical components describing the motivations and justifications for, and the potential implications of, installing a FGRS.	Guidelines for venting minimization and vent recovery systems IOGP
6	Efficient use of energy in oil and gas upstream facilities	This document supplements the Flaring Management Guidance with additional lessons from operators and designers to further reduce flaring sources. It promotes and shares industry experience where technical solutions have resulted in a meaningful reduction of flared gas volumes. It also promotes the advantage of favouring flared gas source reduction.	Efficient Use of energy in oil and gas upstream facilities IOGP Report 669
7	Curtailling Methane Emissions from Fossil Fuel Operations	Explores practical measures that governments and companies can take to secure a 75% reduction in methane emissions.	IEA Curtailing Methane Emissions from Fossil Fuel Operations IEA
8	Methane Flaring Toolkit	This guideline identifies venting sources and discusses the design and operation of vent systems and Volatile Organic Compound (VOC) recovery systems, as well as the situations in which these systems can be employed to minimize venting.	Methane Flaring Toolkit
9	Implementation Plan Template	This is intended to guide upstream oil and gas organizations on improving energy efficiency and reducing GHG emissions and energy costs, regardless of an organization's current progress towards decarbonization.	Implementation Plan Template IOGMP
10	Recommended practices for electrification of oil and gas facilities	This recommended practice provides recommendations for the electrification of oil and gas (and other petrochemical processing) facilities to reduce their greenhouse gas (GHG) emissions.	Recommended practices for electrification of oil and gas facilities IOGP Report 653
11	Info Sheet Electrification technology deployment catalogue	Identifies and summarizes available electrification options/technologies that support effectively reducing greenhouse gas (GHG) emissions in the upstream oil and gas industry.	Info Sheet Electrification technology deployment catalogue IOGP