



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory Reporting

QatarEnergy

January 2022





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GUIDING
PRINCIPLES

COMPANY: **QatarEnergy**

YEAR OF JOINING METHANE GUIDING PRINCIPLES: **March 2018**

SENIOR REPRESENTATIVE: **Ahmad Saeed Al-Amoodi**



Principle One: Continually reduce methane emissions

- Please state what specific activities or projects your company has undertaken to reduce methane emissions. Please refer to the previous year’s annual MGP reporting where applicable to refer to intended activity. Link to sustainability report where relevant to provide further detail.
- Describe how the reduction was achieved including description of the asset type, technology type, timeframe. What was the end result?
- Provide data to support your description e.g. the actual amount of emissions reduction achieved, or the reduction in methane intensity.

2021 completed activity	2022 intended activity
<p>QatarEnergy is committed to tackling and reducing methane emissions throughout all stages of the natural gas value chain and all facilities, with a particular focus on methane Leak Detection And Repair (LDAR). The successful deployment of an LDAR program at our Liquefied Natural Gas and Gas To Liquids assets already achieved remarkable reductions in methane emissions. Data is published in our 2020 Sustainability Report:</p> <p>https://www.qatarenergy.qa/en/MediaCenter/Publications/QatarEnergy 2020 Sustainability Report.pdf</p> <p>QatarEnergy announced a series of Greenhouse Gas (GHG) reduction measures including reducing methane emissions to below 0.2 wt% covering all assets, operated and non-operated. QatarEnergy continued to make steady strides towards our methane emissions reductions target announced last year.</p> <p>QatarEnergy’s GHG emissions management approach over the years has consisted of developing a sound understanding of its GHG emissions inventory and its potential impact, preparation of comprehensive GHG emissions inventories, development of proactive GHG management procedures and plans, and corporate GHG KPIs that supports our climate resilience strategies.</p> <p>QatarEnergy maintains a GHG management program which involves GHG emissions quantification (including methane), verification and implementing plans to reduce GHG emissions. Over the last few years, we have been able to achieve an annual reduction of more than four million tonnes of GHG emissions through successful functioning of Jetty Boil Off Gas (JBOG) recovery and from multiple flare reduction initiatives.</p> <p>QatarEnergy has joined the World Bank’s Global Gas Flaring Reduction Partnership (GGFR) to continue our journey to end routine gas flaring and curtail methane emissions.</p>	<p>QatarEnergy will continue to identify and deliver sustainable emissions reductions from across our assets.</p> <p>We plan to move towards a fully integrated fugitive methane monitoring and repair program throughout all stages of the natural gas value chain and across all facilities.</p> <p>We will continue to test and deploy new and existing technologies for methane emissions detection and quantification, and eventually reducing the emissions.</p> <p>In 2021, we announced additional plans to reduce GHG emissions from our upstream operations. Please refer to our 2020 sustainability report for further details.</p>



Principle Two:

Advance strong performance across the gas supply chain

Please include answers to the following questions:

1. Did you participate in any methane research or plan to do so?
2. Did you conduct any outreach on methane management?
 - Describe what action you have taken to engage industry players across the value chain to better understand how to achieve robust methane emissions management. Outreach activity could include training sessions, participation in webinars, influencing of NOJV partners, or publication of guidance. Activity could also include commercial incentives or engagement with investors to drive better performance by others.
 - Provide details of any outcomes that resulted from your action.

2021 completed activity	2022 intended activity
<p>To help achieve robust methane emissions management and drive better performance across the natural gas supply chain, QatarEnergy has funded the update to the MGP Cost Model which provides the user with a screening tool to support the identification and evaluation of potential methane reduction projects across the natural gas supply chain. The update integrates the latest data and information.</p> <p>Jointly with Pavilion Energy Trading & Supply and Chevron, QatarEnergy published a quantification and reporting methodology to produce a statement of greenhouse gas emissions (SGE) associated with the delivery of each LNG cargo.</p>	<p>QatarEnergy plans to continue the collaboration with all Operators in Qatar to leverage our existing collective experience and use best international practices for methane emissions reduction.</p>



Principle Three: Improve accuracy of methane emissions data

- Describe action taken to improve methane emissions data collection methodologies. This could be application of new technology at an operated site(s), investment and participation in R&D initiatives, development of monitoring/modelling software, or support to research that improves the accuracy of the quantification of methane emissions.
- Where new technology /software has been piloted or adopted, it is helpful to describe how it works, the reasons it was selected, and how it was deployed. Any data that can be shared to demonstrate improvements is useful.
- How these new methods/technologies have been adopted into your accounting process if at all.

2021 completed activity	2022 intended activity
<p>To improve the accuracy, consistency and credibility of our methane emissions data, QatarEnergy has joined the second phase of the Oil & Gas Methane Partnership (OGMP 2.0) and has, as part of this partnership, submitted a pathway towards “gold standard” reporting and performance under OGMP 2.0, which involves an implementation plan to reach OGMP reporting level 4 /5 within 3 years for operated assets and within 5 years for non-operated assets.</p> <p>Jointly with Pavilion Energy Trading & Supply and Chevron, QatarEnergy published a quantification and reporting methodology to produce a statement of greenhouse gas emissions (SGE) associated with the delivery of each LNG cargo.</p>	<p>QatarEnergy has a multi-year plan to deliver improvements in methane measurement. This includes the potential deployment of the source level detection and measurement technologies as well as the site level measurement technologies to help reconcile/validate bottom-up data.</p> <p>We will continue our periodic measurement campaigns and deploy the same for the remaining assets that don’t perform LDAR campaigns to improve the accuracy of our fugitive emissions reporting.</p> <p>We will explore new technologies/software to help us improve the accuracy of our methane emissions data.</p>



Principle Four:

Advocate sound policy and regulations on methane emissions

Advocacy consists of active participation in legal consultation processes, external policy statements, and direct engagement with government

- Consider providing details on the region or regulation involved, how you undertook your advocacy, others involved, and the outcome.

2021 completed activity	2022 intended activity
<p>QatarEnergy supported the EU methane policy working group led by Shell along with EDF, which focused on developing a set of policy recommendations covering the full scope of EU legislative activity as outlined in the EU methane strategy.</p>	<p>QatarEnergy will participate in the 'Energy sector toolkit for the Global Methane Pledge' initiative that aims to support operationalization of the GMP, focusing on the energy sector contribution.</p>



Principle Five: Increase transparency

Please include answers to the following question:

1. Are you participating in OGMP 2.0 or do you intend to do so? If you are participating in OGMP 2.0 you may provide a link to the website.
- Describe what activity you have carried out e.g. providing information in relevant external reports on methane emissions data, methodologies, and progress and challenges in methane emissions management.
 - If you have contributed towards the standardisation of comparable external methane reporting describe the activity you have taken.

2021 completed activity	2022 intended activity
<p>QatarEnergy is a member of OGMP 2.0 which will improve the reporting accuracy and transparency of our methane emissions.</p> <p>QatarEnergy supported the International Methane Emissions Observatory (IMEO) by providing data, as relevant to our OGMP 2.0 submissions and validation processes. For further info, a link to the first IMEO Annual Report (including the OGMP 2.0 reporting analysis) is as follows: An Eye on Methane: International Methane Emissions Observatory 2021 Report UNEP - UN Environment Programme.</p> <p>Our LNG methane intensity data can be found in our 2020 sustainability report.</p>	<p>QatarEnergy will continue implementation of programs to increase data accuracy.</p> <p>We will continue reporting on our methane reduction initiatives and publish our methane emissions data and progress in our annual sustainability report.</p>





Methane Emissions

Do you report absolute methane emissions within your sustainability report? <i>If so provide link.</i>	No
Do you report a methane intensity within your sustainability report? <i>If so provide link.</i>	Yes. Please refer to our 2020 sustainability report. https://www.qatarenergy.qa/en/MediaCenter/Publications/QatarEnergy2020SustainabilityReport.pdf
What are your organisation's total absolute methane emissions? Provide a figure in tonnes. Provide latest data publicly available.	Not applicable
State your methodology.	Not applicable
State your reporting boundary.	Not applicable
What are your organisation's methane intensity? Provide latest data publicly available.	Please refer to our 2020 sustainability report. https://www.qatarenergy.qa/en/MediaCenter/Publications/QatarEnergy2020SustainabilityReport.pdf
State your methodology.	Bottom-up (source specific) methodology; using meters, online Gas Chromatographs (GCs), Optical Gas Imaging (OGI) cameras and Toxic Vapor Analyzers (TVAs).
State your reporting boundary.	Operated and non-operated assets 100% and equity share respectively
Do you have a methane emission target? If yes, please state what it is, including the boundaries and methodology. If no, are you developing such a target? Please state your intended timeline.	QatarEnergy's methane emissions intensity target is 0.2 wt.% by 2025, including operated and non-operated assets (onshore and offshore).