



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory Reporting

Equinor

December 2022



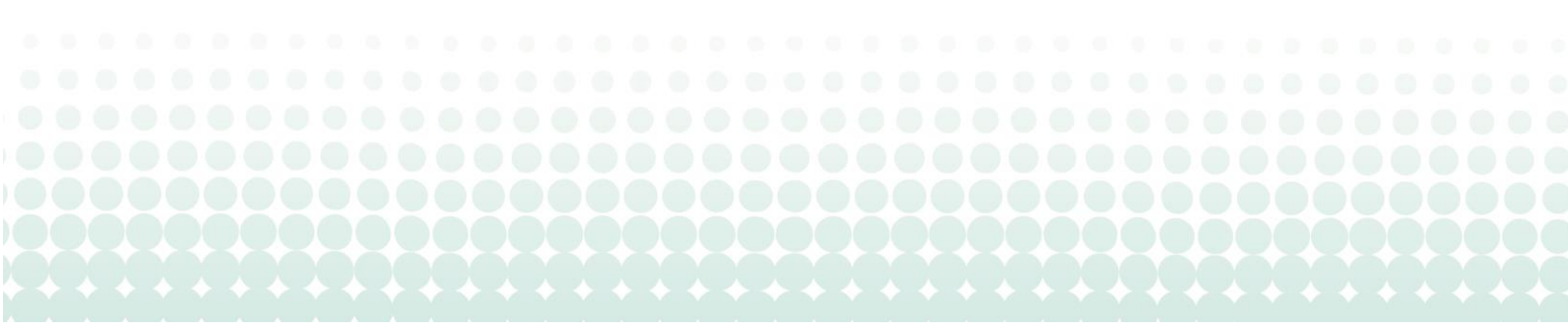


COMPANY: **Equinor**

DATE: **December 22nd 2022**

YEAR OF JOINING METHANE GUIDING PRINCIPLES: **March 2017**

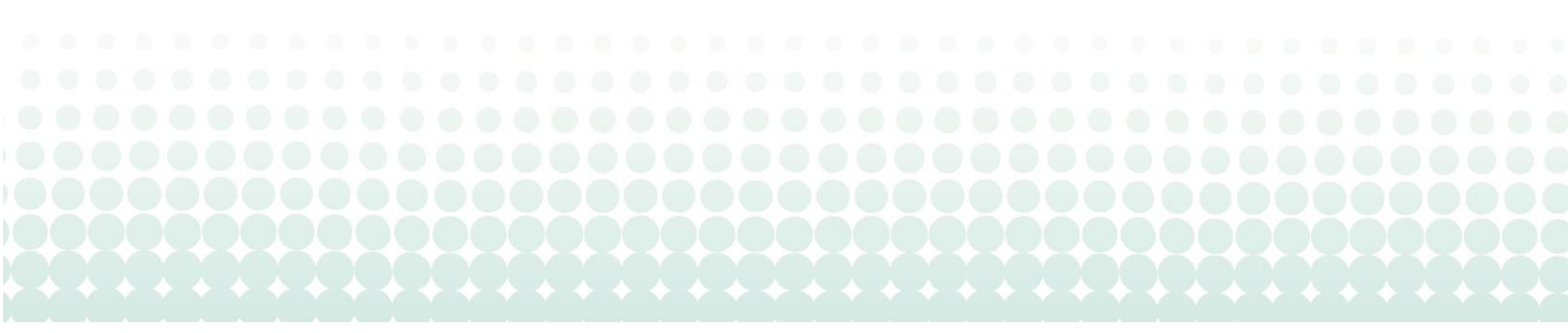
SENIOR REPRESENTATIVE: **Hilde Røed, SVP Climate and Sustainability**



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.

2022 completed activity	2023 intended activity
<p>Equinor has in 2022 implemented and evaluated various methane emissions reduction measures. Activities and projects that were implemented during 2021, have taken full effect in 2022. The latter includes reduction projects at the Snorre field offshore Norway, where hydrocarbon gas has been replaced with nitrogen as purge gas. In addition, previously vented gas is now routed to flare. These two examples have resulted in >500 tonnes of methane emissions reductions per year.</p> <p>Through participation directly in (and in some cases motivated by) the MGP’s Non-operated Joint Venture Partner Collaboration Campaign and Standardized Data Sharing Agreement Terms, Equinor has reached out to non-operated assets to improve transparency and data quality of methane emissions from non-operated activities.</p>	<p>Equinor will continue to pursue methane emission reductions, both at operated and non-operated assets.</p> <p>In 2023, Equinor will continue to have a high focus on methane emissions, and continuing participation in MGP’s Partner Collaboration Campaigns, and executing on our OGMP implementation plan, testing and qualifying technologies for site-level measurements, increasing automatization and precision in source-level emissions quantification.</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.

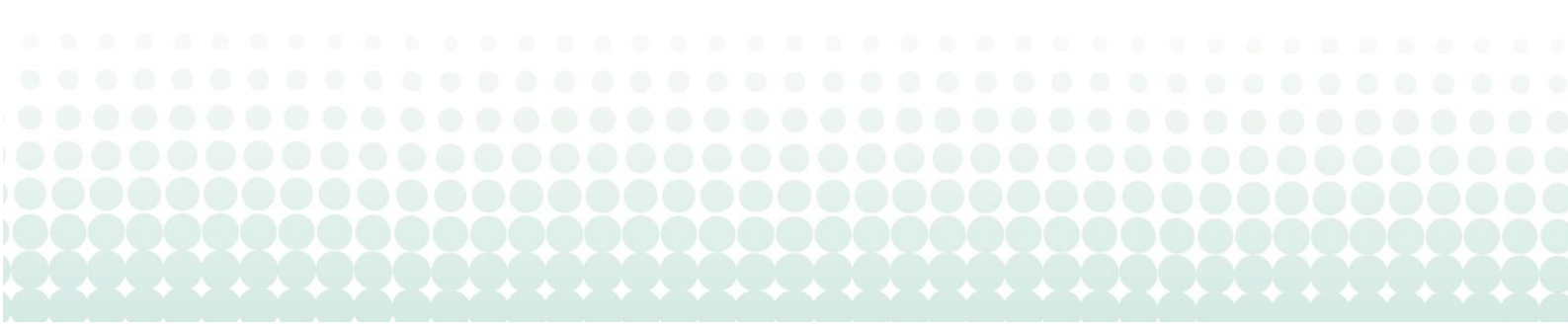
2022 completed activity	2023 intended activity
<p>Equinor has engaged with authorities, partners, operators, NGOs and academia to reduce methane emissions across the gas supply chain. Equinor has constructively engaged, by sharing Norwegian best practise, with the EU legislators who are shaping a methane regulation aimed at reducing methane emission of fossil fuels produced and consumed in Europe.</p> <p>Equinor has in 2021 and 2022 had a particular focus on Non-Operated Joint Venture (NOJV) partners to facilitate for further disclosure and reduction of methane emissions.</p> <p>In 2022, Equinor has participated in the working group Methane Source Identification, Calculation and Mitigation Tool (MIST). This tool supports identification of relevant methane sources, configuration of those sources, calculation options with traceability, and suggest mitigation options by source. The tool can support engagement with non-operated assets and across the full gas supply chain.</p>	<p>Equinor will continue to engage on the topic of NOJV methane emissions management and reporting via our involvement in the MGP and we will continue to provide input to the development of the EU methane legislation, as the process will extend into 2023.</p> <p>Through engagement with partners, and through the development of tools that will allow us to systematically map and quantify methane emissions in partner-operated assets (where such information/data is currently not available), we are working to increase the coverage and quality of methane emissions data for all material non-operated assets in our portfolio. These actions are necessary to not only execute on our OGMP implementation plan, but also to demonstrate strong methane emissions management performance in operated and non-operated assets alike.</p> <p>Equinor is looking forward to testing the MIST tool in 2023.</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.

2022 completed activity	2023 intended activity
<p>In 2022, Equinor participated in the working group for the Methane from Flaring Tool. This is a web-based tool to help operators and NOJV partners to identify how to improve flaring systems.</p> <p>In 2022, Equinor has implemented new methane emission factors for flare and turbines developed through a project facilitated by the industry organization Offshore Norge. The new flare emission factor is higher than the previously applied emission factor, whereas the new turbine specific emission factors are lower, both providing more accurately reported emissions data.</p> <p>Equinor has continued with technology development activities including testing of methane measurement technologies in Norway. The testing included both mobile and fixed instruments to measure controlled methane releases, incomplete combustion from flares and site-level methane emissions measurements.</p> <p>Equinor achieved EO100™ Certification from Equitable Origin for the entirety of its operated onshore natural gas production in the Appalachian Basin of Ohio. This involved deployment of highly sensitive continuous methane monitoring equipment at three Equinor pad locations in the US.</p>	<p>In 2023, Equinor will continue work to automate the quantification of source-level methane emissions for a variety of source types in many of our assets. This will allow for higher-quality emission data to be generated on a more frequent basis. These emissions data can then be used to inform decision makers and support data reconciliation activities. This activity will also make OGMP-specific report generation simpler.</p>

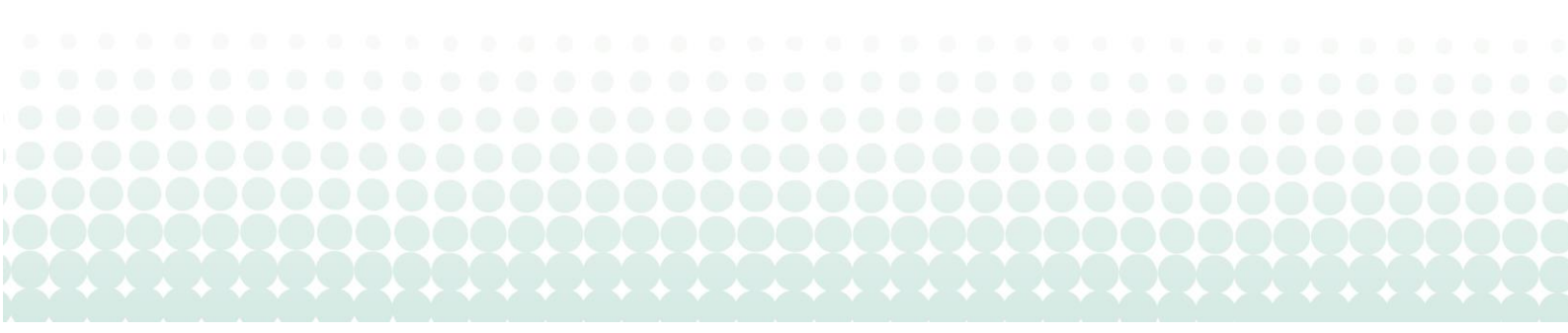


Principle Four: Advocate sound policy and regulations on methane emissions

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.

2022 completed activity	2023 intended activity
<p>Through OGCI, Equinor is supportive of the Global Methane Pledge, launched at COP26, reaffirming its commitment to contribute to the reduction of methane emissions.</p> <p>As signatory of Aiming for zero methane emissions initiative, Equinor will continue to strive to reach near-zero methane emissions from our operated oil and gas assets by 2030.</p> <p>In 2022, Equinor continued to contribute to the development of OGMP2.0 guidance documentation related to reporting, as well as uncertainty and reconciliation, while at the same time implementing OGMP2.0 reporting practices across our operations. Equinor has also shared learnings from Norwegian methane regulation and the OGMP2.0 with the EU's governmental bodies to prepare sound regulations on methane emissions.</p> <p>In the US, Equinor publicly supported the energy-related provisions of the Inflation Reduction Act, which included the imposed fees on methane leaks above a certain threshold.</p>	<p>In 2023, Equinor will participate in MGP's working group to operationalizing a Global Methane Pledge toolkit.</p> <p>Equinor will also continue to actively participate in and provide feedback to OGMP task forces.</p> <p>And Equinor will continue to share learnings and industry practices to the ongoing legislative process on methane in the European Union.</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.

2022 completed activity	2023 intended activity
<ul style="list-style-type: none"> • Through our participation in OGMP 2.0, Equinor contributes to methane emissions reductions, improvement in the quality of data reported, and transparency on disclosure. Equinor has achieved Gold standard status, according to the IMEO annual reports for 2021 and 2022. • Methane emissions at asset and category level for operated and non-operated activities in Norway are publicly available at Offshore Norge website: https://offshorenorge.no/rapporter/klima-og-miljo/miljo/feltspesifikke-utslippsrapporter/ • In 2022, Equinor researchers published a technical paper on GHG intensity of blue hydrogen in Energy Science & Engineering, called “Blue hydrogen must be done properly”. • In 2022, Equinor has conducted several workshops where we have shared learnings and practices for methane emissions management with key stakeholders and partners. 	<ul style="list-style-type: none"> • In 2023, Equinor will continue to report information on methane management practices, methane data and other methane emissions-related activities, challenges and opportunities through the public reports and voluntary disclosure frameworks (e.g. CDP). In addition, Equinor will continue to report according to the OGMP 2.0 framework, while at the same time further expanding our collaboration with partners and other companies, via international partnerships designed to increase transparency and harmonization of methane emissions disclosure in the oil and gas industry.



Methane Emissions

<p>Do you report absolute methane emissions within your sustainability report? <i>If so provide link.</i></p>	<p>Yes. Source: 2021 Equinor sustainability report</p>
<p>Do you report a methane intensity within your sustainability report? <i>If so provide link.</i></p>	<p>Yes. Source: 2021 Equinor sustainability report</p>
<p>What are your organisation’s total absolute methane emissions? Provide a figure in tonnes. Provide latest data publicly available.</p>	<p>2021: Absolute methane emissions 14 500 tonnes (source: 2021 Equinor sustainability report)</p>
<p>State your methodology.</p>	<p>Methodology according to relevant national requirements and guidance (e.g. Handbook for quantifying direct methane and NMVOC emissions)</p>
<p>State your reporting boundary.</p>	<p>Total methane emissions from our up- and midstream activities, on a 100 % operated basis.</p>
<p>What are your organisation’s methane intensity? Provide latest data publicly available.</p>	<p>2021: Methane emissions intensity 0.02% (source: 2021 Equinor sustainability report)</p>
<p>State your methodology.</p>	<p>Methodology according to relevant national requirements and guidance (e.g. Handbook for quantifying direct methane and NMVOC emissions)</p>
<p>State your reporting boundary.</p>	<p>All methane emissions (including from refineries) / marketed gas production (100% operated basis).</p>
<p>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.</p>	<p>Equinor’s methane ambition is to maintain the very low methane intensity from Equinor’s oil and gas operations and continue to explore emission reduction opportunities, including:</p> <ul style="list-style-type: none"> • develop and implement technologies and procedures to detect and reduce methane emissions • increase the quality and transparency of reported data • support the development of sound methane policies and regulations • support industry efforts to reduce methane emissions across the oil and gas value chain. <p>Equinor, is signatory of the “Aiming for Zero Methane Emissions Initiative” launched in March 2022 by the OGCI. See more information at www.equinor.com</p>