



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory

Wintershall Dea AG

January, 2024



Company: Wintershall Dea AG

Year of Joining Methane Guiding Principles: November 2017

Senior Representative: Dawn Summers (COO)

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.

2023 Completed Activity	2024 Intended Activity
<ul style="list-style-type: none"> • Global LDAR and MRV campaign: continued comprehensive LDAR campaigns in Germany, Egypt, Mexico, and Algeria. • Libya: established stable operation of Gas Utilization Plant and stopped flaring in Area 91 • Mexico: stopped flaring of associated gas in field compression sites • Germany: installed produced water heat exchanger in Mittelplate to stop usage of associated gas for heat generation • Argentina: connected the gas processing facility to the public grid in Aguada Pichana Este concession in the Neuquén basin • Egypt: successfully reduced routine flaring in Disouq gas producing site 	<ul style="list-style-type: none"> • Mexico: Installation of an instrument air system to replace natural gas driven control valves; engineering of a vapor recovery system for the storage tanks • Germany: engineering for use of geothermal energy instead of fuel gas for warm water flooding • Argentina: Aguada Pichana Este: build HP connections of well clusters to save operation of one MP turbocompressor; purchase electrically driven hermetic compressor to replace the second MP turbocompressor • Global LDAR and MRV campaign: continue and implement regular LDAR as part of routine maintenance activities in our global assets

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.

2023 Completed Activity	2024 Intended Activity
<ul style="list-style-type: none"> • Libya: Supported NOC Libya in developing a reporting standard for green house gas emissions • Libya: Hosted a workshop jointly with Repsol, TotalEnergies and Equinor to roll out the new reporting standard and addressing methane emissions and flaring • Algeria: Engaged with Sonatrach and Groupment Reggane Nord (operator) to obtain permit to provide OGMP 2 report to UNEP and run LDAR campaign in Reggane Nord • Germany: Supported association of German Oil and Gas producers (BVEG) in establishing a more granular methane reporting and basis for defining a methane target • Supported and contributed to the first European Methane Emission Summit in Amsterdam 	<ul style="list-style-type: none"> • Egypt: engage with EGAS and relevant partners to foster understanding and underline importance of methane emission reduction • Mexico: engage with PEMEX and relevant partners to reduce flaring and combustion related methane emissions by facility upgrades and LDAR • Libya: continue engagement with NOC Libya and partners to address routing flaring in Al Jurf • Algeria: continue engagement with Sonatrach and Repsol to reduce methane emissions in Reggane Nord

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 has been adopted into your accounting process if at all.

2023 Completed Activity	2024 Intended Activity
<ul style="list-style-type: none"> • Global LDAR and MRV campaign: continued comprehensive LDAR campaigns in Germany, Egypt, Mexico, and Algeria. Run dedicated measurements on key emission sources like flaring or combustion • Initiated assessment of uncertainty and reconciliation of source and site level measurements in Germany 	<ul style="list-style-type: none"> • Continue Global LDAR and MRV campaign • Complement global source level measurement campaigns with site level measurements focussing on non operated ventures • Engage with operators to address and minimize methane emissions in development projects in Mexico (Zama and Polok) and Argentina (Fenix)

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.

2023 Completed Activity	2024 Intended Activity
<ul style="list-style-type: none"> • Germany: Supported association of German Oil and Gas producers (BVEG) and hosted a workshop for German policy makers in respect to the development of the EU methane regulation • Libya: supported NOC Libya in developing a reporting standard for green house gas emissions 	<ul style="list-style-type: none"> • Germany: Support association of German Oil and Gas producers (BVEG) in preparation to the role out of the EU methane regulation

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 standardization of comparable external methane reporting describe the activity, you have taken.

2023 Completed Activity	2024 Intended Activity
<ul style="list-style-type: none"> • Managed to obtain and report OGMP 2.0 Level 3 methane emission data from major non operated assets in Libya and Algeria • Obtained OGMP 2.0 gold standard for the third year in a row 	<ul style="list-style-type: none"> • Continue measurement campaigns in operated and non operated assets globally • Aim to obtain and report minimum OGMP 2.0 Level 3 data for assets in Mexico and Egypt

Methane Emissions

<p>Do you report absolute methane emissions within your sustainability report?</p> <p><i>If so, provide link.</i></p>	<p>Yes – see WD sustainability report WD sustainability report</p>
<p>Do you report a methane intensity within your sustainability report?</p> <p><i>If so, provide link.</i></p>	<p>Yes – see WD sustainability report WD sustainability report</p>
<p>What is your organization’s total absolute methane emissions?</p> <p>Provide a figure in tons.</p> <p>Provide latest data publicly available.</p>	<p>Status 2023: 3,485 t (equity basis), 815 t (operational control)</p>
<p>State your methodology.</p>	<p>IOGP (level 3) and OGMP 2.0 (level 3 and 4)</p>
<p>State your reporting boundary.</p>	<p>For intensity: operational control, upstream</p>
<p>What are your organization’s methane intensity?</p> <p>Provide latest data publicly available.</p>	<p>Status 2023: methane intensity: 0.14%</p>
<p>State your methodology.</p>	<p>100% volume of methane emissions of Wintershall Dea’s operated assets divided by the volume of the own-operated gas marketed</p>
<p>State your reporting boundary.</p>	<p>upstream</p>
<p>Do you have a methane emission target?</p> <p>If yes, please state what it is, including the boundaries and methodology.</p> <p>If no, are you developing such a target? Please state your intended timeline.</p>	<p>Methane intensity below 0.1% by 2025</p> <p>Scope1, 100% volume of methane emissions of Wintershall Dea’s operated assets divided by the volume of the own-operated gas marketed</p>