



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory Reporting

Wintershall Dea

December 17th 2021

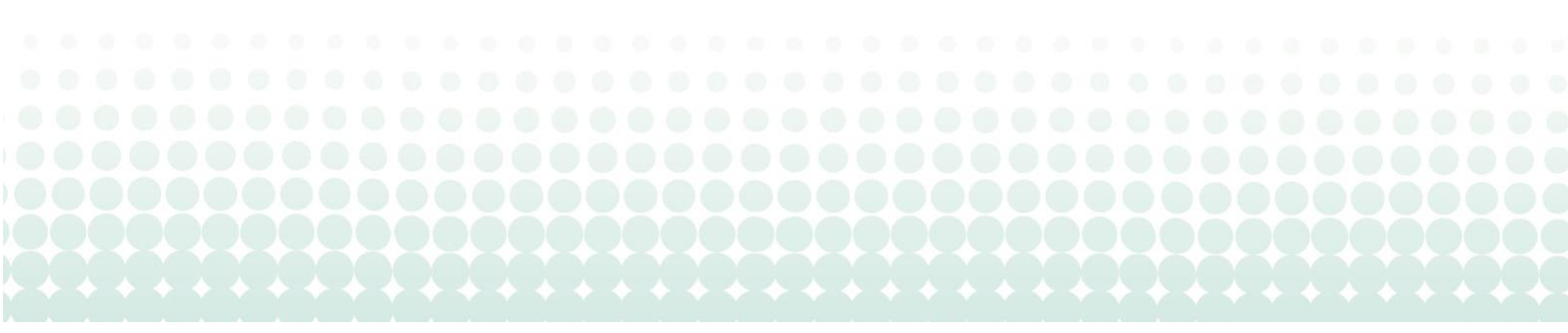




COMPANY: **Wintershall Dea**

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

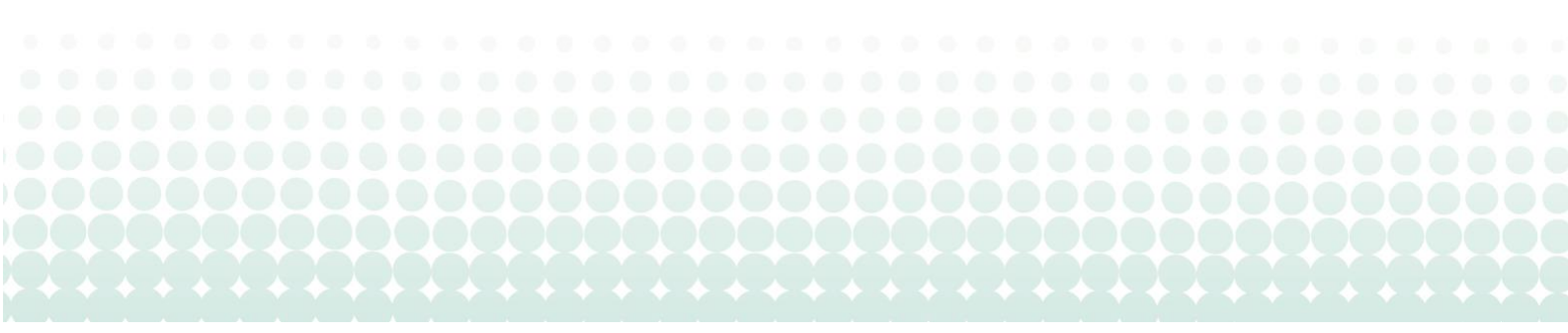
SENIOR REPRESENTATIVE: **Chief Operating Officer, Dawn Summers**



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
<ul style="list-style-type: none"> • Ran several Leak Detection and Repair (LDAR) programs (pilot and detailed) in our operated assets in Mexico and Germany. Identified leaks in Germany were fixed. • Execution of several facility upgrades in Norway and the Netherlands (NL) to avoid/mitigate flaring and venting. • Building of a pipeline in Argentina to transport gas from an unconventional development in Vaca Muerta to a gas processing plant to avoid flaring. • Initiated investment into power from shore for our offshore assets in Norway and NL. • Execution of several projects to increase efficiency of offshore compressors by installation of high efficiency filters in NL. 	<ul style="list-style-type: none"> • LDAR campaigns in Germany, Algeria, Egypt, Mexico, Argentina. • Measurement and LDAR campaign in Achimgaz Russia. • Netherlands and Norway: rebundling of compressor on offshore platforms. • Restart of the gas utilization plant in Libya to eliminate flaring. • Norway Njord platform: mature power from shore to pass through final investment decision. • Cooperate with Gazprom to increase the efficiency of the energy used in gas compression in Russia. • Technical feasibility study regarding vapour recovery unit onshore Mexico.



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
<ul style="list-style-type: none"> • Hosted Methane Guiding Principles (MGP) Executive Outreach class in Latin America jointly with OGCI in November 2021, with approximately 60 participants. • Participation in 3 MGP Non-Operated Joint Ventures (NOJV) initiatives (Partner Collaboration Campaign, MGP joint venture influencing toolkit and Methane Points of Contact). • Followed roadmap towards OGMP 2.0 level 4/5 standard – aligned with relevant National Oil Companies, partners and asset managers to obtain permission to share data and to implement reduction projects (such as LDAR or reduction of flaring). Held several meetings with key stakeholders in Mexico, Russia and Libya). • Supported a study on top down methane detection and measurement technologies coordinated by GERG. • Held several technical exchange meetings on reduction of GHG emissions with Gazprom. 	<ul style="list-style-type: none"> • Host Executive Outreach class focussing on North Africa region. • Engage with TotalEnergies to jointly address reduction of flaring on Al Jurf, offshore Libya. • Participate in 2 MGP NOJV projects. • Participate in MGP project to develop a “Methane Source Identification and Calculation Tool” that will guide the user to identify emission sources and help in finding best quantification technologies. • Continue participation in flaring toolkit initiative (BP/Rosneft). • Support a GERG study on methane detection technologies and verification.



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.

2021 completed activity	2022 intended activity
<ul style="list-style-type: none"> • Implementation of environmental software Sphera. • Implementation of LDAR programs in operated assets not yet covered by such system (Germany, Mexico). • Completed scoping of first joint measurement campaign with Gazprom in Russia. 	<ul style="list-style-type: none"> • Execute measurement campaign in Russia, Achimgaz Area I/II jointly with Gazprom. • Reach OGMP reporting level 4 for operated assets in Germany (in accordance with OGMP 2.0 Technical Guidance Documents (TGDs). • Scoping of measurement campaign across abandoned sites. • Modelling of methane emission data to improve uncertainty assessment.



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
<ul style="list-style-type: none"> • Promotion of the European policy proposals with a view on shaping the implementation of the European Methane Strategy. • Continued promotion of an ambitious methane policy in Germany, e.g. by our regular energy newsletter (distributed widely among political stakeholders). • Continued active participation in webinars panel discussions and workshops on methane emissions, searching for active speaker opportunities (e.g. Deutsche Umwelthilfe Event event: "Methane emissions from oil and gas: status quo and perspectives on regulation", Energy talks at German Reichstag on Methane Emissions) • Continued engagement in a number of German and European association expert groups on methane emissions and supported feedback on public consultation on EU legislation. • Participation in a high level conference of the German Federal Ministry of Economics on methane emissions (February 2021). • Promotion of and support for international activities of the German government with a view to promoting an ambitious methane policy on a worldwide scale. 	<ul style="list-style-type: none"> • Support implementation of EU legislation on methane emissions through active participation in work groups like the Methane working group of the "Bundesverband Erdgas, Erdöl und Geoenergie e.V. (BVEG) • Host webinars on European methane regulation with various partners (e.g. industry associations). • Intensive talks with new German government on importance of methane emissions along gas value chain, especially in view of international implications and potentially required regulations. • Continue engagement in various methane expert groups (Eurogas, IOGP, BDEW, BVEG etc.).





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
<ul style="list-style-type: none"> • Submission of OGMP 2.0 implementation plan and first report in May 31. • Submission of OGMP 2.0 report for the majority of operated and non-operated emissions. • Obtained OGMP 2.0 gold standard and special credits for implementation plan and activities related to partner-operated assets. • Actively supported OGMP 2.0 implementation conference with case studies and establishment of a technical exchange platform. 	<ul style="list-style-type: none"> • Submit OGMP 2.0 report and updated implementation plan 2022. • Carry out several measurement campaigns in Germany, Mexico, Argentina to stepwise reach OGMP 2.0 reporting level 4 for our own operated assets. • Approach operators and National Oil Companies to obtain permits to report according to OGMP and carry out measurement and reduction projects in non-operated assets. • Hold workshops with our partners in e.g. Russia and Libya to address the topic (focus on OGMP 2.0).



Methane Emissions

<p>Do you report absolute methane emissions within your sustainability report?</p>	<p>Yes Wintershall Dea sustainability performance</p>																									
<p>Do you report a methane intensity within your sustainability report?</p>	<p>Yes https://wintershalldea.com/en/what-we-believe/sustainability/2021-sustainability-report</p>																									
<p>What are your organisation's total absolute methane emissions?</p> <p>Provide a figure in tonnes.</p> <p>Provide latest data publicly available.</p>	<p>Excerpt of 2021 Sustainability Report showing methane emissions on an equity share (EB) and operational control basis (OC) respectively.</p> <table border="1" data-bbox="703 770 1374 831"> <tr> <td>CH₄ (Methane)</td> <td>t</td> <td>EB</td> <td>11,722</td> <td>8,832</td> </tr> </table> <table border="1" data-bbox="703 853 1374 1048"> <thead> <tr> <th colspan="5">METHANE</th> </tr> <tr> <th></th> <th>Unit</th> <th>Boundary</th> <th>2021</th> <th>2020²</th> </tr> </thead> <tbody> <tr> <td>CH₄</td> <td>t</td> <td>OC</td> <td>1,258</td> <td>2,957¹</td> </tr> <tr> <td>CH₄ intensity¹</td> <td>%</td> <td>OC</td> <td>0.05</td> <td>0.15</td> </tr> </tbody> </table> <p>OC Operational control ¹ 100% volume of methane emissions of Wintershall Dea's operated assets divided by the volume of the own-operated gas marketed. ² Restated 2020 figure due to changes of calculation methods and improvement of internal reporting.</p> <p>The reasons for the increase in methane emissions on an equity basis is explained within the 2021 sustainability report. There has been an increase from Libya onshore activities, where the gas utilization plant is not operational due to the critical and unpredictable situation in the country. Additionally, major temporary field development activities and corresponding commissioning of facilities in Russian and Egypt took place.</p>	CH ₄ (Methane)	t	EB	11,722	8,832	METHANE						Unit	Boundary	2021	2020 ²	CH ₄	t	OC	1,258	2,957 ¹	CH ₄ intensity ¹	%	OC	0.05	0.15
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<p>State your methodology.</p>	<p>For 2021 we report the methane emissions according to the methodology and the emission sources of the OGMP 2.0 framework and technical guidance documents. Corresponding reporting levels can be found in an aggregated manner for operated and non-operated assets in the International Methane Emissions Observatory (IMEO) report.</p>																									
<p>State your reporting boundary.</p>	<p>Wintershall Dea reports operated (100%) and non-operated (equity basis) emissions for the upstream part</p>																									



	of the value chain, including exploration, development and production operations.
<p>What are your organisation's methane intensity?</p> <p>Provide latest data publicly available.</p>	Based on the published 2021 data the methane intensity of Wintershall Dea is 0.05 (on an operational basis according to the OGCI approach and methodology).
<p>State your methodology.</p>	The emission intensity follows the OGCI formula and represents the volume of methane emissions for the upstream gas and oil sector as a percentage of the volume of the total gas marketed for the same upstream sector.
<p>State your reporting boundary.</p>	Upstream (operated)
<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>	Wintershall Dea targets a 0.1 % or less methane emission intensity on operational basis by 2025. Further Wintershall Dea has set a net zero target for GHG emissions (scope 1 and 2) for the year 2030 on an equity basis.





Commentary

Use this space to provide any general context or statements around the information and data provided.

