



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory

N.V. Nederlandse Gasunie
2024



Company: N.V Nederlandse Gasunie

Year of Joining Methane Guiding Principles: 2019

Senior Representative: Marijn Dresden

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"> • Gasunie replaced gas operated control valves with non emitting operated valves on 1 pressure reduction stations. • Works related emissions decreased by enhancing the operation of mobile compressors and flares. • Organisation of emission teams to repair leaks within shorter periods 	<ul style="list-style-type: none"> • Initiation of a comprehensive program to eliminate methane emission from pressure reduction stations in the period 2023 until 2029 • Initiation of a program to eliminate methane emission from Gas operated line valves, prioritised by emission amounts • Initiating programs and studies to reduce compression related methane emissions (i.e.: recompression of vent gas, sealgas and starting gas) • Purchase and application of two additional mobile compressors to reduce work related emissions • Enhancing MRV in accordance with OGMP requirements (level 5: site level measurements for asset samples) • Development of methane emission registration IT infrastructure

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">• Gasunie is a member of Marcogaz and GIE. We fill the chairmanship of the working group for methane emissions in Marcogaz.• In 2023 Marcogaz published reports on best available technology for the midstream and downstream gas sector to reduce methane emissions.• Contribution to an OGMP task force for a guidance for quantification.• Active contribution in improving the draft EU regulation on methane emission.• Contribution to a GERG project for Scope 5 measurement and reconciliation on a compressor station in Europe.• Gasunie participates in a GERG project to reduce emissions from gas sampling systems.• Gasunie fill the chairmanship of CEN TC234 WG14 Methane. In this CEN group 3 standards will be developed for:<ul style="list-style-type: none">○ Quantification○ Leak Detection and Repair○ Venting	<ul style="list-style-type: none">• Gasunie participates in Marcogaz, GIE, GERG and CEN for methane related subjects.• Gasunie participates in the MGP Midstream Methane Action Group

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"> • Measurement of fugitive emissions larger than 1.000 ppm at large facilities (such as compressor stations) measure with high accuracy according to the Level 4 OGMP guidelines. • Non-accessible sources and vents are being screened with Optical Gas Imaging (OGI). • Internal quarterly reporting of methane emissions. • The uncertainty of seal gas emissions were improved by measuring individual compressor units and by applying this information as individual source type emission factors. 	<ul style="list-style-type: none"> • Gasunie will participate in a GERG project to test uncertainty of high flow sampling devices and metrology. • In accordance to OGMP obligations, we work on a structured inventory of methane sources, including a OGMP uncertainty level 4 indication. • Development of IT tools for methane registration and reporting.

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"> • Gasunie worked together with GIE and Marcogaz and Eurogas and with several institutions on methane emissions. This institutions are (activities continued): • European commission • UNEP • OGMP • Methane Guiding Principles • CEN TC 234 WG14 Methane • Dutch branche organization NBNL 	<ul style="list-style-type: none"> • Continuation of the work via GIE, Eurogas and Marcogaz and CEN TC 234 and the other institutions. • Reaching out to NOJV's to get appropriate reporting of methane emissions and stimulate OGMP and MGP partnership

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"> • In 2019 Gasunie joined MGP as a signatory member. • In 2020 Gasunie joined OGMP for reporting. • Gasunie publishes methane results in their annual reports. • Gasunie delivered data of 2023 reporting according the OGMP format. • Gasunie fill the chairmanship of CEN TC234 WG14 Methane. 	<ul style="list-style-type: none"> • Gasunie will publish methane results in their annual report of 2024 • To deliver data of 2023 methane reporting according the OGMP format. • Via Marcogaz we plan to deliver better emission factors for mid and downstream gas sector. • Participation in CEN TC 234 WG14 for the development of CEN standards for methane quantification, leak Detection and Repair and venting for TSO, DSO, LNG and UGS.

<p>Do you report absolute methane emissions within your sustainability report?</p> <p><i>If so, provide link.</i></p>	<p>Gasunie reports absolute methane emission in their annual reports. The methane emissions are reported under scope 1 of the Greenhouse Gas Protocol (GGP) as network losses (annual report 2023 - methane).</p> <p>Methane is reported as an absolute number and in CO₂ equivalents with a Global Warming Potential (GWP) of 28.</p>
<p>Do you report a methane intensity within your sustainability report?</p> <p><i>If so, provide link.</i></p>	<p>Gasunie does not report methane intensity. Gasunie rather reports an absolute amount of methane emissions.</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><u>Methane emission</u></p> <p>The result of the total methane emission for 2023 was 4357 tonnes methane.</p> <p><u>Reporting</u></p> <p>Gasunie publishes their annual reports with our total methane emissions. This reporting is verified by independent accountancy; (link)</p>
<p>State your methodology.</p>	<p>The inventory of our emission sources consists of:</p> <ol style="list-style-type: none"> 1. Fugitive emissions of compressorstation, underground storage facilities, measurement and regulating stations, gas delivery stations, high pressure valve stations. 2. Vented emission from: maintenance, measurement equipment, pneumatic devices, compressor starts / stops, compressor seal gas emissions, incident emission 3. Incomplete combustion emissions of gas fired compressors and gas engines. <p>Gasunie has been working for years to set up a methane inventory. The inventory is based on the outcome of research projects in the last decade, and Piping & Instrumentation Diagrams of potential leaking sources.</p> <p>Depending on the type of emission, we use measurement calculation and estimation to derive the methane emission factors.</p>



State your reporting boundary.	The system boundaries for our methane reporting includes: <ul style="list-style-type: none">- Gasunie Transport services BV (operated assets)- BBL Company V.O.F (operated asset)- Energystock B.V. (operated asset)- Gasunie Germany (operated asset)
What are your organization's methane intensity? Provide latest data publicly available.	Methane intensity data is not reported
State your methodology.	Methane intensity data is not reported
State your reporting boundary.	Methane intensity data is not reported
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.	We have the following emission reduction targets for methane. 2030: The methane emissions (network losses) is < 70 kilotonnes of CO ₂ equivalents (using a GWP28) 2050: our infrastructure will be completely CO ₂ neutral from 2050