



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory Reporting

GRTgaz

January 2022





COMPANY: **GRTgaz**

YEAR OF JOINING METHANE GUIDING PRINCIPLES: **January 2020**

SENIOR REPRESENTATIVE: **Thierry TROUVE**

Principle One: Continually reduce methane emissions

2021 completed activity	2022 intended activity
<ul style="list-style-type: none"> • Since 2016, GRTgaz’s methane emissions have decreased by 67%. For 2021, GRTgaz’s total methane emissions are estimated at 6,7 ktCH₄ in 2021. • The asset adaptation programme was started with the aim of achieving a CH₄ emission-free compressor station standard within GRTgaz. • Actions to reduce methane emissions encompasses all the assets of GRTgaz (network above ground installations, compressor stations, pipeline) and includes emission during works. • For 5 years, GRTgaz saved more than 90% of the gas that would otherwise have been vented during pipeline maintenance. GRTgaz uses a combination of three techniques – lowering pipeline pressure through gas consumption, using a mobile compressor, and occasionally, if is too costly in time and energy to recompress the remaining small amount of gas in the pipeline, by flaring. 	<ul style="list-style-type: none"> • The 2022 target will be aligned with the 2025 target (total methane emissions limited to 4 ktCH₄), hence on track to divide by 5 the emission between 2016 and 2025 (-80%). • GTRgaz aims to enhance its Leak Detection And Repair (LDAR) program and pursue its asset adaptation programme. • Several research and development programs are led by GRTgaz on different levels.

Principle Two:

Advance strong performance across the gas supply chain

2021 completed activity	2022 intended activity
<ul style="list-style-type: none"> As an active member of GIE/Marcogaz, GRTgaz has presented and pushed for better methane management in various seminars and webinars (e.g. energy community industry meetings). Within GIE/Marcogaz Methane Working Group, GRTgaz is a main contributor to recommendation documents and advocates for better methane management through several presentations in seminars and webinars. Among the R&D projects carried out by the Research and Innovation Centre for Energy (RICE), the R&D department of GRTgaz, innovations such as the a more efficient burning technology, and specific gas trim reduction projects have been developed. See RICE website : https://researchbyrice.com/?lang=en GRTgaz also participates in the GERG research project on top-down measurements. 	<ul style="list-style-type: none"> In France, GRTgaz will continue to work closely with the other gas infrastructure operators to promote methane reduction actions and will keep on promoting sound and thorough methane reduction practices across the gas supply chain in the upcoming years. Within the GERG programme, GRTgaz will continue to lead current phases along with the other partners.

Principle Three: Improve accuracy of methane emissions data

2021 completed activity	2022 intended activity
<ul style="list-style-type: none"> • The internal reporting process created in 2020 to compute and monitor compressor station emissions has been improved, completed and is now fully operational. • GRTgaz worked closely with GERG to keep on improving the accuracy of methane emissions data, focusing in particular on top-down measurements <ul style="list-style-type: none"> ○ RICE, is piloting phase 1 with the aim of identifying the most promising technologies for the detection and quantification of methane emissions. ○ RICE is also participating in phase 2 for the testing of technologies ○ GRTgaz carried out an experimentation of a drone detection and quantification technology in one compression station, in collaboration with international partners. • GRTgaz participated in the OGMP working groups, as co-chair on technical guidelines and participant in the "uncertainties" working group. 	<ul style="list-style-type: none"> • GRTgaz will continue to work on OGMP technical guidelines. • GRTgaz will also carry on the works within GERG, especially on top down measurements.

Principle Four:

Advocate sound policy and regulations on methane emissions

2021 completed activity	2022 intended activity
<ul style="list-style-type: none"> • GRTgaz contributed to the Marcogaz/GIE work on LDAR recommendation, on flaring/venting and on elements related to the European methane regulation. • GRTgaz is also a member of CEN TC234 WG14 on methane quantification in mid/downstream (secretary). 	<ul style="list-style-type: none"> • GRTgaz plans to pursue the same dynamic, both in its presence in regulatory working groups and in the production of specific documentation.

Principle Five:

Increase transparency

2021 completed activity	2022 intended activity
<ul style="list-style-type: none"> • GRTgaz is a signatory member of OGMP 2.0 and provided its report according to the OGMP 2.0 framework. Documents and Publications OGM Partnership • GRTgaz has extensively contributed to OGMP 2.0 task forces : co-chair on technical guidelines and contributor within GIE/Marcogaz to define the reporting template for methane emission for the mid/downstream. • RICE, the R&D department of GRTgaz, also contributes to increased transparency of methane emission reporting by participating in a GERG-led study on the subject. 	<ul style="list-style-type: none"> • GRTgaz plans to pursue the same dynamic, both in its presence in working groups, internal data transparency development and in the production of specific documentation.

Methane Emissions

<p>Do you report absolute methane emissions within your sustainability report?</p> <p><i>If so provide link.</i></p>	<p>Yes</p> <p>Rapport-DPEF-GRTgaz.pdf (details page 40, 2020 data)</p>
<p>Do you report a methane intensity within your sustainability report?</p> <p><i>If so provide link.</i></p>	<p>No</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>Estimated 10,3 millions Nm³ in 2021 (6,7 ktCH₄).</p>
<p>State your methodology.</p>	<p>As a guiding principle, GRTgaz focuses on the most important sources as a priority, for quantification, mitigation and leakage treatment with the methodology described below:</p> <ul style="list-style-type: none"> • All GRTgaz's assets are monitored and are subject to internal and external evaluation • Fugitive emissions are estimated on the basis of the EN15446 standard for compressor stations and for a representative panel of regulating stations • Emissions during operation and works are estimated using engineering calculations
<p>State your reporting boundary.</p>	<p>Operated assets.</p>
<p>What are your organisation's methane intensity?</p> <p>Provide latest data publicly available.</p>	<p>Not applicable</p>
<p>State your methodology.</p>	<p>Not applicable</p>
<p>State your reporting boundary.</p>	<p>Not applicable</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>Total emissions limited to 6,2 Mm³ by 2025 (4 ktCH₄).</p> <p>This target includes all GRTgaz's assets: Operated assets (compressor stations, regulating stations and pipelines).</p> <p>Specific targets are defined for non operated assets.</p>