



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory Reporting

Beijing Gas Company Ltd

January 15th 2021





COMPANY: **Beijing Gas Company Limited**

DATE: **January 15th 2021**

YEAR OF JOINING METHANE GUIDING PRINCIPLES: **May 2018**

SENIOR REPRESENTATIVE: **Han Jinli**



Principle One:
Continually reduce methane emissions

Historical completed activity	2021 intended activity
<ul style="list-style-type: none"> • Awareness-building: in 2020 Beijing Gas stressed the importance of methane emission reduction from the perspectives of asset management, safety, sustainability, covering senior management, operation personal, and technicians. • Building a governance framework, embedding methane emission mitigation into corporate governance: a methane emission reduction project team was established with the chief engineer of the group as the team leader; the Beijing Gas Research Institute is developing a roadmap for methane mitigation within the Company, Beijing Gas High Pressure Company served as a pilot project for emission identification, detection and quantification. • Pilot project on methane emissions control: mobile gas leak detection system is applied for all Beijing Gas pipelines in downtown Beijing for leak detection. Detection frequency is based on the type and characteristics of the assets, generally speaking, three times a week or once per day for high pressure pipelines. Beijing Gas has retrofitted 27 kilometers of pipeline network, and carried out detection on leakage due to corrosion on 1,214 kilometers of pipelines. • Performance: methane emissions due to venting and third party damage in 2019 was 265 tons, a 57.6% decrease from 2018 level. In 2020, Beijing Gas High Pressure Company reduced methane emissions by 184 tons through elimination of venting in some of its technical process. 	<ul style="list-style-type: none"> • Having recognized that the City Gas has long adopted stringent methane emissions control and detection practices out of safety consideration, the Company will develop best practices and exchange with players in the value chain, while continuing to improve its capacity to cut emissions. • The existing leakage detection and mitigation systems including Beijing Gas Production, Operation, Management System, Energy Efficiency Management and Performance Evaluation Regulations will be reviewed and upgraded to incorporate methane emissions. • The Company will organize a study on city gas methane emissions identification, detection and quantification methodology through cooperation with China Gas Association and the Environmental Defense Fund (EDF).



What are your organisation's total methane emissions?

Historical completed activity	2021 intended activity
<ul style="list-style-type: none"> Total methane emissions: Not applicable: Beijing Gas mainly operates in the downstream distribution. Methane emission quantification methodologies and system are not available for this type of business uptill now, therefore, data refelecting real conditions is not available right now. Beijing Gas is organizing a study on methodology for quantification of methane emissions within the company. 	<ul style="list-style-type: none"> Expand the scope of emission source identification, with a focus on fugitive emissions. Establish a methane emissions inventory based on a bottom-up method.

Does your organisation report methane intensity? If so, please specify the intensity.

Historical completed activity	2021 intended activity
Not applicable: same as above.	Not applicable

Do you have a methane emission target?

Historical completed activity	2021 intended activity
<ul style="list-style-type: none"> Not applicable: the "Beijing Gas Control Methane Emission Roadmap" is drafted, including development of a methodology for quantification of emissions, based on which the Company could set a target. 	<ul style="list-style-type: none"> Study emissions factors of the city gas industry



Principle Two:

Advance strong performance across the gas supply chain

Historical completed activity	2021 ended activity
<ul style="list-style-type: none"> Beijing Gas worked with the Environmental Defense Fund (EDF) to translate the Chinese version of the "Methane Guiding Principles Best Practice Guides", and holding an online release event. https://methaneguidingprinciples.org/the-chinese-versions-of-the-methane-guiding-principles-mgp-best-practices-guides-available-online/ Beijing Gas, Woodside Energy and China Gas Association (CGA) co-hosted the "Methane Emission Reduction Workshop under MGP Framework" during the China Gas Development Forum in Chengdu. https://methaneguidingprinciples.org/methane-emissions-reduction-workshop/ 	<ul style="list-style-type: none"> Beijing Gas plans to sign a Memorandum Of Understanding with EDF to carry out cooperation on training programs, awareness building for the industry, developing methods for measurement, quantification, auditing focusing on city gas companies.

Principle Three:

Improve accuracy of methane emissions data

Historical completed activity	2021 intended activity
<ul style="list-style-type: none"> Through the use of mobile gas leak detection system for all pipelines assets in Beijing, Beijing Gas collected relevant data such as leakage rate, laying the foundation for the subsequent rolling verification of methane emissions data. 	<ul style="list-style-type: none"> To carry out measurements covering all pipelines in Beijing, implement rolling verification to fully and clearly understand the emissions condition of Beijing Gas.



Principle Four:

Advocate sound policy and regulations on methane emissions

Historical completed activity	2021 intended activity
<ul style="list-style-type: none"> Beijing Gas worked with the National Center for Climate Change Strategy and International Cooperation (NCSC), and Beijing Research Center for Climate Change Mitigation on methane emissions quantification methodology and auditing system. We have been advocating the government to establish methane emissions reduction research projects on policies. Beijing Gas lead or participated in the compilation of "GJJ/T215-2014 Urban Gas Pipeline Leakage Detection Technical Regulations" and "Urban Gas Pipeline Leakage Assessment Technical Regulations", providing a basis for the methane detection, reporting and auditing mechanism. 	<ul style="list-style-type: none"> Promote the establishment of national-level scientific research projects, establish a dialogue mechanism between the industry and policy-makers through research project. Promote exchanges between the up-, mid- and downstream of the industry on methodology, auditing, technology, to improve overall performance of the industry.

Principle Five:

Increase transparency

Historical completed activity	2021 intended activity
<ul style="list-style-type: none"> Beijing Gas's performance on carbon disclosure is included in the annual report of its parent company, Beijing Enterprises Holdings Limited . 	<ul style="list-style-type: none"> Updates and disclosure of the methane emissions data and information will be included in the Annual Report of Beijing Enterprises Holdings Limited.

Commentary:

Beijing Gas believe natural gas is a key fuel in making net zero carbon emissions possible and realistic. City gas usually adopts stringent leakage detection and emissions control system out of the consideration of safety and cost. Some of the practices could be included in MGP Best Practices to be shared across the value chain.

