



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory

APA Group
2024



Company: APA Group

Year of Joining Methane Guiding Principles: March 2022

Senior Representative: Petrea Bradford, Group Executive Operations

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
<p>In September 2023 APA released its Climate Report, providing updates on our methane emissions and related commitments to enhance methane measurement and mitigation.</p> <p>We announced a methane target to reduce our operational methane emissions by at least 30% by FY30, compared to APA’s FY21 base year.</p> <p>APA continued to prioritise structural abatement through Net Zero Investment funding governance, introduction of an internal carbon abatement price, and by embedding the Methane Guiding Principles (MGP) into our business.</p> <p>We integrated the avoidance of methane emissions into the concept development and front-end engineering design stages of new gas-related infrastructure by embedding reference to MGP Best Practices within our engineering design practice guidance.</p>	<p>APA’s focus will be on implementing our Methane Action Plan to deliver prioritised methane abatement projects and identify further actions. Our activity will include:</p> <ul style="list-style-type: none"> • Progressing delivery of our priority methane abatement projects with a focus on compressor and site methane emission mitigation, compressor and operational efficiency, compressor electrification and leak detection and repair. • Completion of an engineering study for compressor blowdown and seal recovery. • Completion of the business case for the electrification of our Wallumbilla compressor, with next steps to be determined pending a funding investment decision being reached. • Piloting of our new leak management protocol to support identification and management of leaks from gas



2023 Completed Activity	2024 Intended Activity
<p>We developed a Methane Action Plan for FY24-FY26 to support the delivery of our commitments under the MGP and progress towards our methane target.</p> <p>A gap assessment was completed referencing the MGP Best Practice Guides, and we made provision for annual gap analysis within the Methane Action Plan.</p> <p>Asset-specific abatement opportunities were also identified during asset strategy reviews.</p> <p>Specific actions to develop and implement abatement included:</p> <ul style="list-style-type: none">• Completion of a leak detection survey on our Goldfield Gas Pipeline, a 1,546 km transmission pipeline in Western Australia, with immediate repair of leaks where possible.• Use of portable flaring to reduce methane emissions from maintenance activities.• Trialling of gas capture and recompression technology for a construction project in Western Australia.• Acceleration of the Block Mains Replacement Project in the Allgas Distribution Network. We increased the mains replacement rate from 17.5 to 35 kilometres per year. Emissions from this asset contribute about 20% of our total methane emissions.• Completion of a nationwide compressor electrification feasibility study across 25 of our gas compressor stations. The study	<p>transmission pipelines and facilities managed by APA Group.</p> <ul style="list-style-type: none">• Developing decision criteria to ensure methane emissions from maintenance, construction and commissioning projects are reduced as far as reasonably practicable.• Developing staff training materials on methane emissions mitigation and measurement. <p>Updates to MGP Best Practice guidance will be considered when we conduct our annual gap assessment against methane best practices.</p> <p>We will also initiate a review of our operational methane target. Following completion of enhanced methane measurement across APA's assets, we will review strengthening our target in the next update of the Climate Transition Plan to be released in 2025.</p>



2023 Completed Activity	2024 Intended Activity
<p>provided valuable insights that will help APA prioritise the most suitable compressors for further assessment. It also confirmed the higher costs of electrifying remote sites, primarily due to the cost of establishing renewable energy microgrids and complex grid connections.</p> <ul style="list-style-type: none">• Commencing the development of a business case for the electrification of our Wallumbilla compressor. <p>We developed an emissions reduction ideation to implementation process to guide further abatement actions being identified.</p> <p>We also implemented actions to progress to enhanced methane measurement and reporting, as reported under MGP Principle Three. The adoption of such methods will support the reporting of emission reductions from the abatement actions being taken.</p> <p>Further information on APA's methane mitigation commitments and actions is available in our 2022 Climate Transition Plan and 2023 Climate Report.</p>	

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
<p>APA recognises the importance of decarbonising our value chain and the role we play in working with our customers, partners and suppliers to achieve this outcome. We are committed to advocating for improved methane management more broadly.</p> <ul style="list-style-type: none"> • APA is an active member of the Australian Pipelines & Gas Association (APGA) Gas Infrastructure Emissions Reduction Working Group. In 2023 we co-funded the <i>APGA Pipeline Methane and Gas Combustion Emissions Reduction Opportunities Project</i>. This project assessed methane and greenhouse gas abatement for gas transmission nationally. • APA sponsored the <u>Net Zero Australia initiative</u> which delivered its final report ‘Net Zero Mobilisation report: How to make net zero happen’ in July 2023. 	<p>Building on the partnerships established in 2023 APA will take further action to engage industry stakeholders across the value chain.</p> <ul style="list-style-type: none"> • As part of our efforts to reduce Scope 3 emissions, APA has committed to introducing a Scope 3 emissions goal before or in conjunction with our 2025 Climate Transition Plan. • APA will progress identifying opportunities to mitigate methane emissions within our value chain. • Through the APA Pathfinder Program we will continue investing in future energy. This includes investigating the use of gas infrastructure for future fuels such as hydrogen and biofuels. • APA will continue to actively participate in the MGP Midstream and Advancing Global Methane Reductions (AGMR) initiatives to



2023 Completed Activity	2024 Intended Activity
<ul style="list-style-type: none">• We were an active member of the Australian Energy Transition Initiative, supporting the phase 2 ('Setting up industrial regions for net zero') and phase 3 ('Pathways to industrial decarbonisation') reports.• We actively participated in the MGP Midstream Initiatives including chairing the March 2023 meeting and presenting on value chain mapping.• We advocated for MGP membership through our participation in APGA owner's committee meeting and committed to sponsoring the Methane Inventory Systematic Tool (MIST) update.	<p>support methane measurement and mitigation in Australia.</p> <ul style="list-style-type: none">• Under the MGP Midstream initiative, we will continue to engage with APA-owned asset operators to promote enhanced methane emissions measurement and reporting and membership of the MGP.• We remain an active member of the APGA Gas Infrastructure Emissions Reduction Working Group and will continue to support initiatives that promote enhanced methane measurement and mitigation.

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 have been adopted into your accounting process if at all.

2023 Completed Activity	2024 Intended Activity
<p>In 2023 APA took several considered actions to investigate and trial enhanced methane measurement and reporting methods.</p> <ul style="list-style-type: none"> • In February 2023 we engaged a specialist methane consultant to review the implications of implementing an enhanced measurement method across pipelines and facilities managed by APA nationally. The review focused on the Oil and Gas Methane Partnership (OGMP) 2.0 framework, identifying data and resources required and impacts on existing emissions inventory and reporting. • In June 2023 aerial methane detection surveys were completed for three major pipelines covering 3,963 kilometres (Goldfield Gas Pipeline, South West Queensland Pipeline and Moomba to Sydney Pipeline). The survey included compressor stations and associated infrastructure. The aerial detection 	<ul style="list-style-type: none"> • We will conduct an OGMP 2.0 pilot on our South West Queensland Pipeline. • Based on experience gained through our measurement campaigns in 2023 and the OGMP 2.0 pilot, APA will decide whether to progress OGMP 2.0 implementation or adopt an equivalent approach to enhance methane measurement and reporting across APA’s assets nationally. • We will also complete benchmarking for our distribution assets and progress the review of shifting to higher order National Greenhouse and Energy Reporting (NGER) methods. • APA will continue to engage with our value chain to support improved methane emissions estimation and reporting for non-operated assets.



services provider deployed patented imaging technology that detects methane sources over 10kg/hour in moderate wind speed conditions. While an incidental methane emission source was detected associated with commissioning activities at an above-ground facility attached to the South West Queensland Pipeline, no significant sources of ongoing methane emissions were identified.

- **In June 2023 APA engaged a testing and inspection organisation to conduct a methane leak survey on our Goldfield Gas Pipeline.** This 1,546 km transmission pipeline includes compressor stations and associated infrastructure and extends from Yarroloola in the Pilbara region to Kalgoorlie in the Goldfields-Esperance region of Western Australia. Previously unidentified methane emission sources were detected with sources addressed or scheduled for repair if they could not be immediately fixed.
- **In September 2023 we reported methane emissions from APA's operations and progress made on enhancing methane measurement within our [Climate Report](#).** We also voluntarily disclosed emissions from non-operated assets under Scope 3 – Category 15 (Investments) for the first time.

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
<p>In 2023 APA advocated for enhanced measurement and reporting methods through various engagements with the Australian Government. Some of our activities are noted below.</p> <ul style="list-style-type: none"> • We engaged with and provided a written submission to the Climate Change Authority (CCA) during the National Greenhouse and Energy Reporting (NGER) Act review advocating for the NGER scheme to be expanded to cover value chain emissions and internationally recognised methods for reporting methane such as the OGMP 2.0. The CCA's review report released in December 2023 included several recommendations on improvements to fugitive methane measurement, reporting and verification and referenced the OGMP 2.0 framework. • We collaborated with industry associations on submissions to the Australian Government including in relation to the <i>Safeguard Mechanism: International Best Practice Benchmarks Consultation Paper</i> being published. 	<ul style="list-style-type: none"> • APA will continue to advocate for sound methane policy with the Australian Government in 2024 through submissions related to NGER Act reviews, and through the Advancing Global Methane Reductions (AGMR) initiative workstream and our participation in the APGA Gas Infrastructure Emissions Reduction Working Group.



- **We collaborated with Woodside Energy and Tamboran Resources to support the Advancing Global Methane Reductions (AGMR) in Australia.** This initiative aims to instigate and accelerate country-level methane emissions reductions, in support of the Global Methane Pledge.

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
<p>APA implemented several actions to enhance our methane measurement and reporting in 2023, including investigating the feasibility of participating in the Oil and Gas Methane Partnership (OGMP) 2.0.</p> <ul style="list-style-type: none"> • In February 2023 APA engaged a specialist methane consultant to review the implications of implementing an enhanced measurement method, specifically the OGMP 2.0 framework. The review’s scope included identifying resources required, implications of initial and ongoing collection of data and impacts to existing emissions inventory. • We engaged with UNEP and MGP signatories to understand in more detail the application of the OGMP 2.0 framework to our operations. • We commissioned aerial methane detection surveys over three of our major pipelines covering 3,963 kilometres with no significant ongoing methane sources detected. (Further details provided under Principle three.) 	<ul style="list-style-type: none"> • We will conduct an OGMP 2.0 pilot on our South West Queensland Pipeline. • Based on experience gained through our investigations and measurement campaigns in 2023 and the OGMP 2.0 pilot, APA will decide whether to progress OGMP 2.0 implementation or adopt an equivalent approach to enhance methane measurement and reporting across APA’s assets nationally. • APA will continue to engage with our value chain to support improved methane emissions estimation and reporting for non-operated assets.



- **We completed a leak detection survey on our Goldfield Gas Pipeline**, a 1,546 km transmission pipeline in Western Australia. (Further details provided under Principle three.)
- **In September 2023 we reported methane emissions from APA's operations and progress made on enhancing methane measurement within our [Climate Report](#).** We also voluntarily disclosed emissions from non-operated assets under Scope 3 – Category 15 (Investments).

Methane Emissions

<p>Do you report absolute methane emissions within your sustainability report? <i>If so, provide link.</i></p>	<p>Yes 2023 Climate Report Refer to page 33 and to the data book</p>
<p>Do you report a methane intensity within your sustainability report? <i>If so, provide link.</i></p>	<p>No</p>
<p>What is your organization's total absolute methane emissions? Provide a figure in tons. Provide latest data publicly available.</p>	<p>8,876 tonnes CH₄ for FY23 (July 2022 – June 2023) 2023 Climate Report Refer to pages 33 and 57. Methane emissions data are also reported in APA's FY23 Climate Data Book</p>
<p>State your methodology.</p>	<p>National Greenhouse and Energy Reporting 3.76 Method 1 – natural gas transmission Further details provided in APA's FY23 Climate Data Book and FY23 Greenhouse Gas and Energy Calculation Methodology</p>
<p>State your reporting boundary.</p>	<p>Operational Control</p>
<p>What are your organization's methane intensity? Provide latest data publicly available.</p>	<p>Not currently measured</p>
<p>State your methodology.</p>	<p>NA</p>
<p>State your reporting boundary.</p>	<p>NA</p>
<p>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.</p>	<p>Yes. In 2023 we introduced a target to reduce our operational methane emissions by at least 30% by FY30, compared to APA's FY21 base year.</p>