



METHANE
GUIDING
PRINCIPLES

Methane Guiding Principles Signatory Reporting

3 March 2021





COMPANY: Woodside Energy Ltd

DATE: 03/03/2021

YEAR OF JOINING METHANE GUIDING PRINCIPLES: 2018

SENIOR REPRESENTATIVE: Meg O'Neill, EVP Development and Marketing

WORKING COMMITTEE REPRESENTATIVE: Ian Sylvester, VP Climate Solutions

Principle One:

Continually reduce methane emissions

2020 completed	2021 intended activity
<p>In 2020, we incorporated the philosophy of methane reduction into our base business and initiated a process of discovery in relation to the qualitative and quantitative understanding of our methane footprint. This is evidenced by:</p> <ul style="list-style-type: none"> • embedding the relevant Methane Guiding Principles into the Woodside Management System (WMS). WMS includes procedures and guidelines for activities across the business • completing a National Physical Laboratory (NPL) differential absorption laser survey and facility wide fugitive emissions survey of the Karratha and Pluto Gas Plants, funded by the Climate and Clean Air Coalition. 	<p>We will continue to utilise our internal opportunity management processes to prioritise methane reduction projects discovered across our operated facilities in 2020. This prioritisation will be enhanced by commercial evaluation utilising a 20-year methane Global Warming Potential.</p> <p>The 2021 activities will focus on:</p> <ul style="list-style-type: none"> • design-out opportunities associated with seal oil venting and flaring • development of a leak detection and repair strategy • further quantification of priority methane emission sources • reviewing design and procurement procedural alignment with ongoing methane reduction • and delivery of methane reduction through operational excellence.



Principle Two:

Advance strong performance across the gas supply chain

2020 completed	2021 intended activity
<p>We collaborated with Beijing Gas Group to present experience with MGP to representatives from downstream gas supply/ pipeline operators in China.</p> <p>The engagement included targets and pathways, governance, a fugitive methane differential absorption laser survey, and case studies.</p>	<p>We will continue to engage with Beijing Gas in 2021.</p> <p>We will also commence engagement with customers to discuss methane emissions as a component of our wider greenhouse gas Scope 3 emissions strategy.</p> <p>A specific methane focus in these engagements will be with pipeline operators in order to collaborate on a pathway to methane reduction.</p>



Principle Three:

Improve accuracy of methane emissions data

2020 completed	2021 intended activity
<p>Methane emissions data was released in the 2020 Sustainable Development Report (SDR), which can be found here. This includes total methane¹ emissions in ktCO₂-e for 2017–2019 and is reported based on NGER factors and is complimented with site based emission factors.</p>	<p>In 2021, we will continue to report accurately on operated methane emissions, incorporating known methane source emission rates in conjunction with relevant industry approved factors.</p> <p>We will refine our methane source emission rates via a fugitive methane survey strategy, consisting of hand-held, fixed/mobile and far field techniques such as satellite methane fugitive emissions monitoring.</p> <p>In 2021, we will continue the integration of survey data and laboratory sampling to complement our inventory of site specific methane factors, further enhancing the accuracy of our reported methane emissions.</p>

¹ Reported data has been calculated for Woodside operated assets only. The global warming potentials and engineering calculation methods used are consistent with the Australian Federally legislated National Greenhouse and Energy Reporting scheme (NGERS) and additionally incorporates some site specific methane emission factors.



Principle Four:

Advocate sound policy and regulations on methane emissions

2020 completed	2021 intended activity
<p>The planned Australian CEO Roundtable could not proceed due to COVID-19 restrictions.</p> <p>We maintained membership of relevant organisations (such as IOGP, IPIECA, APPEA) to ensure engagement and awareness of activity.</p>	<p>We will re-evaluate the Australian CEO Roundtable in 2021.</p> <p>We will continue to be engaged in updates to the NGERs legislation on fugitive emissions.</p> <p>We will be chairing the IPIECA Net Zero Taskforce.</p>

Principle Five:

Increase transparency

2020 completed	2021 intended activity
<p>A methane intensity has been disclosed for the first time in the 2020 Sustainable Development Report, which can be found here. This number aligns with the Oil and Gas Climate Initiative (OGCI) methane intensity indicator and is reported on a by volume equity basis.</p>	<p>In 2021, we will enhance our Task Force on Climate-related Financial Disclosures (TCFD) - aligned reporting in our Annual and Sustainable Development Reports, which includes MGP and methane information.</p> <p>We will review fugitive methane results and incorporate into action plans and, where appropriate, share our findings with other industry bodies.</p> <p>We will ensure all methane figures reported have undergone independent audit and assurance.</p>

