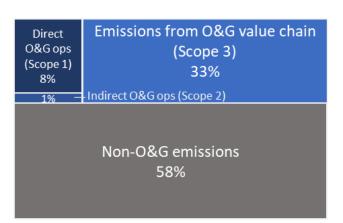
Lower emission oil and gas production



The challenge

While the world is transitioning toward net-zero, the energy balance and global need for energy make it inevitable that significant volumes of oil and gas will still have to be produced. From a historical perspective, reaching the 1.8-degree target still means producing 63% of all the oil and gas produced to date; reaching the 2-degree target means 72%, equivalent to all production since 1980.

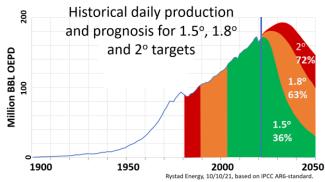
Knowing that oil and gas operations stand for 9% of the world's carbon emissions it is clear that hydrocarbons can and must be extracted at lower emissions.



Norway's lower emissions technology made available to the world

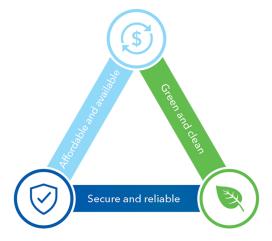
- Resulting from government legislation, taxation and initiatives, Norway has over decades developed technologies to decarbonise the petroleum sector
- NORWEP has partners that can provide technologies and services to help operators globally to lower total emissions that are
 - o Greener and cleaner
 - Secure and reliable
 - o Affordable and available





Opportunities for Norwegian companies

- Growing pressure from regulators, investors, and others to decarbonise operations as operators need to comply to
 - o Retain social license to operate
 - Limit the negative impact on the business
 - o Secure new avenues for revenue growth
- Market opportunity for incremental or transformative technology that can add green value
- Opportunity for suppliers and NORWEP Partners with the right mindset, technology or services
- "If the amount of methane released is reduced to the same levels as in Norway, there is a potential to reduce 40% of total emissions from oil production." Masnadi et al, Science



NORWEP initiative

NORWEP has initiated an initiative to identify and promote solutions that can minimise the GHG footprint with the aim to

- Raise awareness within NORWEP partners of the importance of identifying their lower emission solutions
- Support NORWEP Partners in formulating their lower emission solutions as Unique Value Propositions (UVPs), addressing client problems on a synopsis level as well as a detailed level with case histories and reduced GHG footprint.
- Create an arena for marketing Norwegian lower-emission solutions through dedicated client meetings, tech days and business-to-business meetings
- Position the Norwegian supplier industry long term as the lower emissions alternative
- Enable NORWEP partner's active contribution to a net-zero future

Unique Value Proposition (UVP) Synopsis can be found at www.norwep.com , Technologies and Solutions. Search for "LEOG"

Direct emission from O&G Ops (Scope 1)	8
Indirect emission from O&G Ops (Scope 2)	1
Emissions from O&G value chain (Scope 3)	33
Non-O&G emissions	58

Direct O&G ops (Scope 1) 8%	Emissions from O&G value chain (Scope 3) 33%
1% Indirect O&G ops (Scope 2) Non-O&G emissions 58%	