



OIL AND GAS CLIMATE INITIATIVE



Towards near zero methane emissions

Energy Community Methane Mondays - Methane emissions detection, measurement and quantification technologies

October 11th, 2021

OUR MEMBER COMPANIES



ExxonMobil



THE INITIATIVE : LOWER CARBON VIA COLLECTIVE ACTION & PARTNERSHIPS

- CEO-led
- Voluntary
- Ambitious
- Additional
- Action oriented



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21-CMP11

Paris
Agreement

Our Focus

CCUS

Role of
Gas

Transport

Energy
Efficiency

Low Emission
Opportunities

Natural
Climate
Solutions

CLIMATE INVESTMENTS : LOWER CARBON VIA INVESTING IN SOLUTIONS

- Invest
- Implement
- Achieve impact at a global scale



Reduce methane emissions through detection, measurement & mitigation



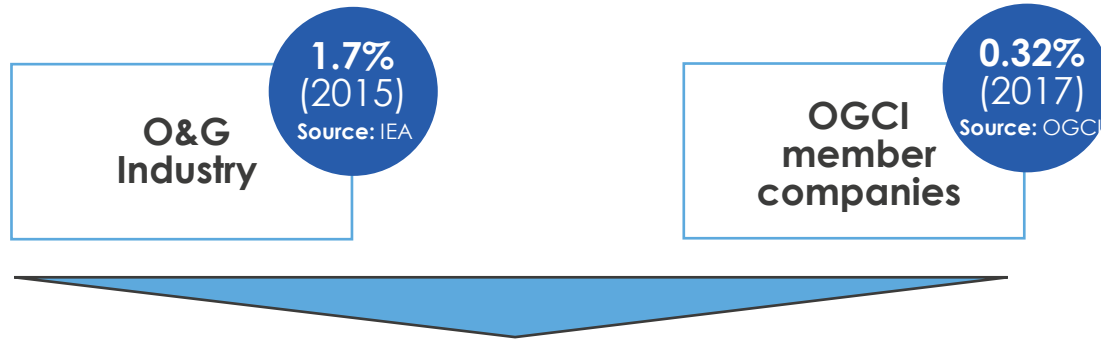
Reduce carbon dioxide emissions, by increasing energy efficiency in power, industry and transport



Recycle and store carbon dioxide (CCUS) in applications such as industrial processes and power generation

Two methane challenges to overcome

Methane Intensity from the Oil & Gas Industry...



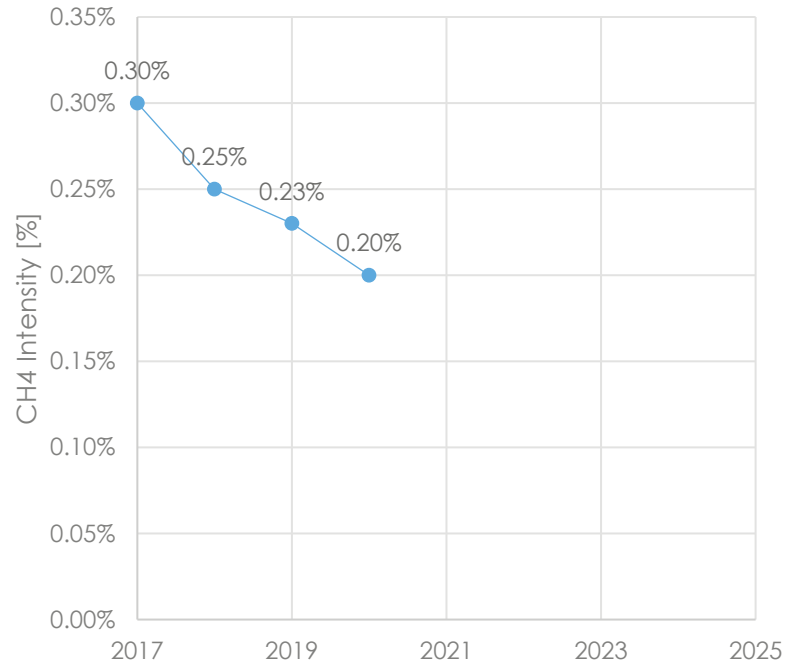
... highlights two challenges that OGCI & the rest of the O&G industry need to rapidly overcome

#1
Mitigate CH₄ emissions

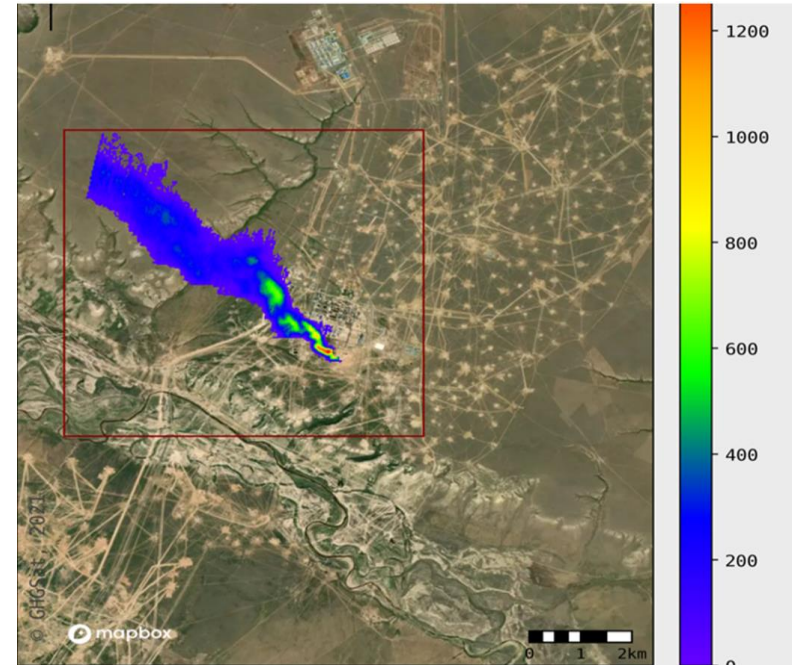
#2
**Increase transparency
& data accuracy**

#1 Mitigate methane emissions

OGCI Upstream Methane Intensity Target



Deploying satellite campaigns to mitigate methane emissions in developing countries



Sources: OGCI Website ([2021](#)), GHGSat ([2021](#))

#2 Increase transparency & data accuracy

Global Gas Flaring Reduction Programme with World Bank and Colorado School of Mines



Analysis of global natural gas supply chains with Imperial College London

GHG emissions [gCO₂e/MJ] CH₄ emissions [gCO₂e/MJ]
 % of produced CH₄ used and emitted

Origin	Upstream	Transport	Regasification	Market
Australia	11.44 4.03 4.78 %	1.57 0.01 1.68 %	0.93 0.03 1.19 %	Asia (Japan)
	12.48 0.17 8.80 %	1.55 0.004 1.79 %	0.34 0.006 0.61 %	
	26.87 13.94 22.38 %	4.66 0.04 4.12%	1.52 0.05 0.16%	
Middle East	9.22 0.085 13.49 %	2.15 0.004 2.53 %	0.35 0.006 0.62 %	
	9.22 0.085 13.49 %	1.66 0.004 2.01 %	0.35 0.006 0.63 %	
Russia	3.08 0.82 4.73 %	3.78 0.33 8.01 %	N/A	
North Sea	3.46 0.10 4.68 %	0.02 0.01 0.02 %	N/A	
	5.00 0.11 9.64 %	1.67 0.03 1.58 %	0.06 0.00 0.00 %	

Conclusion and call for collaboration

OGCI welcomes dialogue and engagements with O&G operators outside OGCI membership, to jointly collaborate to reduce direct emissions from the O&G industry.

Practical efforts include:

1. Sharing of best practices and material to reduce GHG Scope 1 & 2 emissions.
2. Support to improve quantification and reporting of CH₄ emissions.
3. Testing, demonstrating and deploying emerging detection and measurement CH₄ technologies.
4. Joint engagement with policymakers to support the implementation of direct and / or indirect regulation tackling specifically methane emissions reduction.