How oil & gas can contribute to a carbon neutral journey?

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Oil and Gas Climate Initiative



- OGCI is a **voluntary**, **CEO-led** oil and gas industry initiative that aims to catalyze meaningful actions on climate change through collaboration and engagement
- **13 member companies**, IOCs and NOCs, represent around **30% of the world's O&G production** & close to 20% of the global primary energy demand























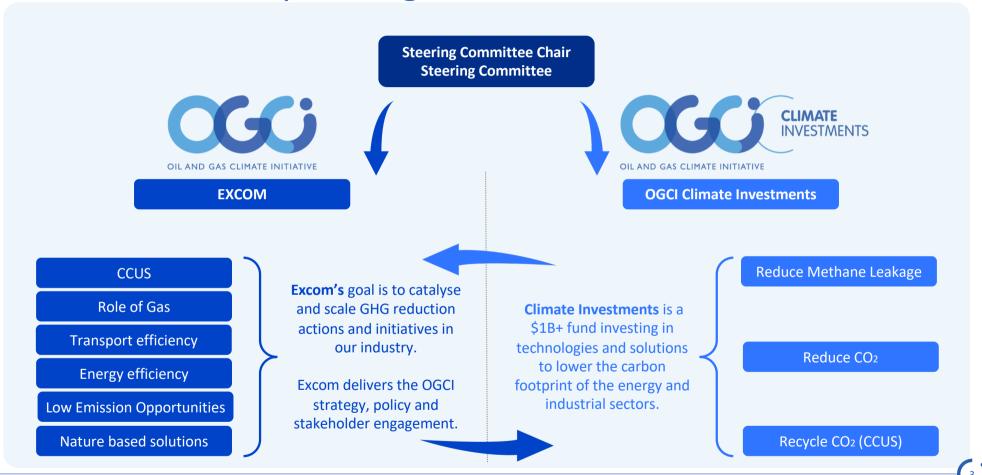




Member companies share a will to collaborate, support the Paris Agreement, and a commitment to work
with direct engagement from the CEOs to drive the initiative and active participation in OGCI programs,
by exploring reduction on the energy value chain, acceleration of low carbon solutions and enabling a
circular carbon model



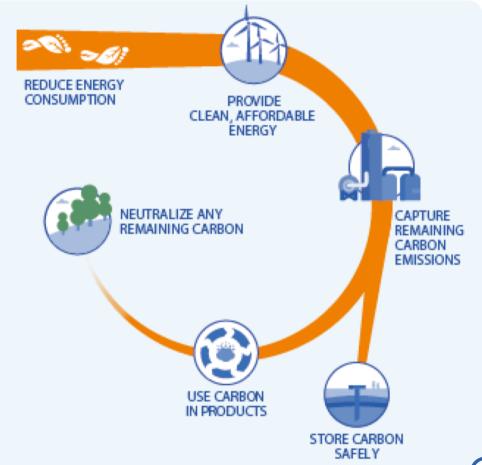
Operating Structure of OGCI





Long-term vision: a circular carbon model

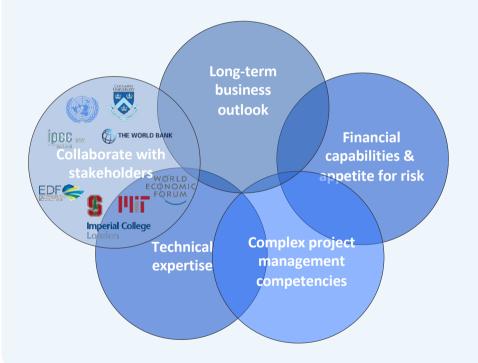
- Negative carbon emissions necessary to limit global warming, while continuing to provide reliable, affordable and clean energy to all
- A circular carbon economy is needed to accelerate the reduction of net-GHG emissions
- Recognition that climate change is not the only thread to sustainable development means that a holistic approach to the UN Sustainable Development Goals is essential





How to contribute to the climate change solutions?

Combining strengths with stakeholders...



...across a variety of sectors tackling the key lever toward a <2°C scenario:

Methane leakage

Energy efficiency

Transportation efficiency

CCUS

Nature-based solutions



The case of CCUS: what is at stake?

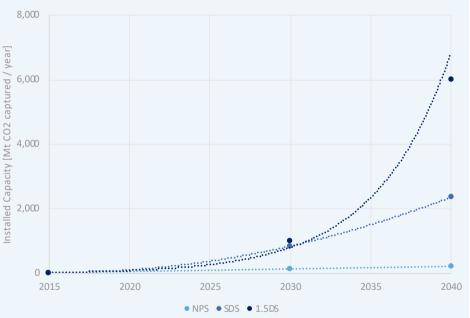
Carbon Capture, Use and Storage (CCUS) contribution to achieving the goals of the Paris Agreement

- 87% of all models run by the IPCC rely on CCS and on negative emissions – Bio Energy with CCS – to have a 50% chance of staying below 2°C
- CCUS to provide 14% of cumulative emissions, reductions needed in the period to 2060, equivalent to 120 Gt CO₂
- Failure to deploy such technology could increase costs of mitigation by +138%

CCUS also delivers additional benefits:

- Allows retrofit of existing infrastructure (no stranded assets)
- Enables clean hydrogen production (through steam reforming)
- Allows to have a CO2 free electricity baseload, easing the rate increase of intermittent solution

CO2 Captured and Stored from the Energy & Industry sectors, per year



Source: IEA (2019)

Source: IPCC (2014) IEA (2017)



The case of CCUS – What is hampering its deployment?

Policy, Legal & Regulatory Barriers

Policy confidence is a prerequisite for investment in long lived capital intensive assets like CCUS infrastructure. Only 5 of 55 countries analysed by the Global CCS Institute have laws in place that incentivise and regulate aspects of CCUS.

Source: Global CCS Institute – The Global Status of CCS (2018)

Lack of Trust

Many people involved in climate action worry that oil & gas support for CCUS is an attempt to preserve business as usual.

Governments can't be seen to subsidize oil & gas companies. Emitting industries are worried that oil and gas companies want to transfer the cost of decarbonization to them.

Financial Barriers

Unclear legal and regulatory regime increases risk/reward ratio, critical to attract private investments:

- Long term storage liabilities
- Investment horizon mismatch
- CO2 supply uncertainty
- Volatile carbon credits market conditions





Future lack of investments to realize CCUS projects
High cost of money affecting bankability



The case of CCUS: what to look at?

Set strong ambitions around CCUS

CCUS & Nature-based solutions



Expand policy work with new government (Gulf, China, US, etc.) on CCUS and Nature-based solutions



Collaborate through private-public partnerships to accelerate the business cases at scale and bring supports to projects worldwide



CO2 Storage Data

Launching several initiatives to standardise & share CO2 storage data & methodologies



Demonstrate through project like the Clean Gas Project, bringing the first CCS project coupled with a gas fired power plant to FEED stage and support innovative solutions (Inventys, Solidia, Econic, etc.)

How can we better collaborate with stakeholders to accelerate the enabling environment?

- Share best practices & learnings
- Expand policy work
- Develop a public / private partnerships to regionally pool technical, financial, commercial and policy resources
- Confirm long term safe storage capabilities
- Develop new standards and protocols
- Confirm business models for CCUS
- Balance regional & international efforts
- Fund academic research and help progress on science



Thank you



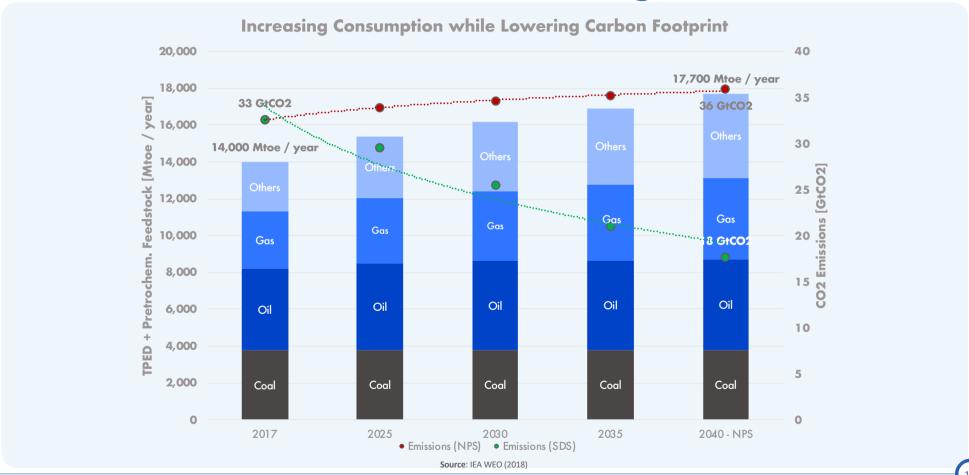
Find out more online: oilandgasclimateinitiative.com



Supporting Slides



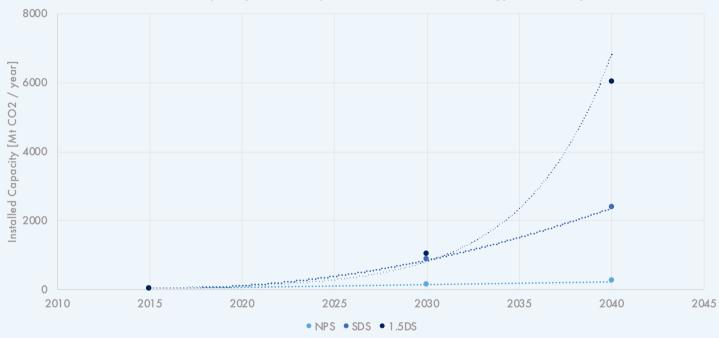
The Climate Challenge





CCUS Ramp up





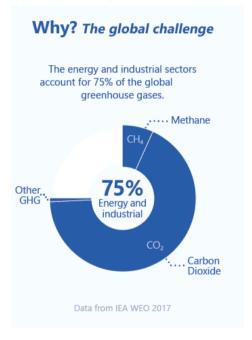
Source: IEA Website (2019)



OGCI Climate Investments

Our mission

Climate Investments is a \$1B+ fund investing in technologies and solutions to lower the carbon footprint of the energy and industrial sectors. The fund was created the Oil and Gas Climate Initiative.



What? Our focus

Reduce methane leakage during production, delivery and usage of oil and gas.



Reduce CO₂ produced by increasing industrial energy efficiency and transport efficiency.



Recycle CO₂ into useful products or put into long-term storage (CCUS).

How? We work with you



Invest in innovative low-carbon technologies & solutions.



Support our portfolio companies with access to customers and deployment.



Collaboratewith OGCI members and other stakeholders to gain speed and global reach.



Apply for investment: contact@climateinvestments.energy



Find out more online: oilandgasclimateinitiative.com/climate-investments



