Practical action for a lower carbon footprint

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**THE INITIATIVE**: LOWER CARBON VIA COLLECTIVE ACTION & PARTNERSHIPS

**CLIMATE INVESTMENTS**: LOWER CARBON VIA INVESTMENTS

**INVEST** in innovative low-carbon technologies and solutions.

**SUPPORT** our portfolio companies with access to customers and deployment.

**COLLABORATE** with OGCI members and other stakeholders to gain speed and global reach.
The climate challenge and CI focus

50 GIGATONNES MANMADE GREENHOUSE GASES (GHG)

- Atmosphere
  - ~15 Gt CO₂e
  - ~20 years to +2°C
- Carbon sinks
  - ~35 Gt CO₂e

ENERGY & INDUSTRIAL
~3/4 OF MANMADE GHGs

- Methane
- Other
- Other GHGs
- Carbon Dioxide

Source: IPCC (2014)

CLIMATE INVESTMENTS ($1B+)

- Reduce methane emissions in oil & gas
- Reduce carbon dioxide emissions in energy & industrial
- Recycle & store carbon dioxide in energy & industrial (CCUS)

Source: IEA WEO 2018
Reduce methane emissions
OGCI collective methane intensity target

Baseline
2017 0.32%
2018 0.29%

Target
0.25%

Ambition
0.20%

2016 2018 2020 2022 2024 2026
Upstream operated domain. 2018 emissions = 1.93 mTCH4 (2.06 all domains)

IMPACT @ 0.25% INTENSITY IS REDUCTION OF

12M TONNES CO₂e FROM OGCI
~2.5M

OR

425M TONNES CO₂e FROM SECTOR
~90M

Sources: GWP Methane = 25 (IPCC AR4, 2007)
EPA GHGe Calculator (2018)
Investments to reduce methane emissions
Reduce carbon dioxide emissions
Investments to reduce CO₂ through energy efficiency

CHALLENGE

> 66% primary energy is currently wasted

ENERGY EFFICIENCY: THE WORLD IN 2016
(40% ABATEMENT REQUIRED TO -2°C)


Secondary Energy*: comprises all fuels and electricity “ready to use” (i.e. available to the customer)
Recycle & store carbon dioxide

(Carbon Capture, Utilisation & Storage)
Carbon Capture, Utilisation & Storage Kickstarter

DEVELOP 5 CCUS HUBS VIA PRIVATE & PUBLIC PARTNERSHIPS

HUB 1
Teesside, UK

HUB 2
Open Source Project, Norway

HUB 3
Rotterdam, The Netherlands

HUB 4
Xinjiang, China

HUB 5
Gulf of Mexico, USA

GOAL TO KICKSTART A CCUS MARKET
CCUS projects investments: prove business models

UK – TEESSIDE PROJECT

- Greenfield project: power & industrial
- Potential impact 3-5 Mtpa
- Start date ~ mid-2020's
- Policy structure: hybrid
- Partners: 6 OGCI companies

USA – WABASH VALLEY

- Brownfield project: industrial
- Potential impact 1.5 Mtpa
- Start date ~ 2023
- Policy structure: 45Q + state level
- Partners: developers + DOE
Investments in CCUS technologies

Investments in CO₂ capture & utilisation technologies and in CCUS business models
Thank you

www.oilandgasclimateinitiative.com