OIL AND GAS CLIMATE INITIATIVE

More energy, lower emissions

Catalyzing practical action on climate change

July 19, 2017

CMTC 2017 Houston, Texas

What is the OGCI?

The **Oil and Gas Climate Initiative** is an industry-driven initiative which aims to catalyze practical action on climate change through collaboration.

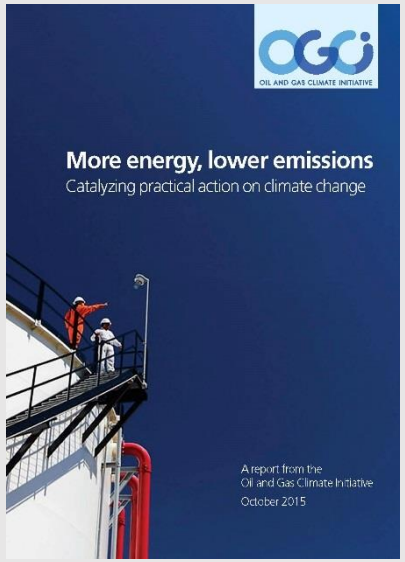
OGCI members

Current members of the initiative are BP, CNPC, Eni, PEMEX, Reliance Industries, Repsol, Saudi Aramco, Shell, Statoil and TOTAL.

OGCI members represent diverse national and international companies.

OGCI members produce over one-fifth of global oil and gas production and over 10% of energy supply.

OGCI Communications



2015 OGCI Report

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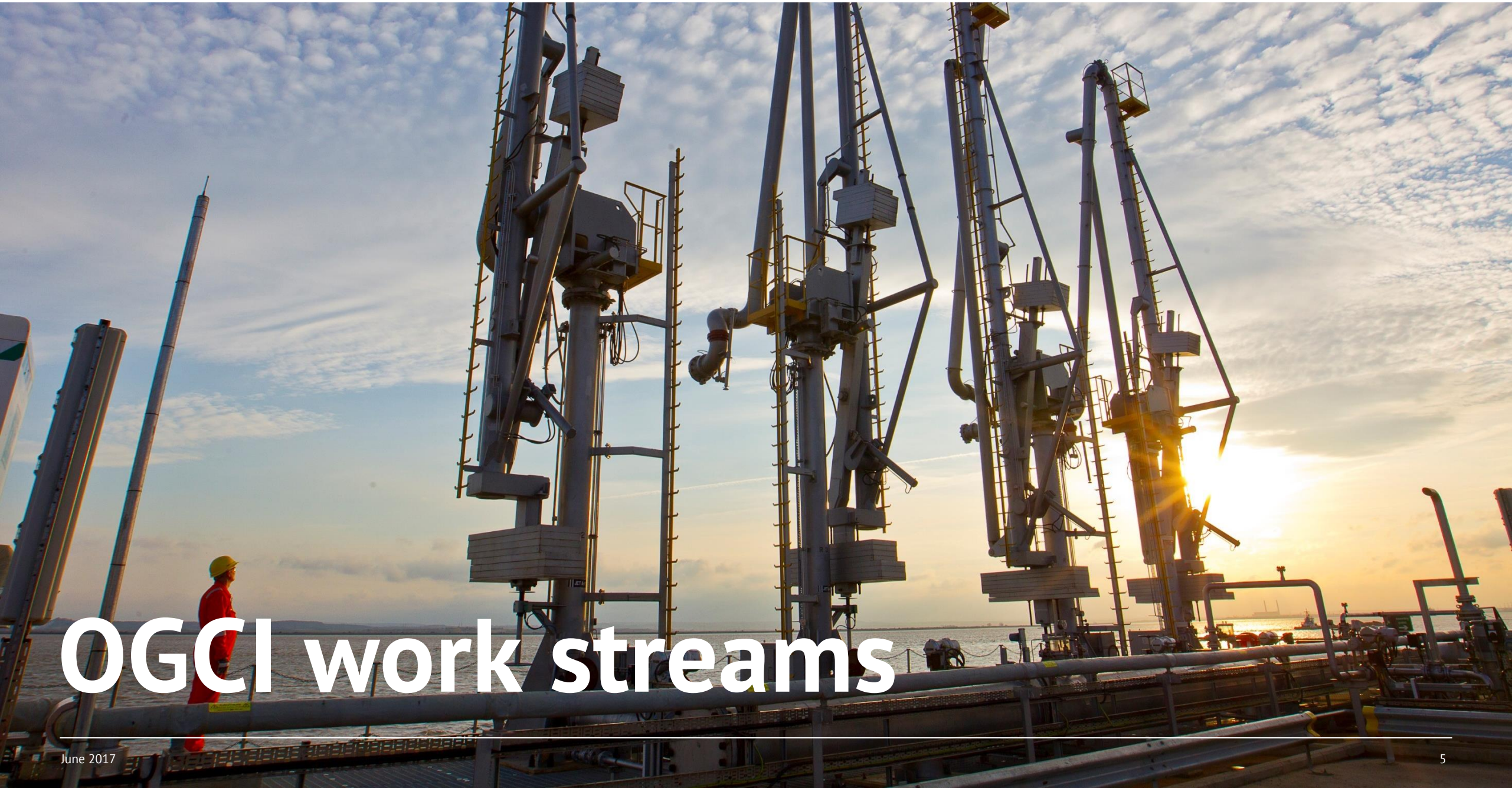
2016 Web site

2016 OGCI Report

bp CNPC eni PEMEX® Reliance Industries Limited Growth is Life REPSOL أرامكو السعودية saudi aramco Statoil TOTAL

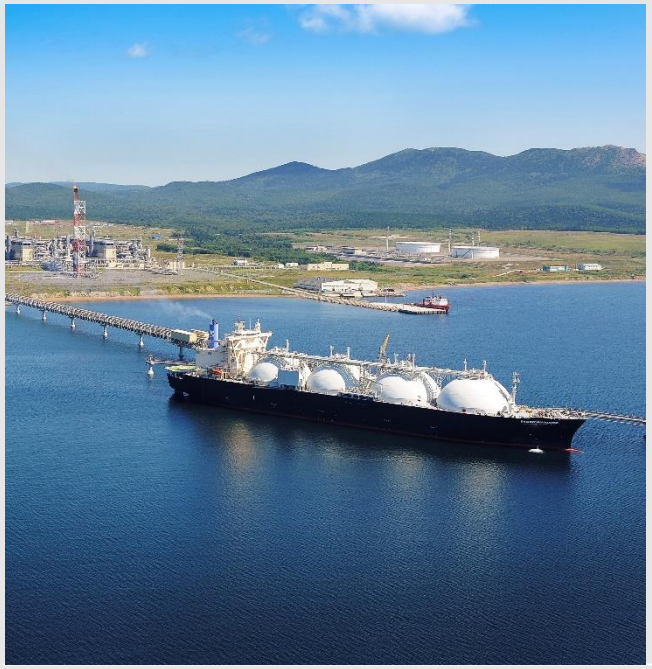


OGCI work streams

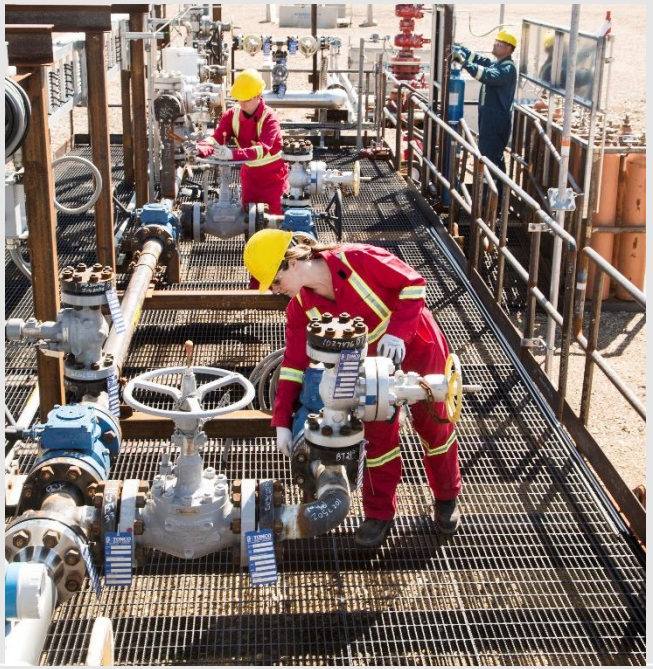
OGCI work streams

OGCI has been focusing on three key areas:

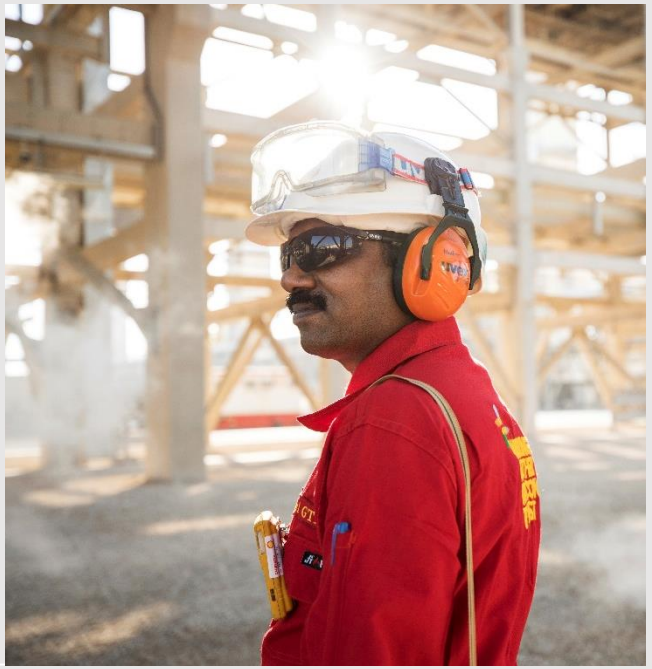
Natural gas / methane



Low emission opportunities



Long term solutions



Long Term Solution - CCS work programs

Pathways to CCS market commercialization in a low carbon economy:

Aiming at developing a common position on the market mechanisms for CCS commercialization and to determine how Oil and Gas companies could act to facilitate CCS development at scale.

Availability of CO_2 storage capacity in key markets:

Aiming at having a storage capacity methodology mutually agreed between OGCI companies and externally, and then collaborate with local institutes of targeted countries to trigger adequate and robust determination of underground CO_2 storage capacity.

Pathways to CCS market commercialization in a low carbon economy

Objectives:

Identify key qualifiers and milestones which will facilitate commercial CCS deployment.

Define oil and gas company contributions towards pathways to CCS commercialization that will enable CCS on gas and oil facilities.

Develop a clear understanding of the different elements of CCS cost reduction and whether/how oil and gas company collaboration can deliver against these elements.

Availability of CO_2 storage capacity in key markets

Objectives:

To define a methodology for reporting of CO_2 storage reserves/resources.

Identify and collaborate with regional parties in key markets such as China and India to undertake storage capacity assessment.

Update storage capacity estimates based on our agreed methodology for key regions of the world.

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Path forward

June 2017

OGCI collaborations

International Energy Association (IEA)

Global CCS Institute (GCCSI)

Carbon Capture and Storage Association (CCSA)

Society of Petroleum Engineers (SPE)

The Oil and Gas Climate Initiative

Climate Investments

OGCI CLIMATE INVESTMENTS

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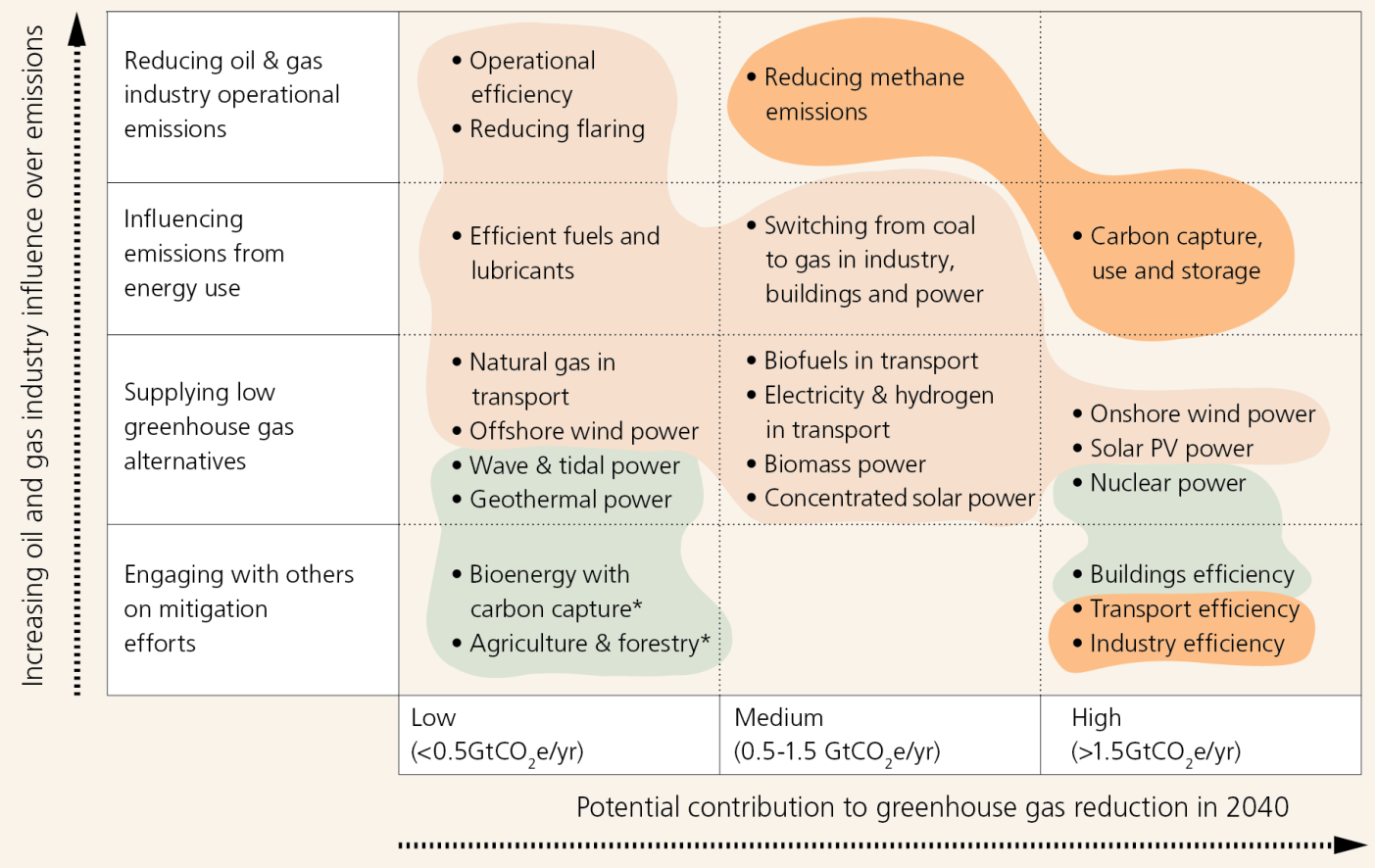
Reducing greenhouse gas emissions possible actions



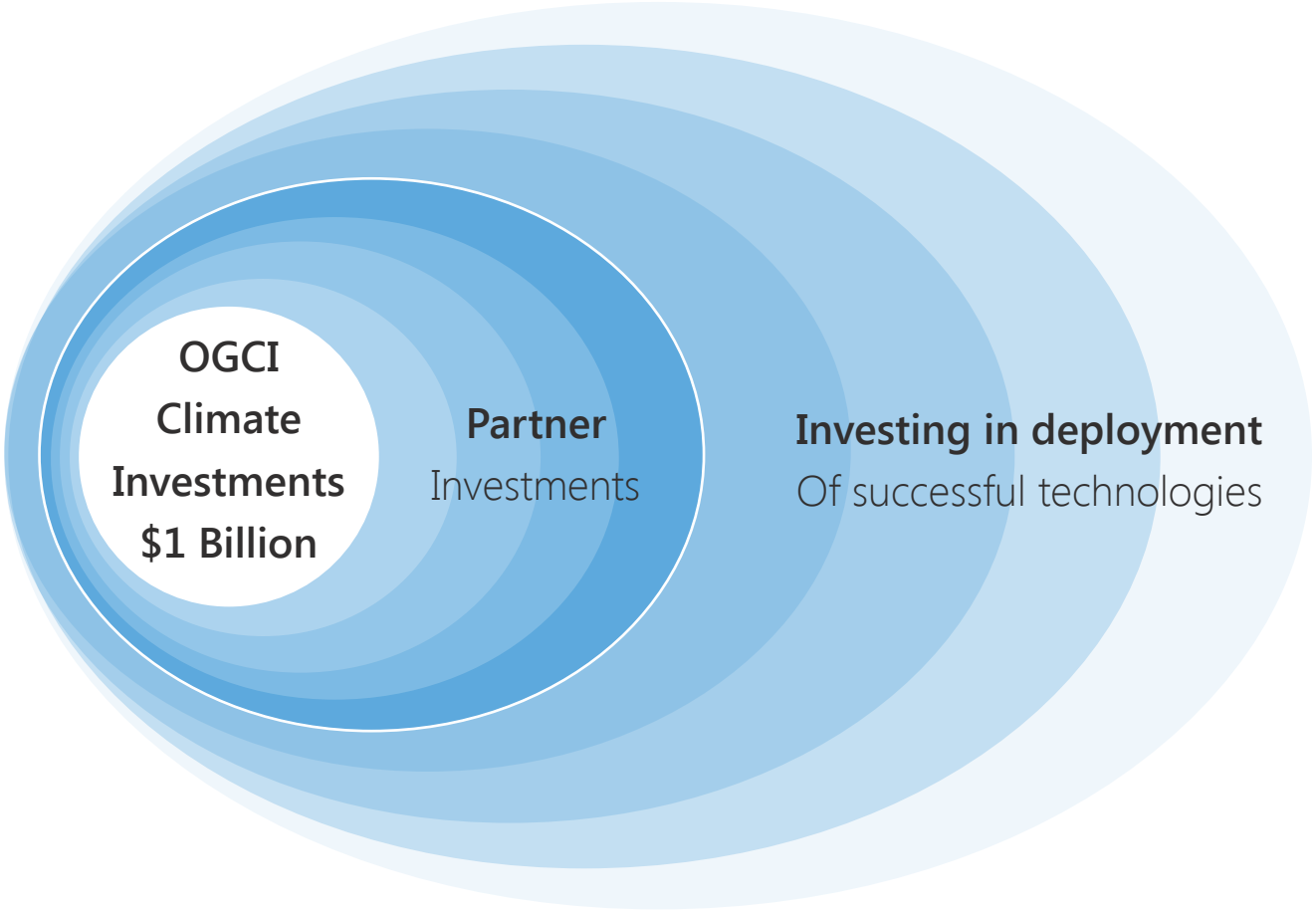
Focus Areas

- Focus areas for collective investment by OGCI, in addition to individual company action
- Existing focus areas for OGCI members
- Other potential areas

Our strategic assessment explored the actions identified by the IEA and others as having the potential to reduce greenhouse gas emissions sufficiently by 2040 to remain on track for a 2°C scenario. We mapped these actions on a matrix showing the emissions reduction potential (horizontal) and the oil and industry's ability to influence the activity (vertical). Actions located in the upper right-hand half of the most relevant, with some more appropriate for individual companies and some for collaborative OGCI initiatives.

Source: OGCI * These actions could have a more significant impact even before 2040, but will both be crucial elements of emissions reduction in the second half of the century.

OGCI Climate investments
The Multiplier Effect



We expect our investments to have a considerable multiplier effect.

This will come from partners investing along OGCI Climate Investments, as well as our own and other companies' investments in deploying commercialized technologies.

The overall impact on reducing emissions will be on the scale of a gigatonne or more over the decade.


bp


CNPC


eni


PEMEX ®


Reliance
Industries Limited
Growth is Life


REPSOL


أرامكو السعودية
saudi aramco


Statoil


TOTAL