

IEA-GOT Inaugural Meeting



- Houston, Texas, September 2017
- Scoping meeting to seek common ground and identify areas for potential collaboration
- Two senior experts from each of six E&P companies, together with IEA-GOT representatives

ExxonMobil

ConocoPhillips



JOGMEC



IEA-GOT Consortium Framing

- 1. Identify and align on potential strategic collaboration efforts that align with the value proposition of IEA-GOT, with a specific focus on understanding energy access choices and environmental topics.**
- 2. The IEA-GOT value proposition promotes the importance of technology in support of the role of oil and gas in the long-term energy future.**
 - *Identify the higher priority area(s) for framing potential collaboration and projects that are consistent with the IEA-GOT members strategic interests.***
- 3. Identify, develop and align on “next steps”, including definition of resources and timelines, to develop detailed proposal(s) for the priority area(s).**

IEA-GOT Consortium Framing Efforts

Status of Identifying Potential Topic Areas

July – August 2017: Based on the four work-streams, IEA-GOT solicited input from operators

September 2017: IEA-GOT held workshop with representatives from 6 operators to discuss potential focus areas

Work Stream Topics

Greenfield Development

Cost effectiveness, standardization, industry collaboration
 Drilling & wells
 Facilities
 Subsea & SURF
 Subsea processing, boosting, compression
 Frontiers – deeper, longer, colder, older
 License to operate – environmentally sensitive areas
 Gas to market

Brownfield Development

Extended lifetime of platforms
 Infrastructure integrity, monitoring, inspection
 Infill drilling, Smart wells, Well intervention
 Processing facilities – coping with water
 Remote/integrated operations, reduced/no manning
 Subsea satellites and hub development
 Subsea processing
 Enhanced oil & gas recovery

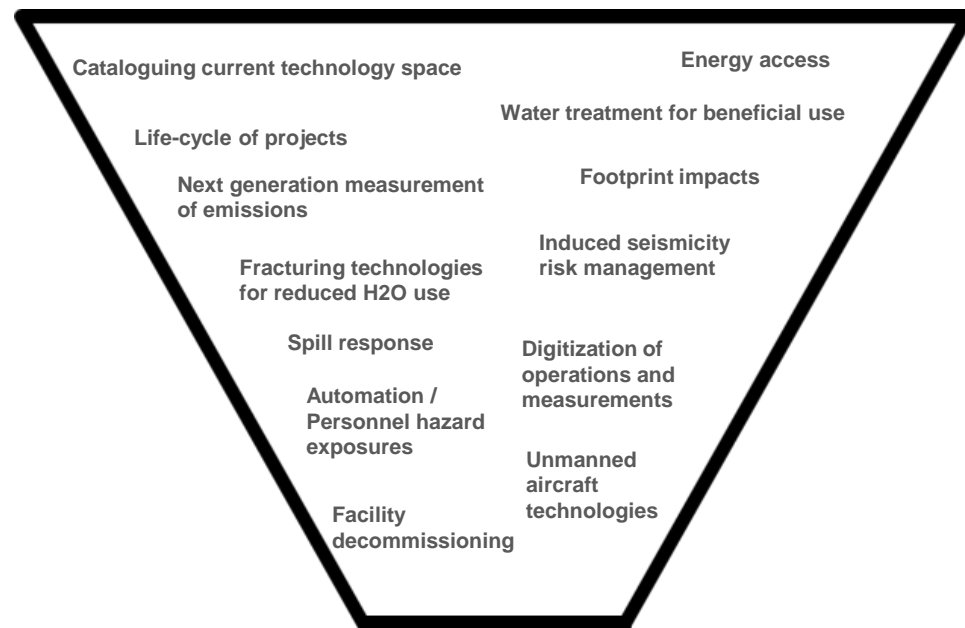
Unconventional Resources

Drilling and well efficiency
 Fracking, imaging, modelling, understanding the subsurface
 Water usage, reuse
 Controlling Fugitive Methane Emissions
 Technology Transfer
 R&D collaboration across regions (US-Europe-LatAm)

Gas to Market

LNG – HLG – CNG
 FLNG, stranded gas
 Arctic and remote gas
 Transition to Hydrogen based gas systems

Range of Potential Topics



➤ ***Understanding Energy Access Choices***

➤ ***Energy / Water Nexus***

IEA-GOT Consortium Framing

Two Emerging Potential Focus Areas

I. Understanding Energy Access Choices

- ***As an initial effort, consider pursuit of comprehensive life-cycle analysis and full footprint analysis of energy resources to establish “a level playing field of knowledge” (recognizing the carbon challenge)***
- ***With broad stakeholder collaboration, enable informed discussions of options and approaches to address energy access at regional scales (considering benefits and impacts)***

II. Water-Energy Nexus / Water Management (produced and freshwater management)

IEA-GOT Consortium Framing

Potential Collaboration Delivery Mechanisms

Joint Industry-Stakeholder Partnerships

- ***Leverage of engagement opportunities provided by IEA partnerships and relationships***
- ***Leverage of existing joint industry projects to synthesize available information and emerging knowledge (avoiding redundancy)***
- ***Enabling effective multi-stakeholder communication platforms to provide credible information based on sound science***

Potential Engagement Strategies Could Evolve Around:

- ***Multi-sector / stakeholder workshops***
- ***Position papers / “media-centers” / social media platforms***
- ***Defining and establishing “measures of success”***