



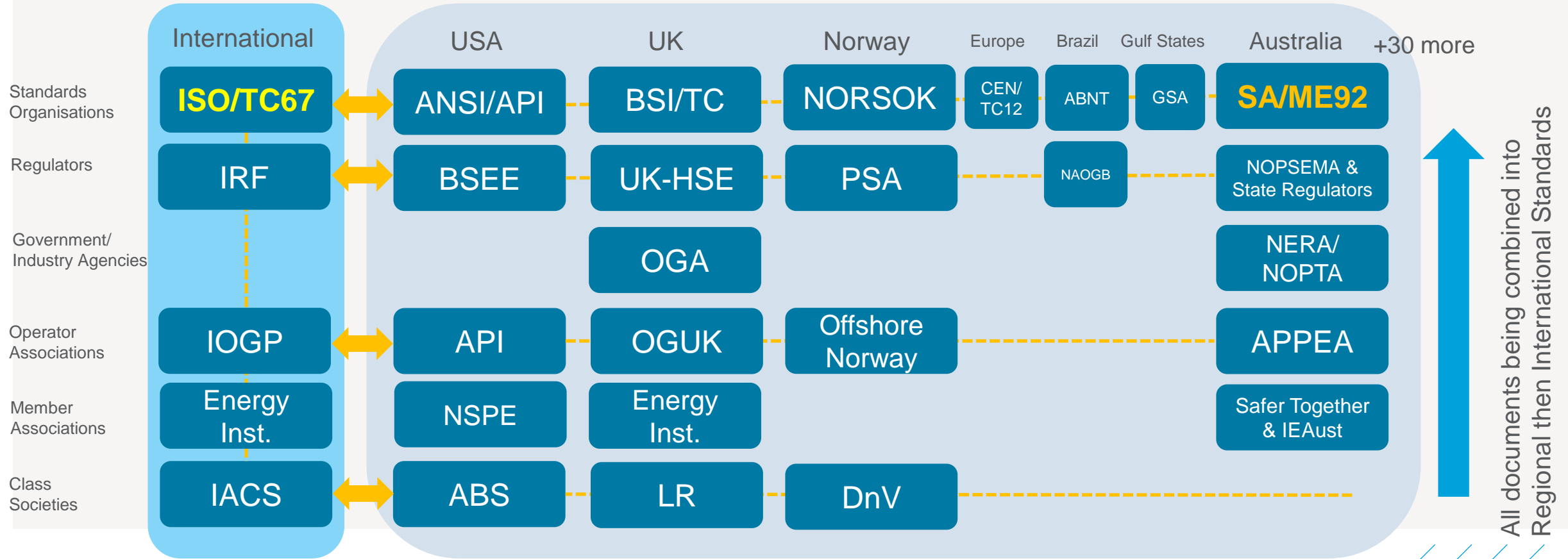
International Standardisation Driving Global Competitiveness and Sustainability of the Oil & Gas and Future Energy Industries

Dr Matt Keys – June 2021



Capital Project Complexity (CPC) Initiative

1. All Standards Bodies, Regulators, Oil & Gas Producers, Class Societies and Member Associations are now working together
2. Reducing the need for Regional and Company Standards & Specifications with ~250 International standards
3. Reducing the costs of projects, operations and decommissioning through global consistency



ISO TC67 published and under development
Standards – 9 October 2020

ME92 Update May 2021

Chair: Menno Weustink
Deputy Chair: Matt Keys

ISO TC67
[219]

TC67 Management
Committee

TC67 MC Task Force
Communication

Matt Keys

Matt Keys
(temp)

Ad-hoc Group 01
Green Manufacturing

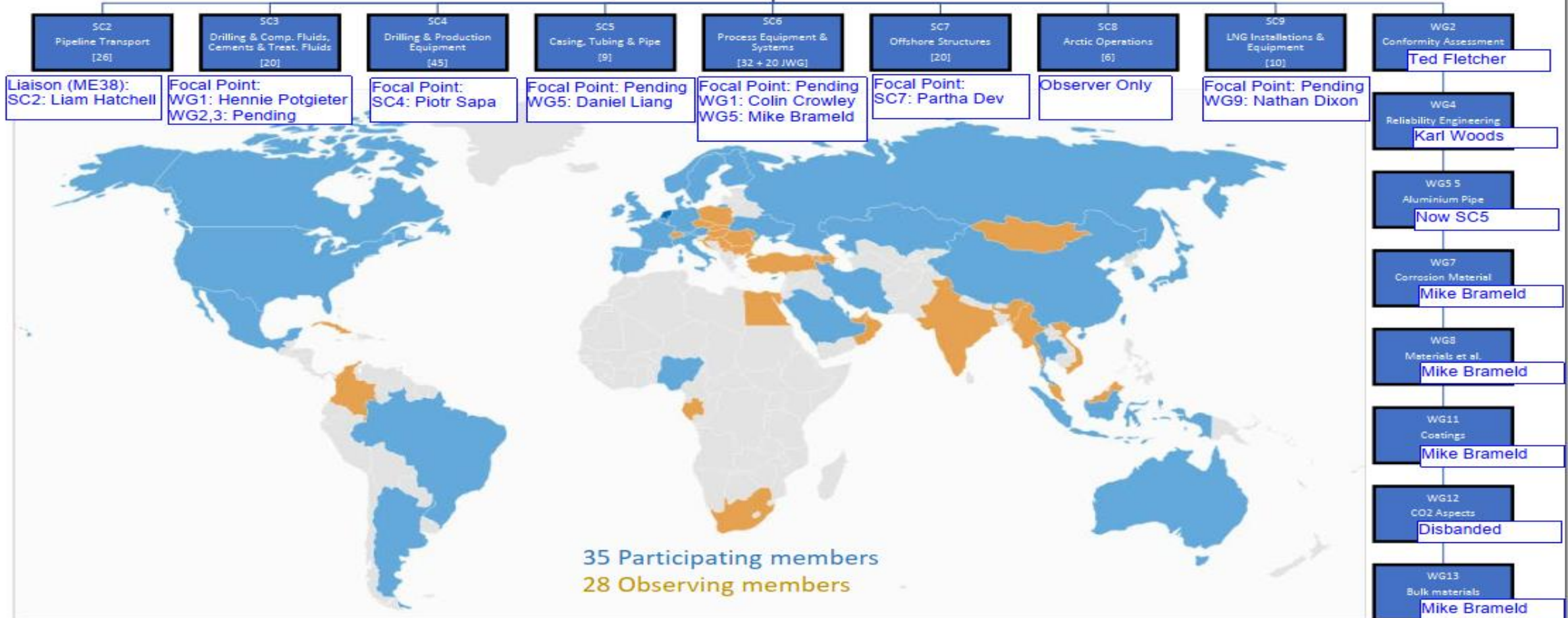
Ad-hoc Group 02
Improved Oil Recovery /
Enhanced Oil Recovery

TBC

TBC

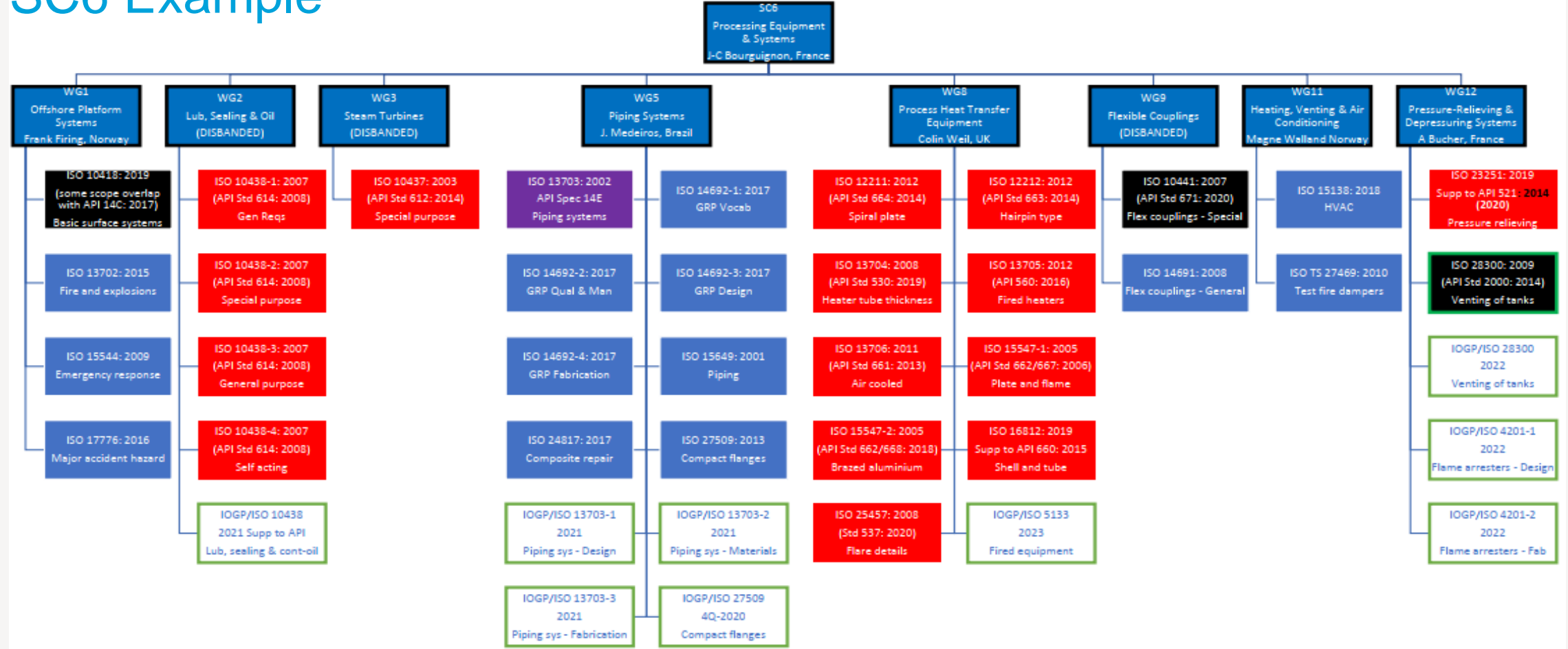
Advisory Group
Digital Implementation

- Key Points:**
1. All disciplines covered
 2. Each country gets one vote

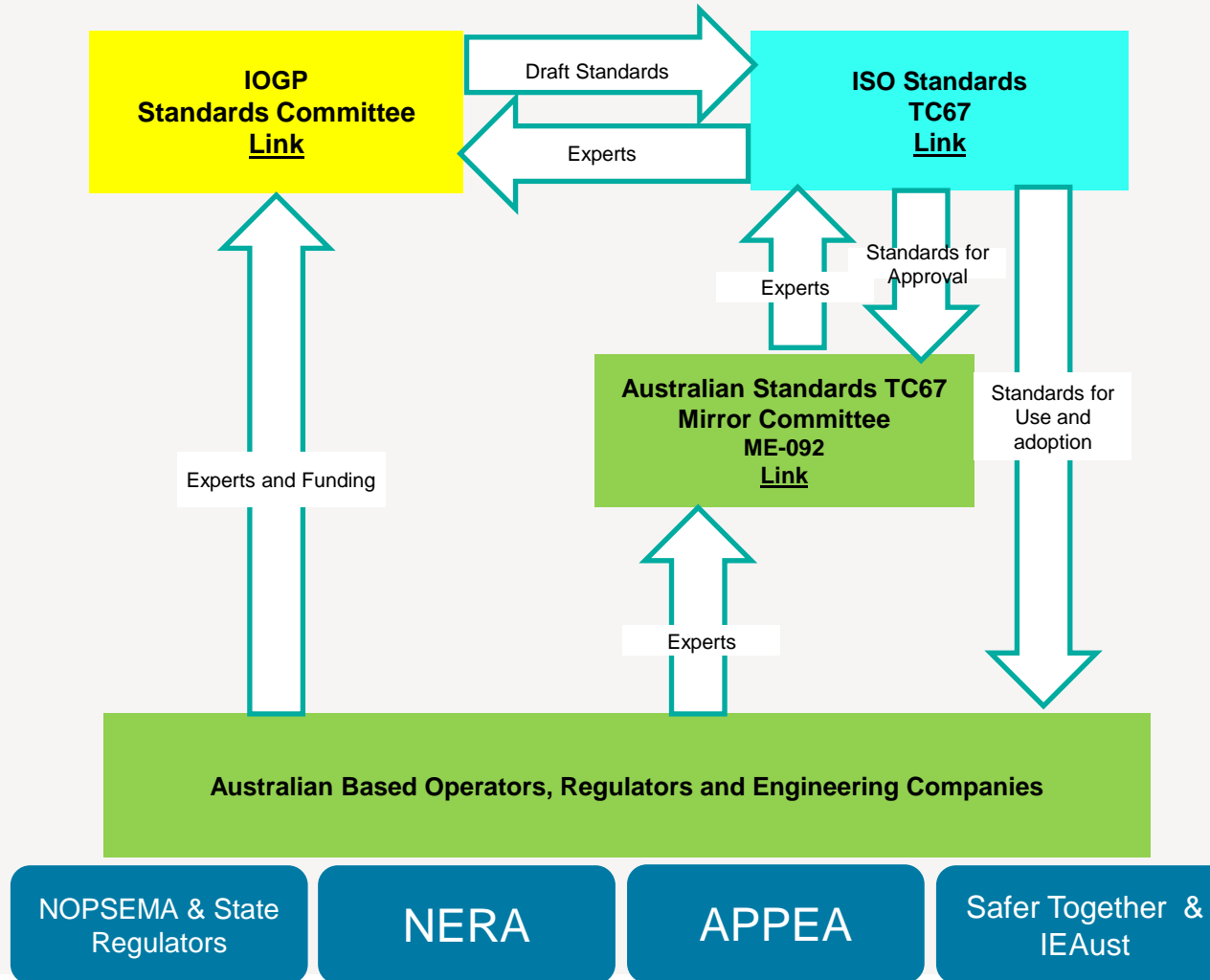


35 Participating members
28 Observing members

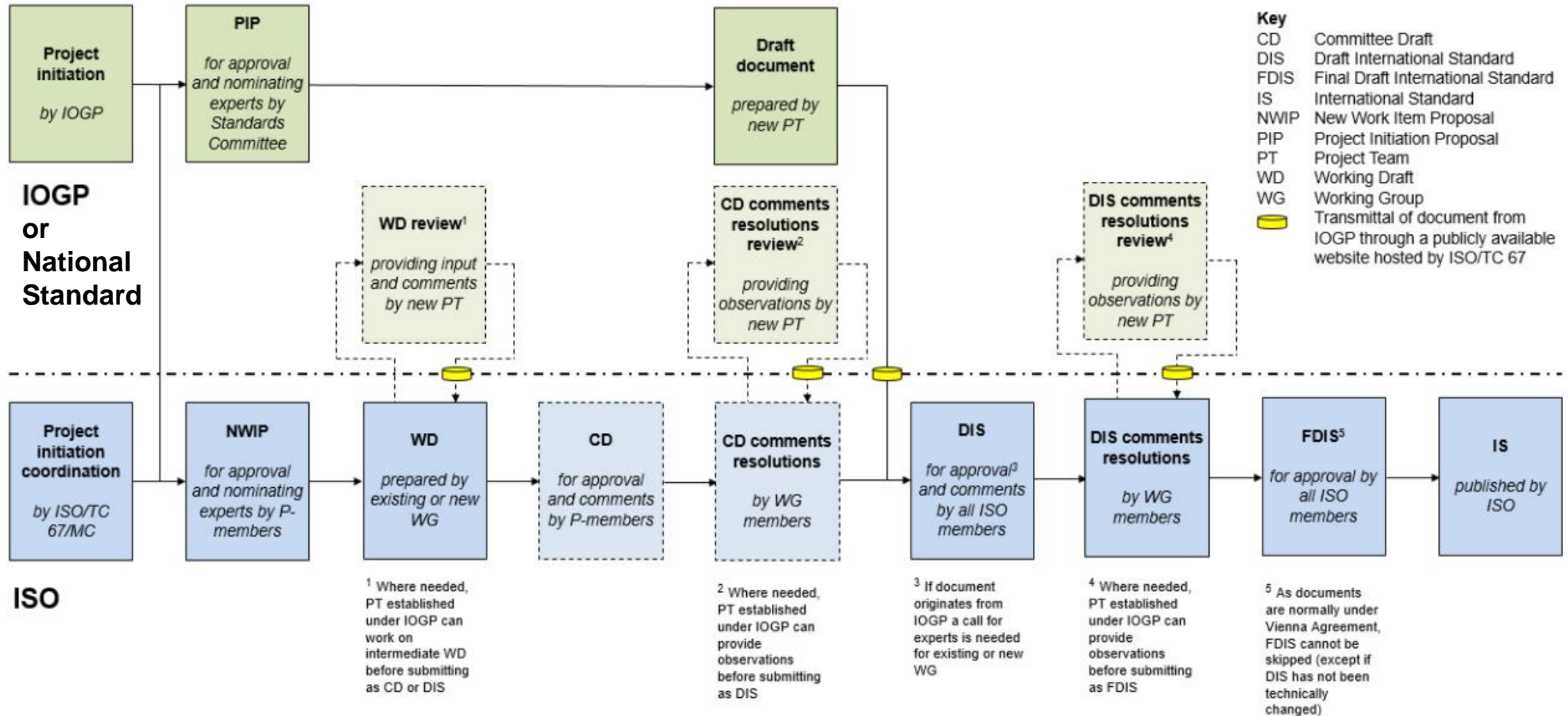
SC6 Example



IOGP, TC67, ME92 Links on Standards Collaboration for Australia



Standards Process (IOGP or National Standard to ISO)



Australian Example 1

The following guidance was issued by NOPSEMA for Well Integrity, which provided multiple standards as good industry practice for Well integrity

Following the Macondo and Montara blowouts in 2009 and 2010, API, ISO, Norsok, Oil and Gas UK and other bodies have developed and updated standards and guidelines specifically for well integrity in an effort to avoid repeating the costly mistakes of the past. The International Regulators Forum (IRF), of which NOPSEMA is a member, accepts the following as good industry practice:

- ISO 16530 Well Integrity — Part 1: Life Cycle Governance
- ISO 16530 Well Integrity — Part 2: Well Integrity for the Operational Phase
- Norsok Standard D-010 — Well Integrity in Drilling and Well Operations
- Oil & Gas UK Well Integrity Life Cycle Guidelines
- Oil & Gas UK Guidelines for the Abandonment of Wells
- Oil & Gas UK Guidelines for Qualification of Materials for the Abandonment of Wells.

As part of TC67 and the CPC, the ISO documents have since been adopted by Standards Norway and British Standards as their National Standard and they are both part of TC67 - SC4/WG4 to continue to review its relevance

Australian Example 2



Improving MODU mooring system integrity for cyclonic conditions

The integrity of mooring systems on mobile offshore drilling units (MODUs) is a critical barrier in preventing subsea loss of containment events and collisions with surrounding infrastructure. Lessons learned from a mooring failure incident in early 2015 highlight the need for step change in improving mooring system integrity for Australian conditions, specifically cyclonic conditions.

On 12 March 2015, the *Atwood Osprey* MODU experienced a mooring failure during Cyclone Olwyn and was blown three nautical miles off location in the vicinity of subsea and surface infrastructure and an environmentally sensitive shoreline. At the time, the rig had already been powered down and its workforce evacuated. The incident, however, still had the potential for catastrophic consequences to the facilities and infrastructure nearby, their workforce and the environment.

Following the incident, NOPSEMA conducted a formal investigation and hosted a workshop with industry. The workshop aimed at providing insight into the contributory, causal and other relevant factors of the mooring failure incident and sought to identify best practices, opportunities for improvement, regulatory requirements and perspective.

In early 2015 a Mooring incident occurred during cyclonic conditions on a MODU off the WA coast

New guidance for Australian waters was issued through APPEA in October 2016 and the link shared through NOPSEMA.

Current situation

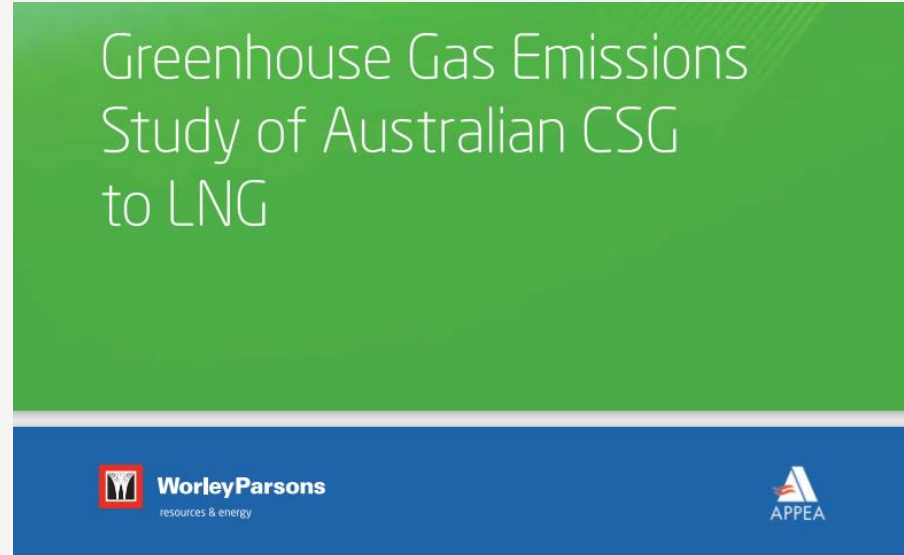
1. the NOPSEMA link to the Rev 0 document is no longer valid
2. The document was updated by APPEA DISC to Rev 1 in 2017 and stored on the new industry group 'Stand Together for Safety' (STFS)
3. In December 2019, Rev 2 was back on the APPEA site as the only safety document. The Rev 2 document references the 3rd edition of API RP 2SK and the 2013 edition of ISO 19901-7

Way Forward

1. ISO 19901-7 and API RP 2SK are being combined under one document through IOGP/ISO-TC67.
2. Australia's requirements can be added through the ME92-TC67 link

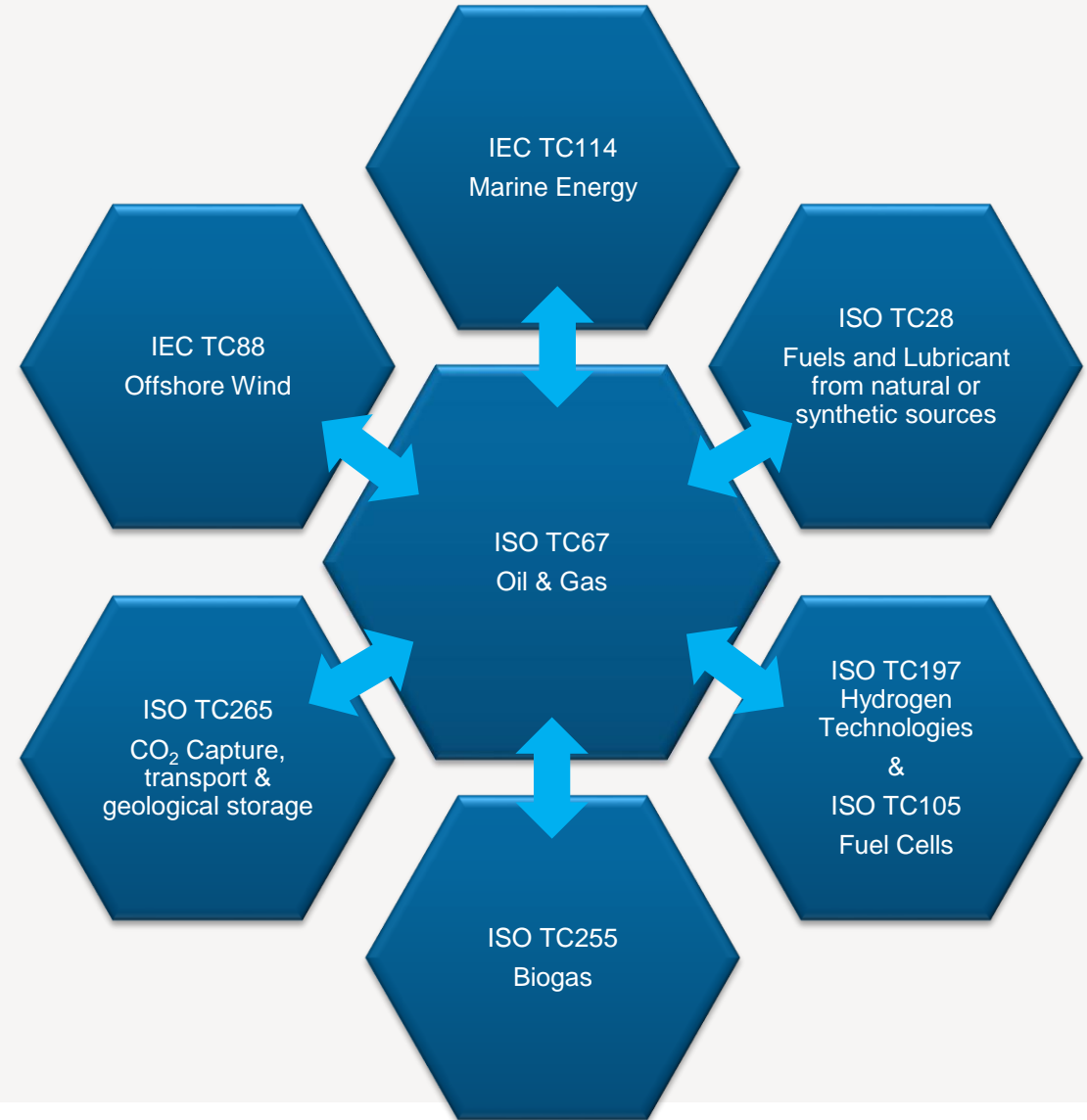
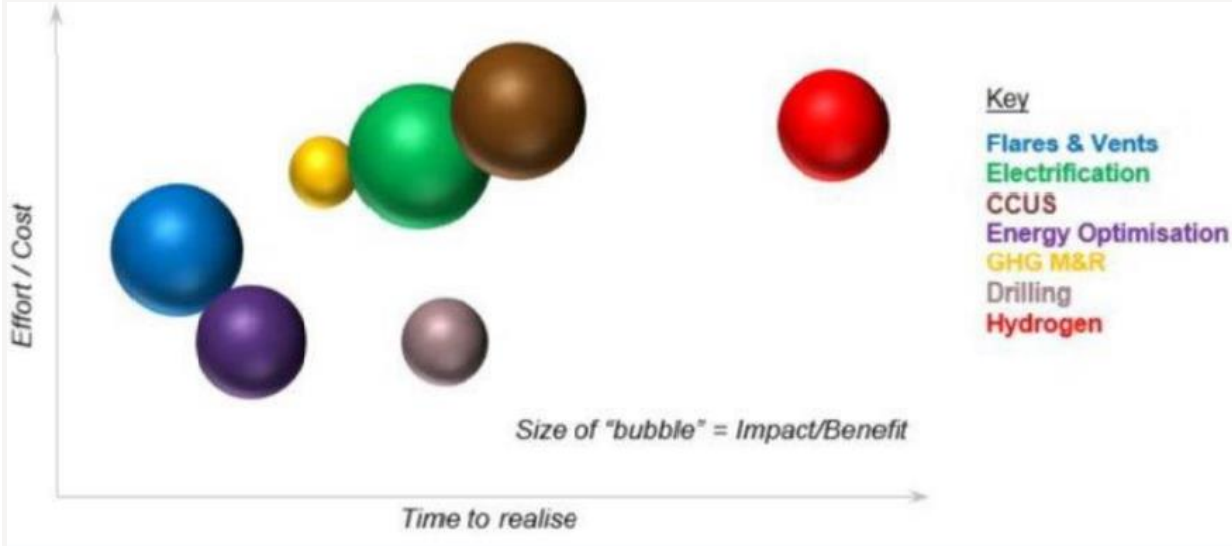
Australian Example 3

In 2011, APPEA commissioned a report into GHG emissions for the Coal Seam Gas - LNG industry in comparison to the Coal power generation



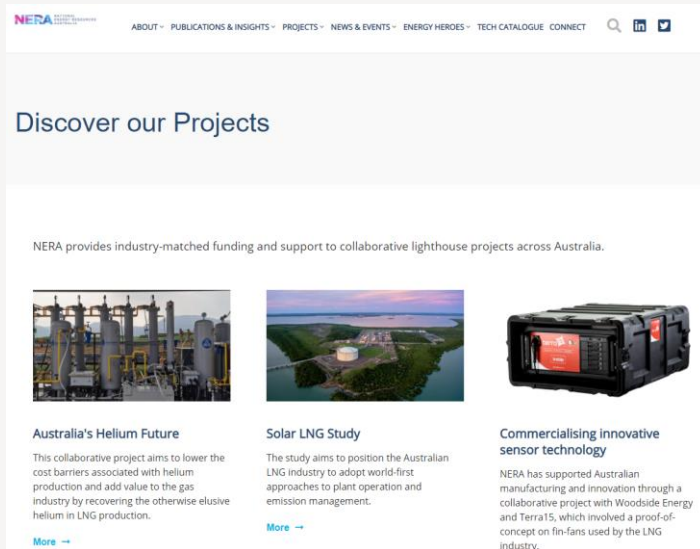
In 2021, ISO TC67 is now developing a common standard for GHG emission calculations

Future Industries



How to get involved and find out more

www.nera.org.au/NERA-projects

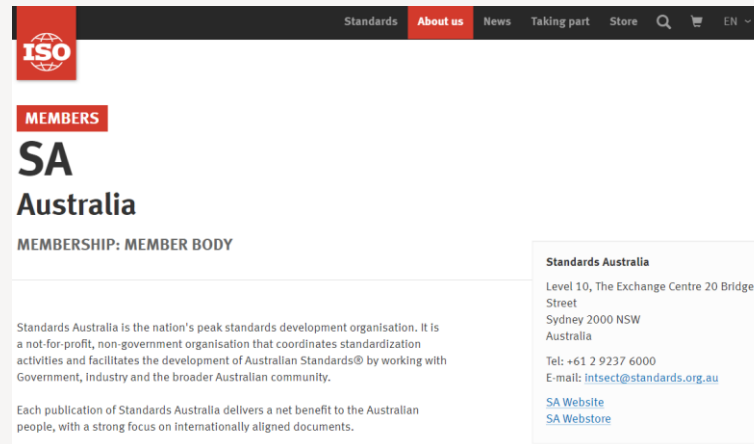


Discover our Projects

NERA provides industry-matched funding and support to collaborative lighthouse projects across Australia.

- Australia's Helium Future**
This collaborative project aims to lower the cost barriers associated with helium production and add value to the gas industry by recovering the otherwise elusive helium in LNG production.
- Solar LNG Study**
The study aims to position the Australian LNG industry to adopt world-first approaches to plant operation and emission management.
- Commercialising innovative sensor technology**
NERA has supported Australian manufacturing and innovation through a collaborative project with Woodside Energy and Terra15, which involved a proof-of-concept on fin-fans used by the LNG industry.

www.iso.org/home/tc67



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ME-092

ME-092 - Australian Standards Mirror Committee to ISO/TC67

Listed group