



**5th ISO Seminar on International Standardization
in the
Reliability Technology and Cost Area**

December 1, 2022, Paris

**ISO/TC 67 Committee Manager
Françoise van den Brink**



ISO/TC 67

Oil and gas industries including lower carbon energy



ISO/TC 67

Chair: Mr Philip Smedley (BP)

Secretariat team (NEN):

- Françoise van den Brink (Committee Manager)
- Lennart de Waart
- Emiel Janssen
- Beth Henneveld (secretariat support)



ISO/TC 67 - scope

Standardization in the field of the oil & gas industry, including, petrochemical and lower carbon energy activities

Excluded:

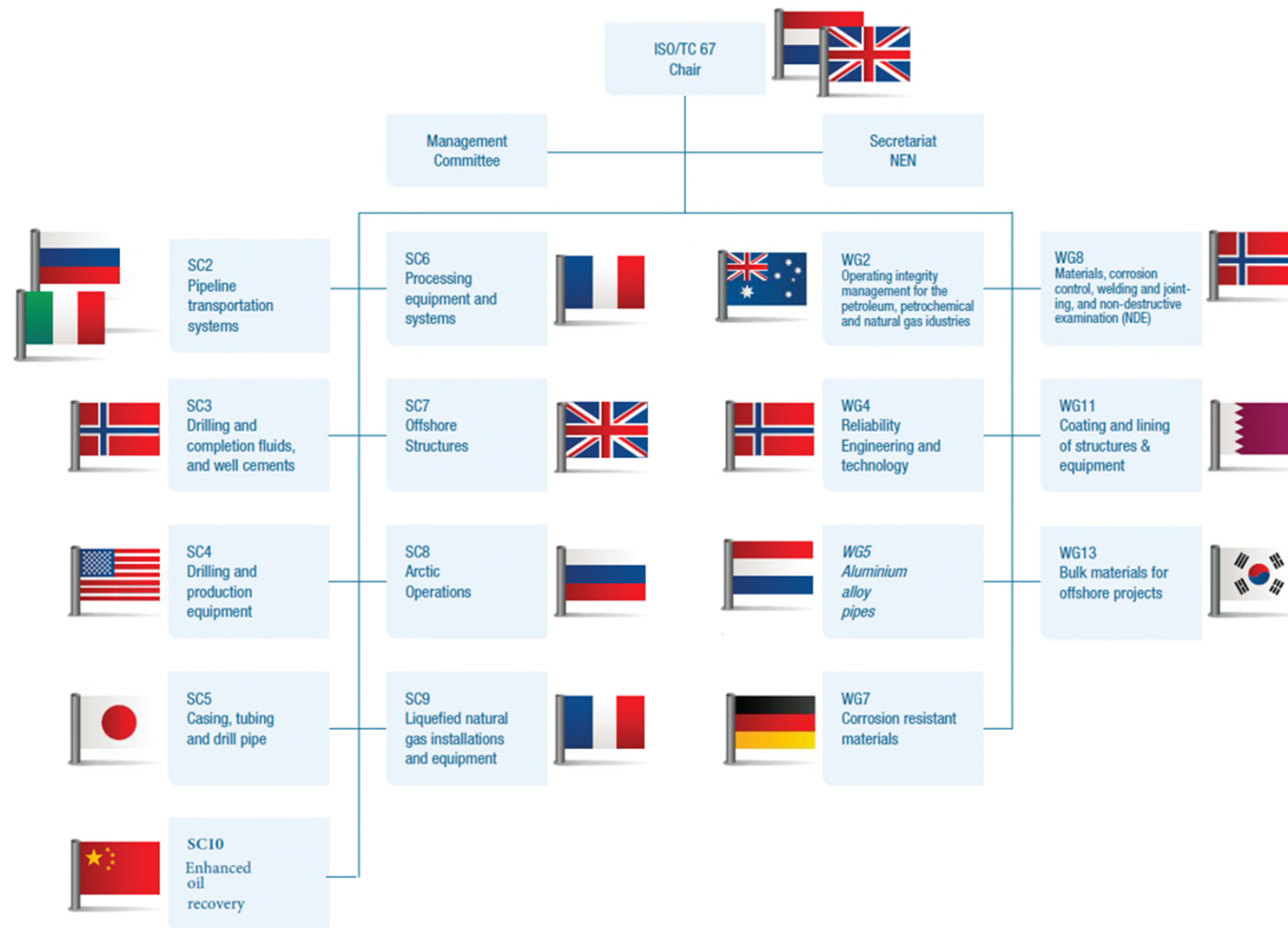
- aspects related to the Petroleum and related products, fuels and lubricants from natural or synthetic sources being covered in ISO/TC 28
- aspects related to Natural gas being covered in ISO/TC 193
- aspects related to hydrogen technologies being covered in ISO/TC 197
- aspects related to biogas being covered in ISO/TC 255
- aspects related to Carbon dioxide capture, transportation, and geological storage being covered by ISO/TC 265
- aspects of offshore structures subject to IMO requirements (ISO/TC 8)

ISO/TC 67 - Goal

Our goal

- Prepare standards required by the industry
- Prepare standards that are adopted worldwide by bodies such as ABNT (Brazil), API (USA), CEN (Europe), GOST R (Russian Federation), GSO (Gulf Region) and SAC (China)
- Prepare standards that are recognized by regulators
- Publish standards that enable companies to minimize their specifications
- Deliver standards to the target dates on the agreed work programme

ISO/TC 67 – Organizational Structure 2022

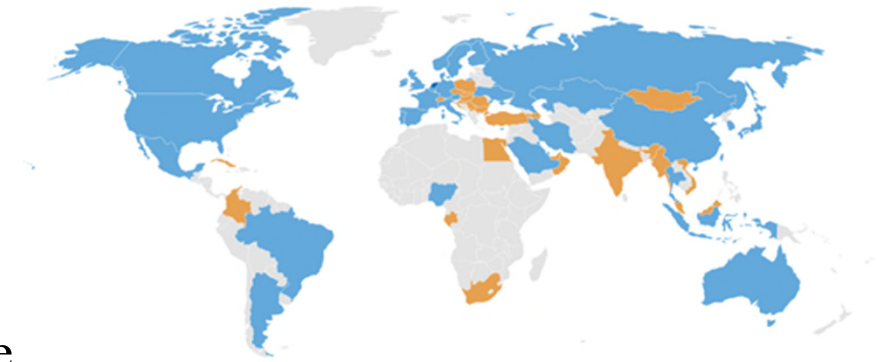


ISO/TC 67 – Why standardize

- Standards help to manage complexity and thus to reduce risk:
- Safety
- Environmental
- Provide “level playing field”
- Standards help to control variety saving cost and time:
- “more of the same”: economy of scale

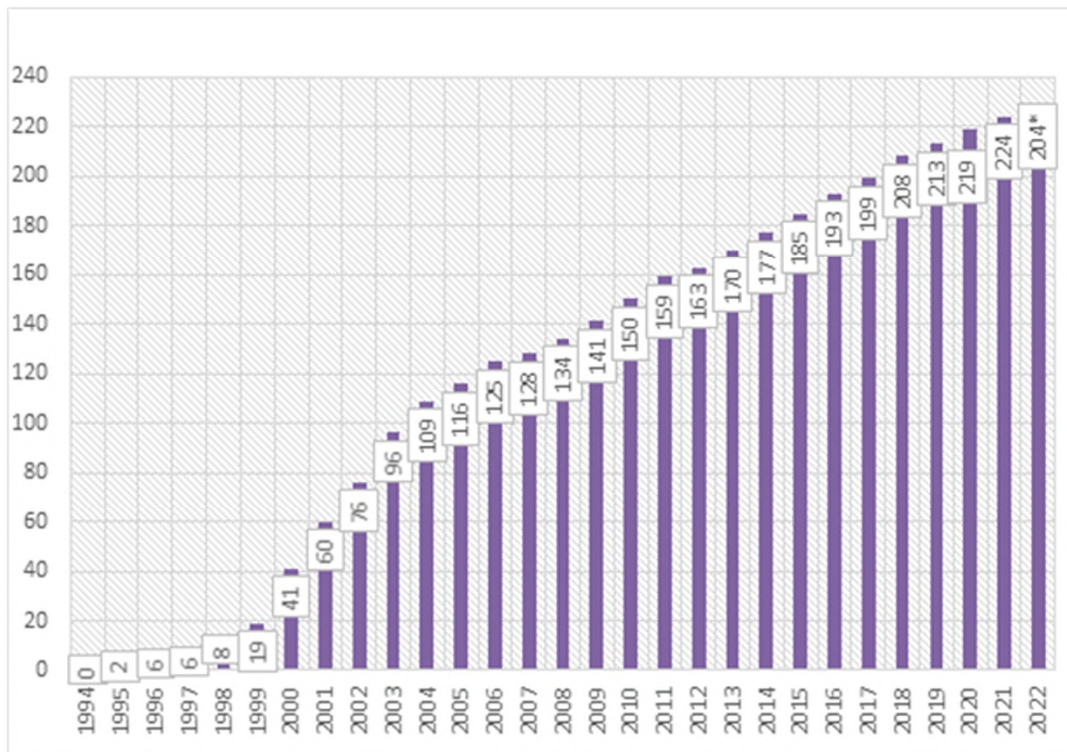
ISO/TC 67 – facts and figures

- Member countries: 35 participating, 27 observing
- Work environment includes option of IOGP Standards Solution since March 2014
- Involves more than 2500 engineers around the globe
- Last annual meeting 20-21 October 2021, virtual
- Annual meeting 2022 19-20 October 2022, hybrid in The Hague, The Netherlands
- MC meets face-to-face once a year + bi-monthly teleconferences. The face-to-face meeting was organized as a hybrid meeting in 23-24 March 2022.

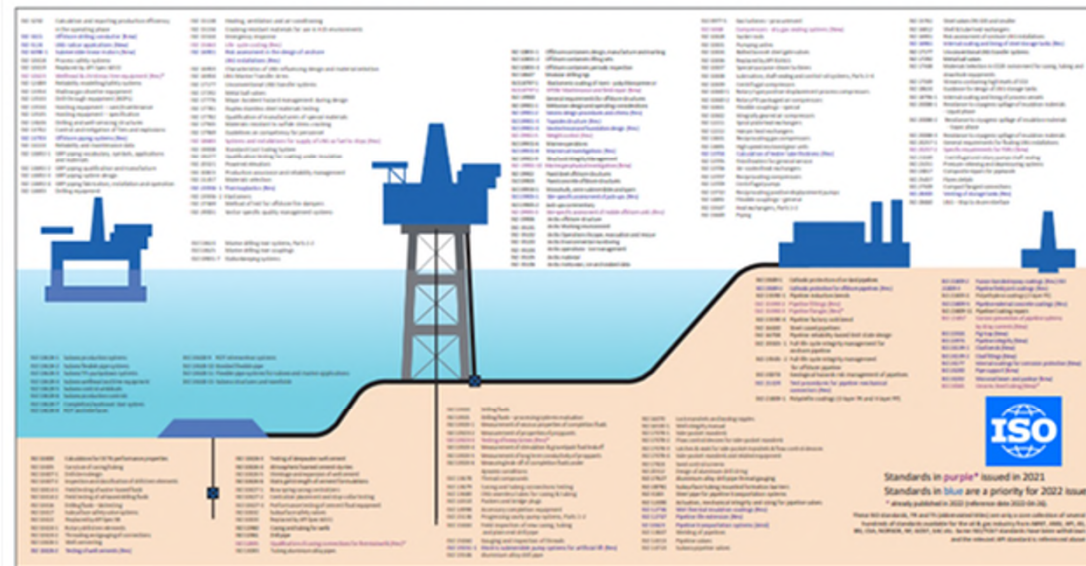


ISO/TC 67 – work programme

- Published standards: 204
- Current work programme: 42 standards (new + revisions)



ISO Standards for use in the oil & gas industry



ISO/TC 67 – revised title and scope

Previous title & scope of TC67

Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries

Standardization of the materials, equipment and offshore structures

used in the drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.

Excluded: aspects of offshore structures subject to IMO requirements (ISO / TC 8).

New title & scope ISO/TC 67

Oil & gas industries including lower carbon energy

Standardization in the field of the oil & gas industry, including petrochemical and lower carbon energy activities.

Excluded:

- *aspects related to the Petroleum and related products, fuels and lubricants from natural or synthetic sources being covered in ISO/TC 28;*
- *aspects related to Natural gas being covered in ISO/TC 193;*
- *aspects related to hydrogen technologies being covered in ISO/TC 197;*
- *aspects related to biogas being covered in ISO/TC 255;*
- *aspects related to Carbon dioxide capture, transportation, and geological storage being covered by ISO/TC 265;*
- *aspects of offshore structures subject to IMO requirements (ISO/TC 8).*

ISO/TC 67 - Communication

OTC 2022 in Houston, Texas, on 5 May
ONS 2022 in Stavanger (Norway), on 30 August

Action sum-up
-OTC 2022 Standardization Panel session 5 May 2022
- ONS 2022 Panel session 30 Aug 2022

For an efficient energy transition (energy supply, cost management and lower carbon) there is a need for:

- A structural reduction of Life Cycle Cost (CAPEX, OPEX and Lost revenue)
- Industry collaboration and alignment, with involvement of the new generation engineers
- Cost efficient supply chains taken away waste and unnecessary engineering
- Development of a global digital vocabulary (Standardised ReferenceData Libraries (RDL)) unlocking digitalization values
- Instantaneous feedback loops such that standards can be kept fit-for-purpose

Actions for the industry:

1. Drive towards cost-efficient supply chains and challenge ourselves that would compromise this (willingness to have difficult discussions)
2. Through industry associations, provide instant user feedback and share experience on the use of our standards
3. Collaborate to develop and maintain cost effective and relevant international standards that can be used worldwide
4. Drive existing standards to an essential minimum enabling safety and cost efficiency serving also lower carbon and renewable industries



ISO/TC 67

Visit the Technical Committee's own website for more information.



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What was already within scope



1. Lower carbon “Green” manufacturing
2. Electrification of process equipment
3. GHG emissions calculation
4. Venting & flaring
5. Decommissioning
6. Efficiency improvements
7. Extend offshore-to-onshore and onshore-to-offshore limits on some materials & equipment

Outside scope / already in TC67 Standards



1. Pipeline transportation (SC2):

Water based fluids

Non flammable/non toxic gases (e.g. nitrogen, air, argon)

Other flammable or toxic gases (e.g. H₂, CO₂, ammonia and chlorine)

2. Sea/Land Transportation (SC9):

Marine vessels for LNG, Bunkering, ship/shore, railcar,

Liquid Organic Hydrogen Carriers (LOHC)

3. QMS, competency, functional specifications, costings (WG2 & WG4)

Encourages ISO/TC 67/SC 2, SC 9, WG 2 and WG 4 to continue the good work on the energy transition needs

Expanded scope to allow (all/part)



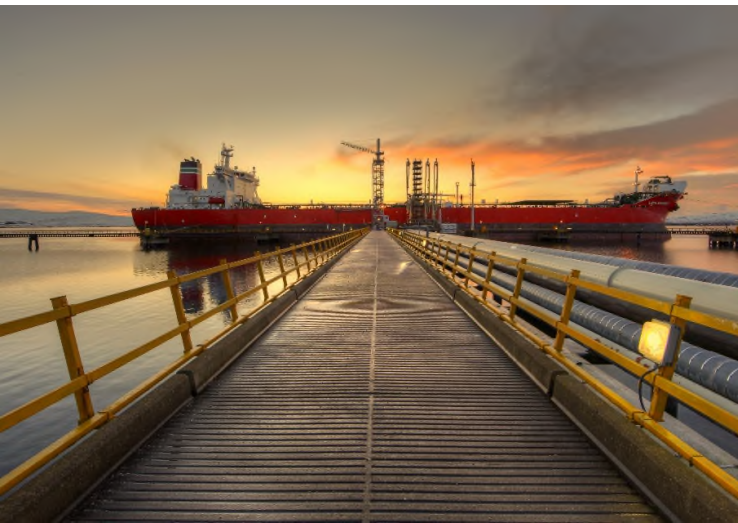
1. Non O&G wells and storage
CO₂, Geothermal wells, salt/mineral mining wells, storage (hydrogen, other fluids/gasses)
2. Offshore wind turbine
Structure, anchoring/soils, installation & removal
3. Non O&G use of offshore platforms
4. Hydrogen production
5. Land, sea and air transport
6. CCUS – local reinjection
7. Biogas flaring (under reduction of flaring)
8. Energy system integration
9. Security protection of assets
10. Any other non Hydrogens and Carbons e.g. ammonia?

SC/WG title, scope & standards?



Subcommittees have their own titles and scopes that sit within ISO TC67 scope. SC members decide upon their title, scope and standards.

- Opportunity to reflect on opportunities to enhance the scopes of specific standards or create new standards especially covering some lower carbon / green manufacturing topics.
- Opportunity to updated SC titles and scopes to better capture your portfolios of standards.



ISO/TC 67

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