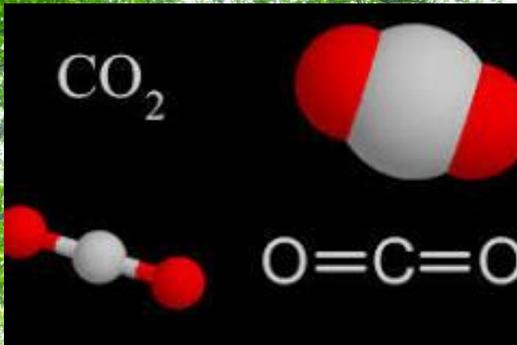




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EUROPEAN CCUS STANDARDISATION

The harmonisation need for
progression to store and utilise CO₂.

5 MAY 2025

CCS CORE POLICY

The **EU DIRECTIVE 2009/31/EC** in the geological storage of carbon dioxide (CCS-Directive) is in place to ensure safe permanent storage however this is very general by design. Utilisation is not foreseen. An implementation report was published in October 2023.

The 2021 revision of the **EU ETS clarifies that CCS** and permanently **chemically bound CCU** are **fully exempted** from the ETS. The European Commission will still adopt secondary legislation to clarify when CCU is considered to be permanently chemically bound.

Carbon Removals and Carbon Farming (CRCF) Regulation (EU/2024/3012), is foreseeing DAC and BECCS. Standardisation is adding the requirements to have an EU level playing field or even beyond in global perspective.



THEY NEED FOR STANDARDISATION



International
Organization for
Standardization

TC 265 - A global ISO committee

ISO/TC 265/WG 1	Capture
ISO/TC 265/WG 2	Transportation
ISO/TC 265/WG 3	Storage
ISO/TC 265/WG 5	Cross Cutting Issues
ISO/TC 265/WG 6	EOR Issues
ISO/TC 265/WG 7	Transportation of CO2 by Ship

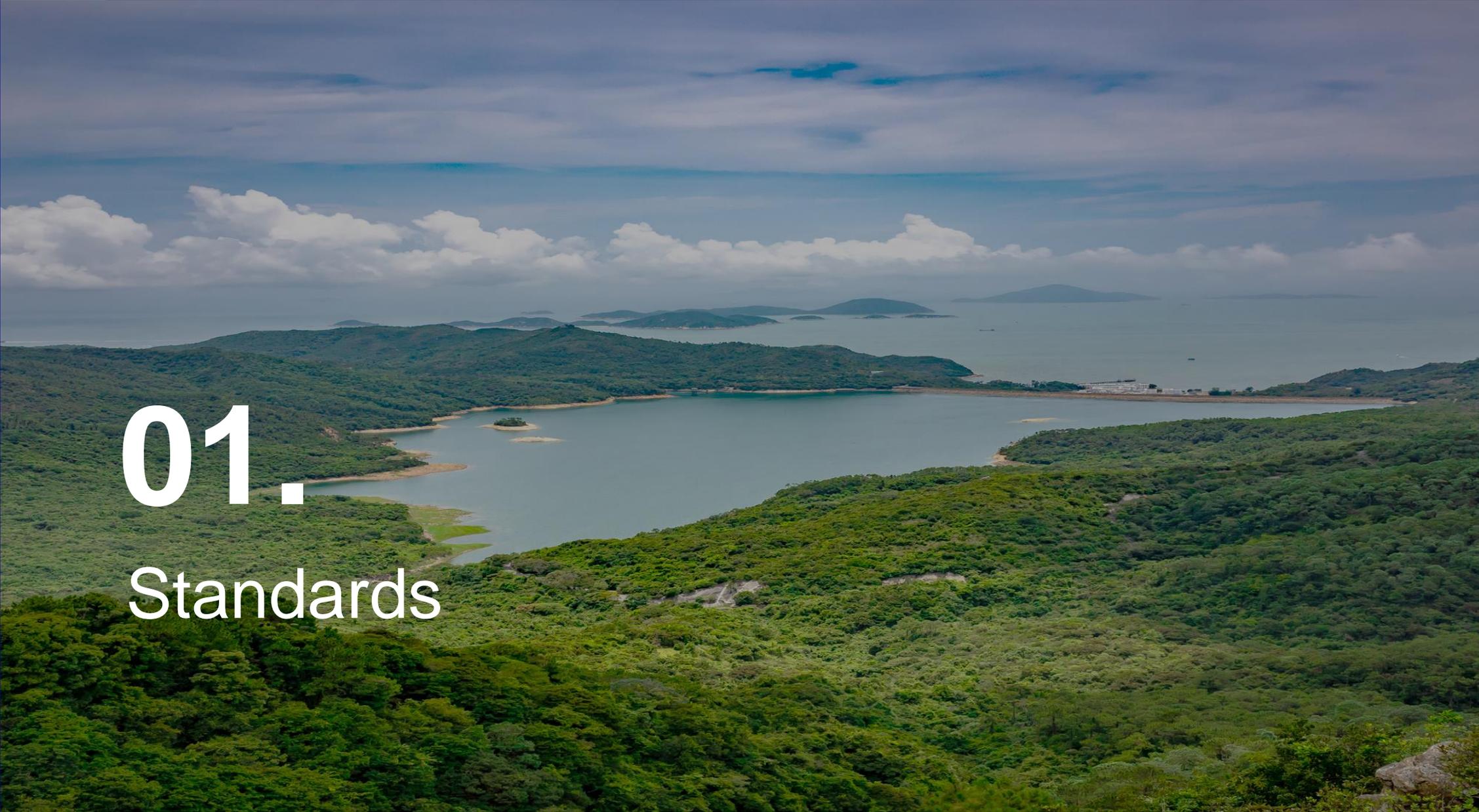


EUROPEAN COMMITTEE
FOR STANDARDIZATION

In 2023 the EUROPEAN TC474 committee at CEN has been started:

- WG1 Stream quality
- WG2 Pipelines
- WG3 Accounting
- WG4 GEO

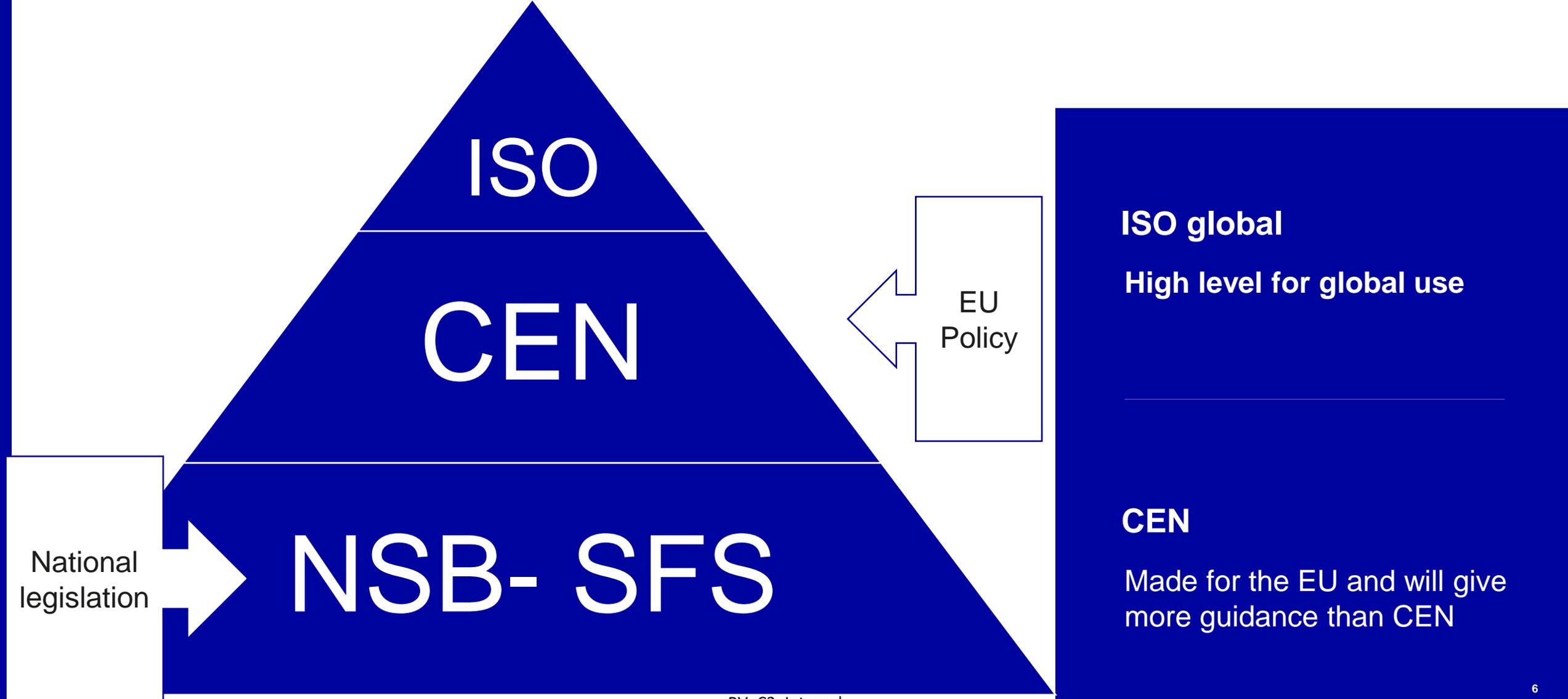




01.

Standards

Standard and the relation



ISO global

High level for global use

CEN

Made for the EU and will give more guidance than CEN

CEN/TC 474

CEN/TC 474 'CO₂ capture, transportation, utilization, storage and carbon accounting'

- The full lifecycle of CCUS projects;
- design, construction, commissioning, operation, inspection and maintenance, abandonment / end of life / post-closure handover, storage and retrieval;
- specific health, safety, and environmental aspects;
- risk and integrity management and lifecycle assessment of the project or technology;
- CO₂ stream composition and quality;
- measurement, monitoring, verification (MMV) and quantification, including accounting of the CO₂ across the CCUS value chain.

CEN/TC 474 Subcommittees and Working Groups

Working group	Title
CEN/TC 474/WG 1	CO2 Streams and Quality
CEN/TC 474/WG 2	Pipeline Transportation
CEN/TC 474/WG 3	CO2 Accounting
CEN/TC 474/WG 4	Geological Storage

ISO - TC 265

Carbon dioxide capture, transportation, and geological storage (since 2011)

Standardization of design, construction, operation, environmental planning and management, risk management, quantification, monitoring and verification, and related activities in the field of carbon dioxide capture, transportation, and geological storage (CCS).

[ISO/DIS 27914](#)

Carbon dioxide capture, transportation and geological storage — Geological storage

[ISO/CD 27916](#)

Carbon dioxide capture, transportation and geological storage — Carbon dioxide storage using enhanced oil recovery (CO₂-EOR)

[ISO/AWI 27917](#)

Carbon dioxide capture, transportation and geological storage — Vocabulary — Cross cutting terms

[ISO/FDIS 27927](#)

Carbon dioxide capture — Key performance parameters and characterization methods of absorption liquids for post-combustion CO₂ capture

[ISO/DIS 27928](#)

Carbon dioxide capture — Performance evaluation methods for CO₂ capture connected to a CO₂ intensive plant

[ISO/AWI TR 27929](#)

Transportation of CO₂ by ship





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