



ISO/TC 197
Hydrogen technologies

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Liaison report by CENCLCJTC6 plenary 2019

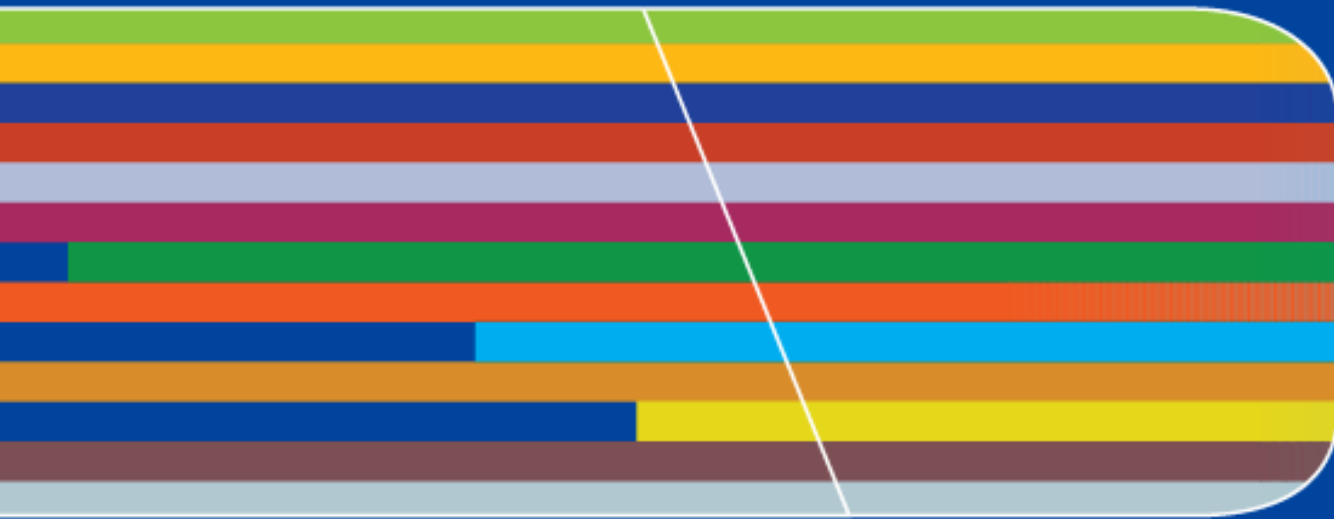
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Background: Please find attached the CEN/CLC/JTC 6 Hydrogen in energy systems submitted to TC 197.

Committee URL: <https://isotc.iso.org/livelink/livelink/open/tc197>



CEN/CLC/JTC 6 Hydrogen in Energy Systems

Liaison Report plenary meeting ISO/TC 197

2019-12-12 | Grenoble

Scope CEN/CLC/JTC 6



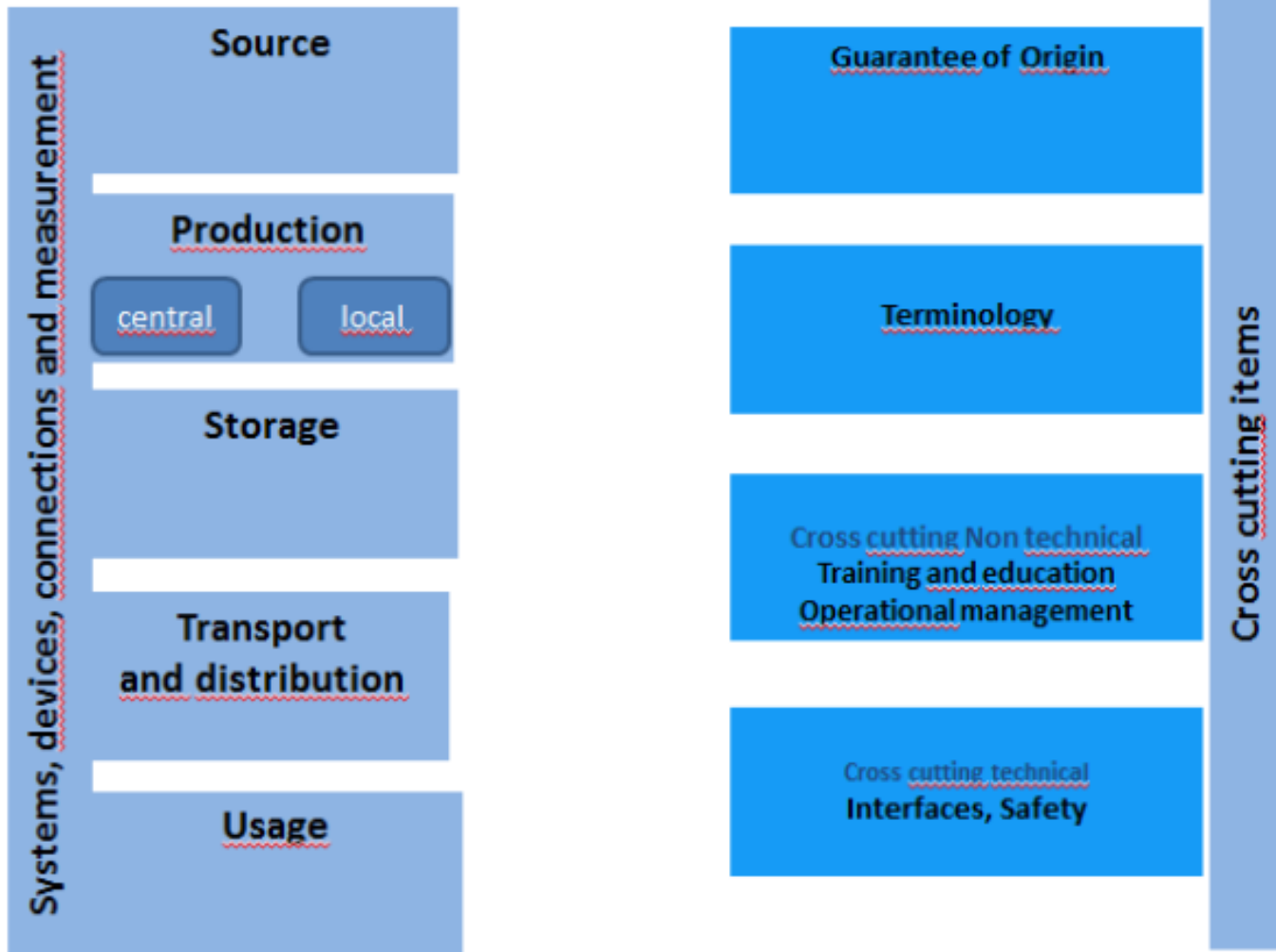
Standardization in the field of systems, devices and connections for the production, storage, transport and distribution, measurement and use of hydrogen from renewable energy sources and other sources, in the context of the European strategy for the development and acceptance of the hydrogen market.

The scope includes cross cutting items such as: terminology, Guarantee of Origin, interfaces, operational management, relevant hydrogen safety issues, training and education.

Excluded are:

- Storage and transport of liquid hydrogen which is covered in the scope of CEN/TC 268.
- Storage and transport of compressed hydrogen which is covered in the scope of CEN/TC 23.
- Vehicle refuelling stations and associated equipment and procedures as related to the standardization Request M/533.
- The injection of hydrogen and the mixture of hydrogen with natural gas (H2NG) in the gas infrastructure, which is covered in the scope of CEN/TC 234.
- The use of mixtures of natural gas with hydrogen (H2NG).

Scope CEN/CLC/JTC 6



Working Groups



WG 1: Terms and definitions

pNWIP - Hydrogen in energy systems – vocabulary

Aim: Develop unambiguous terminology for a hydrogen based energy system

Steps taken:

- Input from relevant TCs
- Outline with relevant topics
- Draft of EN Vocabulary of Hydrogen in Energy Systems
- Approval from ISO/TC 197 joint development with CEN/CLC/JTC 6 reverse Vienna Agreement project on the terms and definitions related to hydrogen in energy systems

Next steps:

- Further gap analysis
- Look into conflicting & multiple definitions
- Interaction with other TCs and ISO/TC 197

Working Groups



WG 2: Guarantees of Origin

Joint development (mode 4) with CEN/CLC JTC 14 '*Energy management, energy audits, energy savings*' and CEN/CLC/JTC 6 '*Hydrogen in energy systems*' for revision EN 16325 '*Guarantees of Origin related to energy - Guarantees of Origin for Electricity*'
Including hydrogen

JTC 14 WG 5 has been dedicated for the revision of EN 16325.

➤ Kick off to be expected February 2020

Mode 4 – Collaborative relation

One Party takes the lead in the activities but the work sessions and meetings receive delegates from the other(s) who have observer status and who assure the technical liaison with the other Party. Such observers should have rights as defined in Annex 3.

Working Groups



WG 3: Hydrogen safety

Draft pNWIP – Hydrogen Safety in Confined Spaces

Included in the scope (will be further defined)

- Ventilation (natural/forced ventilation)
- Detection, location and density of detectors
- Leakage aspects (rates, size of the room);
- Explosion risk analyses and resulting safe designs
- Fire fighting, emergency preparedness, etc;
- Etc.

Other:

- Follow research developments on tunnels and confined spaces (FCH JU project HyTunnel-CS)

Further actions



- SRAhG Standardisation Request
- Brainstorming sessions:
 - Maritime, green/low carbon hydrogen aspects, etc
- Close co-operation with CEN/TC 234
- Close co-operation with ISO/TC 197