

Recommendations and actions: Resulting from the ISO Roundtable on the global harmonization of regulations, codes and standards for gaseous fuels and vehicles (10 January 2007).

1. ISO CS to communicate to the relevant ISO TCs (see list overleaf) the importance and role of their ISO standards in facilitating regulatory harmonization in this sector. In future, these ISO TCs should be provided with ISO TMB guidance on the use and reference of international standards in support of technical regulations. This guidance will facilitate their standards being used for regulatory purposes in the vehicle energy & infrastructure sector.
2. ISO CS and the ISO TMB should ensure that ISO TCs in this sector apply ISO's "global relevance policy". This includes developing standards that are as performance-based as possible due to the rapid development of technology in this field. This would also include the application of the policy to cope with differences in the needs of developed and developing countries. ISO CS to present further information on the global relevance policy at plenary sessions of the relevant TCs.
3. ISO CS should encourage the relevant ISO TCs to take into account existing work and documents, and to work closely with national standards organisations. This will help avoid conflicting requirements. ISO CS should also encourage the use of fast track procedures (where the proposed documents would be widely accepted by stakeholders) to develop and publish normative documents in shorter timeframes. ISO CS should make efforts to ensure stakeholders are aware of other standardization deliverables such as (ISO's International Workshop Agreements, Publicly Available Specifications and Technical Specifications). ISO CS should present such options at plenary sessions when requested and provide associated background material.
4. Current mechanisms should be examined to determine how regulators and developers of ISO standards can enhance the harmonization process through a continued dialogue. The focus of such discussions should be on ensuring coherence between technical regulations and related ISO standards by having ISO standards referred to in the regulations¹. ISO CS, with the relevant ISO TC Officers, should further increase and strengthen liaison with UN/ECE Transport Division and UN/ECE Sustainable Energy Division.
5. The relevant ISO TCs and their members should communicate the importance of regulatory participation in the standardization work at the national and international level. Continued efforts are needed to bring in regulatory views for example when forming the national brief to ISO meetings.
6. ISO CS, with the relevant ISO TC Officers, should encourage the national members of UN/ECE Transport Division and UN/ECE Sustainable Energy Division, to follow the work of their respective national mirror committee (feeding into the ISO TCs). ISO CS to indicate appropriate contact points for each ISO member.
7. ISO CS, with the relevant ISO TC Officers, should communicate to international trade bodies in the gaseous fuel and vehicle sector the importance of active industry participation in the relevant ISO/TCs (e.g. use ISO Focus articles, Press Releases of relevant new standards).
8. ISO CS and the ISO TC Officers should encourage P-Members of the committees to use the ISO standards in this sector for national work. Where national adoption is indicated, ISO CS should promote that such adoptions be done without change and in accordance with ISO/IEC Guide 21.

¹ It should be noted that the ISO TCs may work on other subjects not specific to the regulator.

9. ISO CS should communicate the list of priority areas for standardization to relevant ISO TCs (see list below) for their consideration giving details and the context of the event they come from (See table 1).

ISO Technical Committees relevant to the subject of the Roundtable include:

- ISO/TC 22, Road vehicles
- ISO/TC 58, Gas cylinders
- ISO/TC 193, Natural gas
- ISO/TC 197, Hydrogen technologies
- ISO/TC 220, Cryogenic vessels
- ISO TC 28, Petroleum products and lubricants

Table 1 Summary of priority areas for standardization identified by participants at the ISO Roundtable.

<p>H2 and NG fuel automotive subjects for considerations</p> <ul style="list-style-type: none"> • LNG and dual fuel standards and regulations for vehicles and fuels • Specification for natural gas hydrogen mixtures and components • Interchangeable components such as high pressure, low volume fuel containers and interfaces • Pressure units and temperature references • Fuel quality and vehicle safety • Material compatibility for hydrogen operation <p>Note: examine opportunities for harmonisation of European Regulation R110 with relevant ISO standards (eg, based on prioritization by relevant ISO TCs)</p>	<p>H2 and NG fuel infrastructure subjects for consideration</p> <p>Safety standards for:</p> <ul style="list-style-type: none"> • Fuelling stations • Cylinders • Pressure levels • Periodic inspection • Fuel quality
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Note: Further detail and clarification is required on the priority areas.

Note: It was noted at the Roundtable that there was a need for information sources to help Stakeholders to keep track of the regulations codes and standards in this sector.