



ISO/TC 197
Hydrogen technologies

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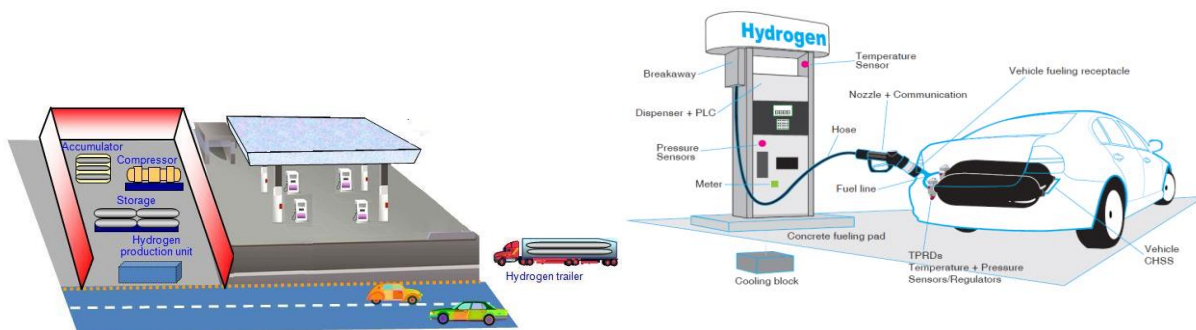
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ISO publishes new technical document for hydrogen fueling stations

On June 15, 2016 ISO published a new Technical Specification ISO/TS 19880-1:2016, *Gaseous hydrogen — fueling stations — Part 1: General requirements*, which will enable the deployment of hydrogen fueling stations in the public domain worldwide. The TS was prepared by ISO/TC 197 WG 24 lead by co-conveners Jesse Schneider (BMW) and Guy Dang-Nhu (Air Liquide), and Nick Hart (ITM Power) as secretary. A diverse group of global experts from hydrogen equipment manufacturers and fuel providers, regulators, national labs and research centers, as well as vehicle OEMs worked together very hard to address complex topics covered by the TS scope.

The TS provides technical guidance to ensure general safety and performance of a hydrogen fueling station as well as for its key components and processes from on-site hydrogen production and delivery to compression, storage and fueling of a hydrogen vehicle, including validation of the fueling process and fuel quality control at the station. It aims to achieving the level of safety at a minimum on par with conventional fueling stations. It uses risk-informed and evidence-based approach to guide its requirements.

ISO/TS 19880-1:2016 supersedes the obsolete ISO/TS 20100:2008 and is part of a series of standards for critical components of a fueling station partially displayed in the diagrams from the TS shown below. The TS is particularly important for the roll out of hydrogen stations in Europe per the EU Alternative Fuels Infrastructure Directive. There are plans to build several hundred hydrogen fueling stations in Europe by 2020 in addition to similar plans in Japan and the USA. The WG 24 is already working on the next step, which is the development of an International Standard (IS) to be published in 2017.



“An outstanding level of leadership and teamwork that led to the completion of ISO/TS 19880-1:2016 was made possible due to the new structure of our TC as well as its new culture based on transparency, tolerance, patience and respect. Our sincere thanks and congratulations go to the WG24 experts, WG leadership named above and the responsible Technical Program Director Dr. Jay O. Keller”- stated Dr. Andrei V. Tchouvelev, Chair of ISO/TC197 and Mr. Jim Ferrero, Secretary of ISO/TC 197.

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