



Standardization Roadmap for Global Hydrogen Supply Chains Launched

DIN, DKE, DVGW, VDI, and VDMA invite experts from industry, research, and civil society to participate in the project.

Berlin, March 25, 2026. Climate-neutral hydrogen is considered key to future energy supply: According to estimates by the National Hydrogen Council, hydrogen demand in Germany (in German) will amount to approximately 95 to 130 terawatt-hours by the early 2030s. Since a large portion of production will take place in sun- and wind-rich regions outside Europe, reliable international supply chains are crucial.

To enable safe transport and global trade, the German Institute for Standardization (DIN e. V.), the VDE Association for Electrical, Electronic & Information Technologies (German Commission for Electrical, Electronic & Information Technologies (DKE), the German Technical and Scientific Association for Gas and Water (DVGW), the Association of German Engineers (VDI) and the VDMA, Europe's largest association for mechanical and plant engineering, are launching the project **"Standardization Roadmap for Hydrogen Derivatives and Technologies" (NRM H2Plus).**

For long-distance transport, hydrogen derivatives such as ammonia, methanol, or Liquid Organic Hydrogen Carriers (LOHC) are used in addition to liquid hydrogen. They chemically bind hydrogen, making it suitable for transport and storage. However, the technical requirements for these derivatives have so far been scarcely regulated.

Foundation for international hydrogen value chains

Many companies and infrastructure operators face challenges because technical requirements for liquid hydrogen and hydrogen derivatives have not yet been clearly defined. Therefore, the "Standardization Roadmap for Hydrogen Derivatives and Technologies," funded by the Federal Ministry for Economic Affairs and Energy (BMWE), will analyze over the next three years which standards are necessary for the production, transport, storage, and use of liquid hydrogen and hydrogen derivatives.

In doing so, the project will lay an important foundation for investment decisions, infrastructure planning, and energy policy strategies in the emerging hydrogen economy.

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Closing the Gap for Hydrogen Derivatives

While standardization needs for gaseous hydrogen have already been comprehensively examined, a comparable systematic analysis for liquid hydrogen and hydrogen derivatives has been lacking to date. The project closes this gap.

The results will be published in 2027 and 2028 in the form of two sequential standardization roadmaps.

Expertise from industry and research sought

A central element of the project is the integration of industry and academia. In thematic working groups, experts analyze standardization needs and develop proposals for future projects.

Experts from industry, academia, politics, and civil society are therefore cordially invited to actively contribute to the standardization roadmap.

You can find more information about the project [here](#) (in German) on the project website. To participate, you can register [here](#) (in German).

About DIN

DIN, the German Institute for Standardization, is the independent platform for standardization in Germany and worldwide. Together with industry, scientific institutions, public authorities and civil society as a whole, DIN plays a major role in identifying future areas for standardization. By helping to shape the green and digital transformation, DIN makes an important contribution towards solving current challenges and enables new technologies, products and processes to establish themselves on the market and in society. More than 37,500 experts from industry, research, consumer protection and the public sector bring their expertise to work on standardization projects managed by DIN. The results of these efforts are market-oriented standards and specifications that promote global trade, encouraging rationalization, quality assurance and environmental protection as well as improving security and communication.

Further information at www.din.de

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About DKE

The DKE German Commission for Electrical, Electronic & Information Technologies (DKE) is the national platform for about 10,000 experts from industry, science and public administration to elaborate standards and safety specifications for electrical engineering, electronics and information technology. Standards support global trade and, among other things, the safety, interoperability and functionality of products and systems. As a competence centre for electrotechnical standardization, the DKE represents the interests of German industry in European (CENELEC, ETSI) and international standardization organizations (IEC). In addition, the DKE provides comprehensive services in the field of standardization and VDE specifications.

For more information, visit www.dke.de

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