

Hydrogen energy storage czech republic

The strategy sets the framework for development of the hydrogen sector from 2021 until 2050 and it is based on four pillars: low-carbon hydrogen production, low-carbon hydrogen use, hydrogen transport and storage and hydrogen technologies.

Considering the limited renewable energy potential and the significant amounts of hydrogen used in industry, the strategy focuses on different hydrogen productions methods including: renewable hydrogen, hydrogen from natural gas with carbon capture, electrolytic hydrogen from nuclear energy and pyrolysis.

Initially production will take place near places of consumption, however as the country will continue to be a net importer of energy resources, including hydrogen, a gradual transition from natural gas pipelines to hydrogen is foreseen. Additionally, the country is an important transit state for natural gas, a role expected to continue. Construction and repurposing of hydrogen pipelines will begin only after 2031.

Areas with the greatest potential for research, development and production identified include hydrogen-powered vehicles and components them, specifically buses, trucks and cars, and hydrogen production equipment, focusing on electrolysis and pyrolysis.

Mobility is the main end-use envisaged in the first phases of the strategy due to the cost-parity and technological readiness levels.

For industry, the main barrier identified for replacement of grey hydrogen with green is price parity. It is expected that after 2026, operational verification of hydrogen use in industry could begin and the transition to commercial hydrogen use in industry will begin only after 2031. It is not expected that production and transport of large quantities of low-carbon hydrogen will take place before 2040.

Our mission is to support development of hydrogen technologies and implement hydrogen economy in the Czech Republic. For any information regarding potential cooperation, please feel free to write us anytime.

What energy properties does hydrogen have? What is the use of hydrogen? How is hydrogen produced? For more information do not hesitate to visit our website.

OREA Hotel Pyramida, Praha

Exhibition Centre Nuremberg, Germany

InterContinental Budapest, Budapest



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Project "Coordination of the Czech Hydrogen Technology Platform 2027" CZ.01.01.01/07/24_052/0005624 is Co-funded by the European Union.

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