Hydrogen chain

Below is an overview of the entire hydrogen chain, subdivided into three clusters.

Click on a button to go to the relevant infographic.

Hydrogen production

Transport, storage and distribution

Applications

Collaborations

TU Delft works in co-creation with the business community until midTRL, in which field labs often have a major role to play. Examples of this include the TGV, SAMXL and the ESP. We also collaborate with the government and we take people and the environment into account in the process.

Energy security

Cost effective and safe

Clean energy and its applications

For a sustainable world
To produce hydrogen, we mainly work on electrolysis for the following research topics: system integration, multi-scale and multi-phase simulations, new reactor designs, production techniques and materials. The objectives of the research are to reduce the costs of electrolysis, circularity and resilience.

Click on a button in the research fields or research objectives for more information, or go to one of the other steps in the hydrogen chain:
Transport, storage and distribution

For transport, storage and distribution, TU Delft mainly works in the following research fields: system integration, materials, hydrogenation, dehydrogenation and geosciences. The objective of this is to contribute to a reliable and cost-effective hydrogen integrated power system.

Click on a button in the research fields or research objectives for more information, or go to one of the other steps in the hydrogen chain:
To be able to use hydrogen in new industries, TU Delft is mainly conducting research in the following fields: system integration, onboard storage of LH2 and H2, green steel and new power cycles.

Click on a button in the research fields or research objectives for more information, or go to one of the other steps in the hydrogen chain: