



TRANS2 | H2REAL AUSTRIA

Location: Hydrogen has moved into the focus of current developments in the energy sector. Austria produced green hydrogen needs to be transported to the consumer from the place of generation. Transmission and distribution networks are a natural monopoly. The development of a completely new and independent hydrogen gas network, independent of the existing natural gas network does not seem viable in every case, both from an economic and a schedule wise, if the climate goals agreed globally shall be achieved by 2050.

Project duration: The existing gas transmission and distribution network shall be made ready for hydrogen transport in order to achieve this- among various technical aspects - the regulatory framework of the network must be adapted to enable hydrogen transport and corresponding standards must be established.



In order to solve the problem of green hydrogen transport, movingpower GmbH initiated a research project for hydrogen transmission through demonstrating the possibilities of hydrogen transport in different existing gas networks in Austria. The goal of the research project is to lay the groundworks for hydrogen transport in existing gas pipelines in a collaborative effort with consultants in the field of expertise, material testing institutes, gas transmission and distribution operators and regulatory bodies.

The TRANS2 research project initiated by movingpower GmbH was submitted to the WIVA P&G showcase region under the leadership of the AIT, and after successful evaluation in stage 1, it was merged into the H2REAL research project. At the end of August 2022, the Executive Board of the Climate and Energy Fund decided to fund the H2REAL research project. The H2REAL project was launched on 06.06.2023 with the first joint project meeting in Vienna. The project is executed in cooperation with



the [Forschungsinitiative Green Energy Lab](#).

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