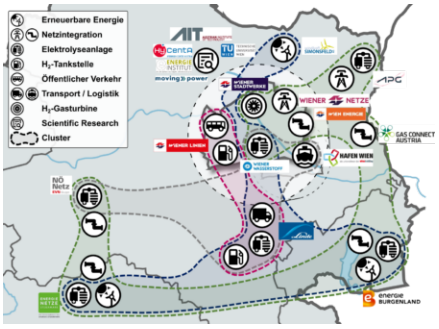
TRANS2 | H2REAL

AUSTRIA



Green hydrogen has moved into the focus of current developments in the energy domain. Produced green hydrogen needs to be transported to the consumer from the point of generation. Transmission and distribution networks are a natural monopoly. The development of a completely new and independent hydrogen gas network, replacing the current natural gas network does not seem viable in every case, both economically as well as schedule wise, if the climate goals agreed globally shall be met. Hence, 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 Forschungsinitative Green Energy Lab.

Location:
East Austria
Type:
Hydrogen Valley
Project duration:
01.05.2023 - 30.04.2026
Funding provider:
Climate and Energy Fund Austria