

Pre-normative Research on Integrity Assessment Protocols of Gas Pipes Repurposed to Hydrogen and Mitigation Guidelines

About the project

PilgrHYm is an ambitious R&D project that aims to establish a pre-normative framework supporting the development of a European standard for the readiness and compatibility of existing natural gas pipelines for the transport of H₂.

Objectives

PilgrHYm's ultimate goal is to provide quantified data on more than 70% of the EU grid and refine existing norms, codes, and standards by reducing over-conservatism and ensuring the safety and reliability of flaw assessment methodologies.



This project has received co-funding from the European Commission and the Clean Hydrogen Partnership under Grant Agreement No 101137592.



<https://pilgrhym.eu/>

 [PilgrHYm](#)



Aim

- Provide quantified data on more than 70% of the EU grid
- Conduct a comprehensive testing program on small-scale laboratory specimens
- Refine existing norms, codes, and standards



How

Review of selected specimens by TSOs to address:

- safety concerns, lack of regulations, codes, and standards
- research gaps related to the compatibility of current pipelines with hydrogen

8

BASE MATERIALS

2

WELDS

2

HEAT-AFFECTED ZONES

natran

