



Compatibility Assessment of Non-steel metallic Distribution gas grid materials with Hydrogen

About the project



Review of the state of the art grid material

Review standards and codes on testing regarding material compatibility with hydrogen and hydrogen embrittlement mechanisms.



Testing new and vintage materials

Focus on the design, development, and performance of non-steel metallic materials.



Characterisation of new and vintage materials

Validation of the results obtained developing a semi-empirical model to explain hydrogen embrittlement mechanisms in non-steel metallic materials.



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Project Partners



Objectives:

- Enable hydrogen distribution in low pressure gas grids
- Perform long-term material integrity assessment in distribution gas grids
- Allow the possibility of testing relevant metallic materials (non-steel)



Co-funded by
the European Union