

HIGGS

Hydrogen in Gas Grids

Presentación Proyecto HIGGS

Jornada Hidrógeno – Club Español de la Energía

Marcos López-Brea, Subdirector de
Hidrógeno
REDEXIS



A systematic validation approach at various admixture levels



Kick-off meeting: “A systematic validation approach at various admixture levels into high-pressure grids”

Hydrogen In Gas GridS:

“A systematic validation approach at various admixture levels into high-pressure grids”

- Starting date: 01/01/2020
- Duration: 36 months
- Partners:
 - Fundación para el desarrollo de las nuevas tecnologías del Hidrógeno en Aragón
 - Deutscher Verein des Gas- und Wasserfaches e.V
 - Fundación Tecnalia Research & Innovation
 - HSR Hochschule für Technik Rapperswil
 - Redexis Gas, S.A
 - European Research Institute for Gas and Energy Innovation



Main goal

Potential of hydrogen injection into the transmission high pressure natural gas grid as way to decarbonise the gas system and gas uses.

Knowledge gaps will be covered considering the actual knowhow on how different concentrations of hydrogen gas could affect the infrastructure and its components.



Objectives and Impact



→ *Specific technical objectives:*

- 1- Implement an injection and admixture system .
- 2- Test gas separation systems based on membrane technology.
- 3- Design/execute a testing loop to validate components and materials identified.
- 4- Elaborate an impact assessment document (operation, maintenance procedures).
- 5- Develop a techno-economic model considering existing and future separation technologies.

→ *Maximize impact*

- 6- Preparation of a pathway for stepwise integration of H₂ in the EU gas network.
- 7- Development of a dissemination and exploitation plan, interaction and synergies with other related projects and activities.

HIGGS

Hydrogen in Gas Grids

Gracias por vuestra atención

