

# ready4H<sub>2</sub>

## Europe's Local Hydrogen Networks

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ready4H<sub>2</sub>

# European DSO study Ready4H2



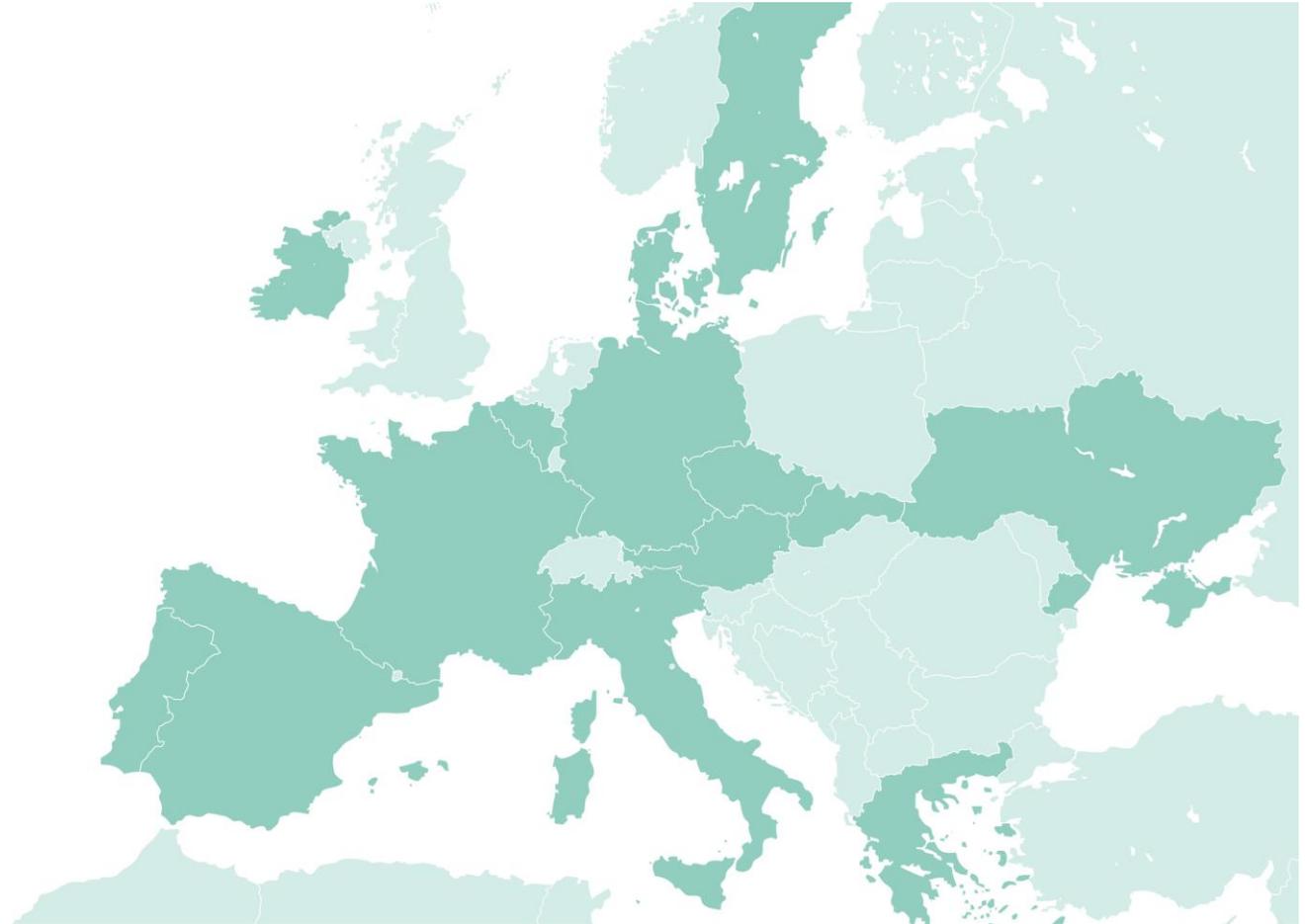
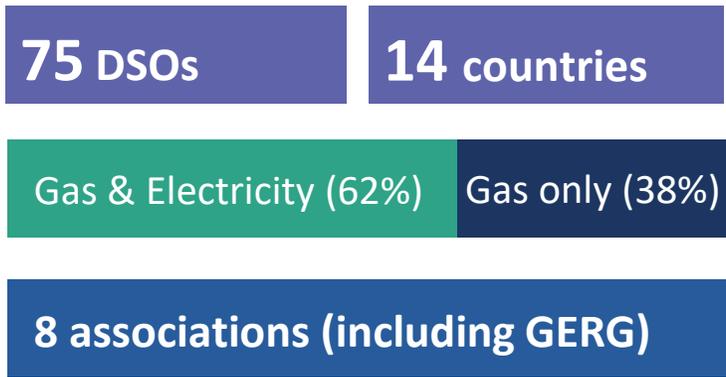
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Combining the hydrogen expertise and experiences across the European gas DSOs and creating a common understanding of how the distribution networks can help realize a European Hydrogen Ecosystem and support Fit For 55.

The Ready4H2 alliance is growing. As of 24 November 2021, it consists of 75 European gas distribution companies working together to support net zero

**Ready4H2 participating countries:**

- Austria
- Belgium
- Czech Republic
- Denmark
- France
- Germany
- Greece
- Ireland
- Italy
- Portugal
- Slovakia
- Spain
- Sweden
- Ukraine



# European local gas networks have always delivered cost-effective and safe energy to consumers...



Ready4H2 alliance networks keep 64 million households warm in winter and supply a further 12 000 CHP plants to run district heating systems.



We supply 3 million commercial businesses, including the restaurant kitchens that prepare the meals we all enjoy, commercial heating, and gas for vehicle fleets.



We serve 150 000 industrial premises, including industries such as glass and ceramics that need a gaseous flame at a competitive price to produce their products.



Our networks are extremely reliable, with very few interruptions to gas supply, which is important for families to stay warm and businesses to function.



We are supporting green gas grid injection, with over 600 biomethane plants connected to gas networks across Europe.



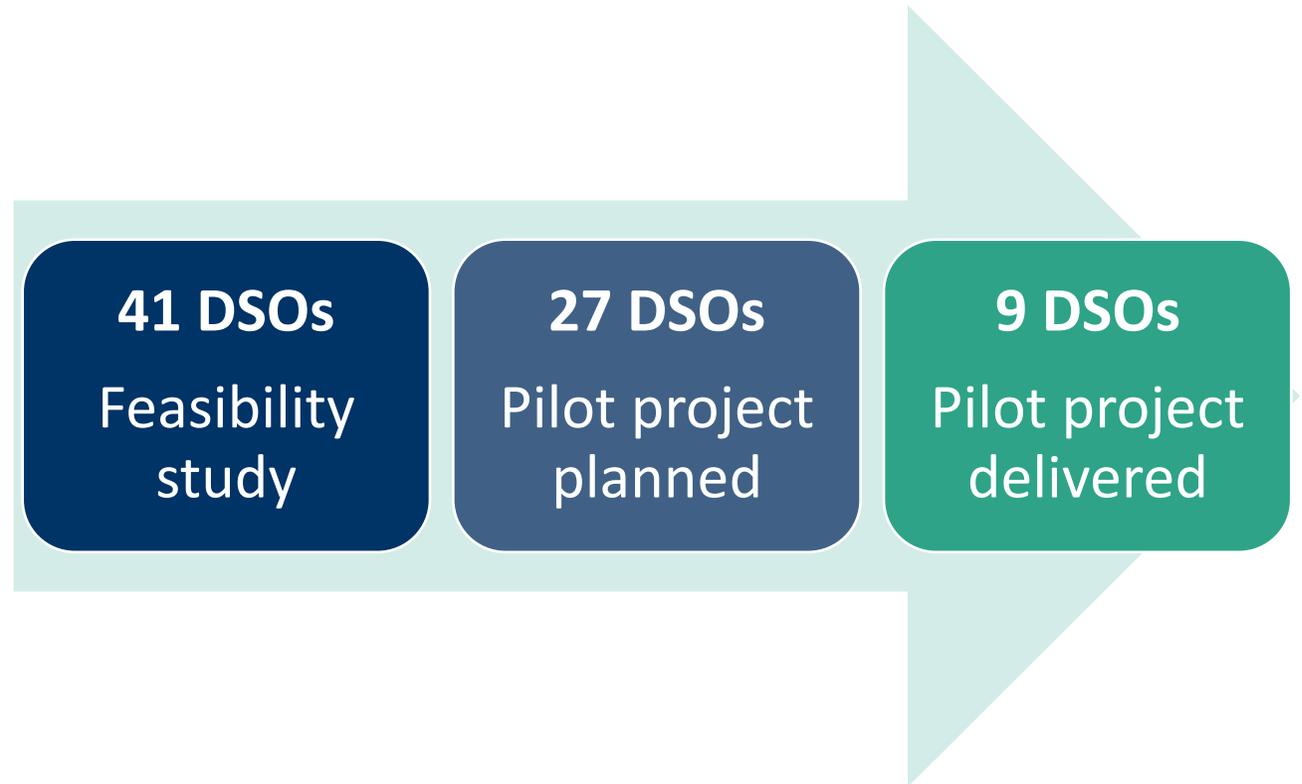
We are providing the critical evidence and have gained fundamental practical experience from many hydrogen pilot and research projects, and previous towns gas conversion.

# Over recent years we have been building relevant knowledge and experience

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Through tens of feasibility studies, planned and successfully executed hydrogen pilots at various blend rates, up to 100%, we have built a body of knowledge in key areas:

- Technical feasibility of network repurposing (network components and material)
- Effect of different levels of hydrogen on end-user appliances (industrial and residential)
- Cost of network upgrading/repurposing
- Safety case of hydrogen
- Future availability and price of hydrogen
- Demand development per customer segment
- Regulatory gaps
- Procedures and working methods (including staff training)



# Ready4H2 study objectives

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PART

3

## ROADMAP

Roadmap for transformation into Europe's primary hydrogen distribution infrastructure

PART

2

## VALUE PROPOSITIONS AND THE ROLE OF LOCAL GAS NETWORKS

Local gas networks' current and future role in and contribution to the hydrogen value chain



PART

1

## LOCAL GAS NETWORKS ARE GETTING READY TO CONVERT

Inventory which combines the current knowledge, experience, infrastructure and executed projects related to hydrogen distribution





[www.ready4h2.com](http://www.ready4h2.com)

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