



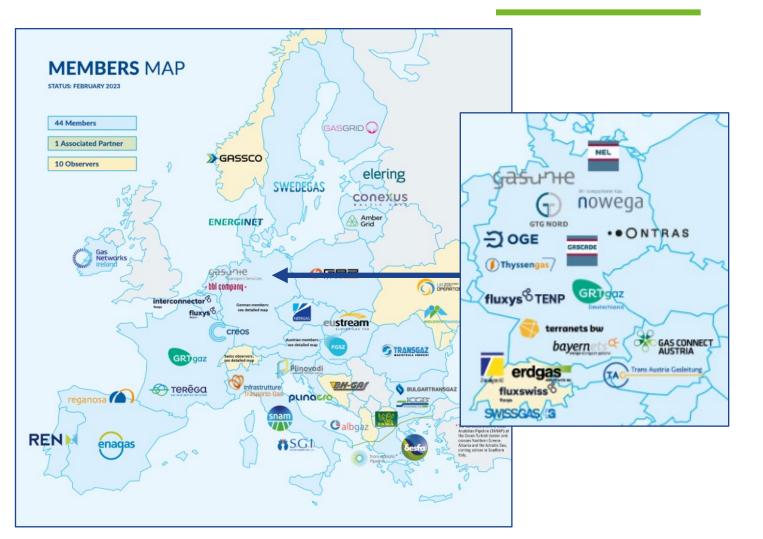
H2: The role of the natural gas network with regard to hydrogen transport and imports

UNECE Group of Experts on Gas – 23 March 2023

Piotr Kus, General Director

Our Members: From Across Europe







44 TSO Members



1 Associated Partner



10 Observers

A Selection of Our Activities



TYNDP

Outlooks

Network Codes

Monitoring

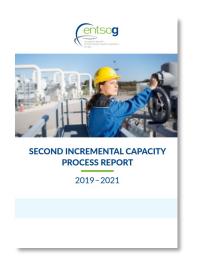
Platforms

Future Energy System













We think long-term and short-term

REPowerEU: Gas and Hydrogen

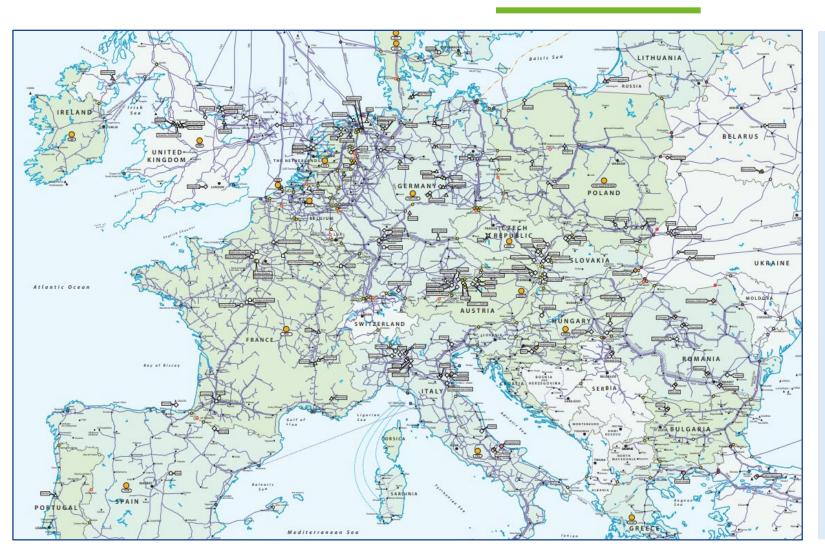




- Potential hydrogen corridors laid out by REPowerEU
- ENTSOG supports this objective by mapping the hydrogen infrastructure
- Existing pipelines will be the base for the hydrogen infrastructurevia repurposing
- Direction West-to-East: flows changed. Infrastructure will be futureproofed as much as possible.

Network Development: Today's Work For The Future





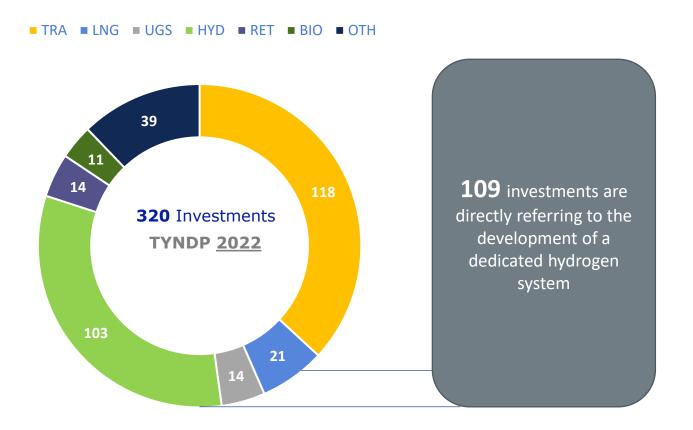
Ten-Year Network Development Plan (TYNDP)

- Assessment of needs: Connections, Security of Supply, scenarios
- Process is public and involves European Commission, ACER.
 Open to all stakeholders.
- TYNDP2022 includes hydrogenIntegrated planning
- Joint scenarios with ENTSO-E
- Energy System Integration

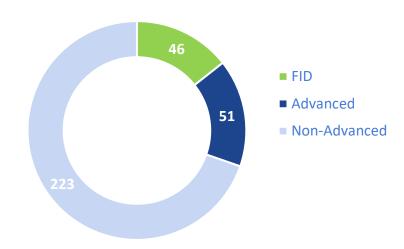
TYNDP 2022 - Overview of projects



> Total number submitted investments



> By maturity status

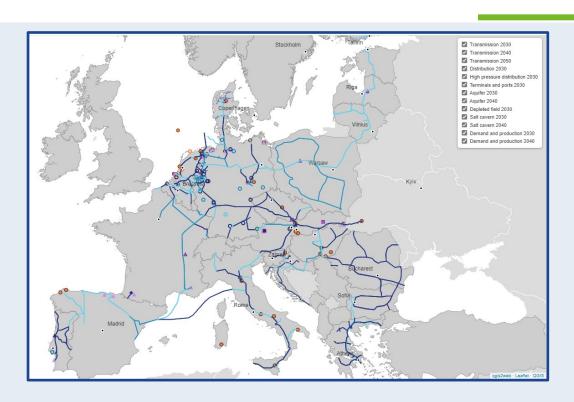


^(*) Total number of submitted investments including investments currently not complying with inclusion criteria submitted during ad hoc project collection + investments already included in initial list of projects for TYNDP 2022

^(**) Projects are advanced when commission date is expected at the latest by 31st December 2028, and permitting phase or FEED phase started ahead of the project collection

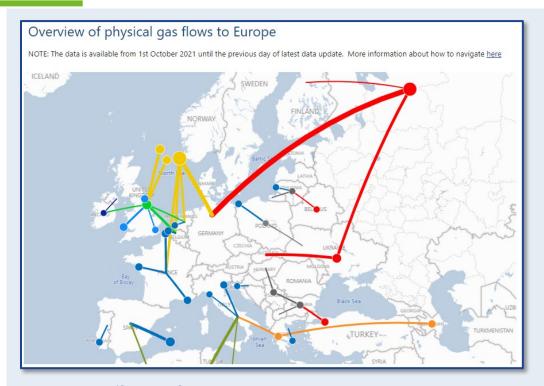
Hydrogen Infrastructure Map // Gas Flow Dashboard





- > 220 hydrogen projects
- > 120 H2 transmission & distribution projects
- > 40 H2 storage projects > 10 H2 terminals & port projects
- > 40 H2 production/demand projects

https://www.h2inframap.eu/



- Daily gas flows
- Supply routes
- Maps & filters

https://gasdashboard.entsog.eu/

Ramping up the Hydrogen Economy: Key Factors of Success



Infrastructure is key

- Connecting production and consumption, enabling imports
- Ensuring access to the hydrogen network and the commodity
- Developing a hydrogen backbone to make REPowerEU targets possible

Create a clear regulatory framework

 Investments need to be taken now. Support investment decisions with a clear, robust framework.

Think efficiently. Think together.

Use synergies to speed up the process. Plan together.



Thank you for your attention

Piotr Kus

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