



Picture courtesy of Gas Connect Austria

9th meeting of Advisory Panel for Future Gas Grids

Meeting on 25 January 2023

ENTSOOG

Introduction

Welcome



Key topics from 2022

5th meeting – 20 January 2022

Outlook for 2022

- Reading of Hydrogen Decarbonised Gas Market Package
- Information exchange
- Planning of H₂/gas infrastructure
- End Use applications

6th meeting – 30 March 2022

- Russian invasion into Ukraine
- Security of Supply and REPowerEU
- Hydrogen and Decarbonised Gas Market Package
 - Energy Security, energy access, environment

7th meeting – 23 June 2022

REPowerEU – Infrastructure and biomethane perspective

- Future gas grids, European Hydrogen backbone
- Contribution of gas infrastructure
- Adapting grids to decentralized biomethane production

8th meeting – 6 October 2022

REPowerEU – Hydrogen Corridors

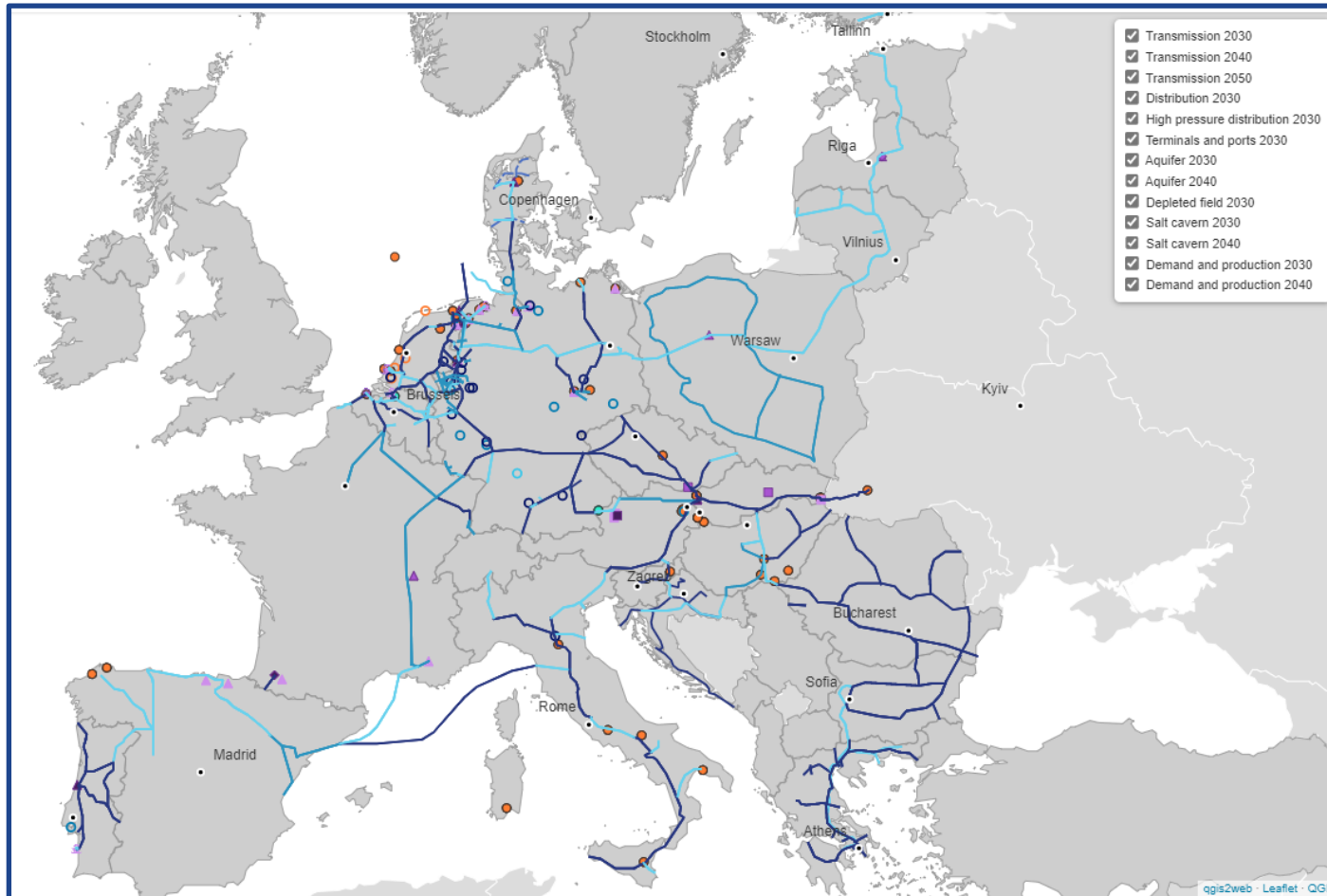
- Offshore Network Development Plans
- Enabling a hydrogen (import) value chain
- TEN-E process and hydrogen

Agenda

	Description	Time
1.	Introduction and welcome by Piotr Kuś	14:00-14:10
2.	Presentation: Hydrogen Infrastructure Map	14:10-14:20
3.	Recommendation Report – discussion of main points	14:20-15:45
4.	Topics for 2023 - discussion	15:45 – 16:00
5.	Closure of meeting	16:00

Hydrogen Infrastructure Map

Hydrogen Infrastructure Map



Key numbers

> 220

Total number of hydrogen projects

> 40

Hydrogen storage projects

> 120

Hydrogen transmission and distribution projects

> 10

Hydrogen terminals & ports projects

> 40

Hydrogen demand and production projects

<https://www.h2inframap.eu/>

Recommendation report

Recommendation report - Biomethane

How to deliver 35bcm REPowerEU biomethane production target by 2030?

Regulatory:

- Target needs to be anchored in legislation
- Harmonised enabling framework for grid connection and reinforcement is needed
- Support for cost sharing for grid connection, faster permitting

Technical:

- Existing transmission & distribution gas grids are biomethane ready and can transport biomethane
- Need for gas quality coordination and to reassess and update gas quality standards

Planning:

- Plan via a bottom-up approach – start with assessment of long-term biomethane production potential at regional level for Member States
- Joint planning of TSOs and DSOs, sharing best practices

Recommendation report – Repurposing Framework

Regulatory:

- Lack of clear regulatory framework (DA on Additionality, Gas & H2 Package, etc)
- Simplify and shorten permitting procedures

Planning:

- ‘One system’ approach for all energy vectors
- European Hydrogen Backbone is key for cost-efficient scale-up of the hydrogen economy
- Framework: TEN-E & TYNDP
- For development of hydrogen corridors, need for concrete actions – combining top-down & bottom-up

Financial & Market:

- Minimise the initial risks & de-risking is needed (e.g. H2 Global mechanism)
- Proposal to start with no-regret anticipatory investments first
- Need for a public and private financing
- Purchasing - single buyer model could support market ramp up

Priorities for 2023

Potential topics for 2023

- **Mapping the progress on the REPowerEU targets implementation:**
 - Development of the Hydrogen Corridors and European Hydrogen Backbone
 - Development and scale-up of biomethane production and uptake in the existing grids via joint planning of TSOs and DSOs
- **Mapping the views and engaging in discussion on implementation of the finalised legislative proposals**, specifically Fitfor55 and when adopted Hydrogen and Decarbonised Gas Market package
- **Discuss the upcoming CCUS Strategy and the development of the CO2 transport network**
- **Engagement with end-users** to understand their demand needs to deliver on their REDII targets
- **Security of Supply**
- **Financing and support schemes for the new hydrogen economy**
 - Keep track of new financing options (Hydrogen Bank proposal, Net Zero Act and Sovereignty Fund, etc)
- **Permitting**
 - Clarification on what is needed for permitting of new projects (onshore/offshore)

Summary and next steps

Next steps

A diagram showing a sequence of three steps in dark blue rounded rectangles, each containing text about report finalisation, publication, and a meeting. The rectangles are arranged horizontally and are partially overlaid by a large, light grey arrow pointing to the right.

By 31 Jan
Finalisation of
the Report

By 10 Feb
Publication

End April
Next meeting



Thank you for your attention

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