This project is part of the Nordic Hydrogen Valleys as Energy Hubs Programme







Cecilia Wallmark, LTU and Marcus Runefors, LU. Iceland 5/10 2023



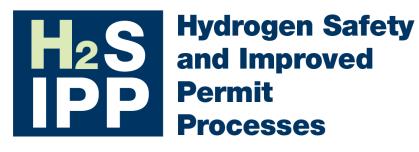












Pathways to 2030 and 2040

We will develop strategies to delimit key barriers identified in recent work for the implementation of hydrogen in the Nordic countries:

- 1) permit processes
- 2) safety distance determination
- 3) social acceptance



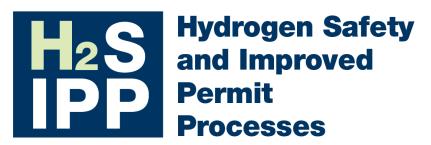












A consortia with long and widespread experience in hydrogen market and strategy development















Frontrunners within the hydrogen industry, local hydrogen energy systems, pipelines, refuelling stations and public support





N^ORDION ENERGI





























OBJECTIVES



1.
To suggest how to improve permit processes

2.

To present ways of working to increase the social acceptance

3.

To fill the gaps regarding safety calculations as decision material for regulations etc

4

To understand hydrogen leakage from underground pipelines 5. Increase stakeholder interaction between disciplines,

countries etc.

The overarching objective is to reach a more effective way of working regarding safety issues and permit processes, increase the acceptance for the use of hydrogen in society, and remove political and organizational barriers with respect to hydrogen safety.











A multidisciplinary and agile approach



1

To suggest how to improve permit processes

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To present ways of working to increase the social acceptance

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To fill the gaps regarding safety calculations as decision material for regulations etc

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To understand hydrogen leakage from underground pipelines 5. Increase stakeholder interaction between disciplines,

countries etc

Analyse law, permit processes and stakeholders. Work on real cases, and comparing regions

By theoretical and empirical frameworks

Performing safety calculations and experiments

By calculations, experiment and development of theories By delivering research based knowledge exchange and communication







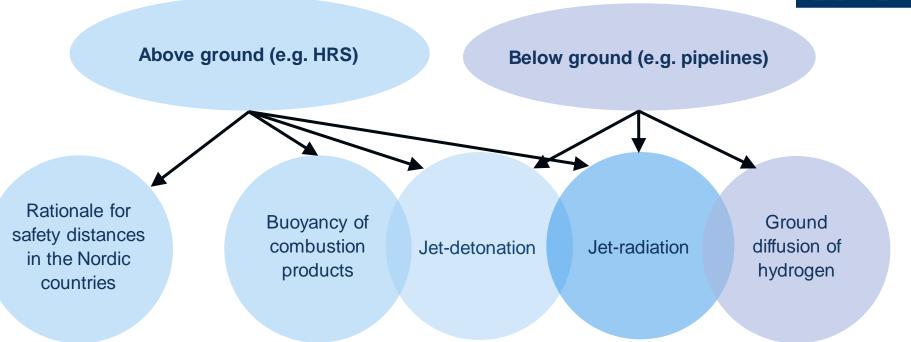






WP3 – Safety distance

















WP3 – Safety Distance – Pipelines









Natural gas









Hydrogen

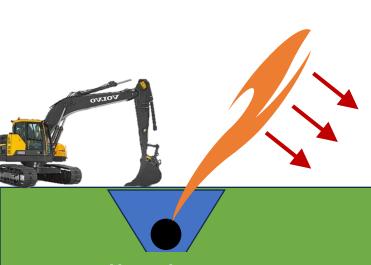


WP3 – Safety Distance – Pipelines

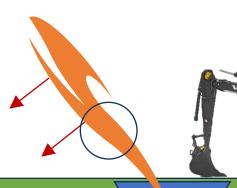














Natural gas













WP3 – Safety Distance – Pipelines











Natural gas











National, Nordic and global co-operation and communication to move faster forward.





Building the Nordic hydrogen economy, LTU, 24-25/1 2023



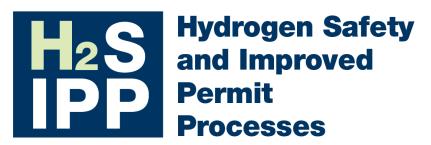














Participants 5/10 – with hope for further co-operation

Joakim Berg, Gen-H Oy, Hydrogen Energy System development Björn Santana Arvidsson, Nordion Energi, Hydrogen pipelines

Cecilia Wallmark, LTU, Hydrogen implementation

Marcus Runefors, LU, Hydrogen safety and safety distances

Michael Försth, LTU, Fire and hydrogen safety

Fredrik Granberg, LTU Green Fuels, Permit case development

Pedro Vilaca, Aalto University, Material science

Maria Pettersson, LTU, Environmental law



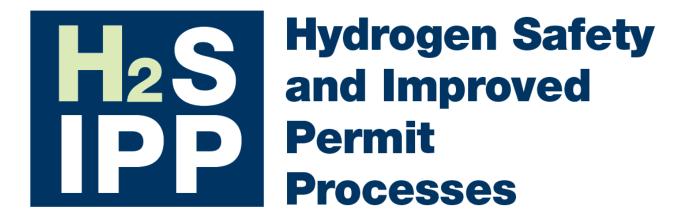












Welcome to follow our work on the web:

Hydrogen Safety and Improved Permit Processes, H2SIPP (Itu.se)















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