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HYDROGEN
ROUTE

BOTHNIAN BAY

NHR PROJECT ENABLING HYDROGEN ECONOMY GROWTH & ENERGY SECURITY IN NORTHERN FINLAND AND SWEDEN

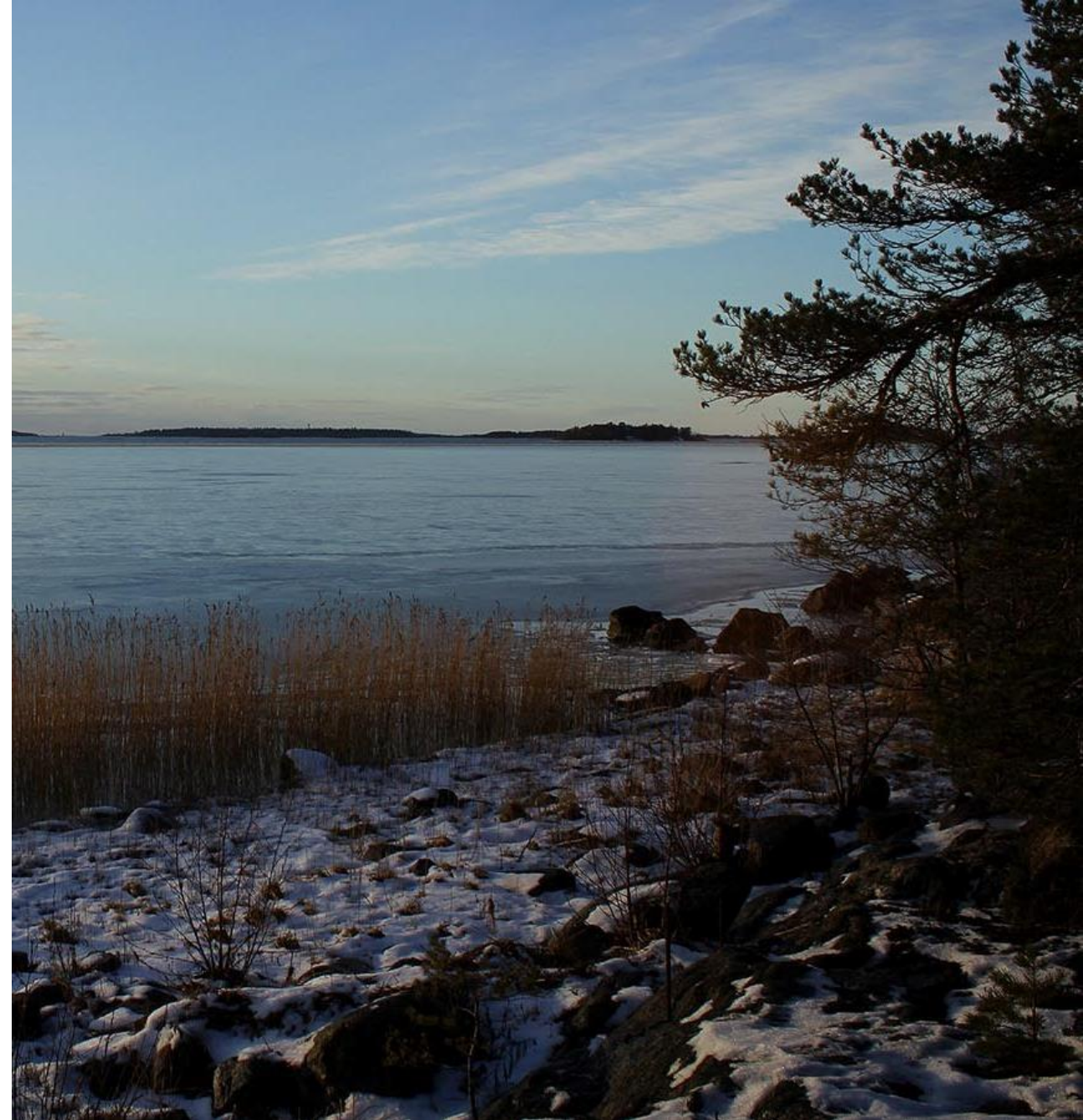
Oulu Northern Power
13th of February 2025

NORDION ENERGI

GASGRID 

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LOCATION



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PROJECT IN A NUTSHELL

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The Nordic Hydrogen Route (NHR) is an initiative between **Gasgrid** and **Nordion Energi** to drive decarbonization, support regional green industrialization, economic development, and enhance European energy independence & security.



2 COUNTRIES



1.300 km*

TOTAL LENGTH OF
MAIN PIPELINE
(* incl. Kiruna branch)



PROJECT OF
COMMON INTEREST
(PCI)

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EU INVESTED 29.4M€ IN NHR'S FEASIBILITY AND BASIC DESIGN PHASES

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“The proposal successfully addresses the priority and urgency criterion.

The studies for which CEF and the proposal explains convincingly how the project contributes to decarbonisation and meeting the EU's climate and energy targets and facilitates the creation of an integrated, competitive and transparent crossborder hydrogen market.”¹



“ The Commission has proposed to allocate €1.25 billion in grants, the highest ever awarded under the Connecting Europe Facility for energy infrastructure projects making a key contribution to build our Energy Union. It is also the first time that hydrogen and offshore electricity grid projects are selected. Once completed, the successful projects will boost our efforts to decarbonise our economies and societies, integrating our energy markets and safeguarding our industry's competitiveness. ”

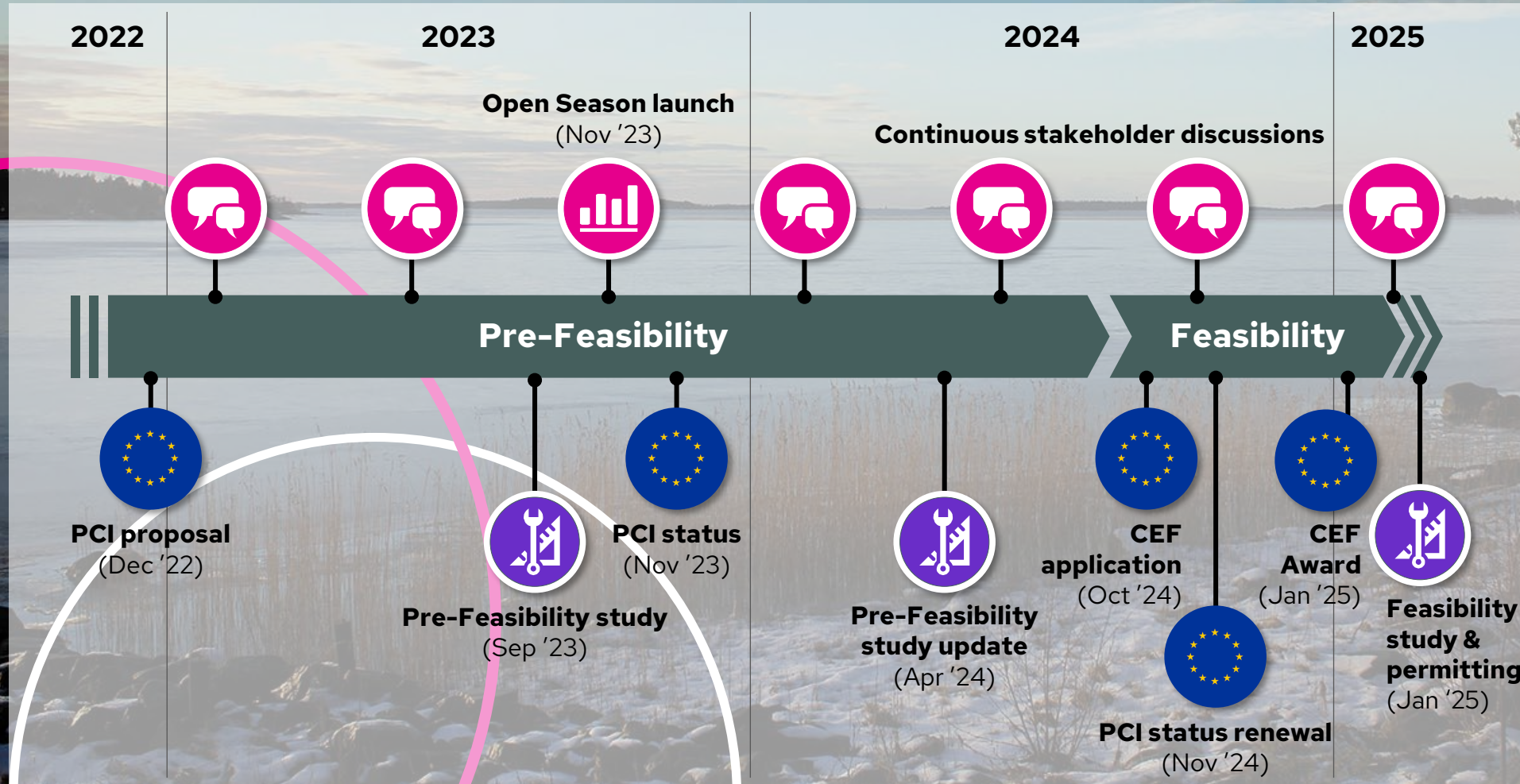
Dan Jørgensen, Commissioner for Energy and Housing

¹ Evaluation summary report

PROJECT PROGRESS UNTIL TODAY

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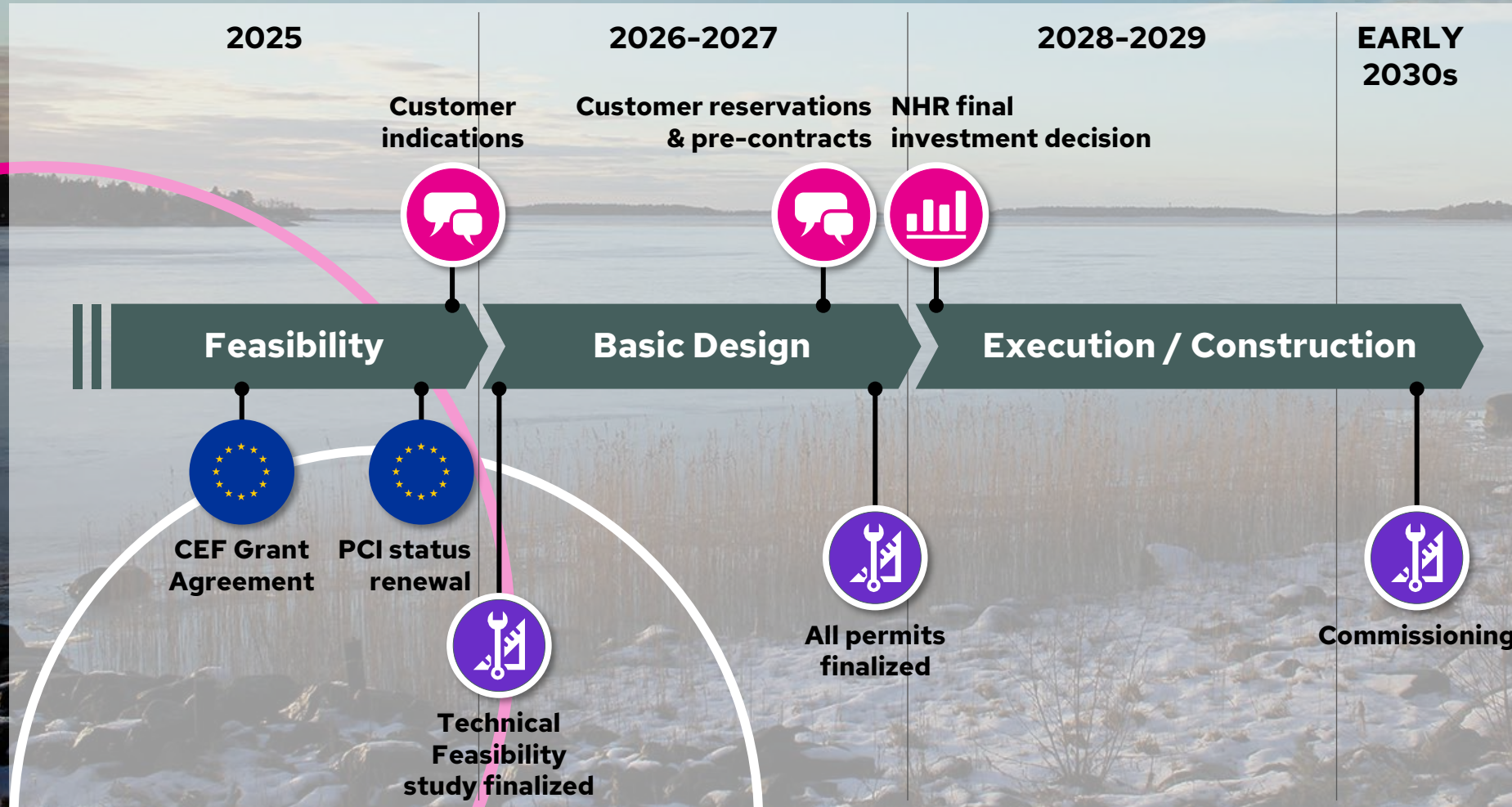
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PROJECT PLAN GOING FORWARD

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BENEFITS OF CROSS-BORDER HYDROGEN MARKET

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JOBS

By 2030, an expected **25 000 jobs** could be created across the hydrogen value chain, Many of which are highly skilled. By 2040, this could be over **40 000**.

RESOURCE UTILIZATION OPTIMIZATION

Well-functional hydrogen market designed with closed collaboration with electricity TSOs in both countries enabling optimized energy system in Nordics.

DE-RISKING INVESTMENTS WITH SUPPLY & DEMAND CONNECTION

Efficient hydrogen transport in the region with pipeline connects demand and supply and de-risks investments in whole value chain, starting from electricity production to hydrogen production and hydrogen utilization and derivative production. The pipeline **investment roughly 5 B€**. Other investments enabled can be **multiplied with 5 or even 10**.

ALTERNATIVE DEMAND MARKET SEGMENTS FOR RENEWABLE ENERGY

Potential **65 TWh hydrogen demand** by 2050 would together with other electrification in society create great demand for new RES investments and potentially **50-100 GW** new capacity investments invested in Nordics by 2050.

SECURITY OF ENERGY SUPPLY

New electricity capacity and hydrogen market increases security of energy in Nordics.

YOUR ACTIVITY IS IMPORTANT!

NHR is facilitating discussions with supply, demand, RES developers, investors, municipalities, etc.

Participate in our **private matchmaking discussions** at the NHR stand

Come meet us at **NHR stand**

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- THE TIME TO GET INVOLVED IS NOW -

Be active and form **regional coalitions**

Customer info package is coming soon (what does it take to connect to the trunkline, etc.)

Nordion and Gasgrid are continuously having **market consultations**, and your voice has an impact

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