

# VETÄÄ JA VIRTAA KAAKKOON

## FLEXENS OY AB



Flexens puhtaan siirtymän investointien mahdollistajana

Lappeenranta 5<sup>th</sup> Mar, 2024

# Flexens



*Flexens is a project  
developer implementing  
Power-to-X projects to  
enable societies to run on  
100 % renewable energy  
sources.*

# We have solid ownership and 5 years of history

## FLEXENS IN BRIEF AND OWNERSHIP STRUCTURE

Founded 2018 as a spin-out from an energy system level R&D&I project

CLIC INNOVATION	23 %
STAKEHOLDERS ON THE ÅLAND ISLANDS	23 %
FLEXENS TEAM	5 %
LHYFE	49 %

## PROJECT DEVELOPER BUSINESS MODEL

- Asset development
- DevEx financing

**Flexens**  
FLEXIBLE ENERGY SOLUTIONS



- Divestment proceeds
- Fees

H2 & P2X  
ASSETS



**Flexens**

# Exceptional team driven by necessary change



**21 DEDICATED  
PROFESSIONALS**  
with diverse backgrounds

**16** based in our **HELSINKI**  
office **5** based on the **ÅLAND**  
**ISLANDS**

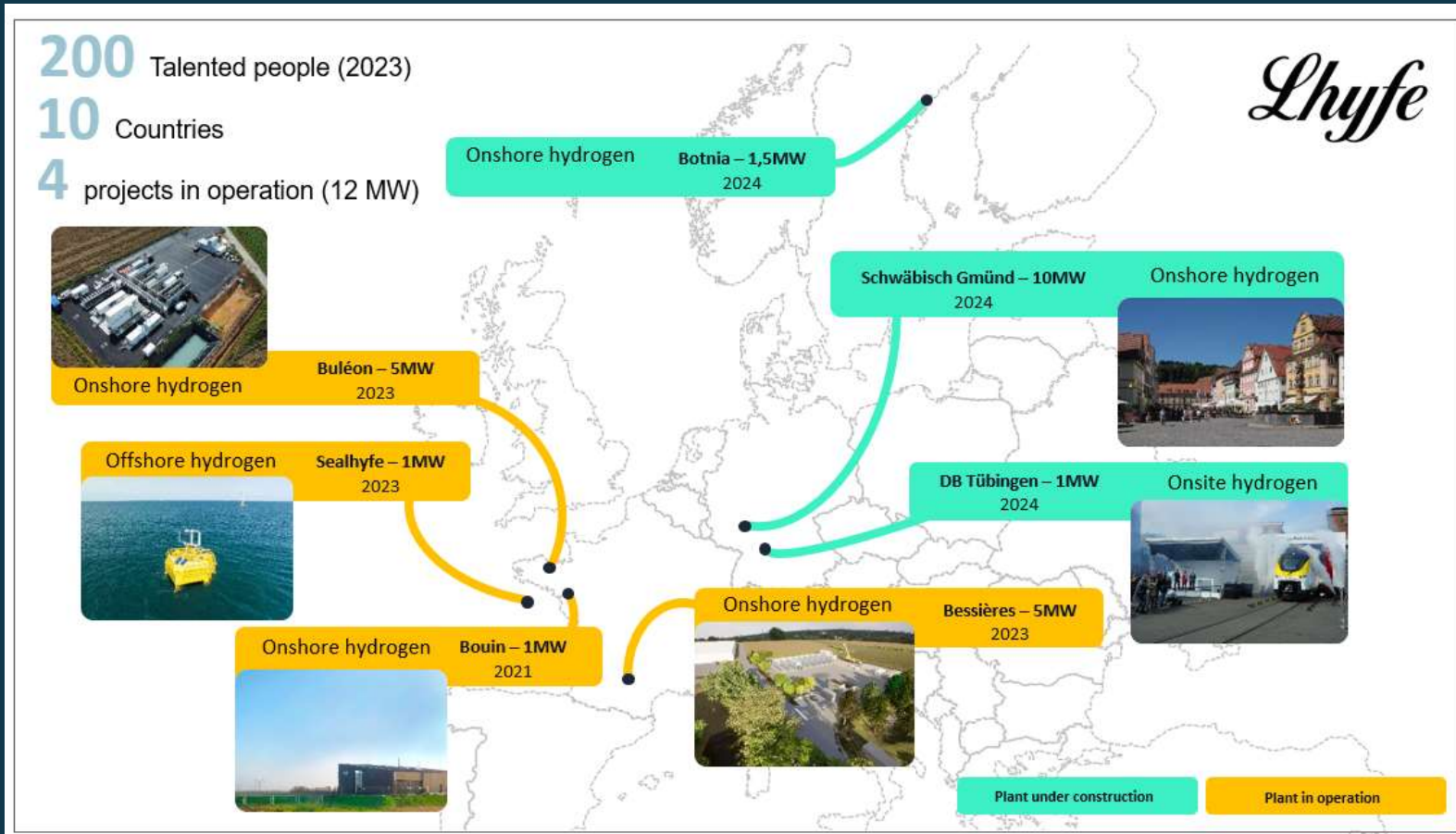
**OVER 250 YEARS**  
of shared experience  
in key industries

**WE ARE GROWING**  
In the past 2 years, our team  
size has **doubled**

**Flexens**

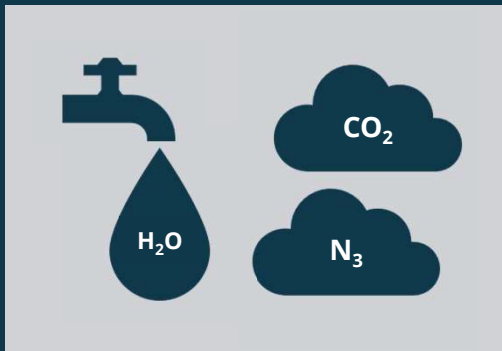
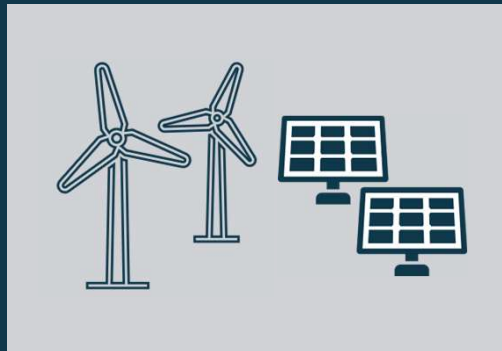
# Lhyfe brings experience and funding

- First plants for green H2 in operation since 2021



# Focus on green hydrogen and its derivatives

## PREREQUISITE SUPPLY

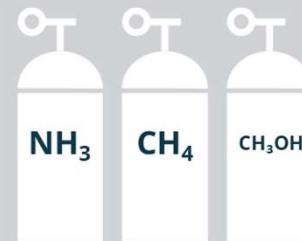


## GREEN HYDROGEN & DERIVATIVES

Flexens



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## CURRENT MARKET SEGMENTS

Mobility



Industrial applications

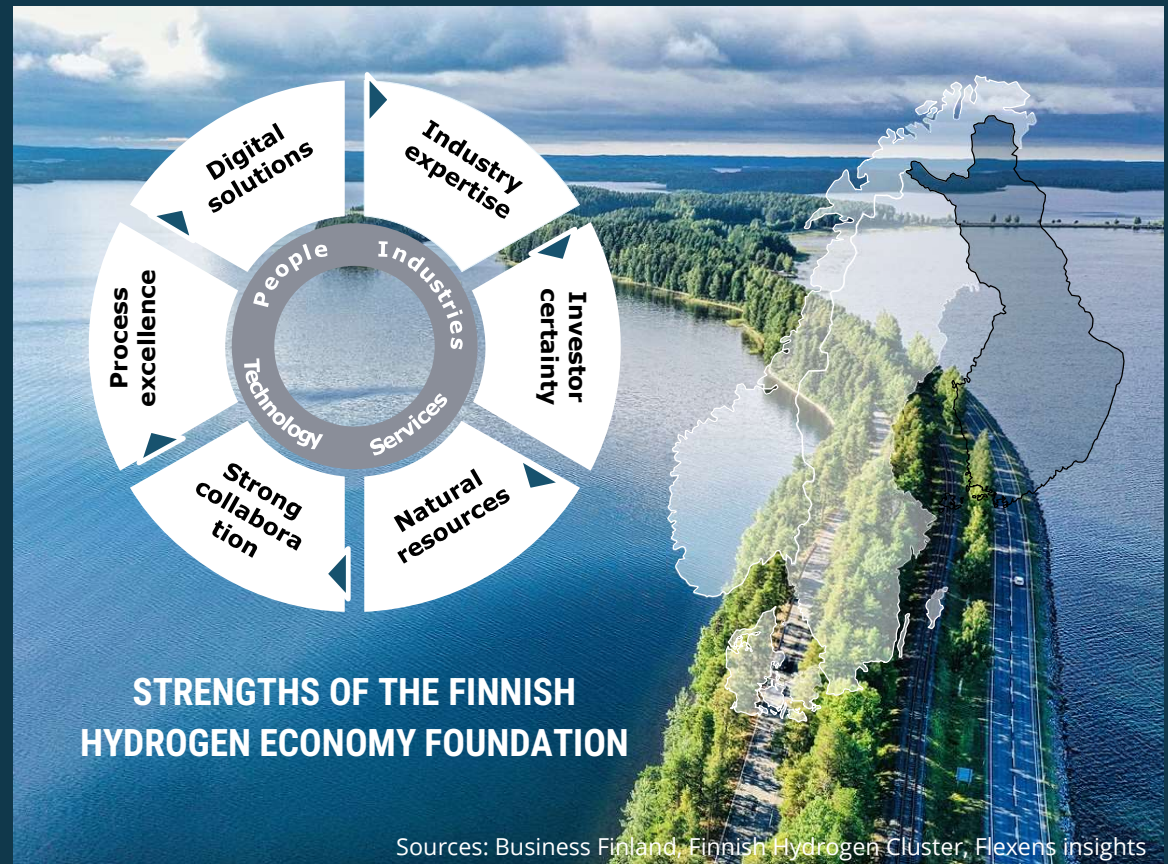


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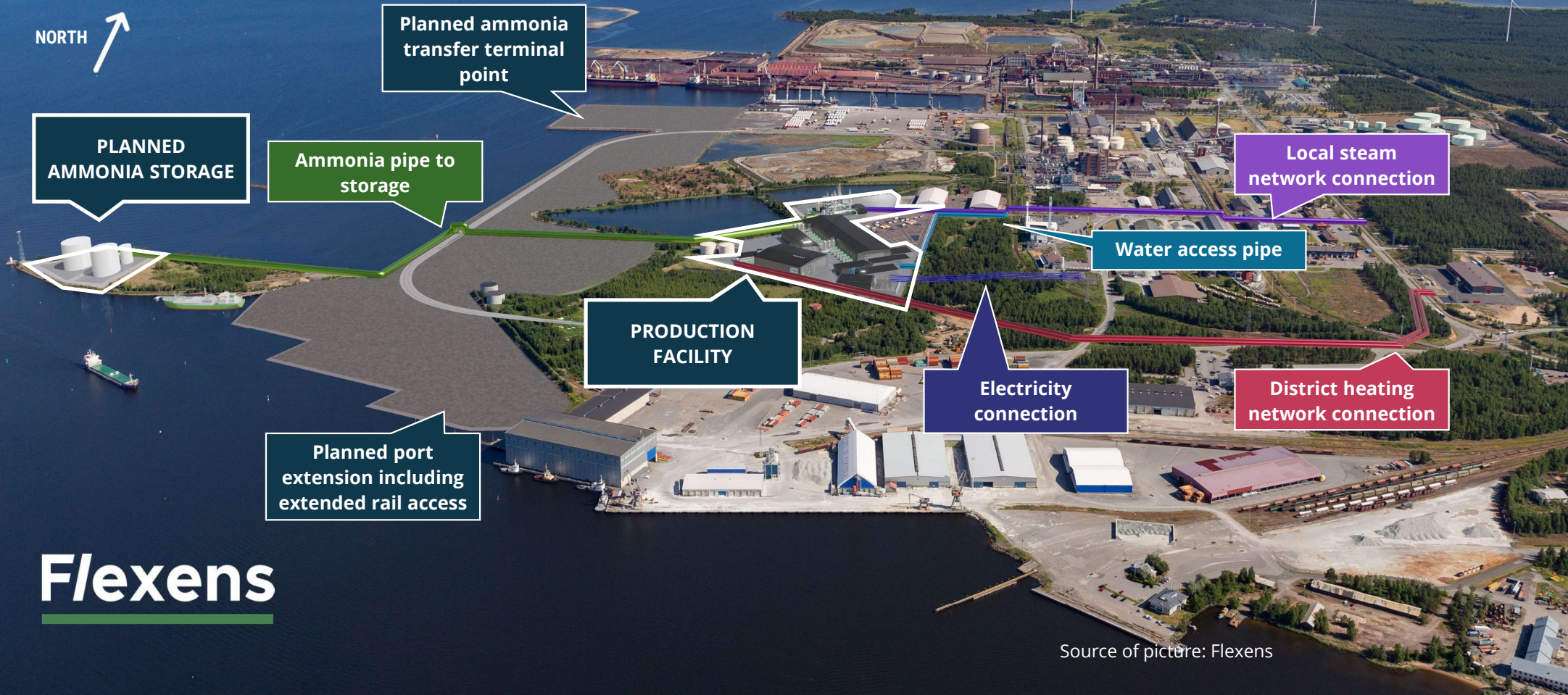
# Finland: An ideal location for production of hydrogen and its derivatives

-  Clean and affordable energy
-  Robust and reliable grid and reliable infrastructure
-  Extensive ports network
-  Strong industrial know-how
-  Internationally recognised academic institutions
-  Long tradition in harsh use applications
-  Stable business environment
-  Competitive workforce
-  Safe society
-  Innovation champion

**Flexens**



# Flexens Kokkola site example



**Flexens**

Source of picture: Flexens



# Examples from our project pipeline (Public)

## KOKKOLA



We are developing a 300-350 MW green hydrogen and ammonia plant in Kokkola, Finland. Its planning started in 2022, and we're currently in the EIA phase.

## ÅLAND ENERGY ISLAND



Copenhagen Infrastructure Partners, Flexens, and Lhyfe have formed a partnership for the development and construction of an integrated energy island solution enabling large-scale offshore wind, green hydrogen production, and other value-creating activities on Åland.

## CABO VERDE



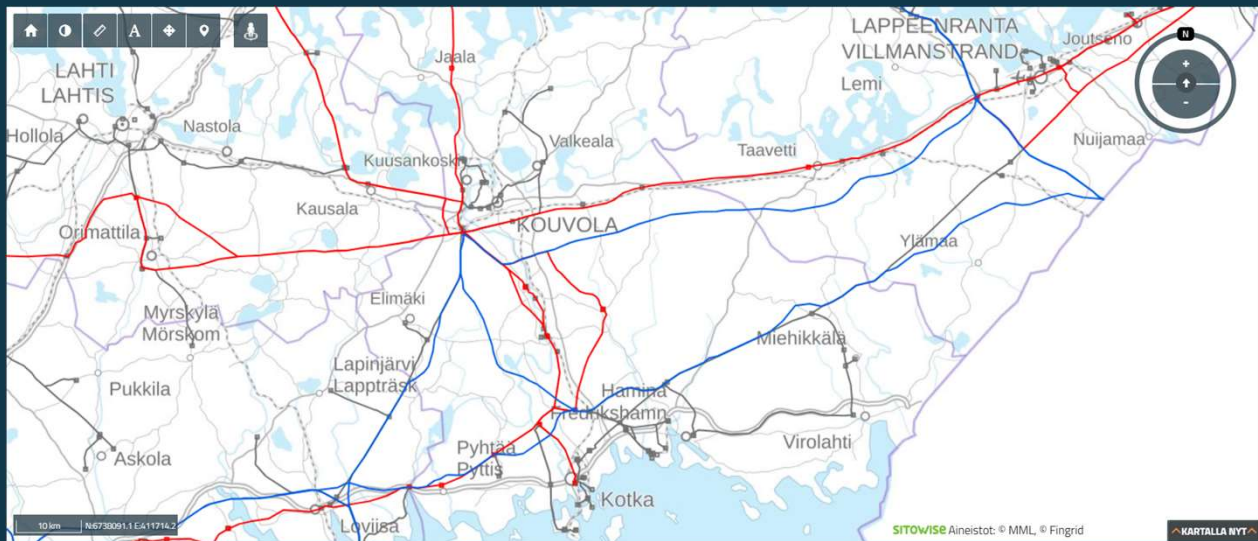
Cabo Verde and Flexens have signed an MoU to collaborate further in developing feasibility studies for the implementation of large-scale green ammonia production in Cabo Verde.

## NAANTALI (GNE)



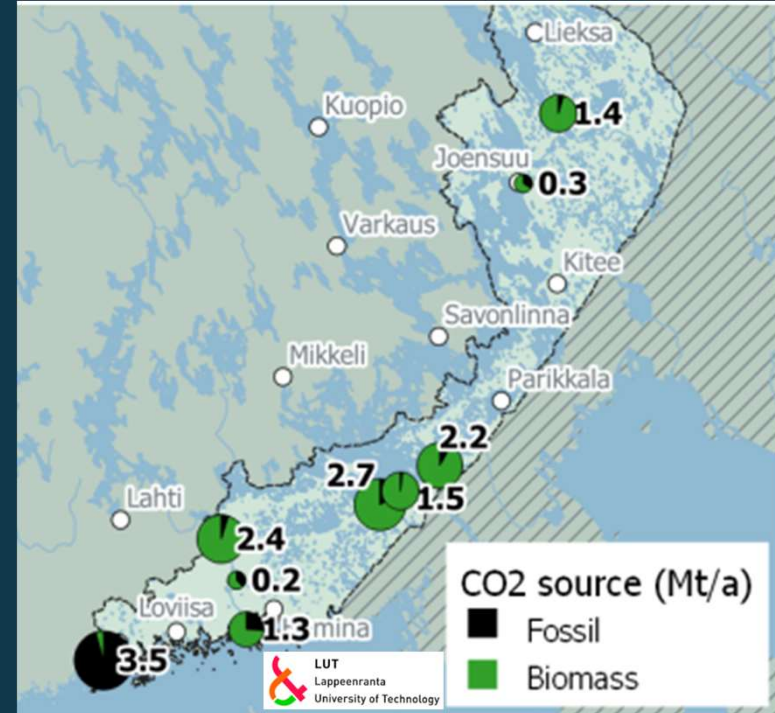
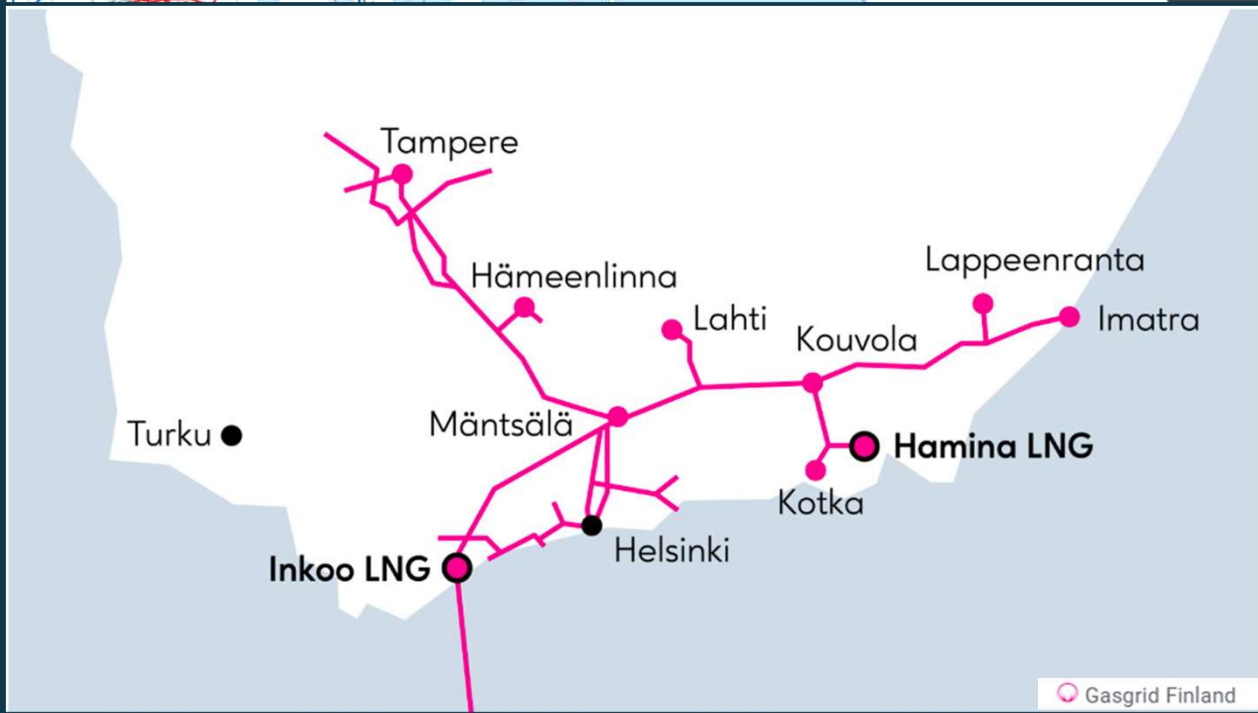
Flexens is a minority shareholder (8 %) in Green North Energy. Their planned 280 MW plant in Naantali is Finland's first green ammonia project.

**Flexens**



**Southeast Finland**  
**Attractive location to PtX**

Grid  
 Logistics advantage  
 Land area  
 Required input streams  
 Side streams usage  
 Offtake





**Q&A**



**UUDET ENERGIAVARASTORATKAISUT AVAIMENA ENERGIAMURROKSEEN**  
**NEWSSETS-LOPPUSEMINAARI**

**SAVE THE DATE**  
**21.5.2024 KLO 10-14**  
**LUT-YLIOPISTO, LAPPEENRANTA**

**Flexens**

**NewSETS**



**Flexens**



**POLAR  
NIGHT  
ENERGY**

**S=NS**