



OFFSHORE WIND

**Creating a Fossil-free Energy
Hub in Northern Europe**



OX2 overview

- Established in 2004. Over 300 employees
- Develops, sells, constructs and operates wind and solar farms
- We strive towards a 100% sustainable and renewable energy sector
- Supplier independent
- Listed in Stockholm Stock Exchange in 2021
- In 2021, net sales totalled EUR 470 million
- The project development portfolio amounts to 32,1 GW (Q3/2022)



THE NEED FOR FOSSIL FREE ENERGY INCREASES DAY-BY-DAY



ELECTRIFICATION

Millions of cars and transports will run on green, fossil-free energy.



INDUSTRY TRANSFORMATION

Mining, steel, concrete and other energy-intensive industries are making the shift to renewable energy. Finland is also becoming a hub for data centers, battery production and other new industries.



DIGITALIZATION & GROWTH IN POPULATION

More people and more connected devices increase our energy needs.

MARKET OUTLOOK



1st

The **EU** to become **the world's first climate neutral region** by 2050.



x25

The **EU** plans for a **25-fold increase** in offshore wind by 2050.



€800B

Expanding offshore renewable energy in Europe will require investment worth nearly **800 billion euros**.



100 %

Finland to have **100 percent carbon neutral energy** by 2035.



Market driven by **decreasing tech. costs, green wave** and **investor interest**

OFFSHORE WIND IN THE BALTIC SEA

RELIABILITY

Favorable conditions with **steady and strong winds**.

SCALE

Offshore allows for **larger turbines and bigger parks**.

X1.5

Halla alone will produce close to **one and half times as much energy** as the Olkiluoto 2 nuclear powerplant.

LOCATION

Energy will be produced close to demand.

LCOE

Highly competitive levelized cost of energy.

GRID

Opportunity to build an interconnected Baltic offshore grid.

POWER TO X

With expanded offshore wind, Finland will at certain times have a significant surplus of electricity. With Power-to-X technologies, this surplus can be converted into hydrogen, ammonia, synthetic fuel etc.

- ✓ Enables green hydrogen as a power source for ships, airplanes, trucks and industries
- ✓ Enables new industries and operation in harbors and coastal towns
- ✓ Allows for storage and transportation of energy



BIODIVERSITY AND ENVIRONMENTAL CONCERNS



ENVIRONMENTAL CONCERNS

Sensitive locations are avoided. Screening and development always take place with great regard for wildlife and environmental interests.



OXYGENATION

As oxygen is a by-product of hydrogen production, each wind turbine can help oxygenate the seabed, and thereby contribute to healthier marine environments.



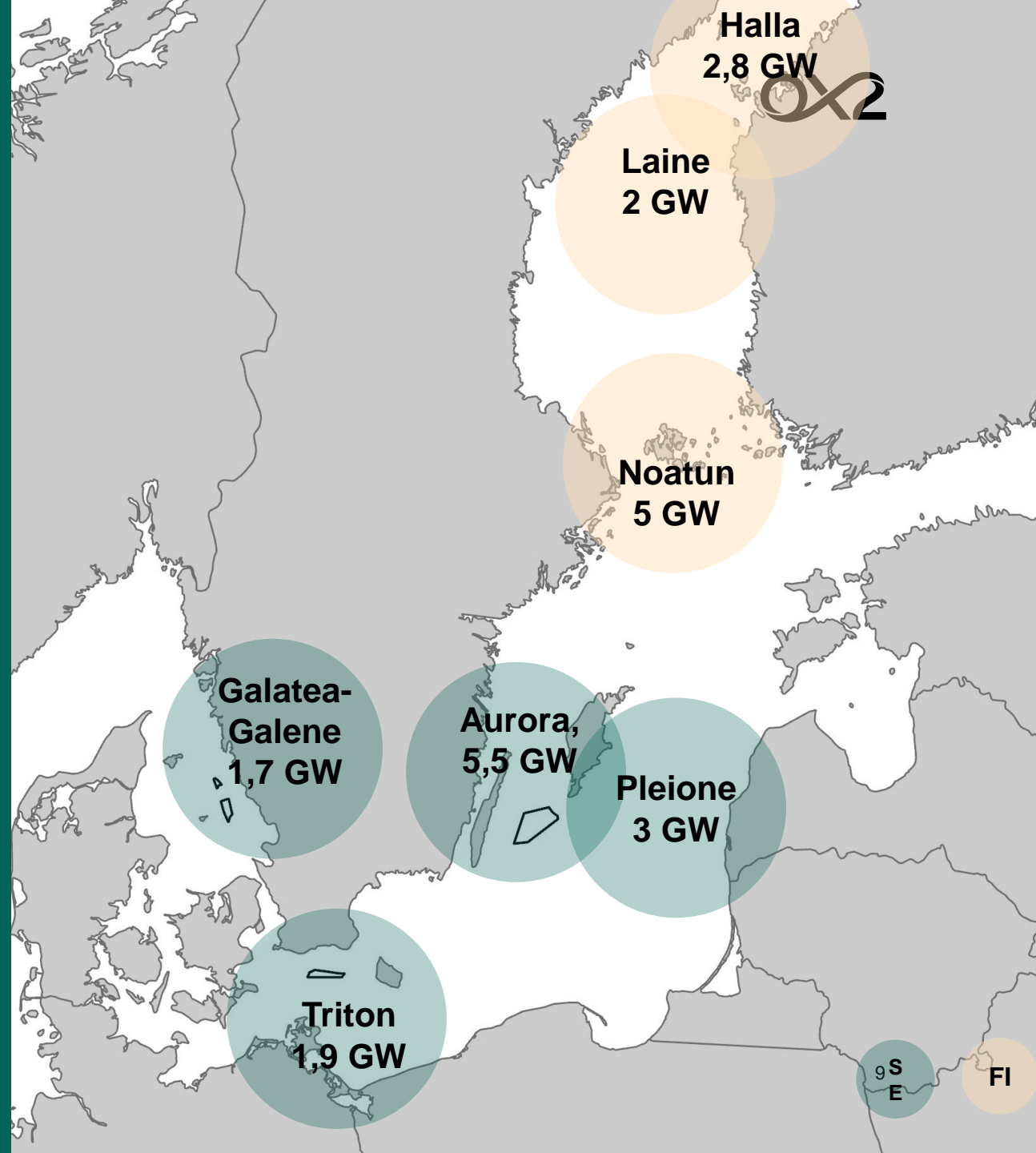
REEFS AND BANKS

Every offshore foundation provides the opportunity to create mussel and alga beds, with the capacity to purify water, provide a safe zone for fish populations and deliver healthy and ecological food for humans.

OX2'S OFFSHORE PIPELINE

OX2 targets to further accelerate our existing offshore portfolio while expanding with new opportunities in existing and new geographies.

- ✓ Four projects in Sweden and three projects in Finland with started permitting work and environmental impact assessments
- ✓ Expanding portfolio in existing as well as new geographies

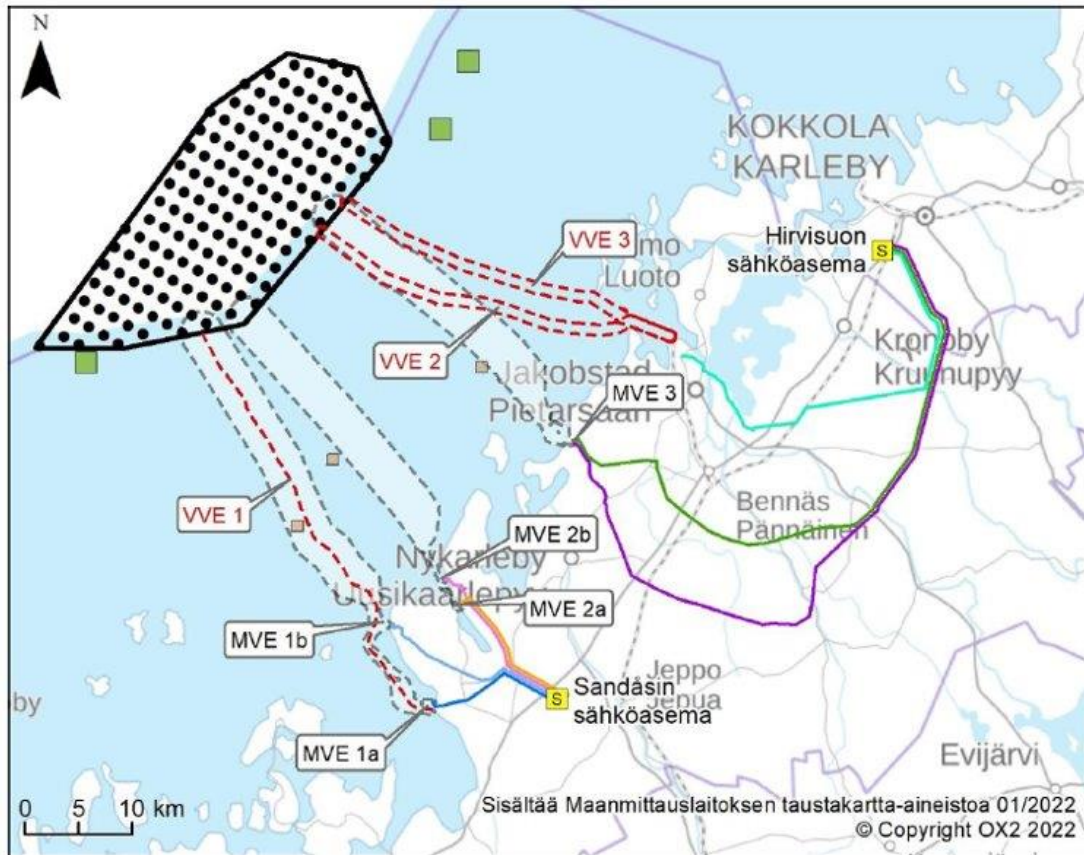


LAINÉ

- ✓ West of Pietarsaari and Uusikaarlepyy, 30km from coastline
- ✓ Up to 150 turbines, up to 370 m high
- ✓ Grid connection in Uusikaarlepyy or Pietarsaari
- ✓ 11 TWh/year
- ✓ one rotation of Laine windfarm turbines produces 7500 kWh = annual electricity consumption of 3 households
- ✓ Puts Ostrabothnia on the Green Map
- ✓ Increases energy independency of Finland



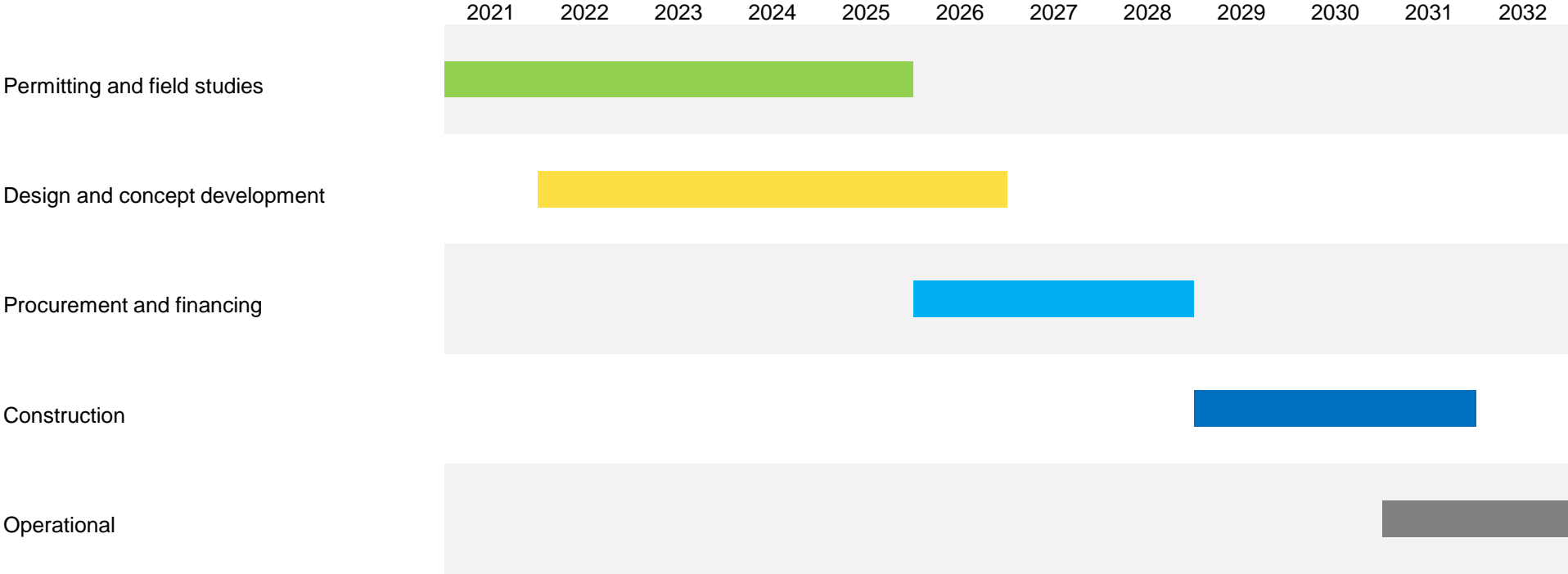
LAINE



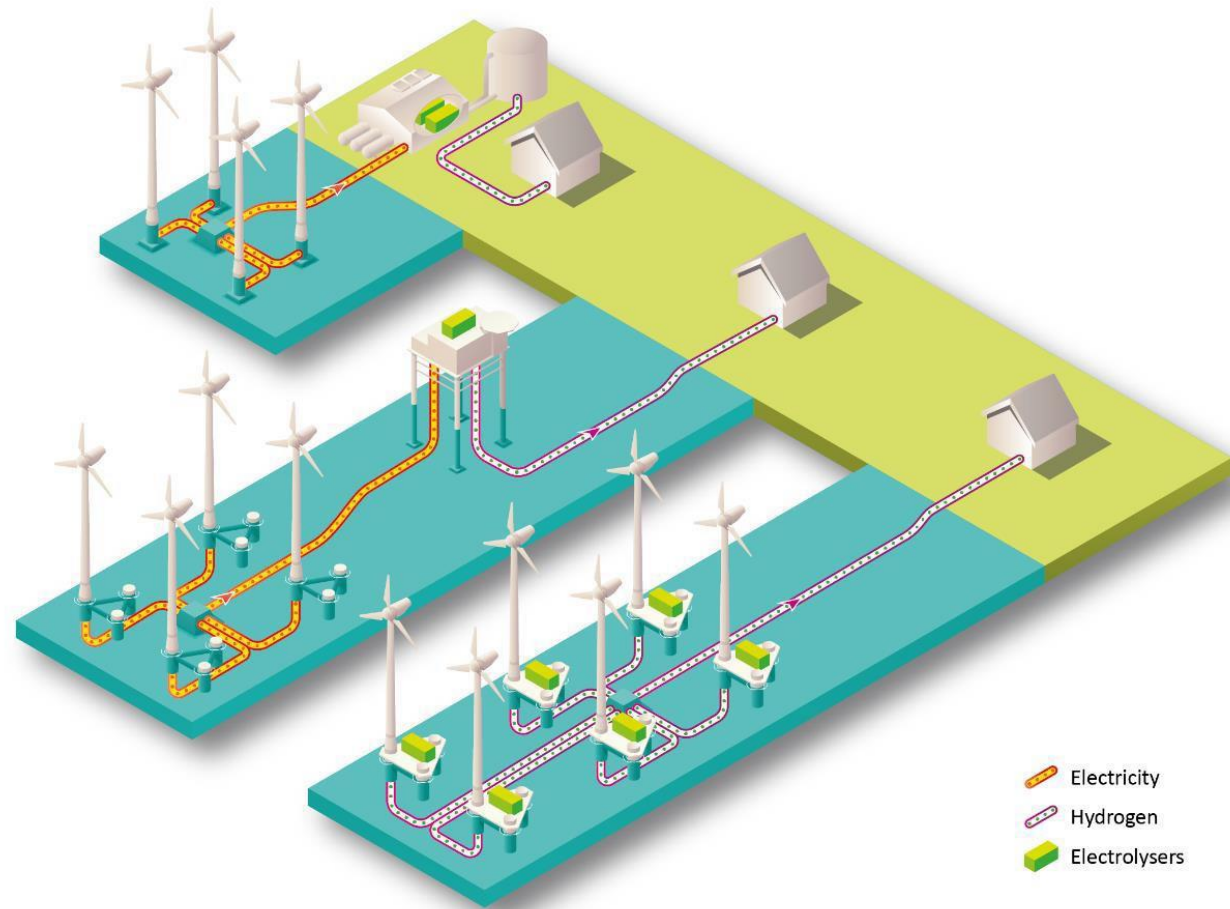
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|------------------------------------|---|
| Hankealue / Projektområde | Voimajohtoreitti / Kraftledningsrutt Laine SVE 1a |
| Tuulivoimala / Vindkraftverk | Voimajohtoreitti / Kraftledningsrutt Laine SVE 1b |
| Sähköasema / Elstation | Voimajohtoreitti / Kraftledningsrutt Laine SVE 2a |
| Merikaapelireitti / Sjøkabelrutt | Voimajohtoreitti / Kraftledningsrutt Laine SVE 2b |
| Vetyputkireitti / Vätgasrörledning | Voimajohtoreitti / Kraftledningsrutt Laine SVE 3a |
| | Voimajohtoreitti / Kraftledningsrutt Laine SVE 3b |
| | Voimajohtoreitti / Kraftledningsrutt Laine SVE 4 |
| | Vaihtoehtoiset läjitysalueet / tuulipuisto |
| | Vaihtoehtoiset läiitvsalueet / merikaapelireitit |



LAINE TIME SCHEDULE



LAINÉ – HYDROGEN CONCEPTS



LAINÉ – HYDROGEN CONCEPTS



Source: Siemens-Gamesa

LAINÉ – HYDROGEN STORAGE



QUESTIONS?

An aerial photograph of Earth from space, showing a large body of water on the right and a landmass on the left. The landmass is covered in dense, white clouds. The water is a deep blue color. The overall scene is illuminated by bright sunlight, creating a high-contrast image.

THANK YOU!