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Laanila Hydrogen project in brief

**OULUN
ENERGIA**

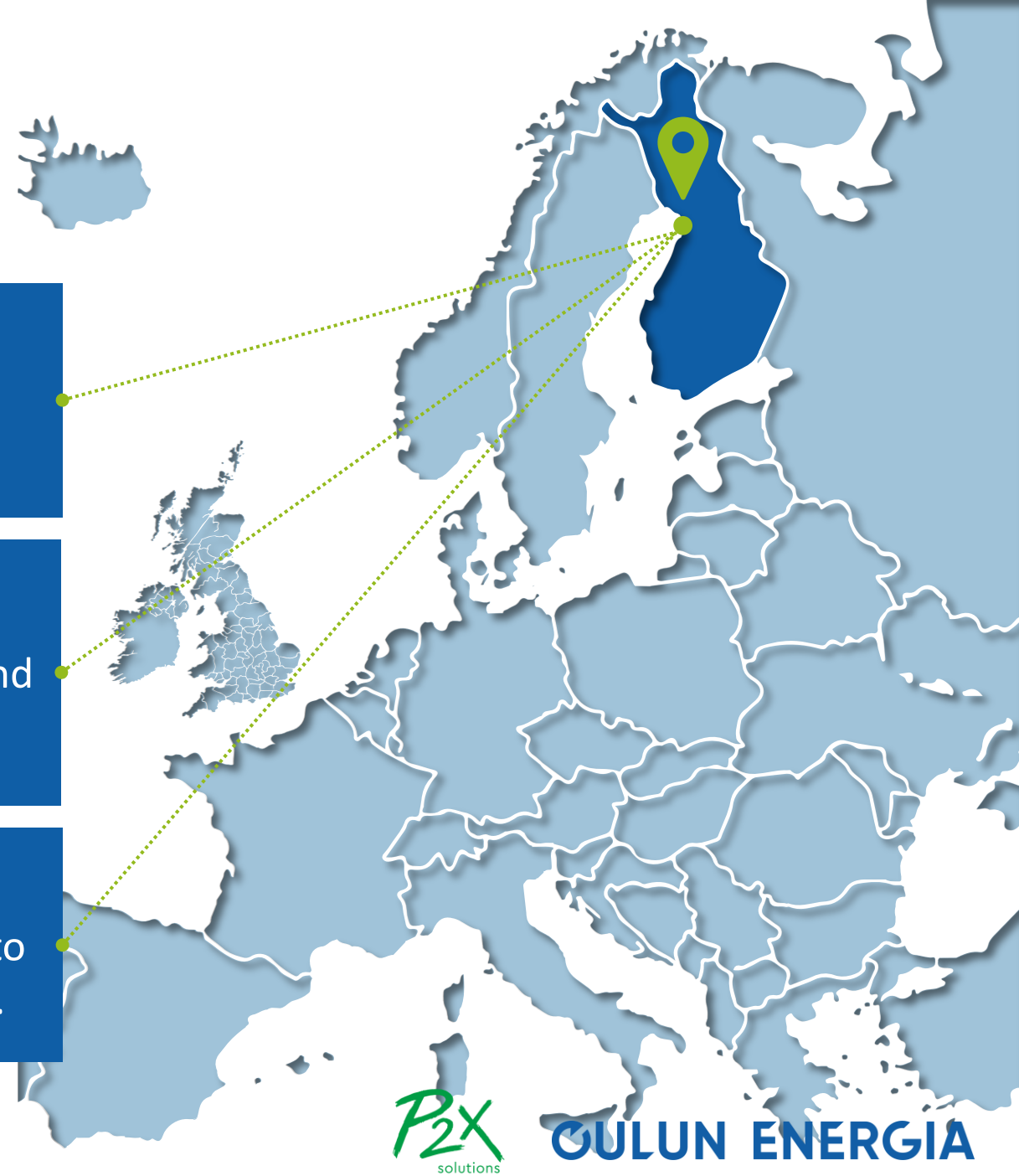
P2X
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Laanila Hydrogen project

Oulun Energia and P2X Solutions is planning to build a 100 megawatts (MW) hydrogen production plant in Oulu, northern Finland.

The project aims to investigate the possibilities of recovering the biogenic flue gases from local industry and power plants in the further processing of hydrogen.

Final product could be methane or methanol. The products created by the hydrogen plant could be used to replace fossil fuels in road, maritime and air transport.



This is how we do it

Key information

Hydrogen plant

100 MW

Planned to be located
in Laanila industrial
area, Oulu

Ready by

2028

Saved emissions
potential
~200 kton/year

New jobs
600 FTE pre-
operation, 100 FTE
during operation

Heat energy
200–400
GWh/year

1

Concept study (finalized)

2

Project execution FEED (active)

FEED phase includes the project's technical plans and commercial negotiations. The Environmental Impact Assessment (EIA) is ongoing. The FEED phase serves as the basis for making the investment decision.

3

**Investment decision and
construction (TBD)**

4

**Operational readiness of the
hydrogen plant (TBD)**

Clean heat for residents

The heat energy created as a by-product, could be transferred to the district heating network.

It would correspond to approximately 10–30 percent of Oulu's annual district heating demand.

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ROUTE

CHP

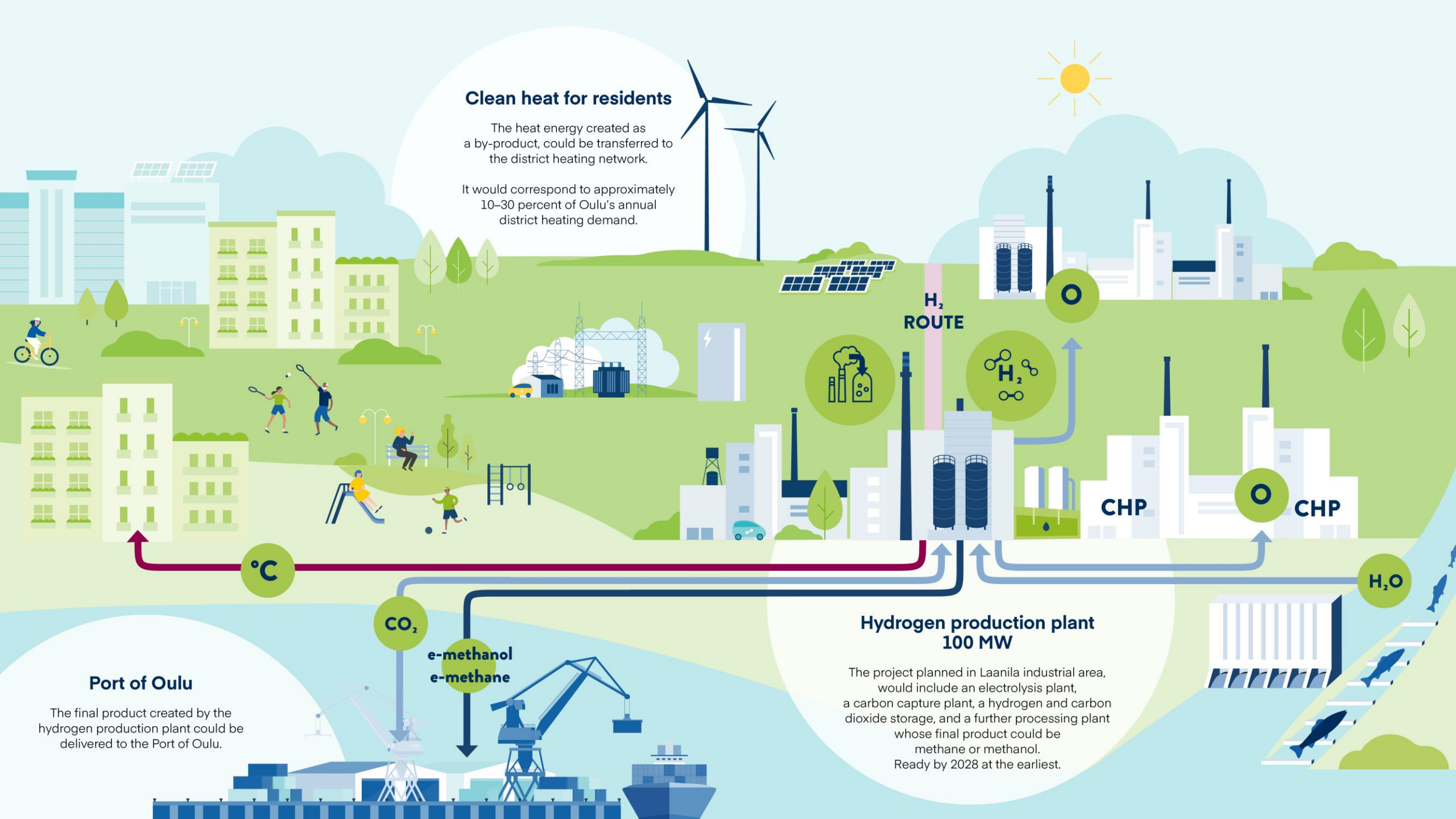
CHP

Hydrogen production plant 100 MW

The project planned in Laanila industrial area, would include an electrolysis plant, a carbon capture plant, a hydrogen and carbon dioxide storage, and a further processing plant whose final product could be methane or methanol. Ready by 2028 at the earliest.

Port of Oulu

The final product created by the hydrogen production plant could be delivered to the Port of Oulu.





Thank you!

Arto Sutinen
CEO | Oulun Energia Group

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