

# Hydrogen propelled small ferry in Kokkola

Aleksi Haverinen / Head of Power-to-X 1.6.2022

# Flexens develops clean energy projects

FLEXENS IS A PROJECT DEVELOPER AND INVESTOR FOCUSING ON RENEWABLE ENERGY SOLUTIONS



**SMART ENERGY ÅLAND**  
<https://smartenergy.ax/>

**LocalRES**  
<https://www.localres.eu/>



Up to 6 GW offshore wind power in Åland sea areas

**GREEN NORTH2 ENERGY**

Project on a large Power-to-X facility in Naantali



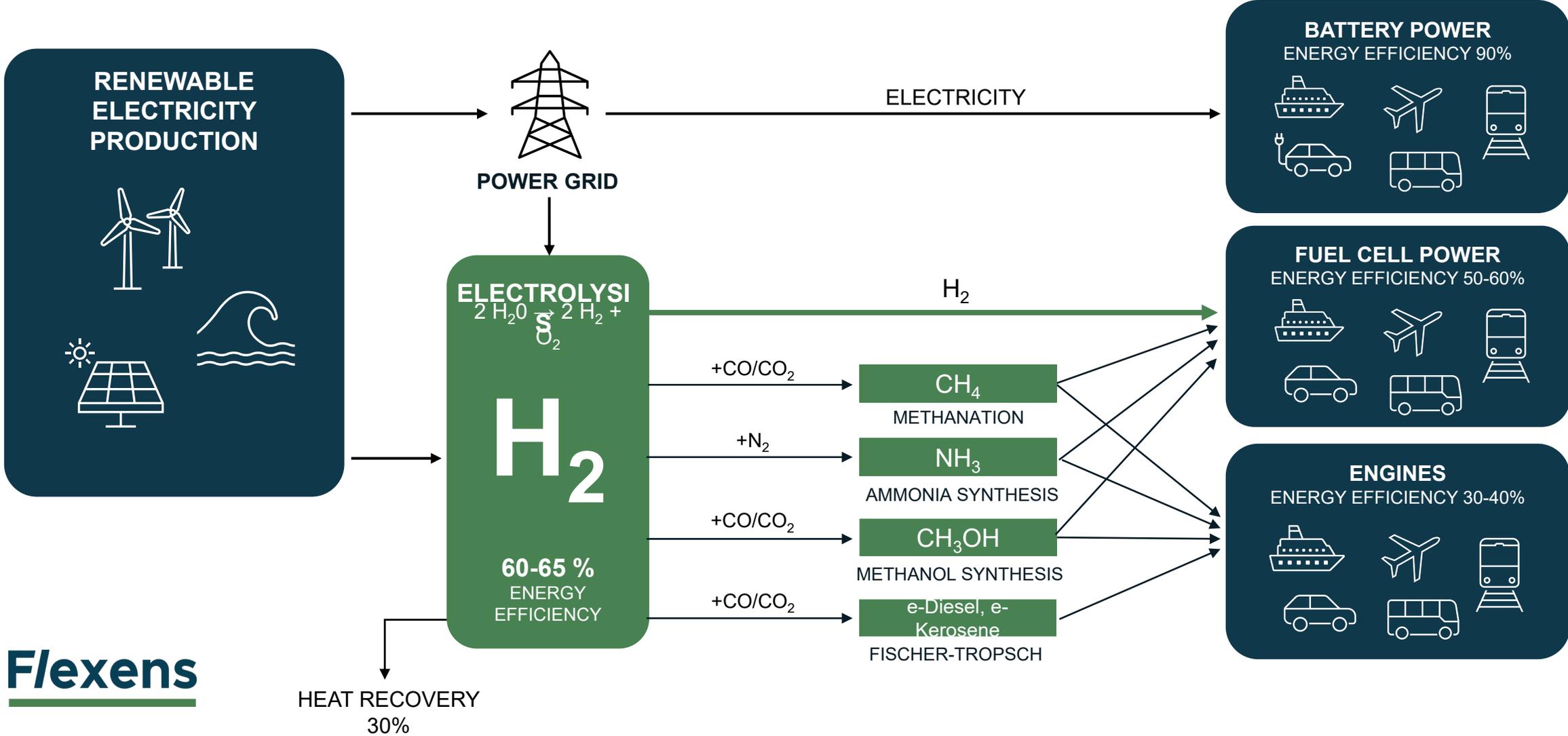
Power2AX project - hydrogen production and a fuel cell ferry in Åland



This project has received funding from the European Union's Horizon 2020 Programme under the Grant Agreement no. 957819



# Power sector will run future logistics

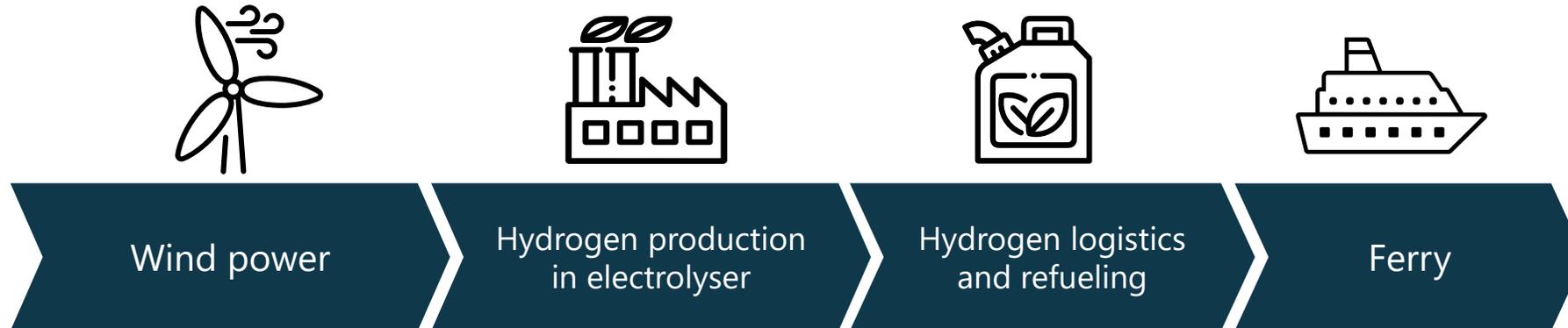


# MS Jenny, Kokkola

- Built in 1978
- Operating from Meripuisto to the lighthouse island Tankar
- Passenger capacity 177
  - 72-seat café-salon
  - 35-seat sun deck



# Planning hydrogen propelled Jenny in Kokkola



## A PILOT OF HYDROGEN PROPELLED ZERO-EMISSION FERRY IN FINLAND

- Current Jenny is getting old and we'll need to lower climate emissions
- Global hydrogen hype and on-going developments in the Kokkola area are expected to lower production costs of green hydrogen
- Hydrogen is a highly potential fuel for short-sea shipping
  - Zero-emission
  - Longer routes and better flexibility vs. battery
  - Electrical motors offer excellent operability



**Thank you!**

**Flexens**

**Aleksi Haverinen**

Head of Power-to-X

[aleksi.haverinen@flexens.com](mailto:aleksi.haverinen@flexens.com)

+358 50 4617716