Vätgaskonferensen

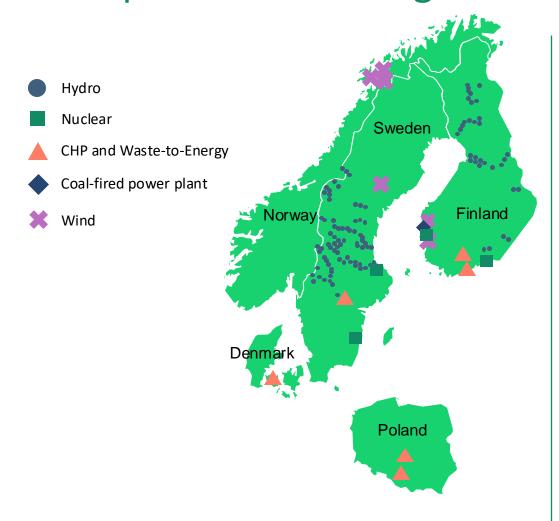
Putting Hydrogen on the Market – A story of close cooperation

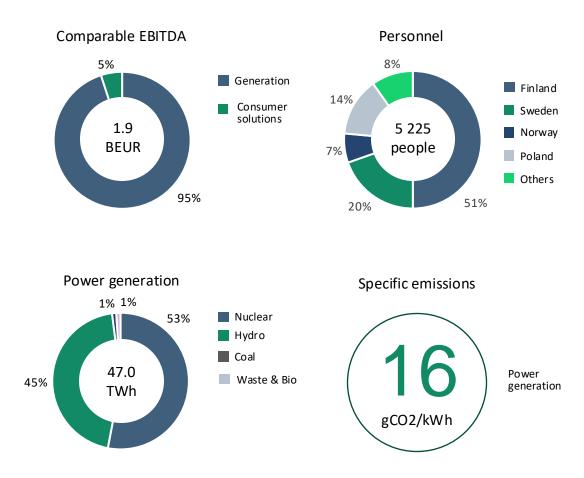
Fortum & Euromekanik





Fortum today: We are one of the cleanest power generators in Europe – with a strong Nordic focus







Our purpose is

TO POWER A WORLD WHERE PEOPLE, BUSINESSES AND NATURE THRIVE TOGETHER.

STRATEGIC PRIORITIES

Deliver reliable clean energy

Drive decarbonisation in industries

Transform and develop

We help societies to reach carbon neutrality and our customers to grow and decarbonise their processes in a reliable and profitable way, in balance with nature.

Our business portfolio

FORTUM CORE

Strengthen and selectively grow areas of core competence, while capitalising volatile markets.



Hydro



Nuclear



Flexibility and optimisation



Customer business



Heating and Cooling

DEMAND-DRIVEN RENEWABLES

Prepare ready-to-build pipeline to serve customer demand growth with long-term contracts.



Onshore wind



Solar

EXPLORE

Future-shaping by studying, validating, and developing future opportunities.



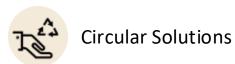
Clean hydrogen



Innovation & Venturing

NON-CORE

Businesses not in the core of the strategy. Strategic review.





Euromekanik

Introduction

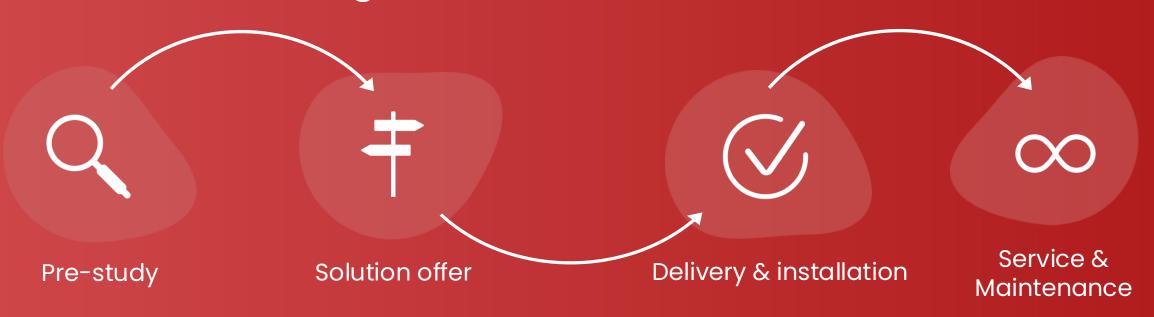
- Founded in 1974, 40 staff today
- Suppliers of technical solutions and products within energy gas, petrochemical fluids and steam
- System integrator working with world class component manufacturers
- Active in national standardization work within the energy gas sector (Energigas Sverige)
- Competence within personal and process safety secures sustainable technical solutions for the process industry



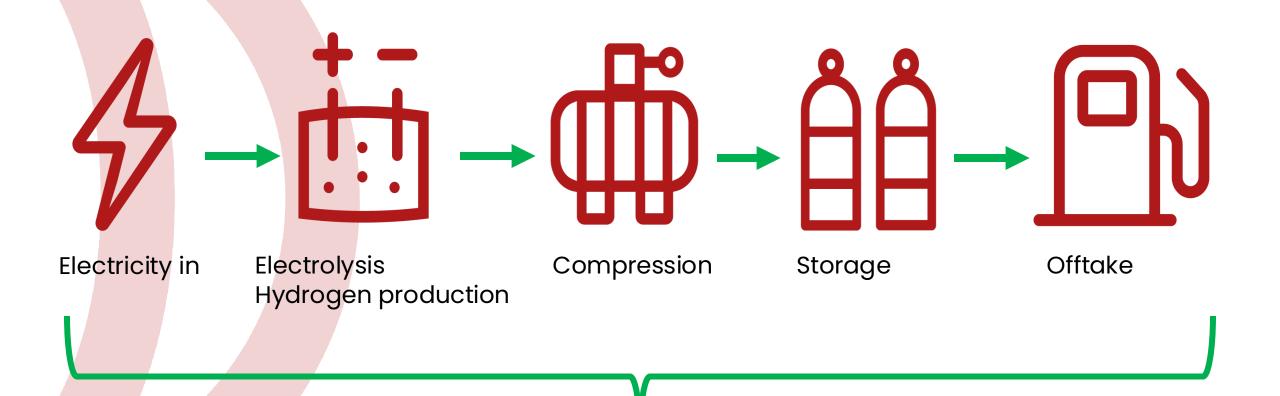




Being a customer to Euromekanik



Hydrogen





SYSTEM INTEGRATION

Early adopters of new technology

Pilot plant in 2021



- ZEHTC
- Hydrogen production at Siemens in Finspång





Project Description

- Testing two Electrolyzer technologies
 1 MW each
- Compressing
- Tube trailer filling
- Overall safety and control system







Why are we doing the Kalla project?







Hydrogen market maturity

From this.... ...to this









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Are projects like this really needed?





How is the project model set-up?

Fortum is responsible for

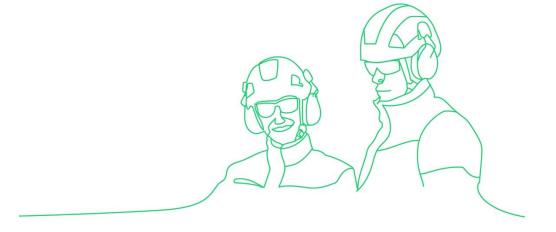
- Site and Civil
- Purchasing Electrolyzers
- Purchasing Transformers
- DCS programming

Euromekanik is responsible for

- System engineering and detailed design
- Managing and integrating electrolysers, transformers etc
- Compressor and tube trailer filling
- Installation and commissioning

FEED and project execution is done in parallel

Saves time but adds complexity







From Pilot plant to Role Model plant







Lessons learned (so far...) to bring for coming projects

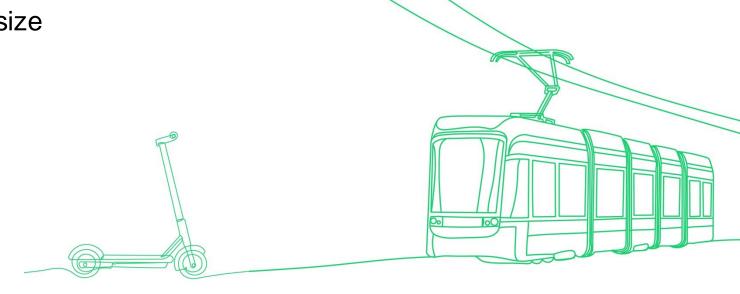






Large Finnish company and small Swedish company

- Cultural differences on country level
- Cultural differences due to company size
- Benefits but also challenges







Thank you!



