

The success recipe for the green transition in Nordics

14.2.2024

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Green transition and Nordics



- **The Nordic countries are better off and in good speed in many ways: Green transition is true, taking place (smart grids, PVs, HPs, EVs etc.) and societies are strong & healthy**
- **Electricity very clean and green: hydro power, nuclear power, wind power, bio-CHP**
 - **More wind power & PV in FI & SE**
 - **Aurora line starting 2025**
 - **In the longer run, storage (batteries etc.), nuclear (SMR or big), integration of networks (electricity, District Heating, Hydrogen grids)**
- **The Hydrogen projects (and others) have suffered from lacking investments, FID**
- **“The Hydrogen hang-over” is easily coped with, things built on solid business cases**

The Success Recipe



- **The recipe: KISS, step-by-step, from smaller to bigger, simple to complicated, learn-by-doing**
- **You can't hurry Love.. Sorry, technology. Every technology needs time to get rid of "the childhood diseases", to "learn".**
- **Also the sectors where Hydrogen will play (and not play) and what role is not fully written**
- **The Nordics have all the ingredients: cheap power, strong grids, plenty of bio-CO2, plenty of sweat water, heat use in Dist. Heating, skilled labor etc. PLUS DEMAND IS NEEDED!**
- **It is good to build on these premises gradually growing, healthy hydrogen economy!**

Different speeds, yet same goals



- **Politicians, researchers, industry ... different speeds**
- **“The technology is there, already in Apollo-flights..”**
- **EU goal 10 Mt/a renewable H2 produced and 10 Mt imported by 2030 – goals OK, but not by 2030...**
- **Finland, in 2022 Clim. & Energy Strategy: “2025 goal 200 MW electrolyzers” – not by 2025, “1000 MW 2030”...**
- **Gov. program: FI can produce 10 % of EU’s clean H2 2030**



Thank You
Kiitos