Local Hydrogen Hubs for PtX and Beyond

- deployment steps, opportunities and challenges

https://cetpartnership.eu/local-industrial-hydrogen-hubs-ptx

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TRI6 Local industry H2 hubs 15.12.2025

Focus: Hydrogen valleys and local industry symbiosis –including renewables, H2 and its derivatives and CCU.

Goal: scalable models for economic profitability, paving the way for hydrogen deployment

- Intro: summaries from 9.10 policy forum on demand of H2 and TRI3 workshop.
- Invited local hubs/valleys presentations: Finland/Turku; North Norway; Austria
- Presentation on combining bioeconomy and H2
- Discussion session

Total registered 102.
Total 78 participants during the event

TRI6 Local industry H2 hubs 15.12 – summary (1/2)

"Lifting a whole new value chain at the same time is challenging, how to start projects without delays when not all actors are ready.
Multi use ecosystems: Industrial hubs, clusters and ecosystems help connecting all actors in the value chains."

Local ecosystems advantages:

- existing industry,
- energy availability with electricity grid, and
- demand for H2 (transport, ammonia etc) with offtakers

Barriers:

- financial: funding programme uncertainty. price expectations gap btw consumers and producers.
- legal: changing regulations for a developing landscape. safety requirements still developing. certification not existing for longer term confidence.
- technical: grid connection – especially if the grid is not strong enough for larger electrolysers

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TRI6 Local industry H2 hubs 15.12 – summary (2/2)

"We need both brave pioneers and drivers for green H2"

For economic profitability:

- **knowledge sharing** from scalable solutions needs to happen more widely than bilaterally.
- need to **build more green energy** for cost efficient energy production, with all other efforts to raise the H2 ecosystems.
- For investment decisions, **predictability of prices** is important, for example through steadily increasing carbon prices.

Biogenic CO2 is one important element and combining hydrogen and bioeconomies form a strong pathway.

EU regulators need feedback from companies/from the value chain. In future all CO2 streams can be important, circulating all CO2 emissions and in future DAC as well.