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POHJOISTA VOIMAA

What if the next industrial revolution is not driven by AI, hydrogen or electrification — but by the ability to combine all three?

Can Europe control the infrastructure that powers its industry?

Are we tackling the actual challenges? – Sub-optimization in hyperscale usually leads to undesired resolution.

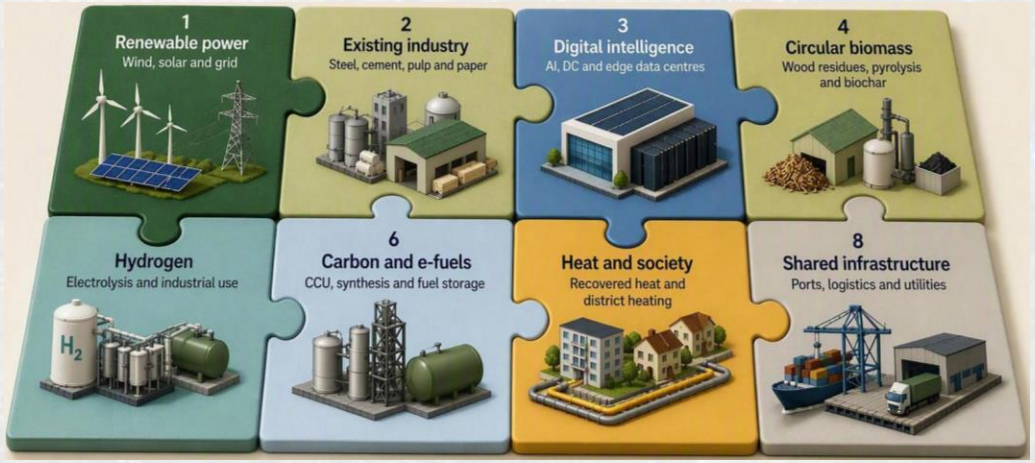
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Energy has changed from commodity to strategic infrastructure – or has it always been that way?

- Relevant question is no longer:
  - Where can we get cheap energy?
  - Where can we find cheap land to build our ”thing”?

- The question is
  - Where can we build a competitive industrial system around energy?
  - In which ”puzzle” we can find suitable slot for our facility?

Electrification of all at the same time or market driven prioritized order?

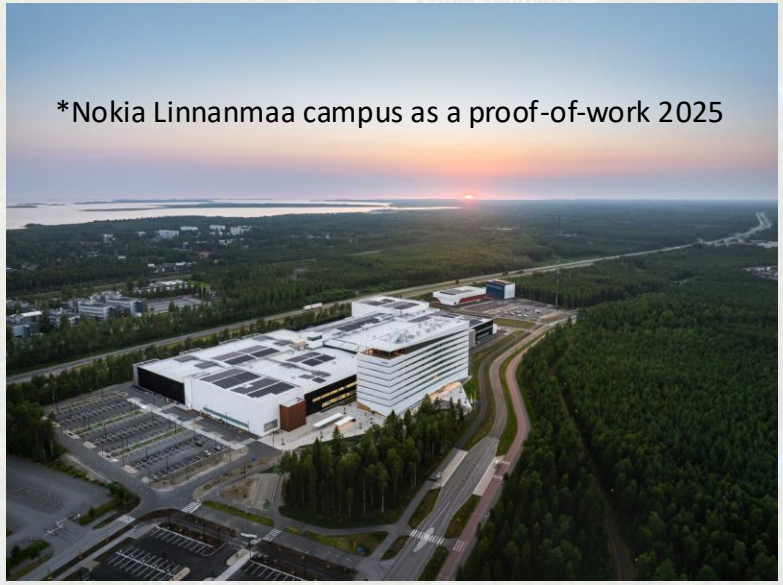


the ERA of intelligent energy systems has already begun

- Started from common target setting
  - Parties open for discussions
  - True co-operation from the beginning
- Thinking outside battery limits
  - Multiple layers of optimization needed
- Flexibility has to be built in operations
- Physical and digital infrastructure combination

- AI driven energy systems are the next in line





*Nokia Linnanmaa campus as a proof-of-work 2025

From just energy supply – energy system approach

- How and what to electrify?
- How can we orchestrate this transition? – definition of roles
- How to handle project-on-project risk with funding?
- Can we continue like before?
- What kind of regulation and decisions should be in place?





”There can be no digital sovereignty without energy sovereignty.” by Dan Jørgensen
*Energy sovereignty without digital intelligence is equally incomplete.



Illustrative industrial symbiosis concept

Europe’s sovereignty discussion key takeaways

- In global competition Europe needs true co-operation
- Resilience is built on trust
- On trust you can create new business
- With trusted partners you´re able to be in the game
- Holistic approach secures competitive business and growth



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The future is not just about producing more energy. It is about creating more value from every unit of energy.

Energy security is the core that all sovereignty is built on.

Build infrastructure, industrial ecosystems and flexibility.

It is the ”puzzle” that counts not the piece.

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Thank you!

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