



Energy Transition as a System-Level Transformation

Future Energy Solutions 2026

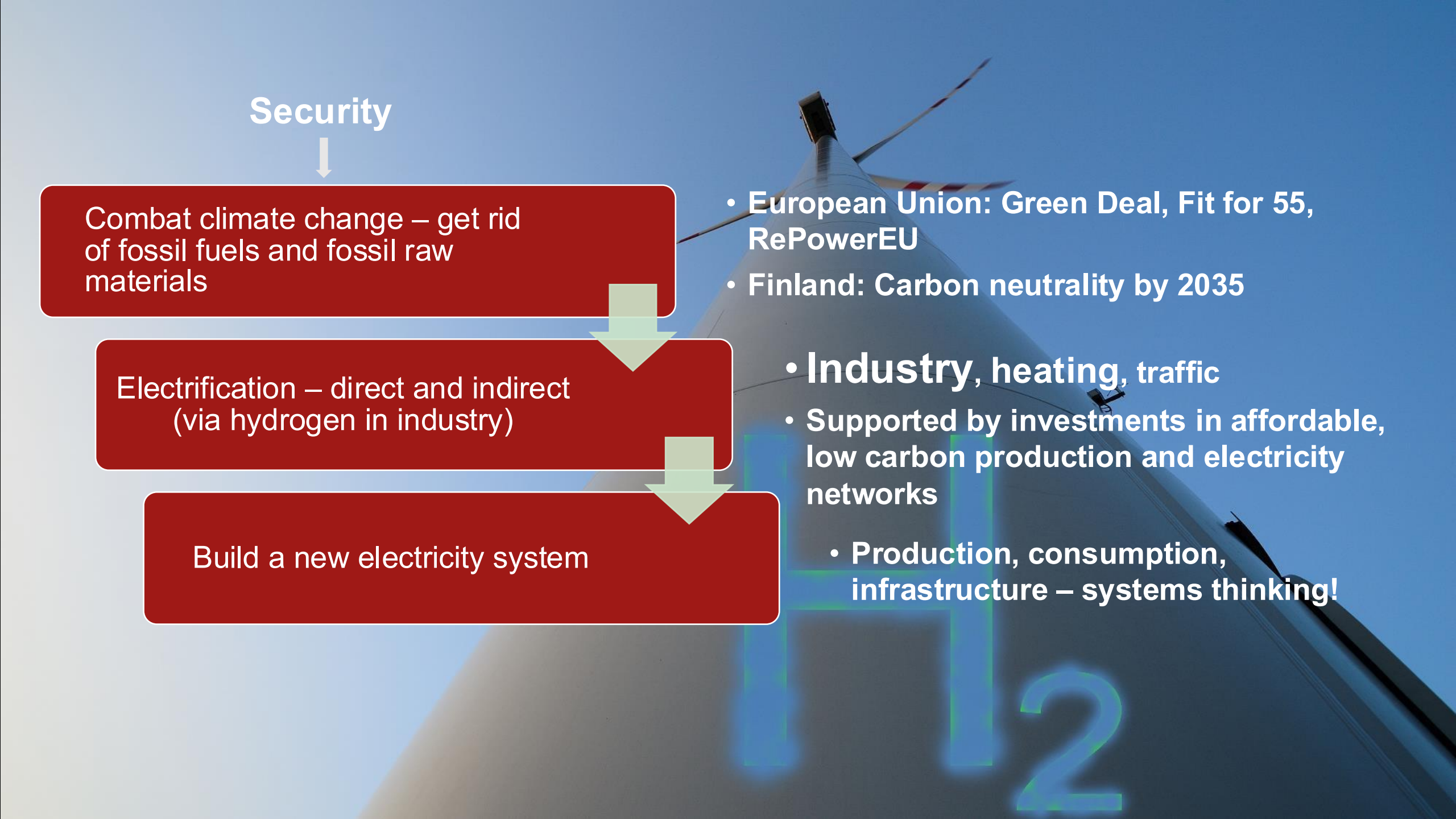
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Security



Combat climate change – get rid of fossil fuels and fossil raw materials

- European Union: Green Deal, Fit for 55, RePowerEU
- Finland: Carbon neutrality by 2035

Electrification – direct and indirect (via hydrogen in industry)

- **Industry**, heating, traffic
- Supported by investments in affordable, low carbon production and electricity networks

Build a new electricity system

- Production, consumption, infrastructure – systems thinking!

Prerequisites for the industry:

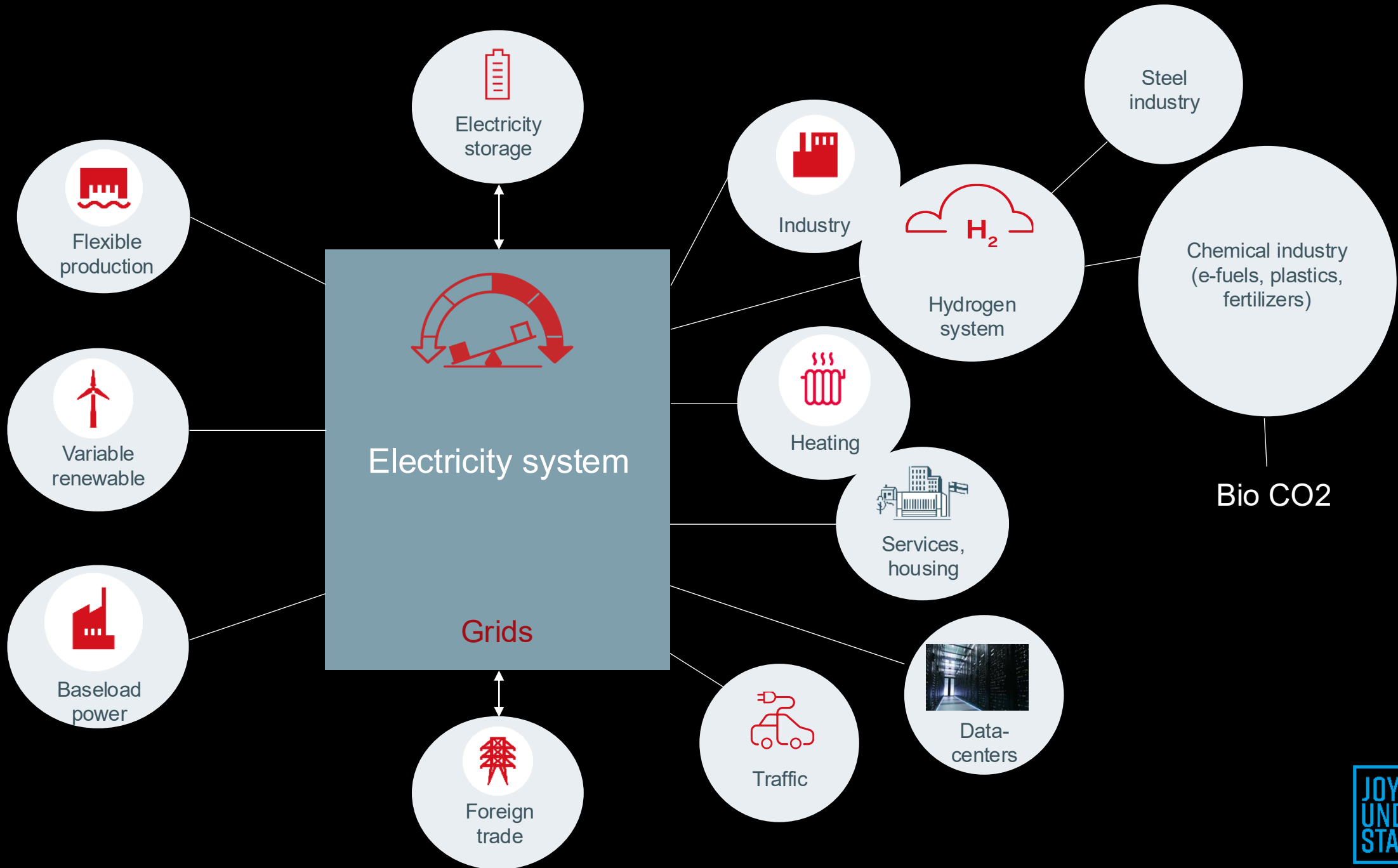
Cheap, clean, and secure electricity – with development potential

Strong electricity grid – access to competitive electricity

Industry fit hydrogen infrastructure

Regulation that creates markets for fossil-free products

Calls for a new electricity system!



DESIGN PRINCIPLES – SYSTEMS THINKING

- Optimization of overall value chains – not just individual technologies: steel, chemical products
- Consumption close to production: electricity, hydrogen
- New architectures - industrial parks
- Hydrogen storage facilities that support the industry and the electricity system



LAND OF THE CURIOUS

