How AI and Digitalization are crucial for decarbonizing the energy system while enhancing necessary capacity and cost competitiveness.

Jens Zerbst

February 2026

The greatest danger in times of turbulence is not the turbulence, it is to act with yesterday's logic.

Peter Ducker

Jens Zerbst

Vice President & CIO, Head of IT Vattenfall

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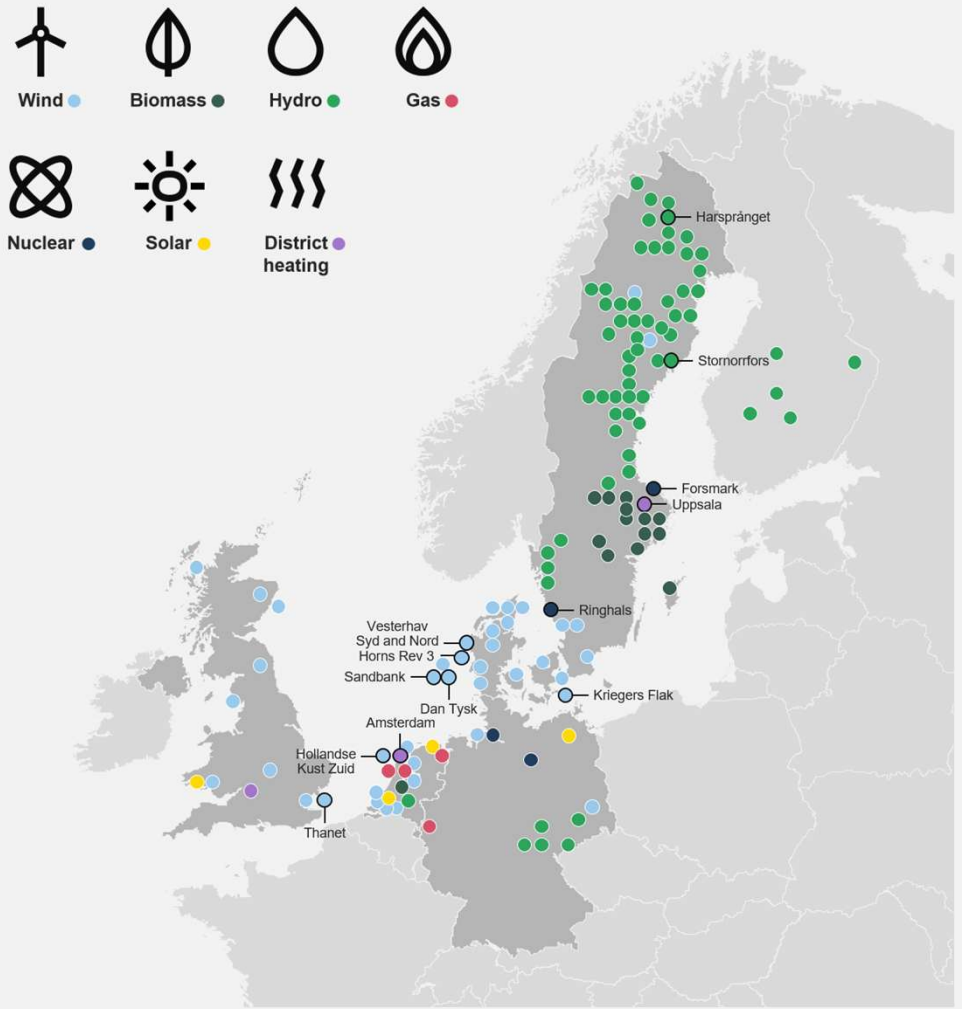
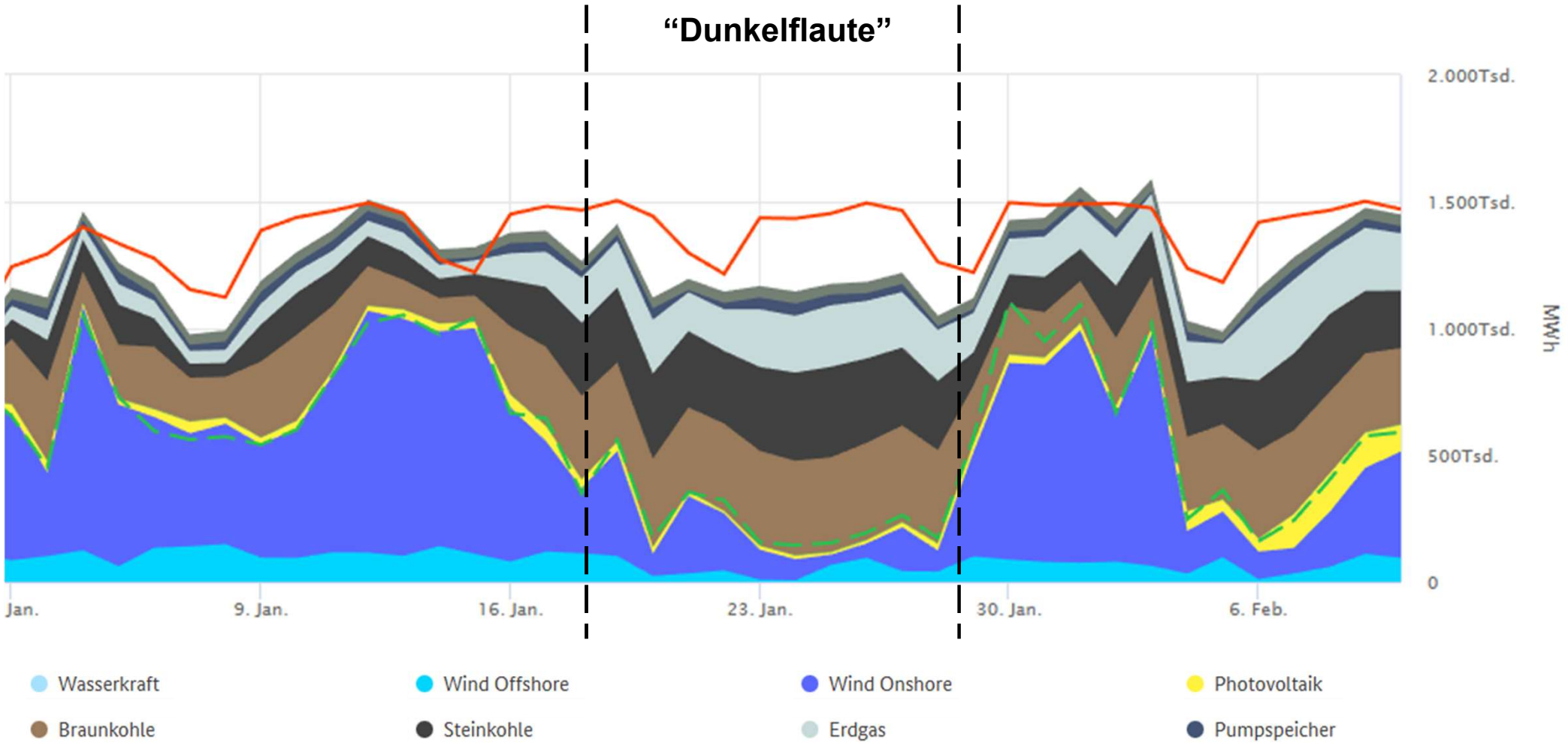
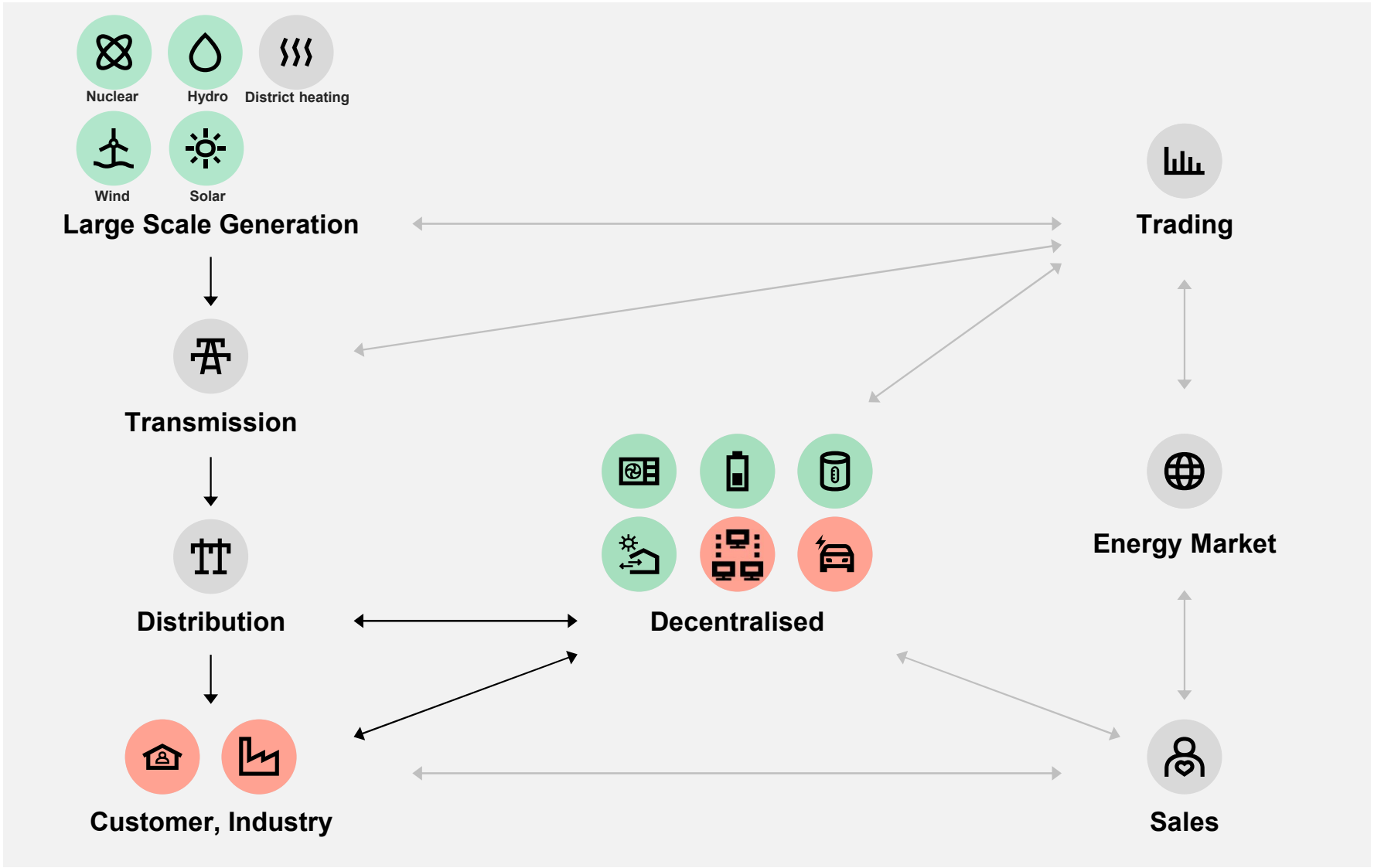


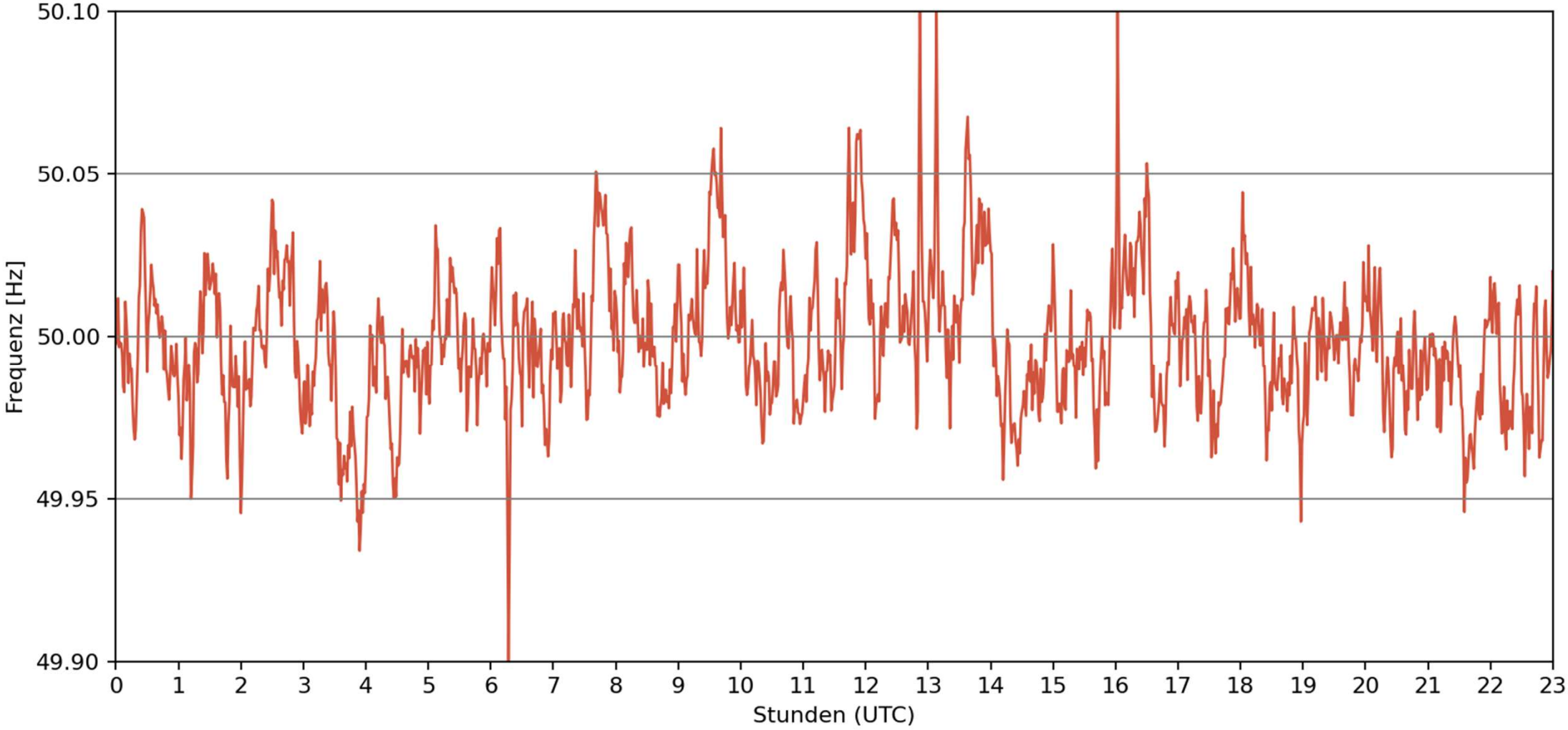
The EU aims to be climate-neutral by 2050 an economy with net-zero greenhouse gas emissions.



VATTENFALL

Source: SMARD.de (CC4.0)





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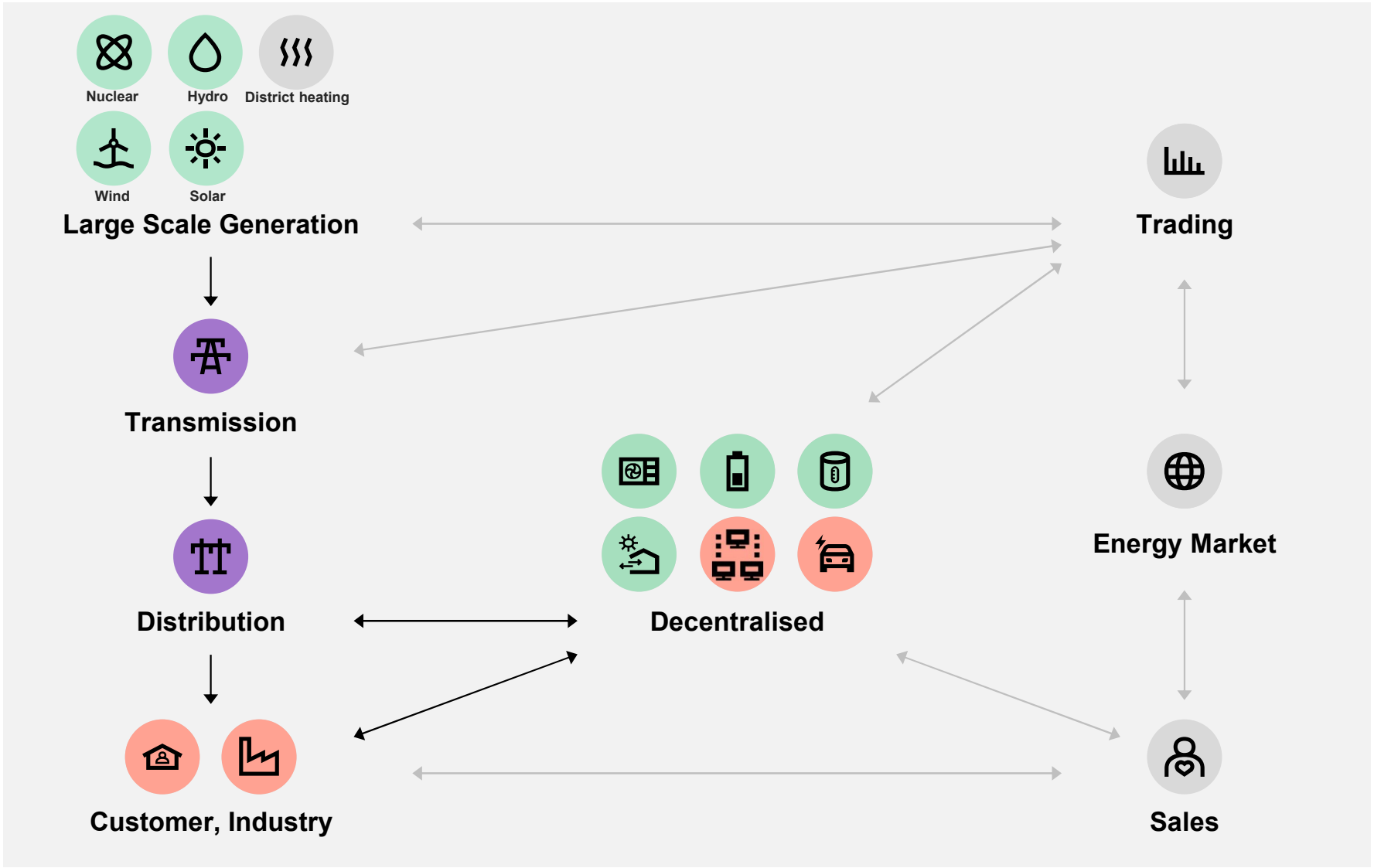
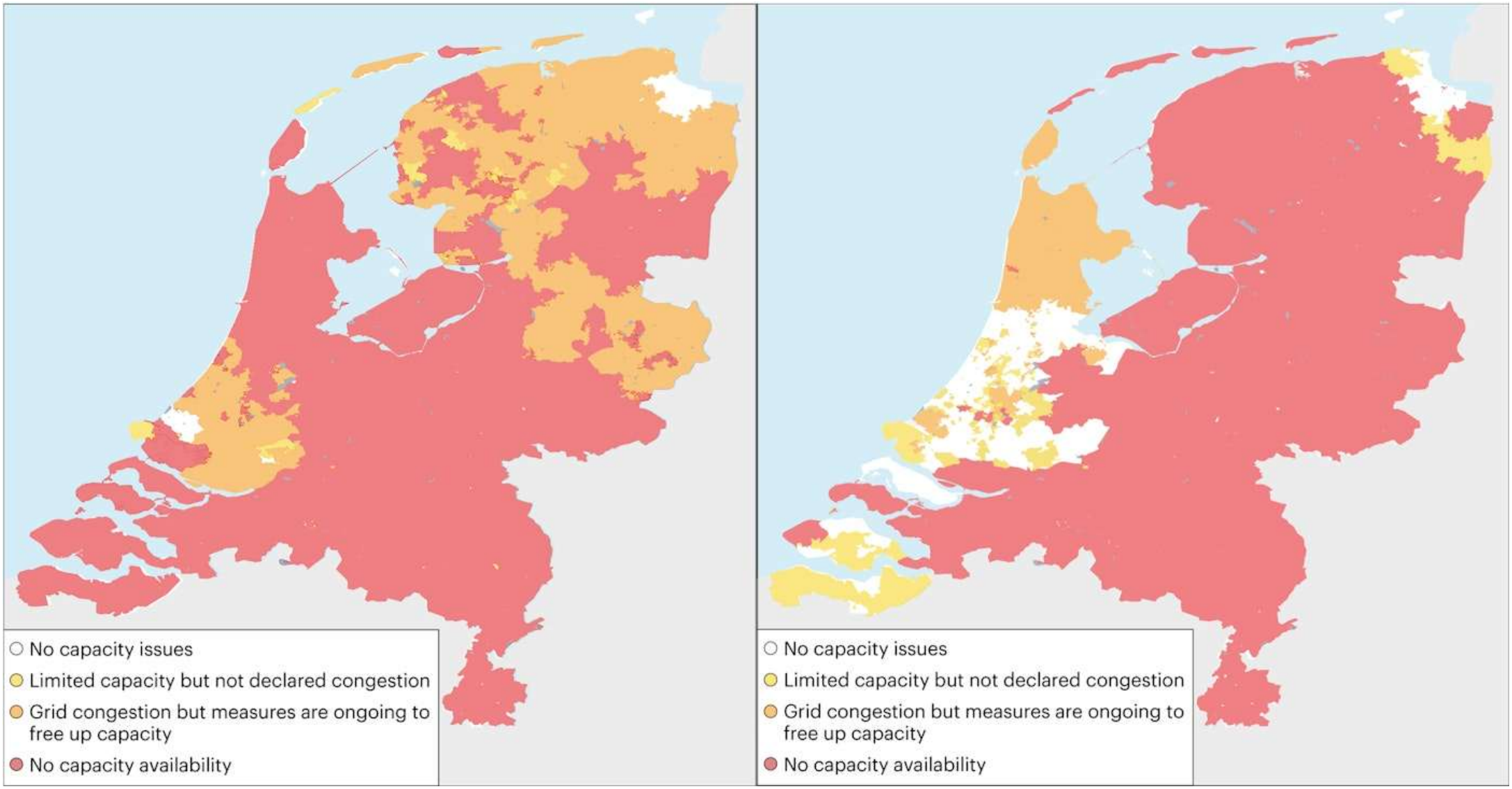
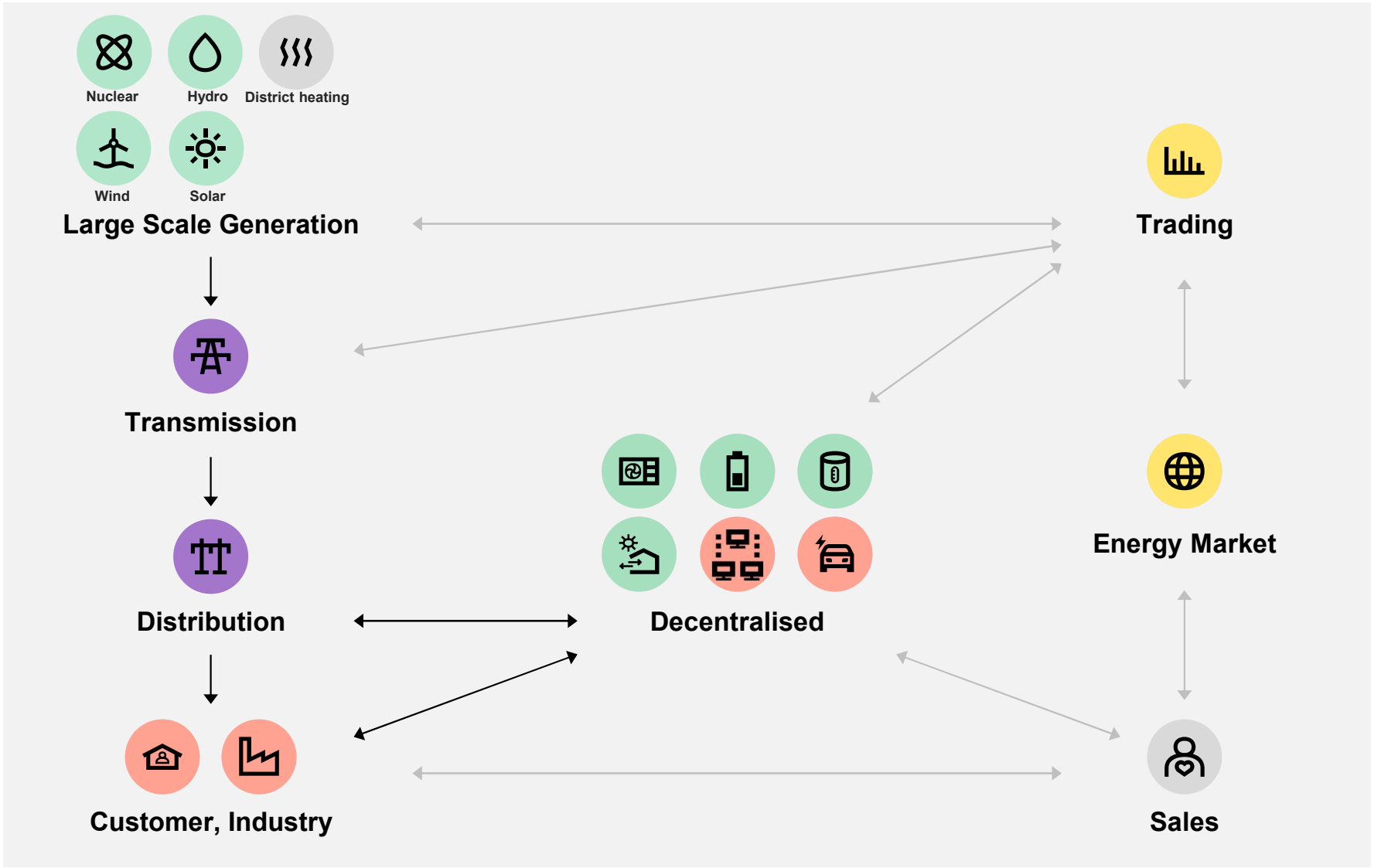
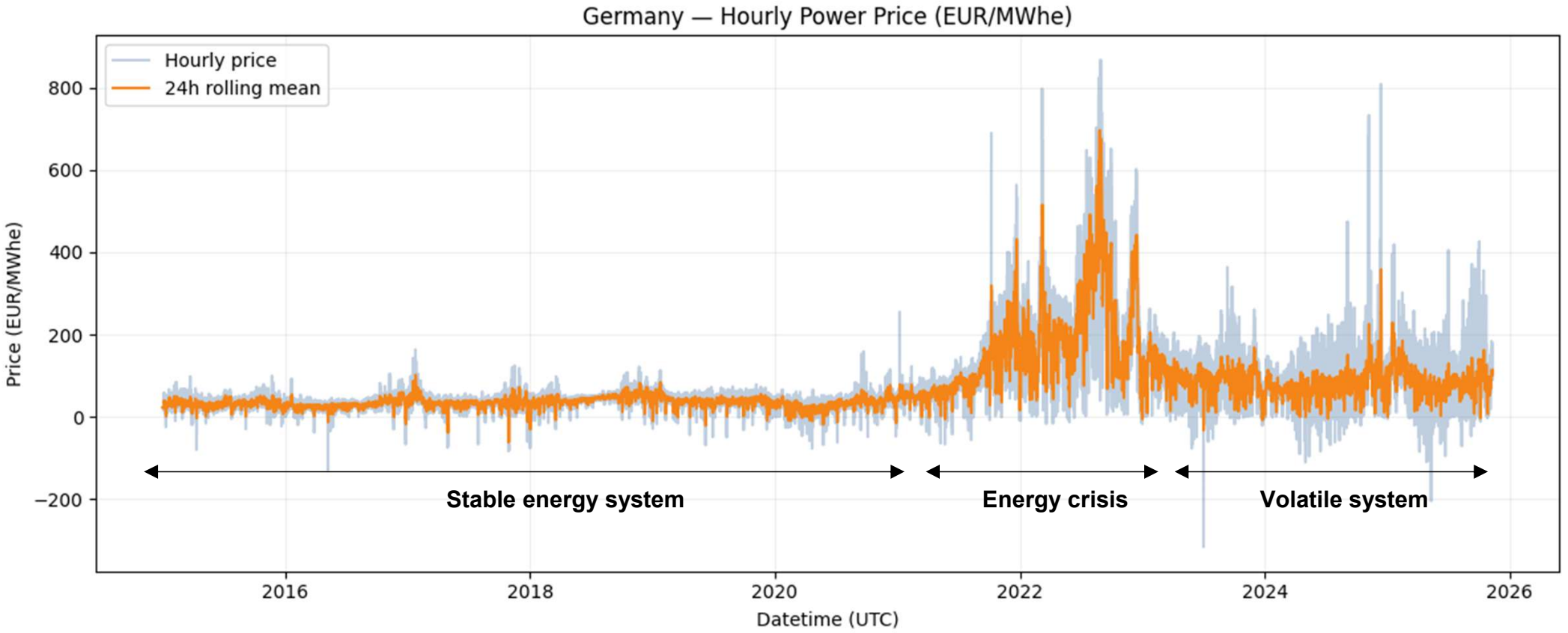




Source: IEA





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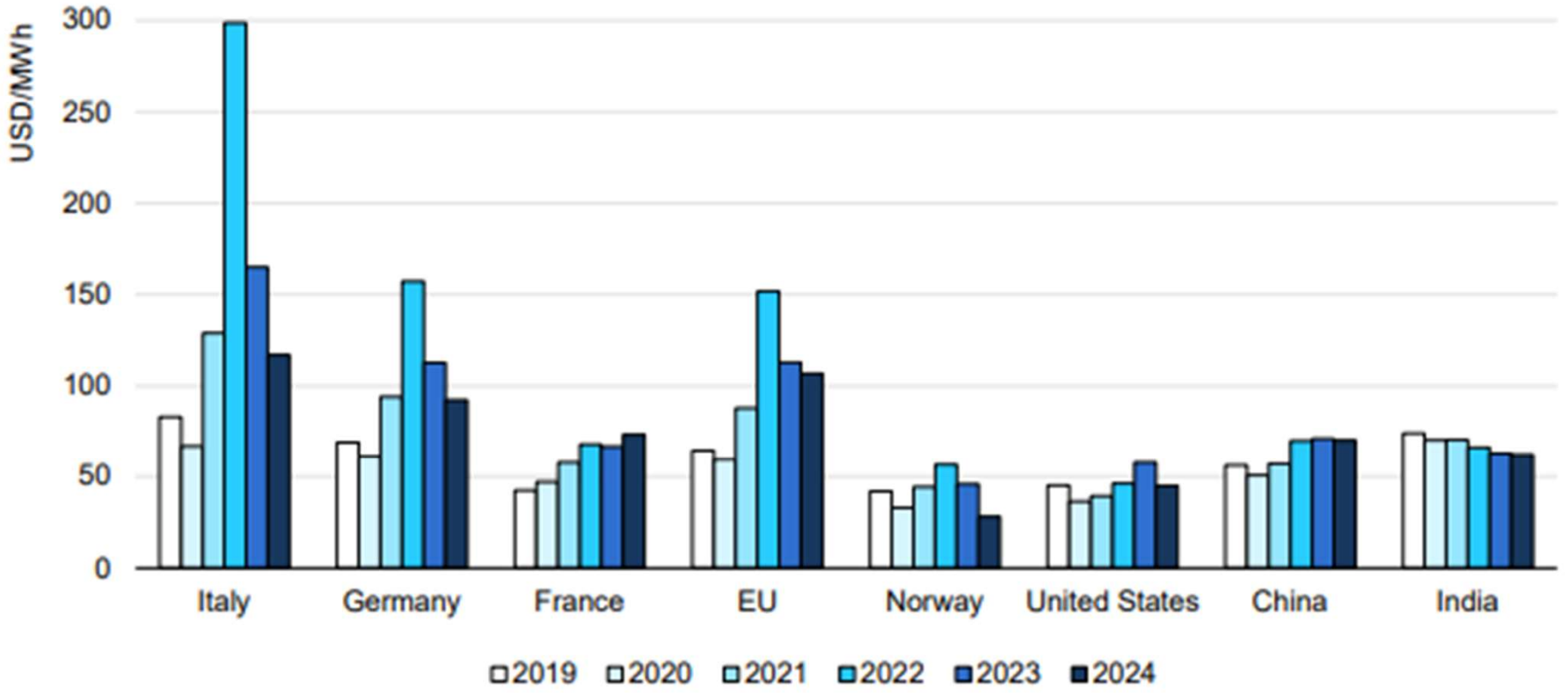
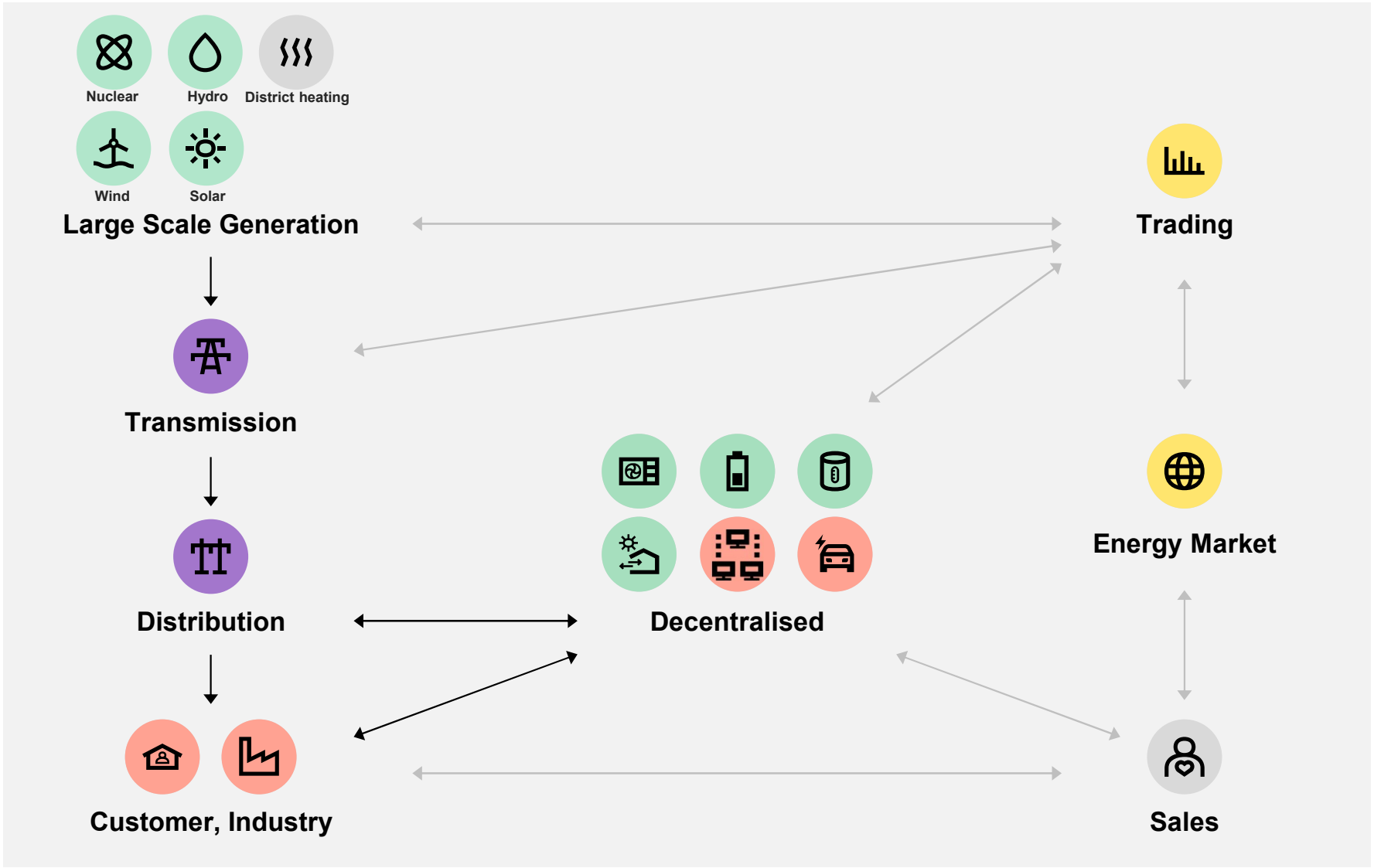
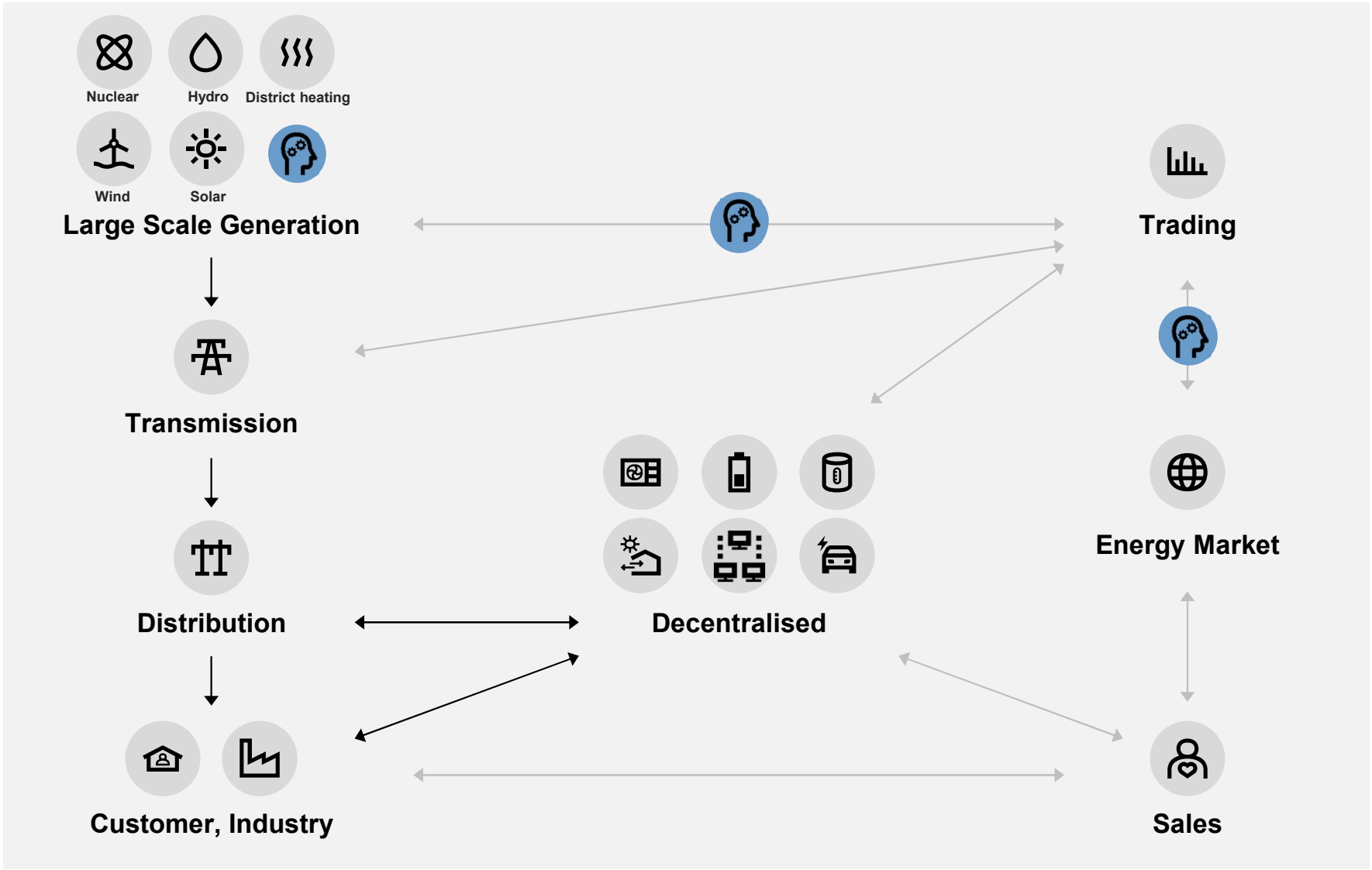
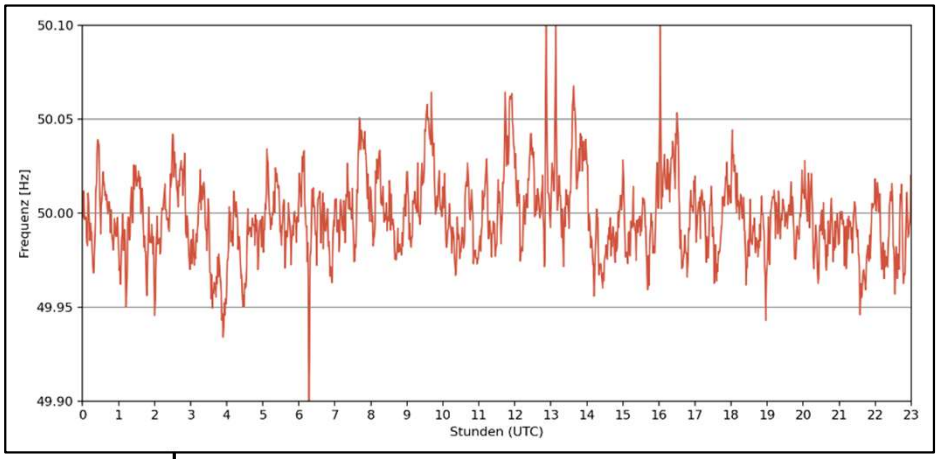
Data source: https://ember-energy.org/

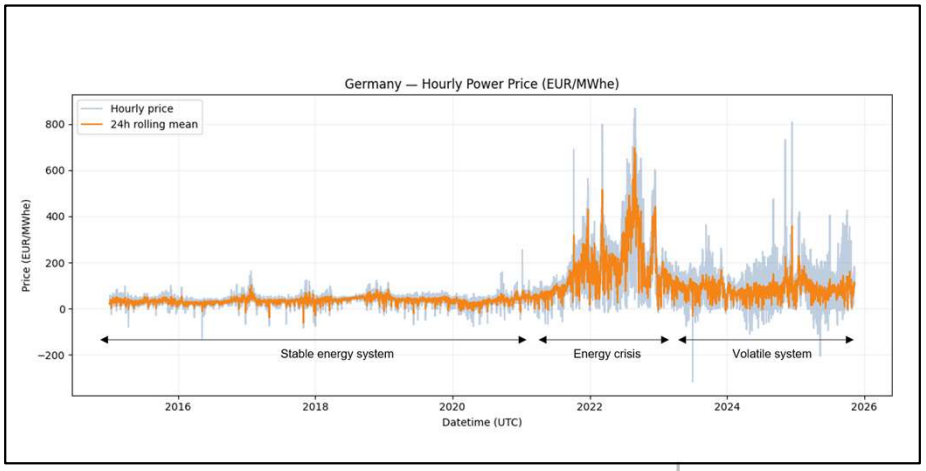
Estimated final electricity price for large industrial customers in energy-intensive industries, 2019-2024

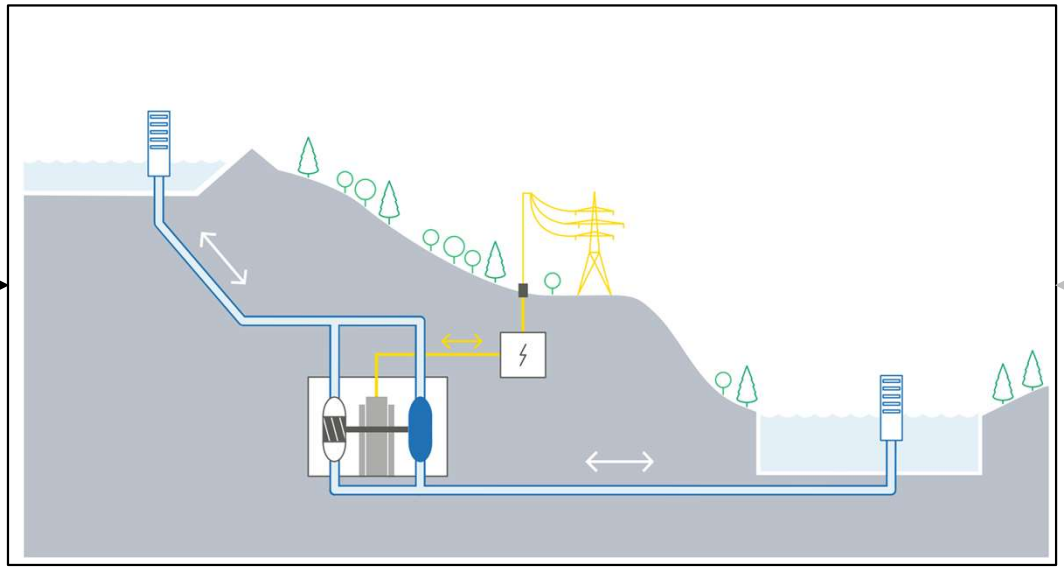












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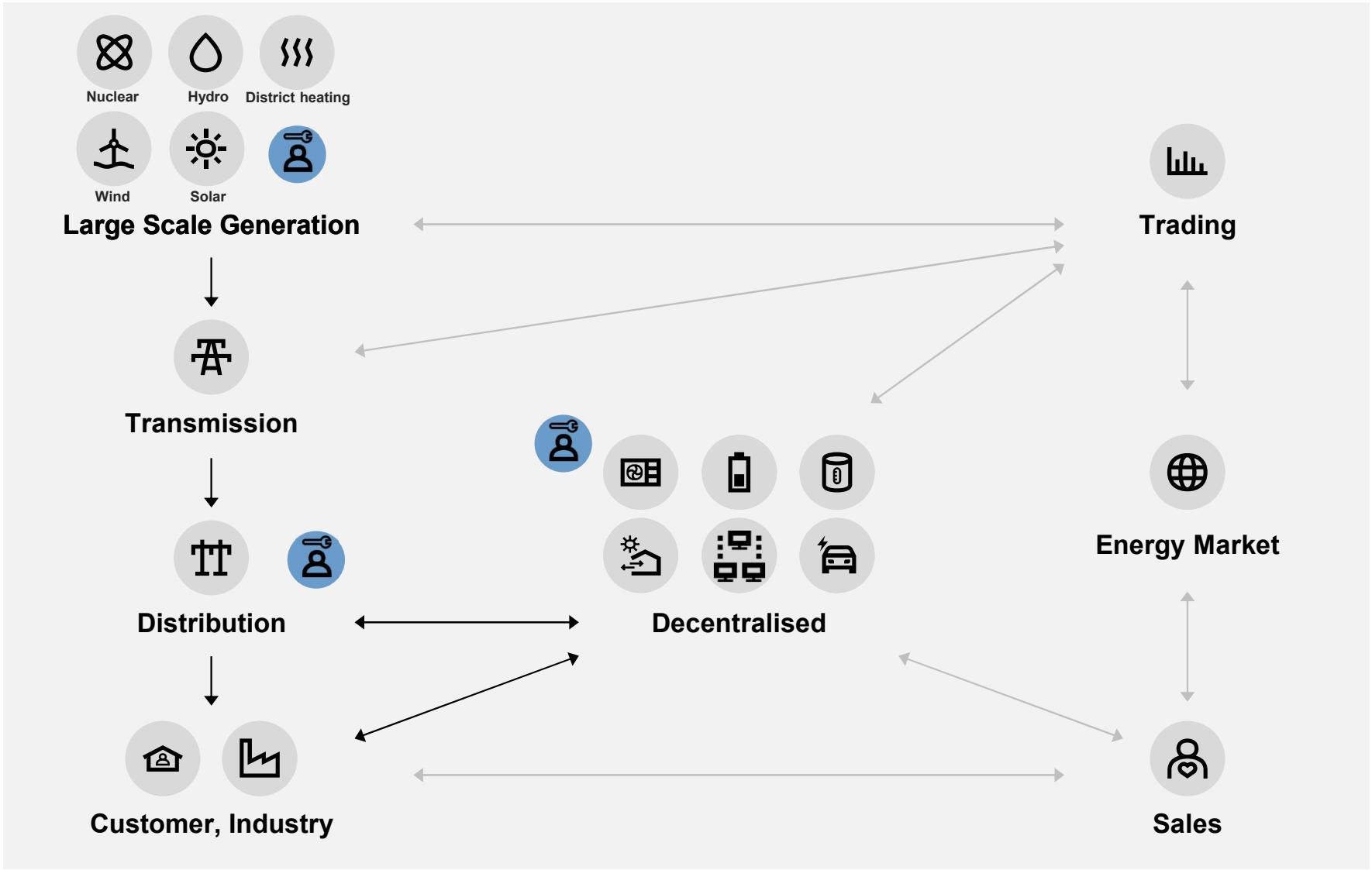


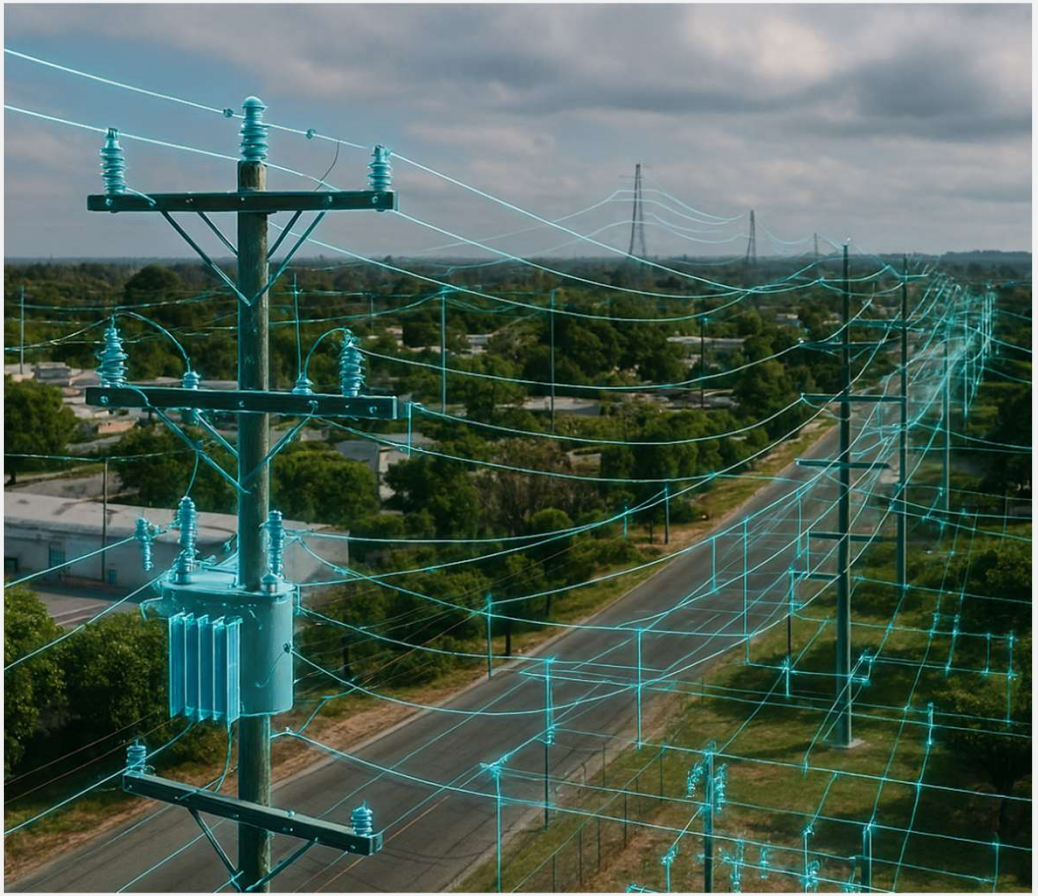
50 Hertz

Logical

Asset Develop, construction & maintenance

Reshape core business process incl.

- Predict states,
- Automation of processes
- Autonomous decision making

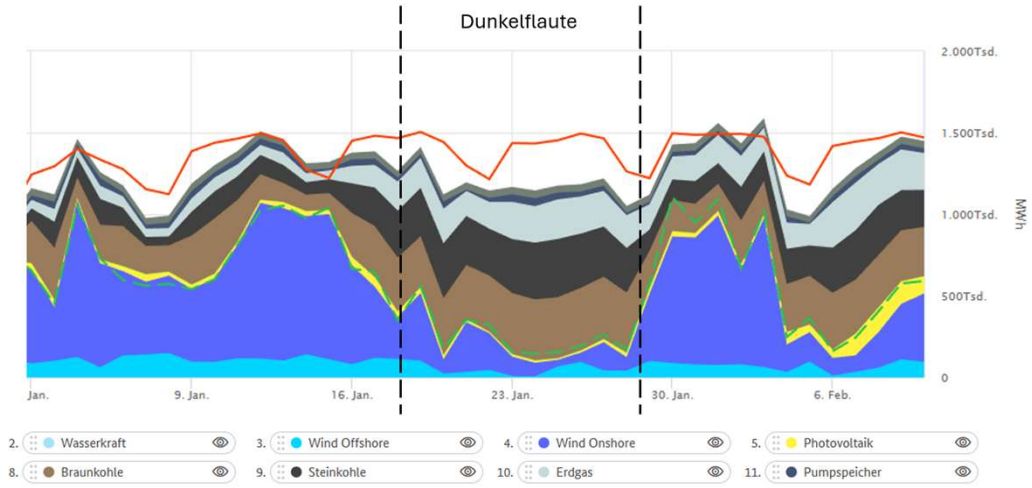


Pictures generated by AI

Nuclear
Hydro
District heating
Wind
Solar
Large Scale Generation

Produced MWh

Consumed MWh



Transmission

Distribution

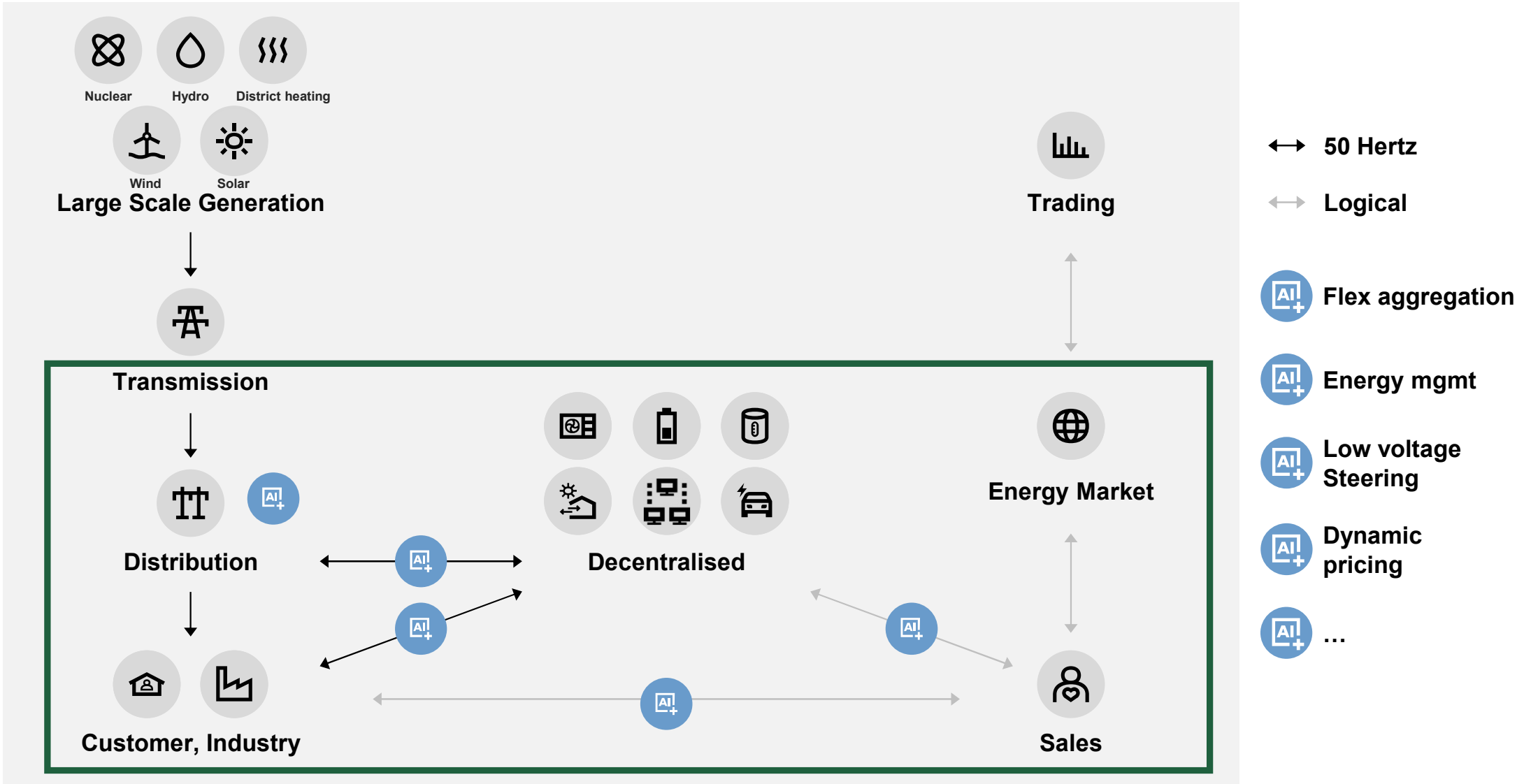
Customer, Industry

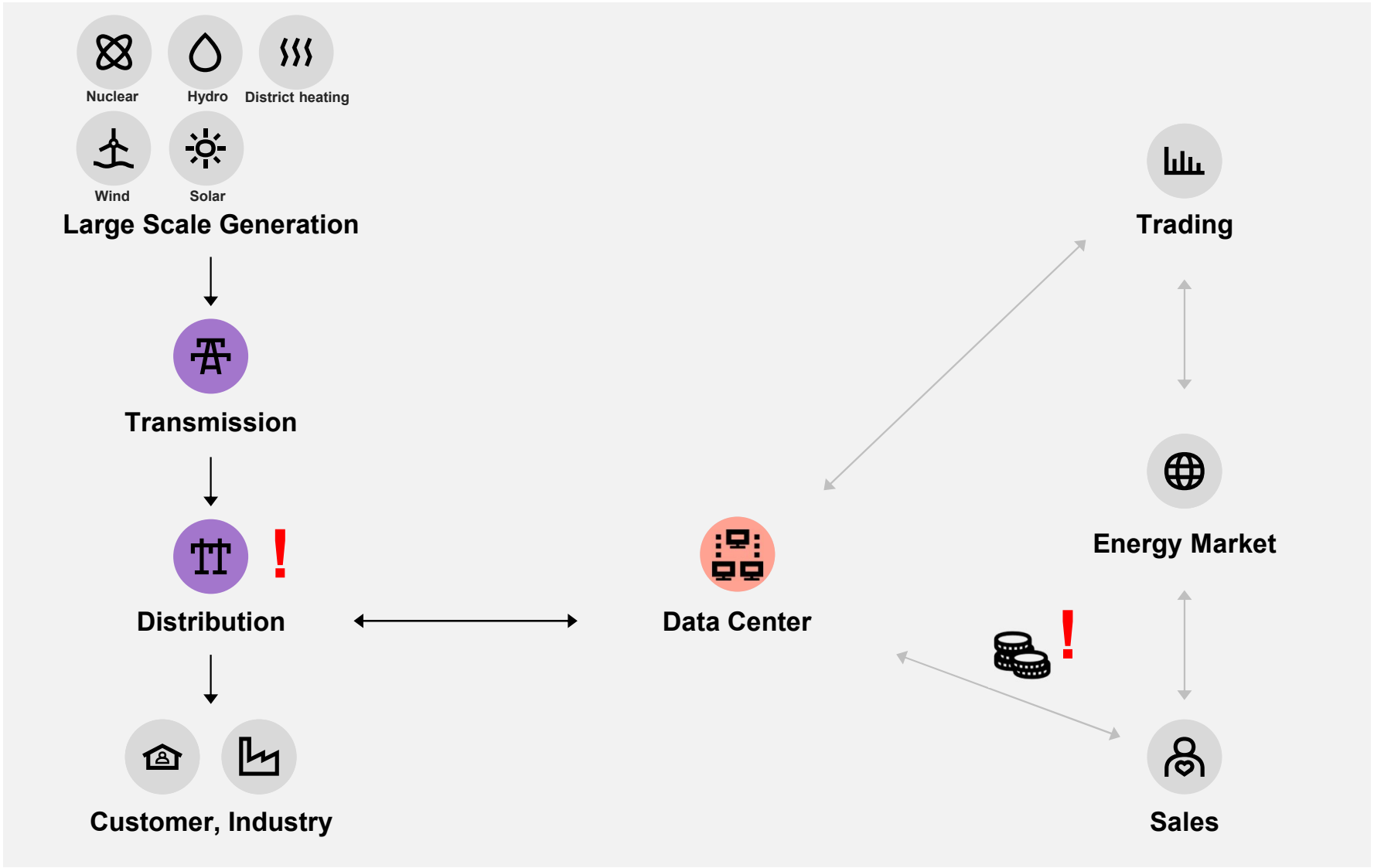
Decentralised

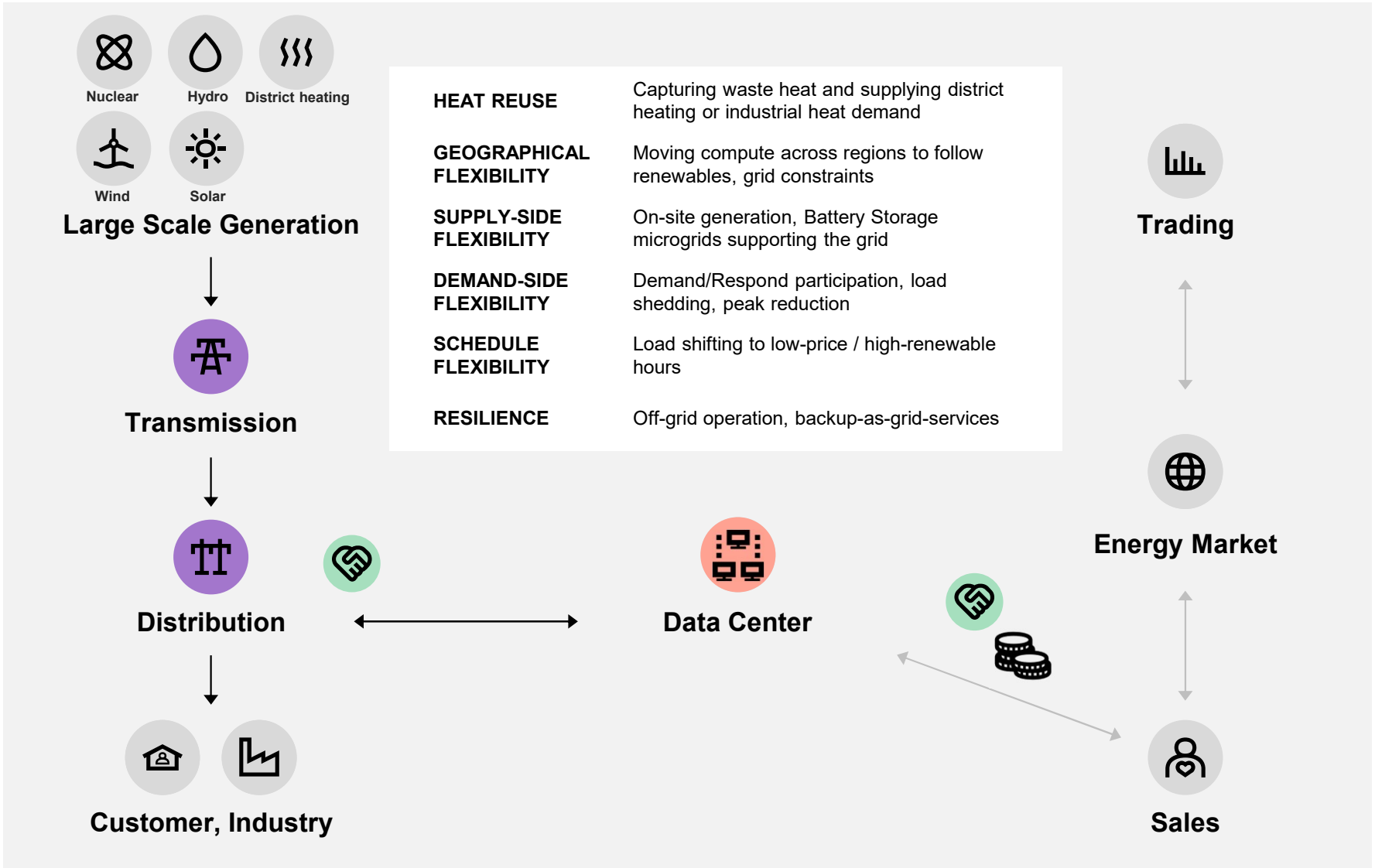
Energy Market

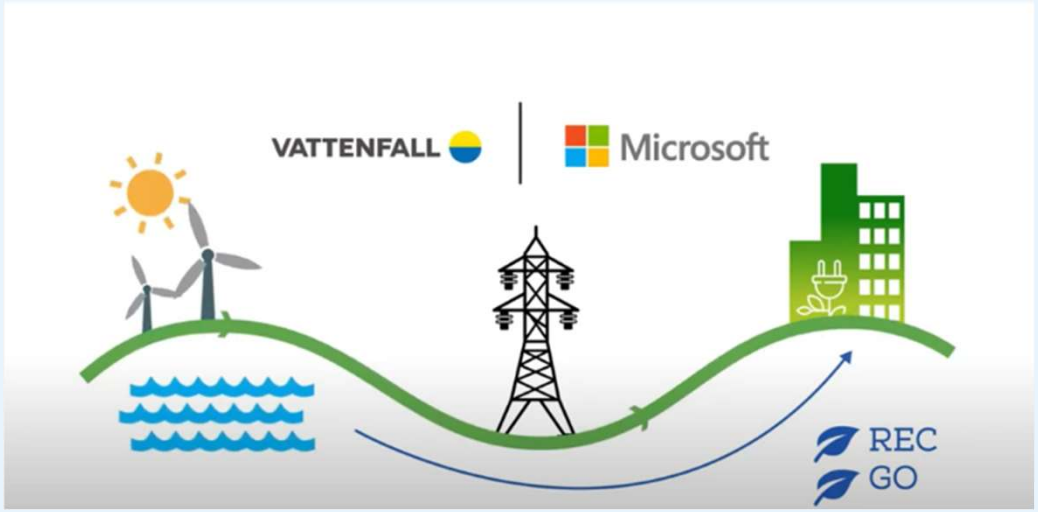
Sales

VATTENFALL









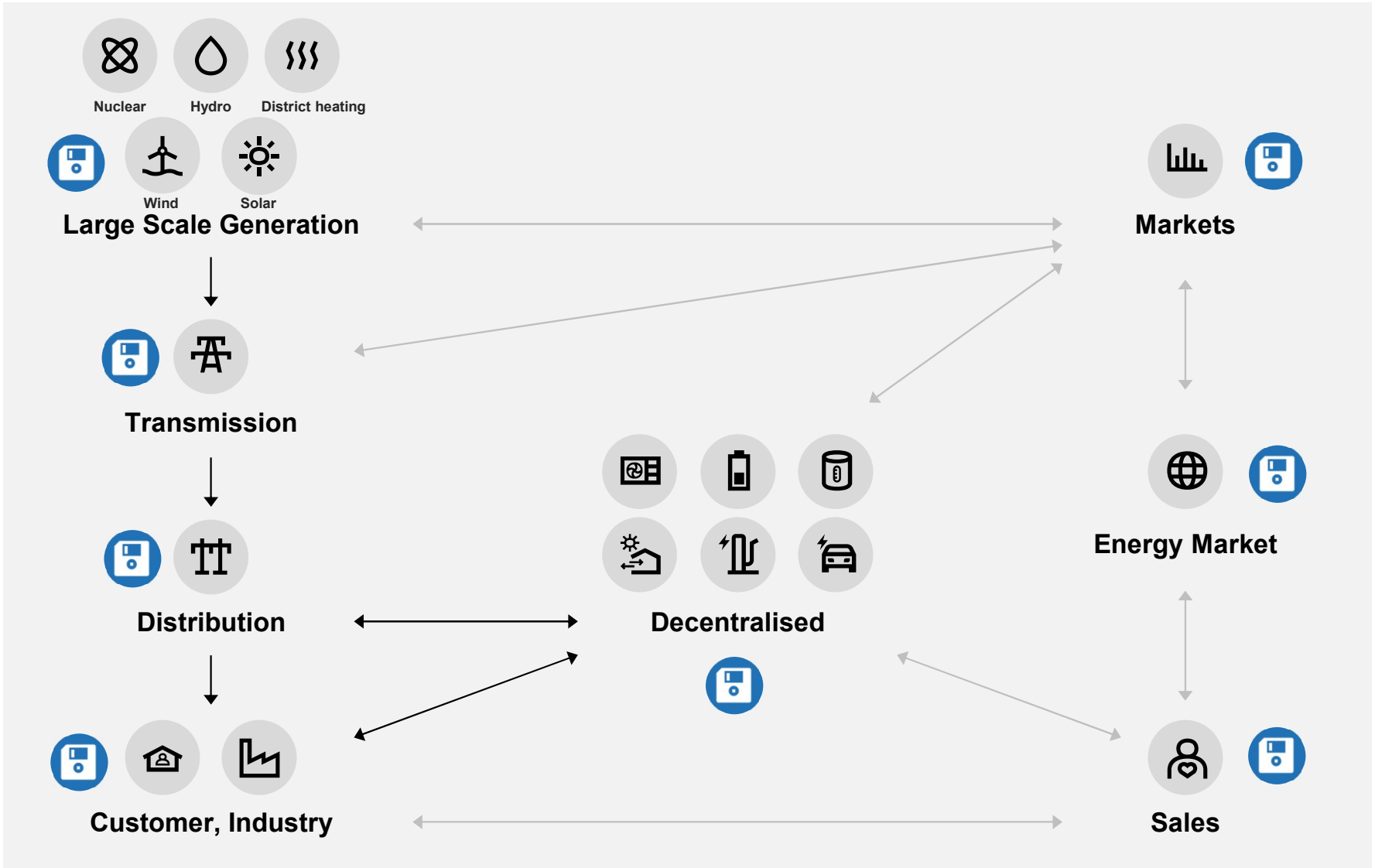
Achieving 100 percent renewable energy with 24/7 monitoring in Microsoft Sweden

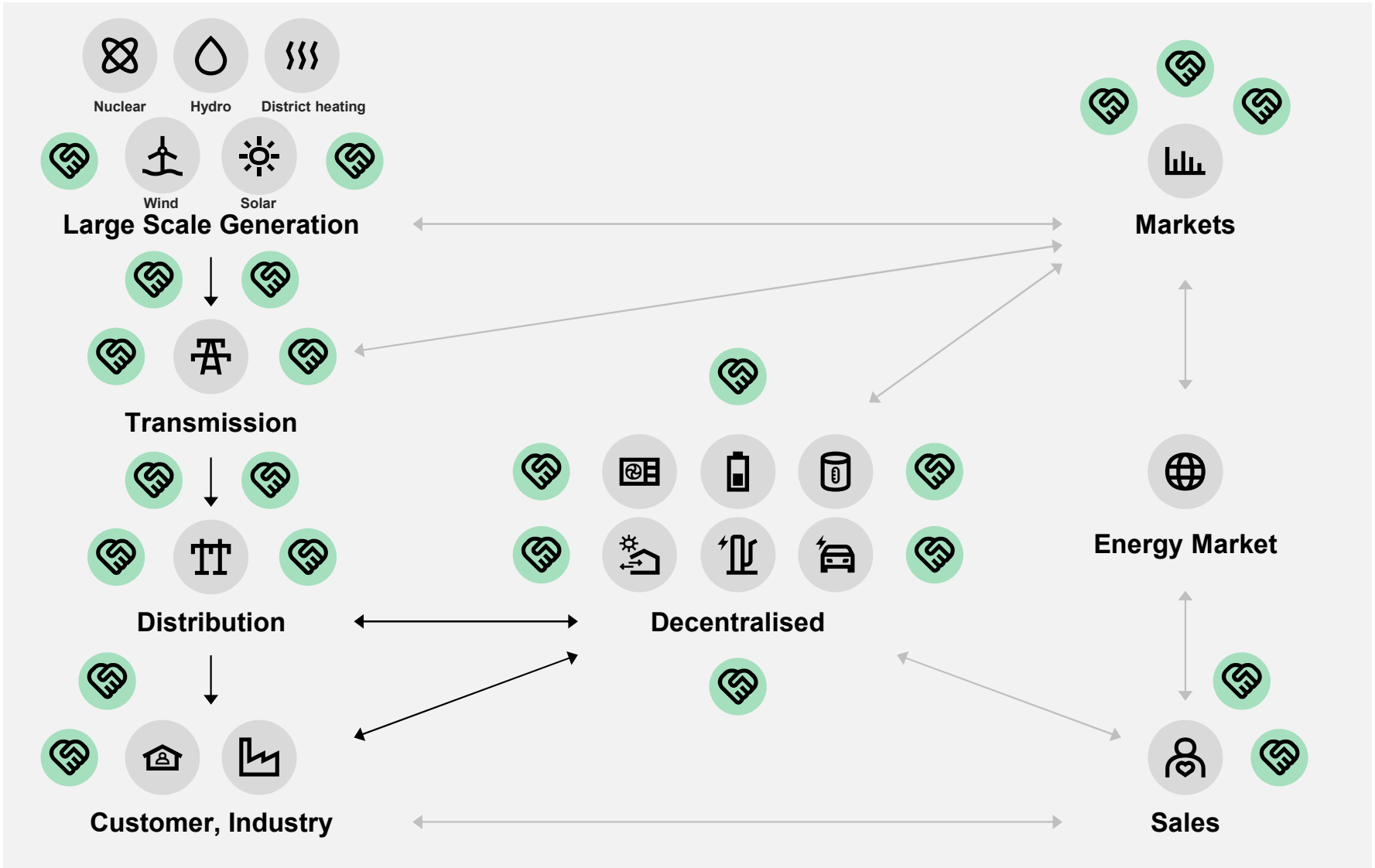
By Noelle Walsh-Elwell, President of Cloud Operations and Innovation, Microsoft

Earlier this year, we made a commitment to shift to 100 percent renewable energy supply in our buildings and datacenters by 2025. On this journey, we recognize that how we track our progress is just as important as how we get there.

Today, we are announcing that Microsoft will be the first hyperscale cloud provider to track hourly energy consumption and renewable energy matching in a commercial product using the Vattenfall 24/7 Matching solution for our new datacenter regions in Sweden, which will be available in 2021.

Vattenfall and Microsoft are also announcing that the 24/7 hourly matching solution—the first commercial product of its kind—is now generally available. Vattenfall is a leading European energy company with a strong commitment to make fossil-free living possible within one generation. The solution is built using Microsoft's Azure services, including Azure IoT Central and Microsoft Power BI.





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