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Future power system from a Transmission System Operator perspective

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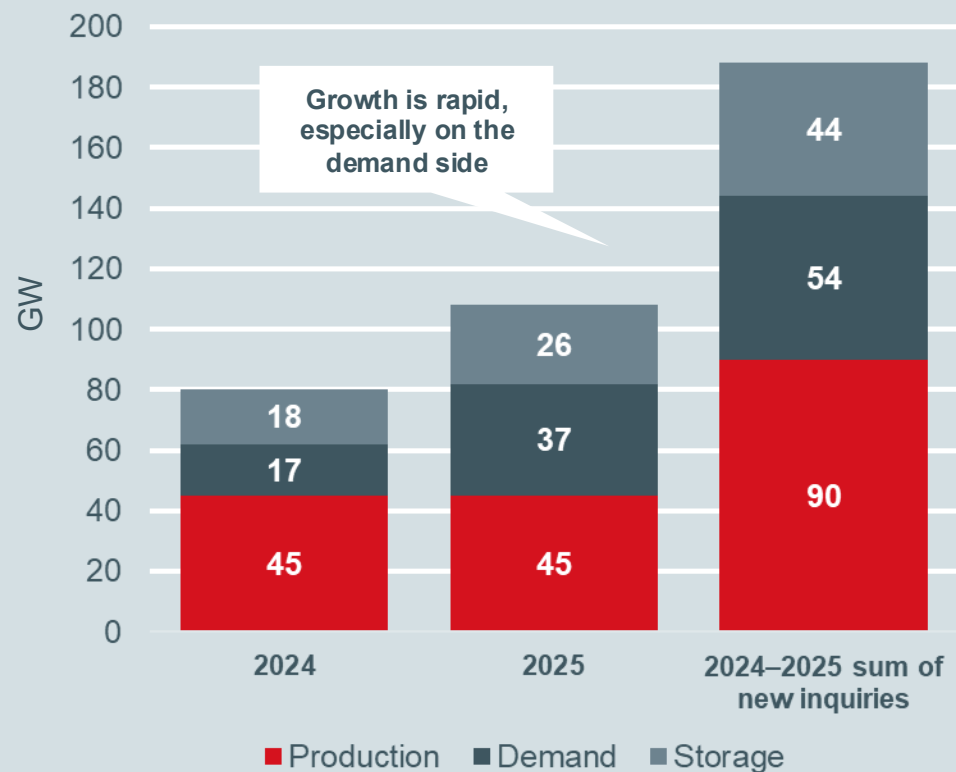
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Clean and affordable electricity attracts power-intensive investments

New connection inquiries to the main grid received during the year*



*Connection inquiries are not binding and are based on preliminary information of projects

■ The large number of connection inquiries reflects Finland's strong competitiveness for green transition investments

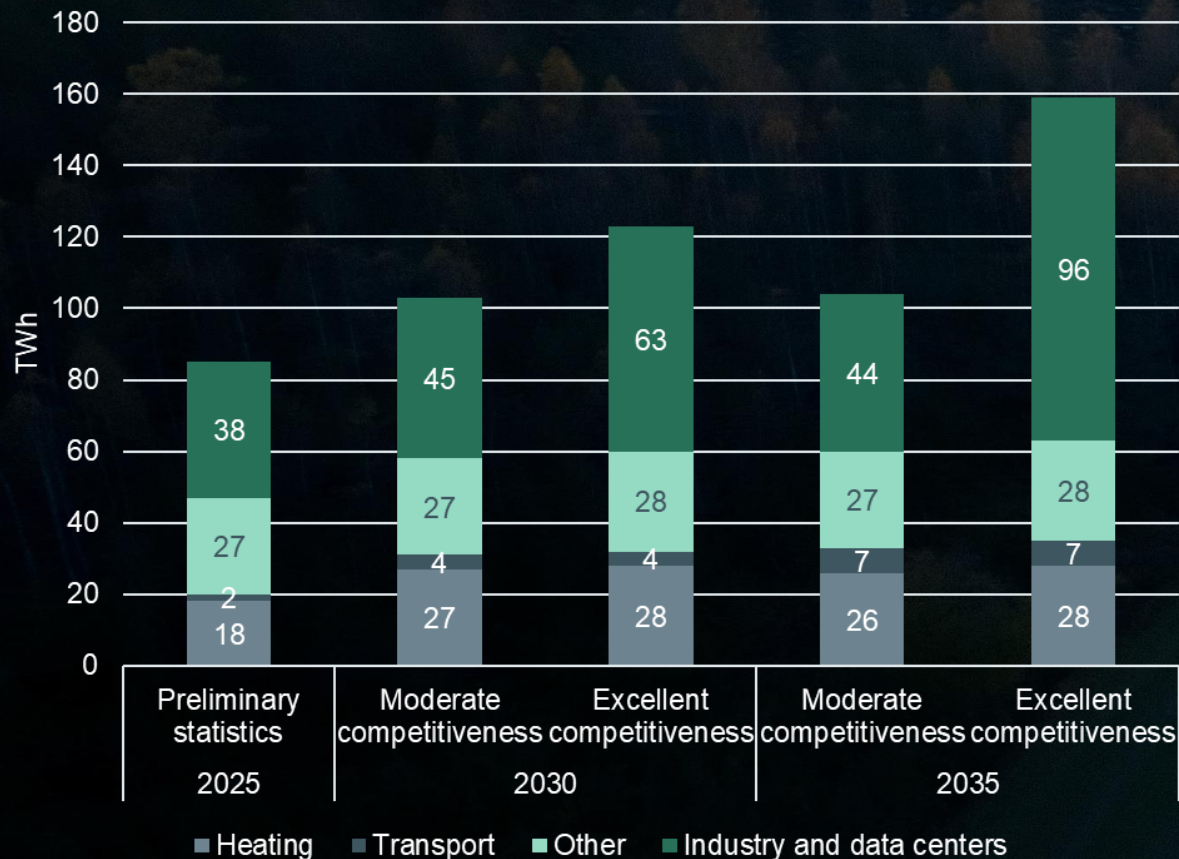
The cumulative volume of connection inquiries that increase electricity consumption capacity exceeds **100 GW**, of which more than half are related to data center projects.

Finland's electricity system peak demand is currently below **16 GW**, meaning that, relative to the size of the system, the volume of connection inquiries is many times larger.



Electricity demand growth depends on competitiveness

Consumption outlook (Q3/2025)*



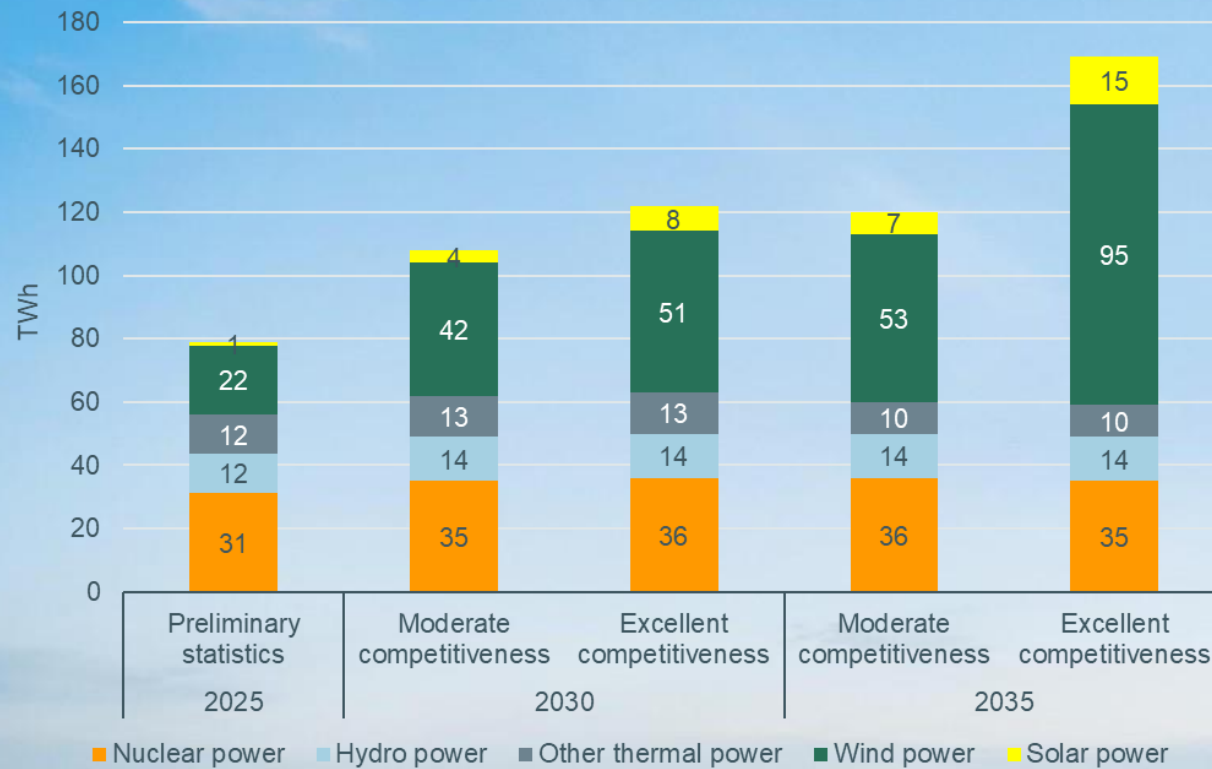
Finland's competitiveness as a destination for power-intensive investments determines growth

- Excellent competitiveness scenario: wide range of data center & industrial projects → basis for grid planning
- Requires ~15% of demand-side connection inquiries to materialize fully
- Moderate competitiveness scenario: only mature projects proceed → demand stabilizes at ~100 TWh

* Prospects for future electricity production and consumption Q3/2025.
https://www.fingrid.fi/globalassets/dokumentit/fi/kantaverkko/kantaverkon-kehittaminen/fingrid_energiaennuste-q3-2025-eng.pdf

Clean and affordable electricity is the cornerstone of competitiveness

Production outlook (Q3/2025)*



- Production growth based on **competitive renewables**
- This triggers power system transformation:
 - More weather-dependent
 - Increasingly converter-dominated
 - Requires storage, demand-side response and flexible capacity
- Finland needs new production that is truly competitive – not models where technology-specific costs are subsidized by electricity consumers and other grid users

* Prospects for future electricity production and consumption Q3/2025. https://www.fingrid.fi/globalassets/dokumentit/fi/kantaverkko/kantaverkon-kehittaminen/fingrid_energiaennuste-q3-2025-eng.pdf

Clean, secure and competitive power system requires determined action

Invest €5.2 billion
in the main grid
over the next
decade

Bring production
and consumption
closer together

Strengthen
resilience and
preparedness

Accelerate
permitting of grid
investments

Safeguard
electricity
adequacy and
flexibility

Fingrid's recently released action plan* details these proposals – and more

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*https://www.fingrid.fi/contentassets/3067dada765b45dba6f42687146baf98/fingrid_toimenpidesuunnitelma_vaaka.pdf

Summary

- Clean and affordable electricity is Finland's major competitive advantage
- Finland's ability to stay competitive will determine how large share of the power-intensive investments will materialize
- Clean, secure and competitive power system requires determined action



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