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Trends in Finnish Renewables

Opportunities in wind, solar, BESS, hydrogen, and beyond

Pinja Borenius

Windenergietage, 13th of November 2025

International Markets Forum by GEO-NET

Renewable Energy

- Acquisition, development, and operation
- Project agreements
- Project financing

Environment and Permitting

- Regulatory aspects of energy, construction, and infrastructure projects
- Planning law and permitting
- Environmental compliance

Bidding and Contracting

- Contract drafting and negotiating for projects and supply chains
- Bidder advisory in public procurement
- Post-award appeal procedures

Construction, Engineering, Infrastructure

- Civil engineering projects
- Industrial plant construction
- Partners of the project management from procurement to completion

Real Estate and M&A

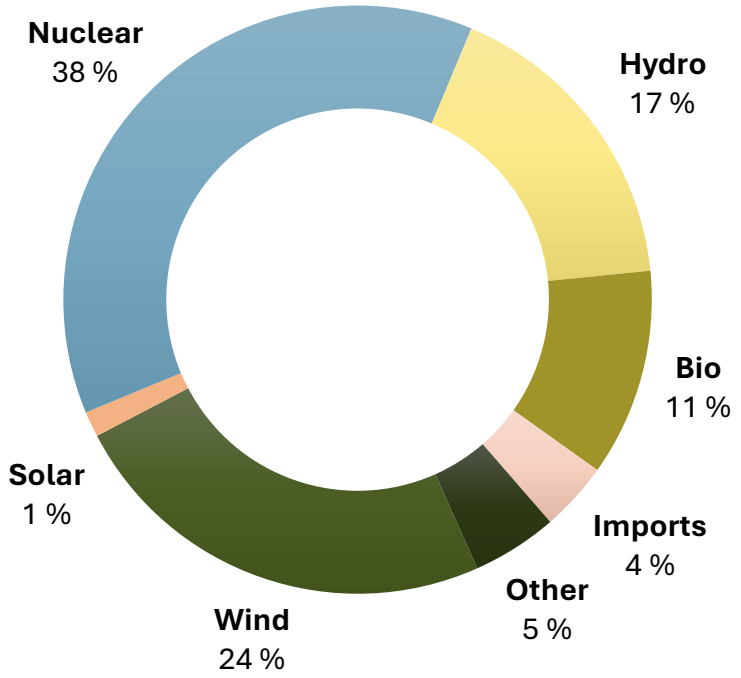
- Transaction advisory with industrial focus
- Commercial feasibility, bankability, and risk control
- Financial arrangements

Dispute Resolution

- Change management and dispute avoidance
- Litigation and arbitration
- Special focus on disputes relating to complex projects and transactions

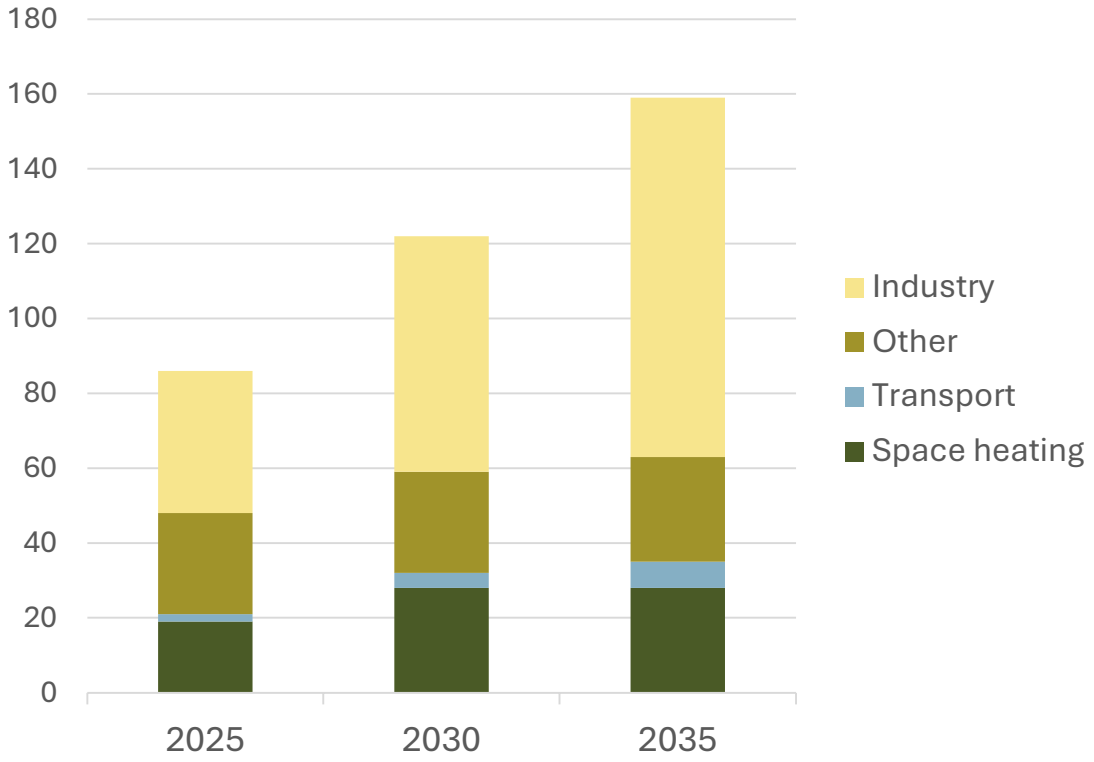
Finnish Energy Sector

Electricity Production by Source



Source: Statistics Finland, 2025

Electricity Consumption by Sector (TWh)



Source: Fingrid Oyj, 2025

Finnish Context

Arctic Conditions

Northerns projects **coexist with arctic specifics** like reindeer herding, icing, and snow loads.

Reliable Grid

The high-performing transmission infrastructure is **developed constantly** to meet future demand.

Maritime Infrastructure

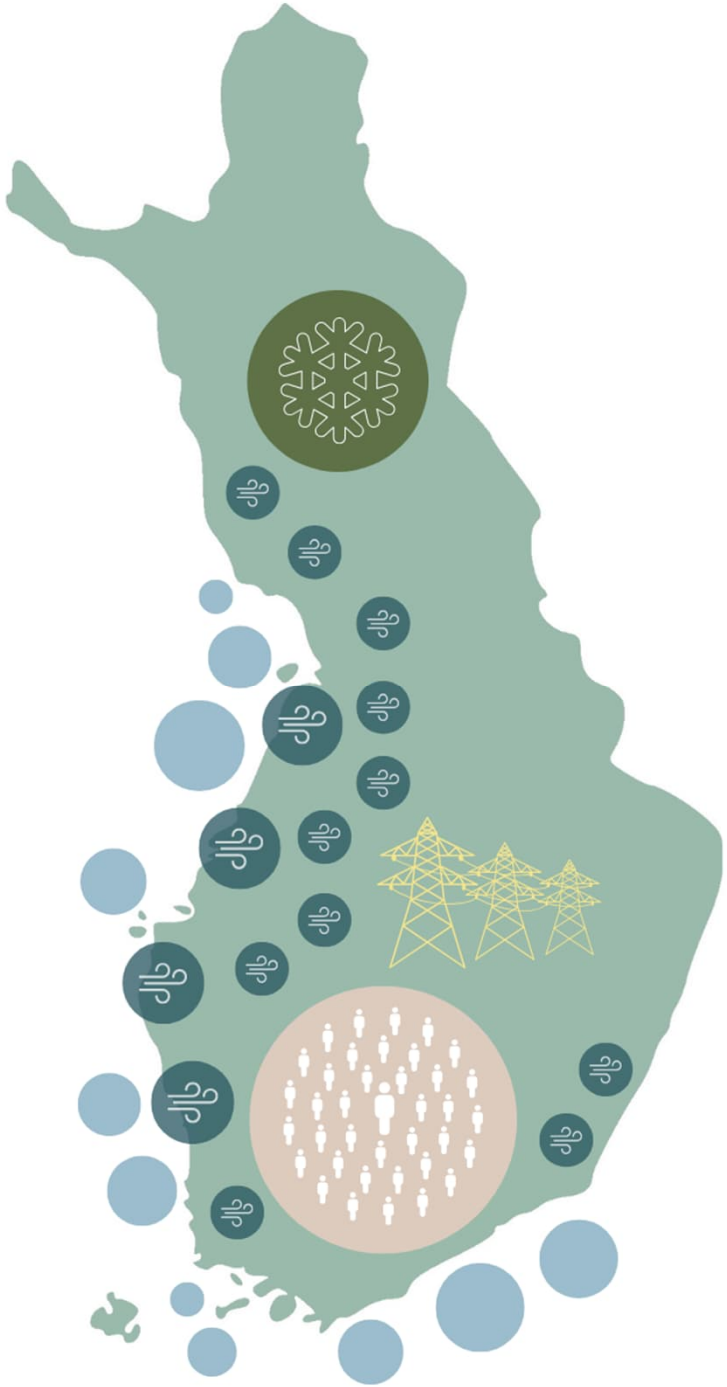
A well-developed network of ports facilitates **maritime transport** and **offshore activities**.

Wind Conditions

Climate and geography foster excellent winds, especially along the **coast** and during **winter**.

Low Population Density

50 percent of the **5.5 Mio residents** live in the very south of the county.

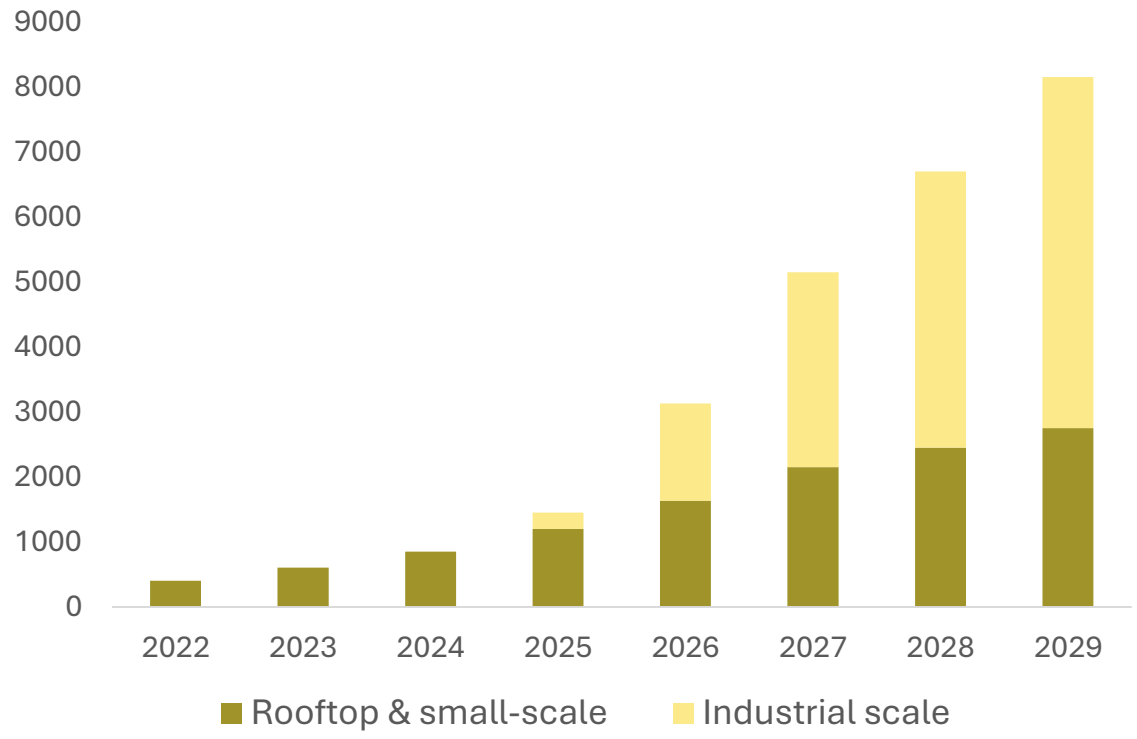


Onshore Wind

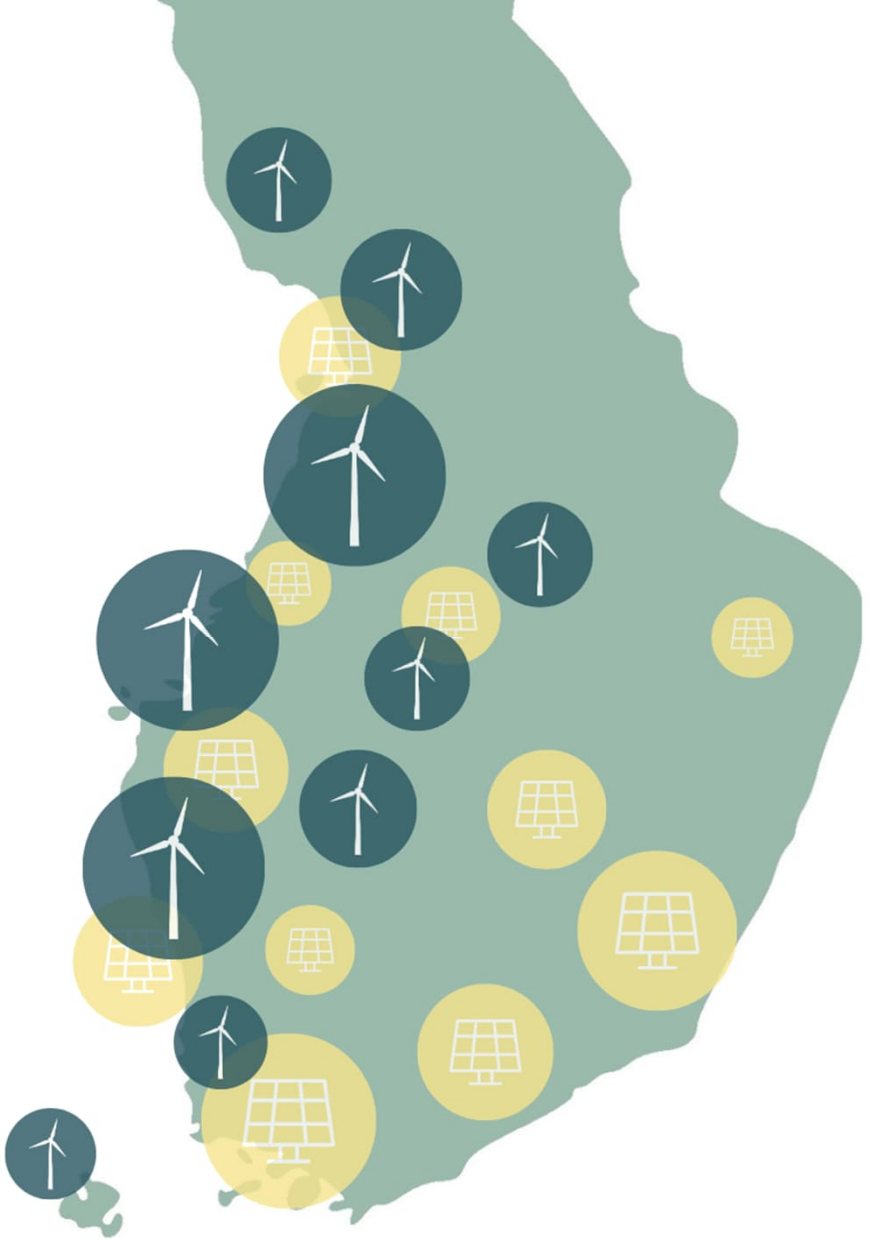
- Cumulative capacity over 9 GW, pipeline around 60 GW
- Debated legislative proposals on distancing rules and dismantling
- Real estate taxation reform on the horizon
- Hybrid projects trending, upgrade to grid arrangements

Solar

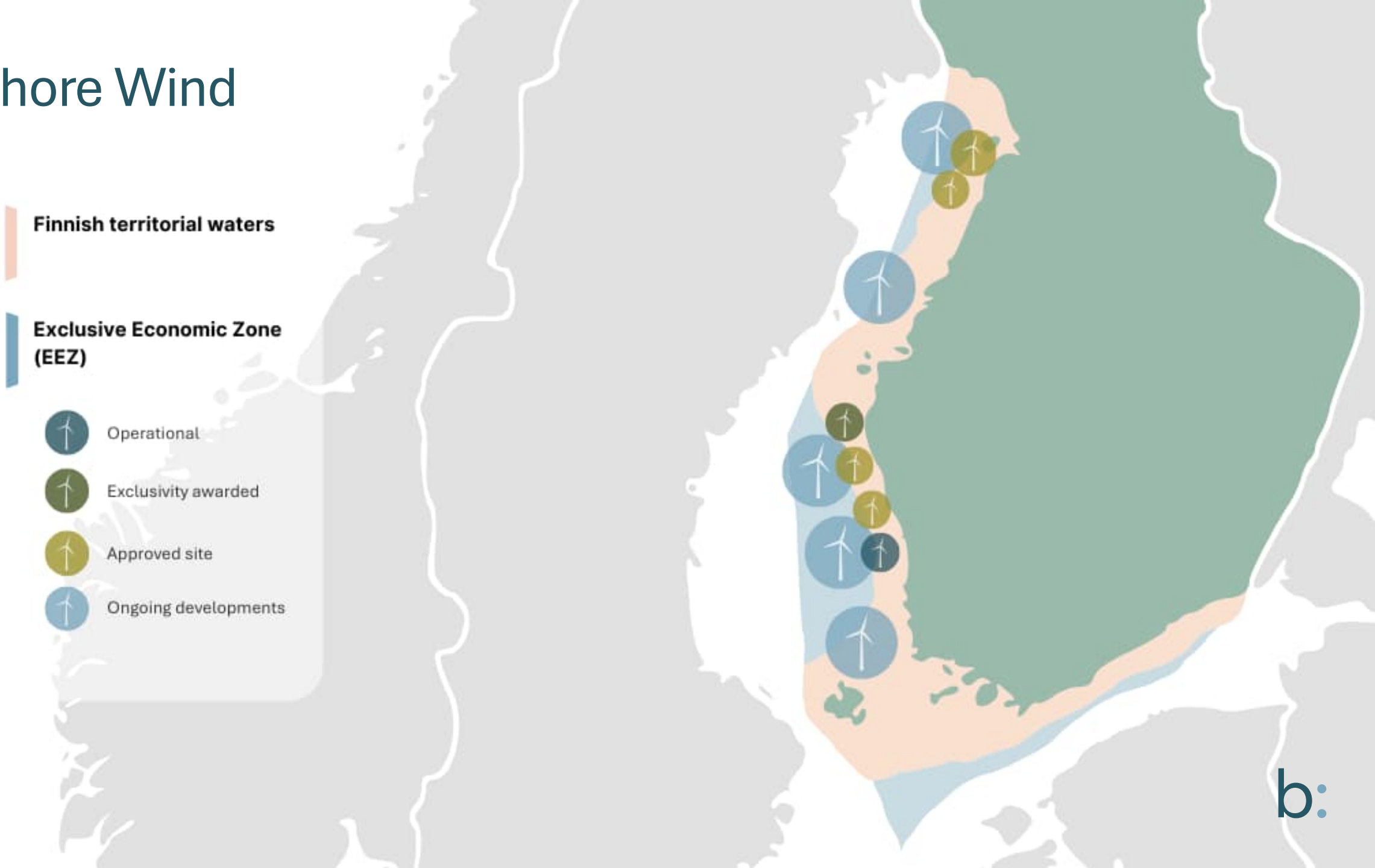
Projected Solar Capacity (MW)



Source: Fingrid Oyj, 2024



Offshore Wind



Outlook

Source: Fingrid Oyj, 2025

Consumption

Data Centers

FIDs 12000 MEUR

Under development >50 projects

Microsoft, Vihti
1900 MEUR
265 MW
COD 2027

AmpTank, Utajärvi
700 MEUR
100 MW
COD 2027

Google, Hamina
1000 MEUR
N/A MW
COD 2025

Hyperco, Kouvola
1000 MEUR
263 MW
COD 2026

Hydrogen

P2X Solutions, Harjavalta
Green H_2 production plant
70 MEUR
COD 2025

Batteries

Keliber, Kokkola
Lithium refinery
783 MEUR
COD 2026

Bioproducts

Kemira & IFF, Kotka
Bioproduct plant
130 MEUR
COD 2027

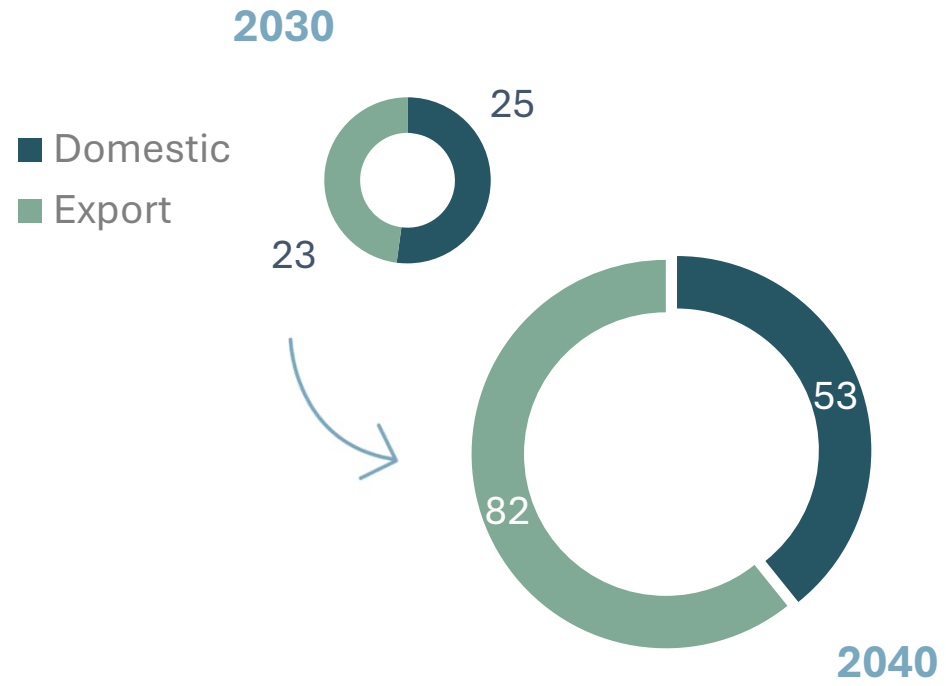
Industrial Plants

Fazer, Lahti
Chocolate factory
400 MEUR
COD 2028

Source: Confederation of Finnish Industries 2025, Yle 2025

Hydrogen and Power-to-X

Projected Clean Hydrogen Potential (TWh)



Source: Fingrid Oyj, Gasgrid Finland Oy, 2024

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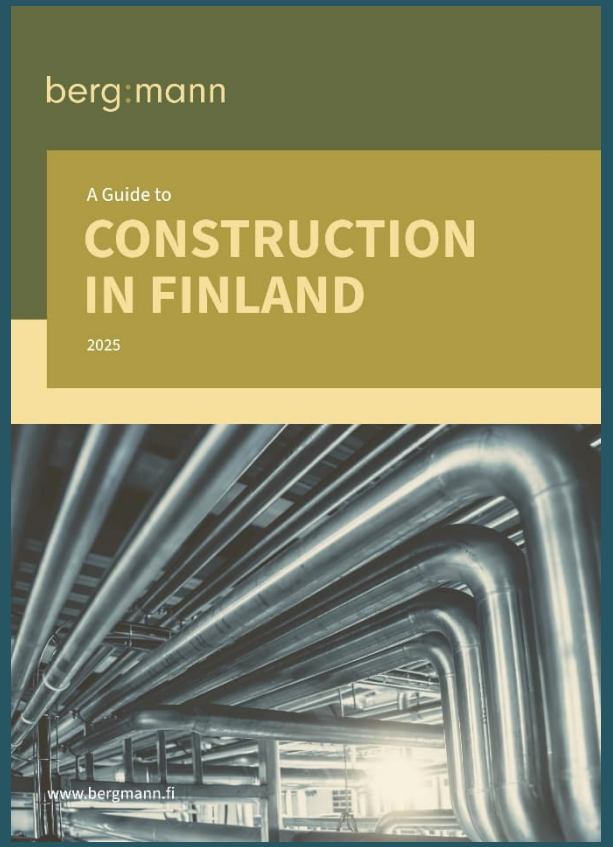

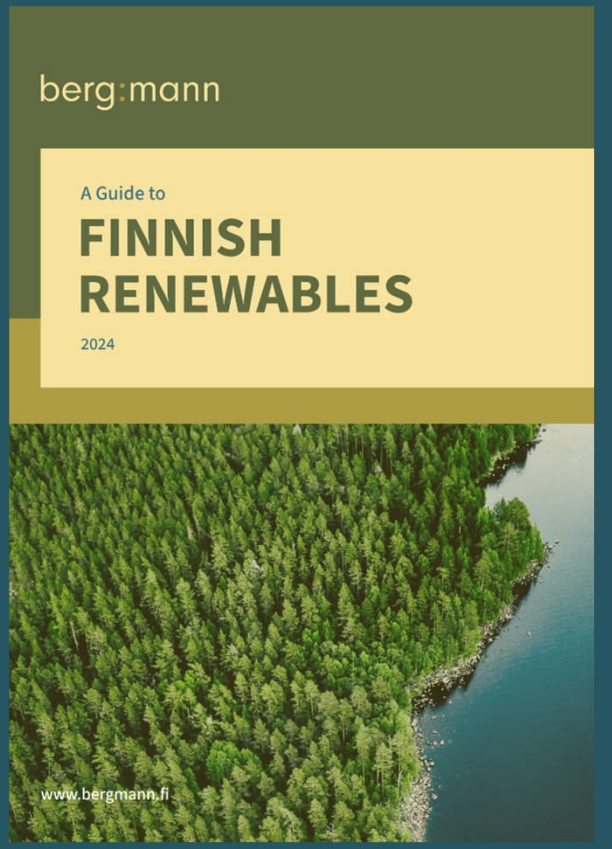

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