

An overview of Finnish wind power

A wide-angle landscape photograph showing a vast, snow-covered forest of evergreen trees under a soft, golden sunset sky. The sun is low on the horizon, creating a warm glow and long shadows. Several wind turbines are visible: one on the left, one in the center distance, and a large one on the right side of the frame. The overall mood is serene and majestic.

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Kimmo Kyrölä, advocacy manager,
kimmo.kyrola@fwpa.fi

Kuva: Santeri
Keränen



Anni Mikkonen
CEO



Heidi Paalatie
Director of Operations



Matias Ollila
Director of Advocacy



Kimmo Kyrölä
Advocacy Manager



Veera Villikari
Advocacy Manager



Anna Tiihonen
Communications Manager



Johanna Sula
PR Manager



Marianna Ahonen
Communications Specialist



Anne Heinonen
Member Services and
Event Manager



Aino Herranen
Association Manager



Johanna Kalho
Association Coordinator



Maria Vallanen
Office Assistant

- Valued industry association for wind and large scale solar power,
- Established in 1988
- Over 230 company members, app. 160 private members
- Wide range of companies related to wind and solar power field
- 12-13 employees
- HQ in Jyväskylä, office in Helsinki
- Spreads the word about the wind and solar power, active participant in public discussion, publishes industry magazine, organizes seminars and courses

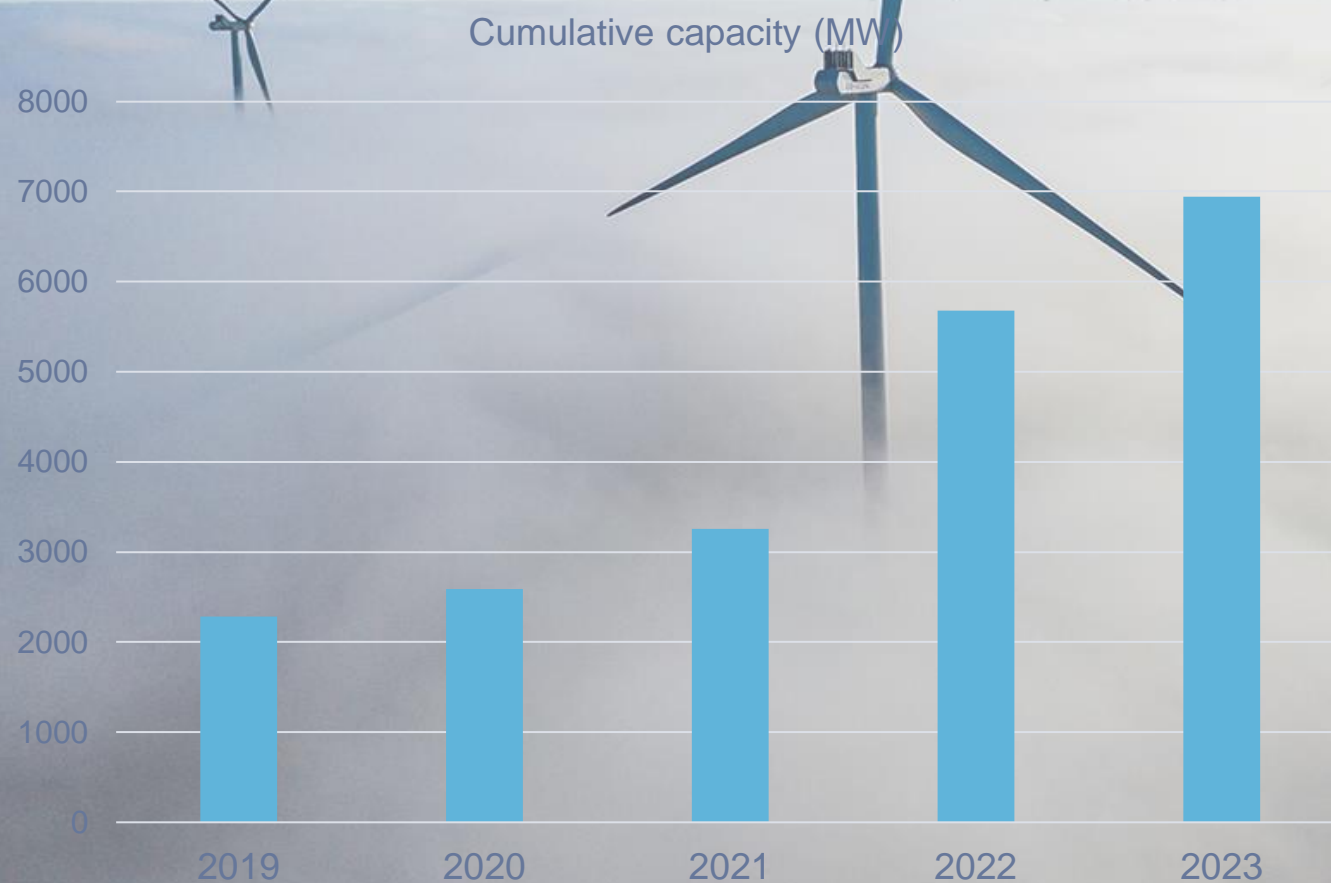
Expansion of the association

- The association's scope expands to include solar power advocacy
- Name and brand will change
- More staff recruited for the association
 - The events team and the communications team have already been strengthened
 - Recruitment for the advocacy team is underway
- During winter 2023-24 we had discussions with the members and solar operators
- 18.4.2024 Annual meeting of FWPA
 - Decided to adopt new statutes and name
- Now we can accept solar companies as members.
- Board elections at the special meeting 18.6.2024
- 1.1.2025 the expanded association is the full advocate of solar power

A full-page photograph of a wind turbine. A person in a dark uniform and helmet stands on the central hub of the turbine, positioned between two large, white, curved blades that extend towards the top corners of the frame. The background shows a clear blue sky with a bright lens flare in the upper right, and a distant landscape with green fields, a body of water, and other wind turbines under a hazy horizon.

What happened in 2023?

2/2024: capacity over 7 GW



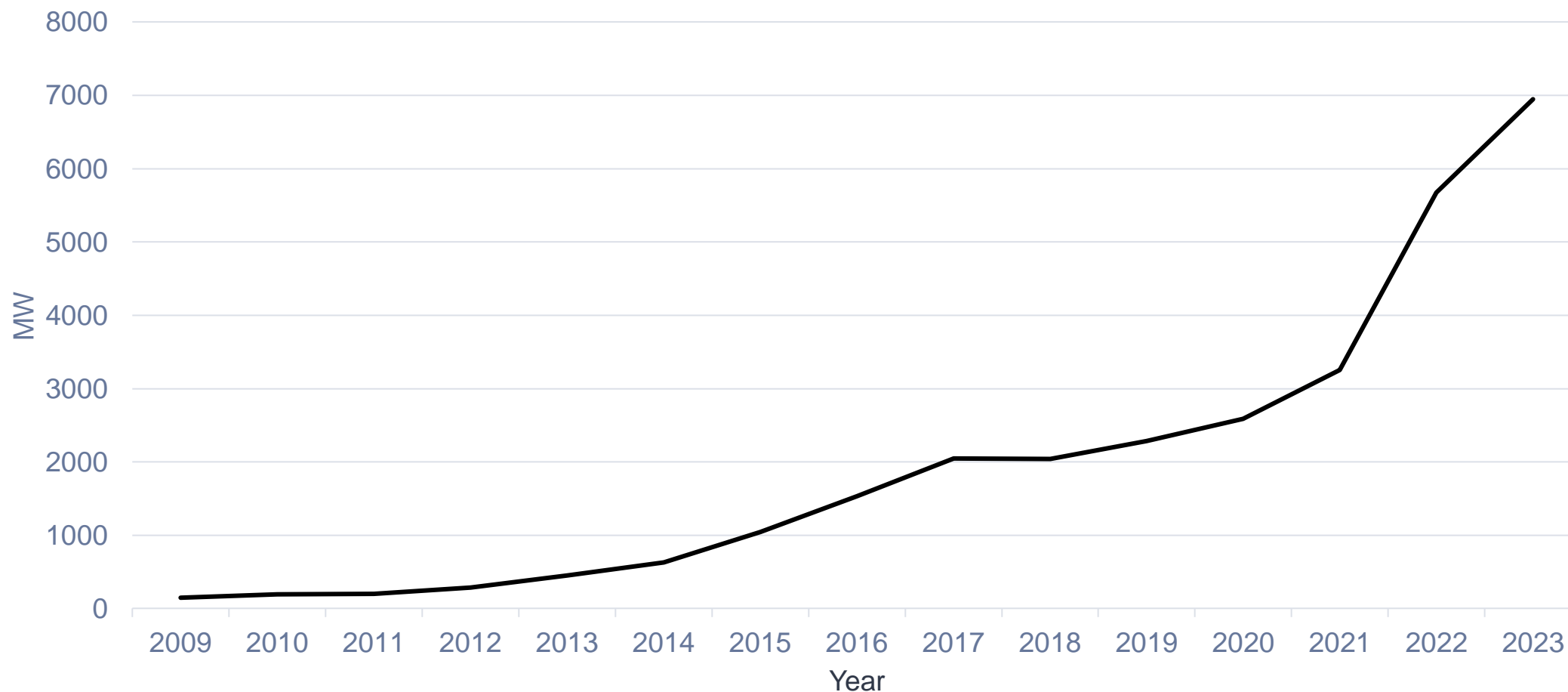
| Year 2023 | |
|--|---------------|
| Installed capacity | 1,3 GW |
| Installed turbines | 212 WTG |
| Dismantled | 4 WTG (12 MW) |
| Cumulative capacity in the end of 2023 | 6,9 GW |
| Number of wind turbines in the end of 2023 | 1601 WTG |
| Annual production | 14,5 TWh |
| Share of Finnish electricity production | 18,5 % |

Wind power installations in Europe in 2023 (MW)

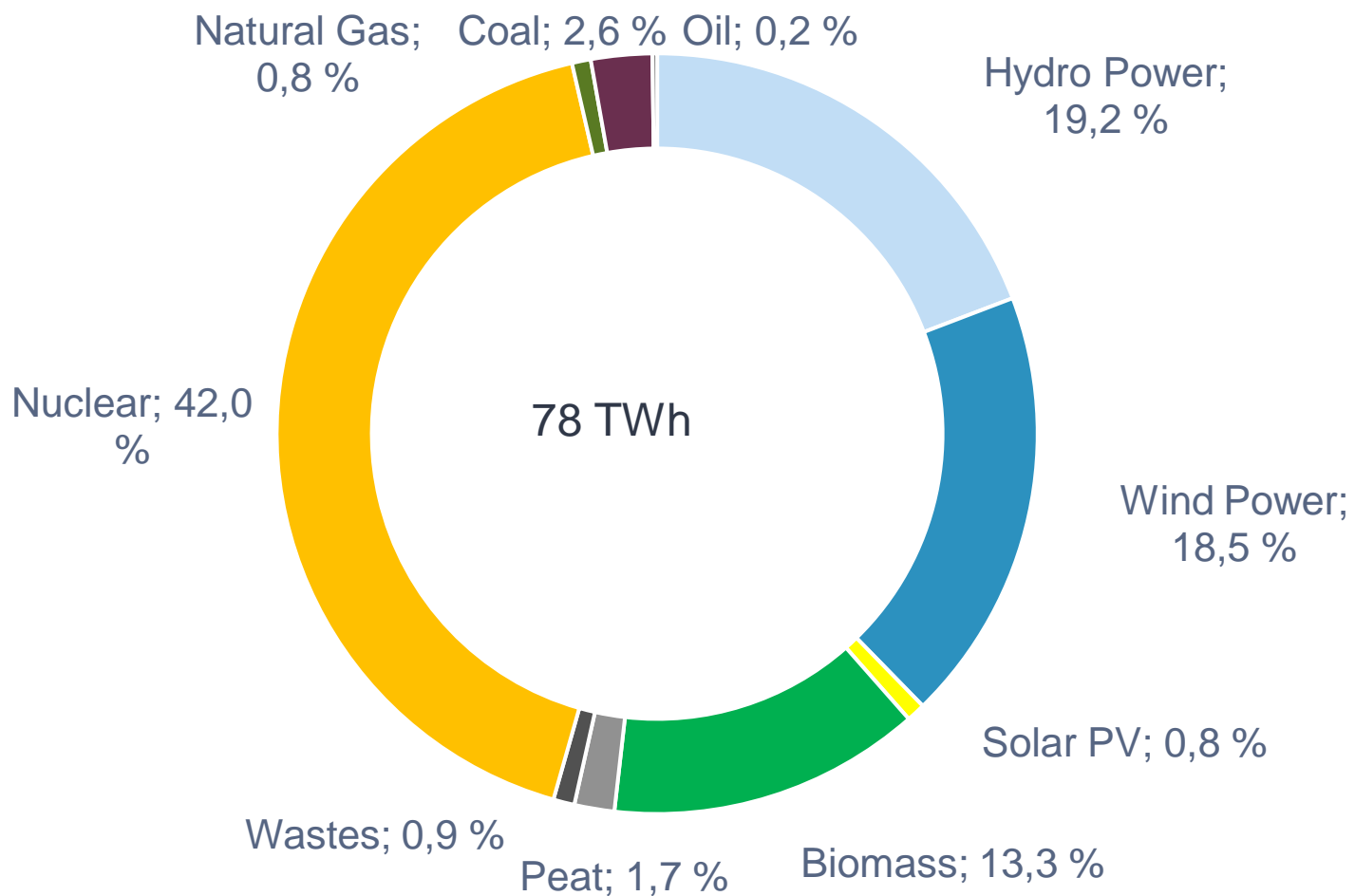


- Finland
 - 4th in onshore
 - 6th in total

Installed cumulative capacity (MW)



The Finnish Electricity System is 94 % Carbon Neutral...

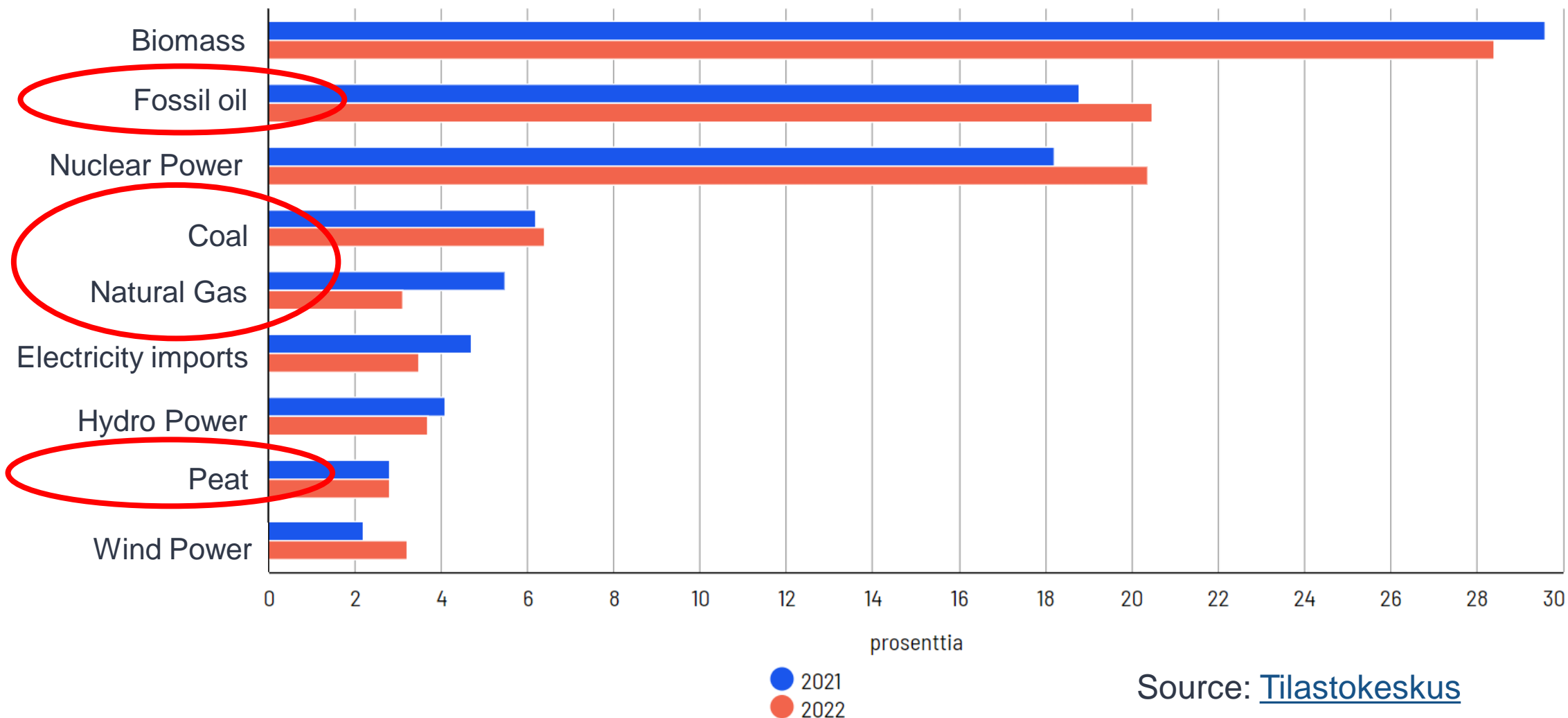


Finnish Electricity Mix 2023


- Renewables 52 % (55 % in 2022)
- CO₂-neutral 94 % (89 % in 2022)
- Domestic 54 % (57 % in 2022)
- Imports 2 %

Source: Energy Finland

...but there is lot to do in the Energy mix

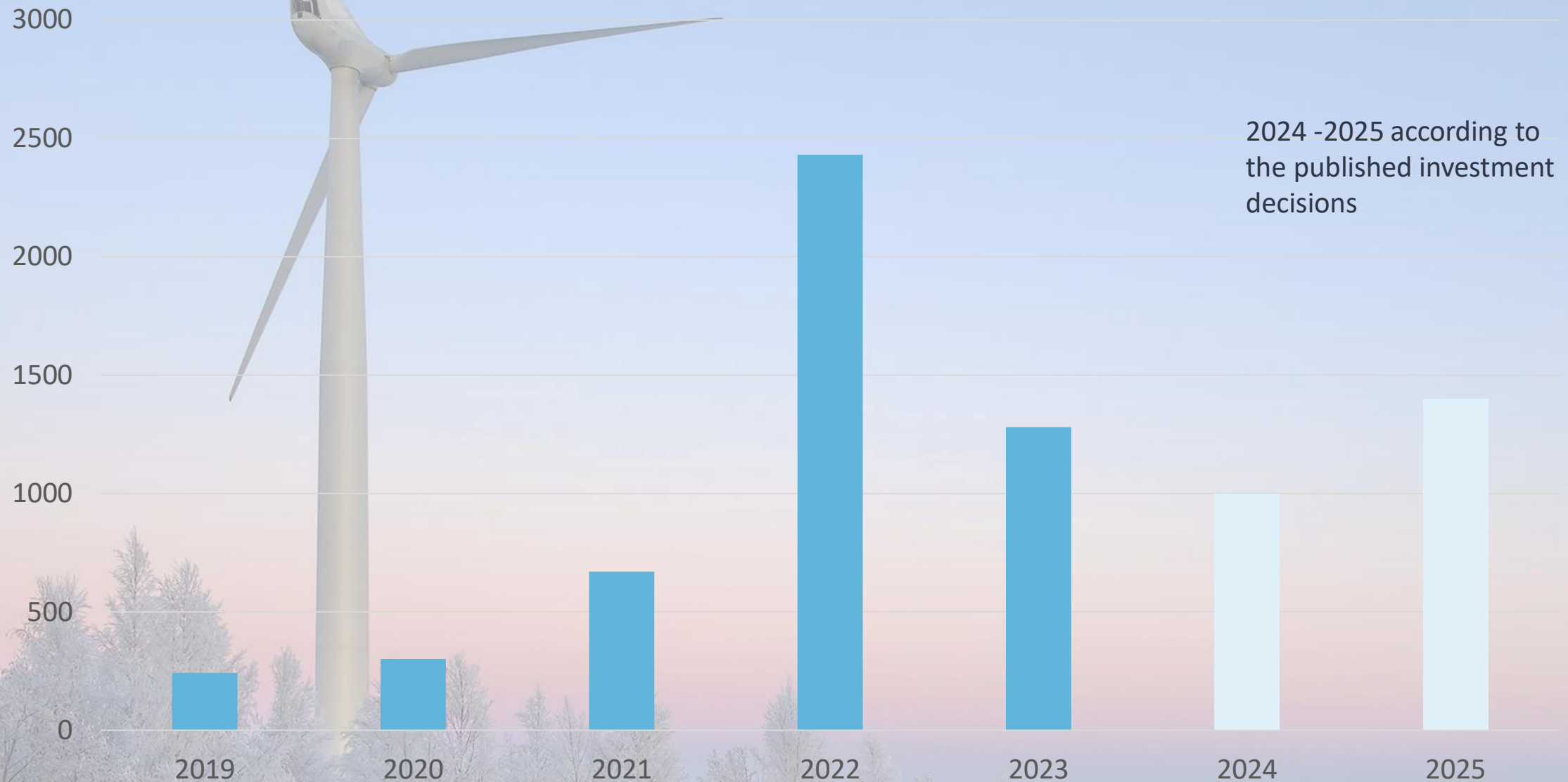


Source: [Tilastokeskus](https://tilastokeskus.fi/)

A full-page background image showing a person standing on a wind turbine blade. The person is wearing a dark shirt, pants, and a helmet, and is holding onto a rope. The blade is white and curves upwards. In the background, there are other wind turbines and a landscape with green fields and a body of water under a clear blue sky.

What will happen in 2024
and beyond?

Steady 1 GW deployment rate after a record year 2022 (MW)



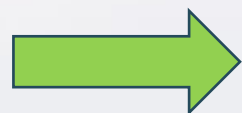
...and strong project pipeline

Wind Power Project pipeline 1/2024



What are the targets? Governmental Programme:

- Finland will punch above its weight in climate policy
- Finland will become a leader in clean and sustainable energy while maximizing its climate handprint.
- The government will review the carbon neutrality strategy in connection with drawing up the new climate and energy strategy
- Finland is committed to the objectives of the Climate Change Act. Achieving the emissions' targets will require active measures



Carbon neutral in 2035

Ministries, working groups, legislation under preparation, for example

- High-level working group to identify solutions for better coexistence of military operations and wind power in Eastern Finland / Spring 2024
- Interministerial working group on offshore wind energy / Spring 2024
- Clarifying the legislation on EEZ -> Law proposal Autumn 2024
- Lowering the property tax on territorial waters -> Autumn 2024
- Grid connection issues
 - Grid connection of projects with BESS and production
 - Working group on Electricity Market Act / 2024-2025
- “Acceptability entries”

“Acceptability entries”

- Determining and introducing national distance rules
- The demolition and restoration obligation
- The duty to build regulated energy production and the capacity mechanism
- Lowering the EIA threshold to cover all industrial projects
- Strengthening landscape assessment
- Increasing compensation for power corridors

Summary

- Current Wind Power Capacity 7 GW in 2/2024.
- Wind power will be the second biggest electricity production method in Finland in 2024.
- One key question is whether the heating, transportation, and industries can be decarbonised.
 - Fingrid estimates that the electricity consumption may increase 64 % by 2030.
 - Wind power industry is ready to deliver the electricity with the strong project pipeline.
- And last: Are the working groups successful in their work? What will the law proposals look like?