

# Wind power in 2023 in Finland

Finnish Wind Power Association

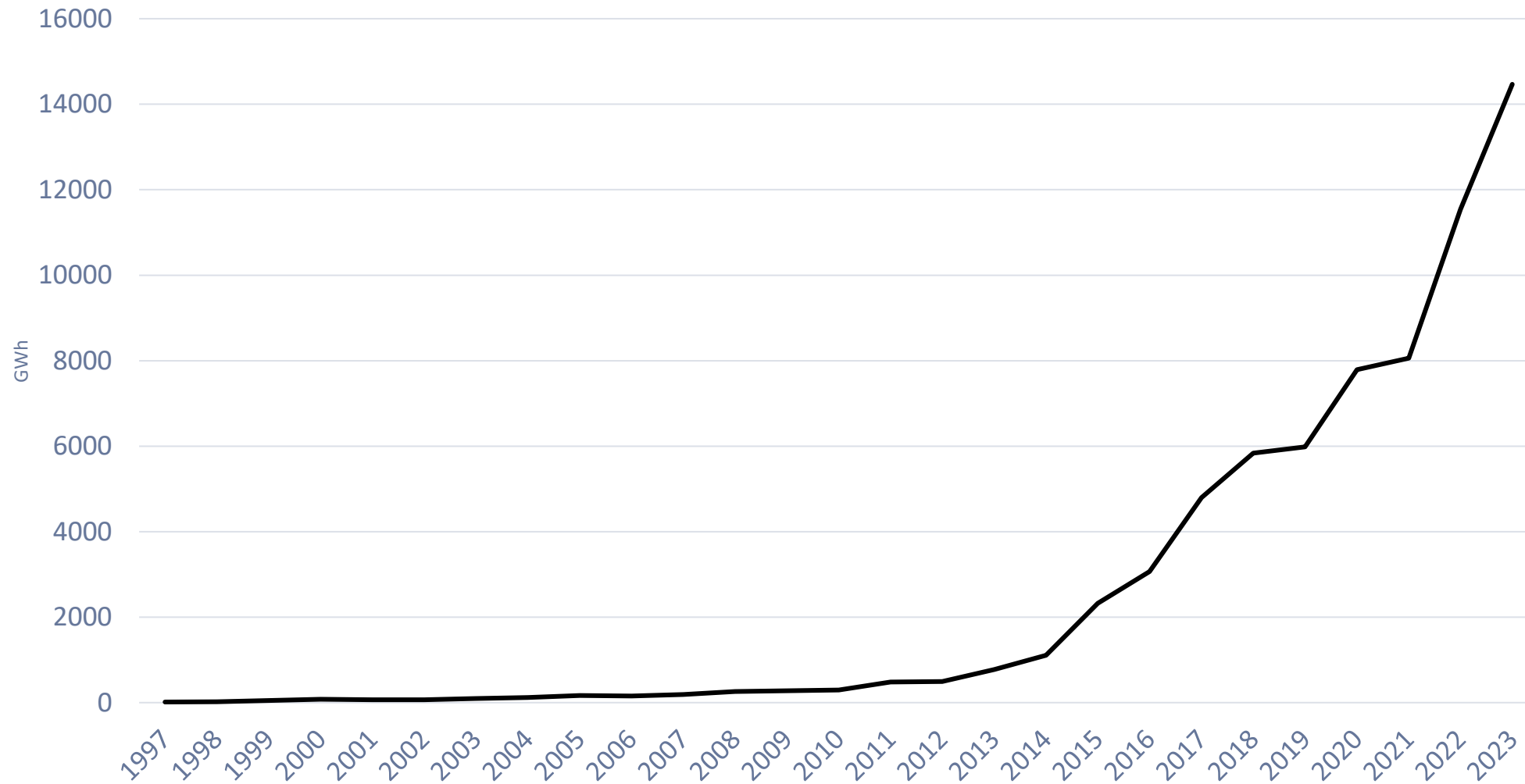
31.12.2023

# Summary

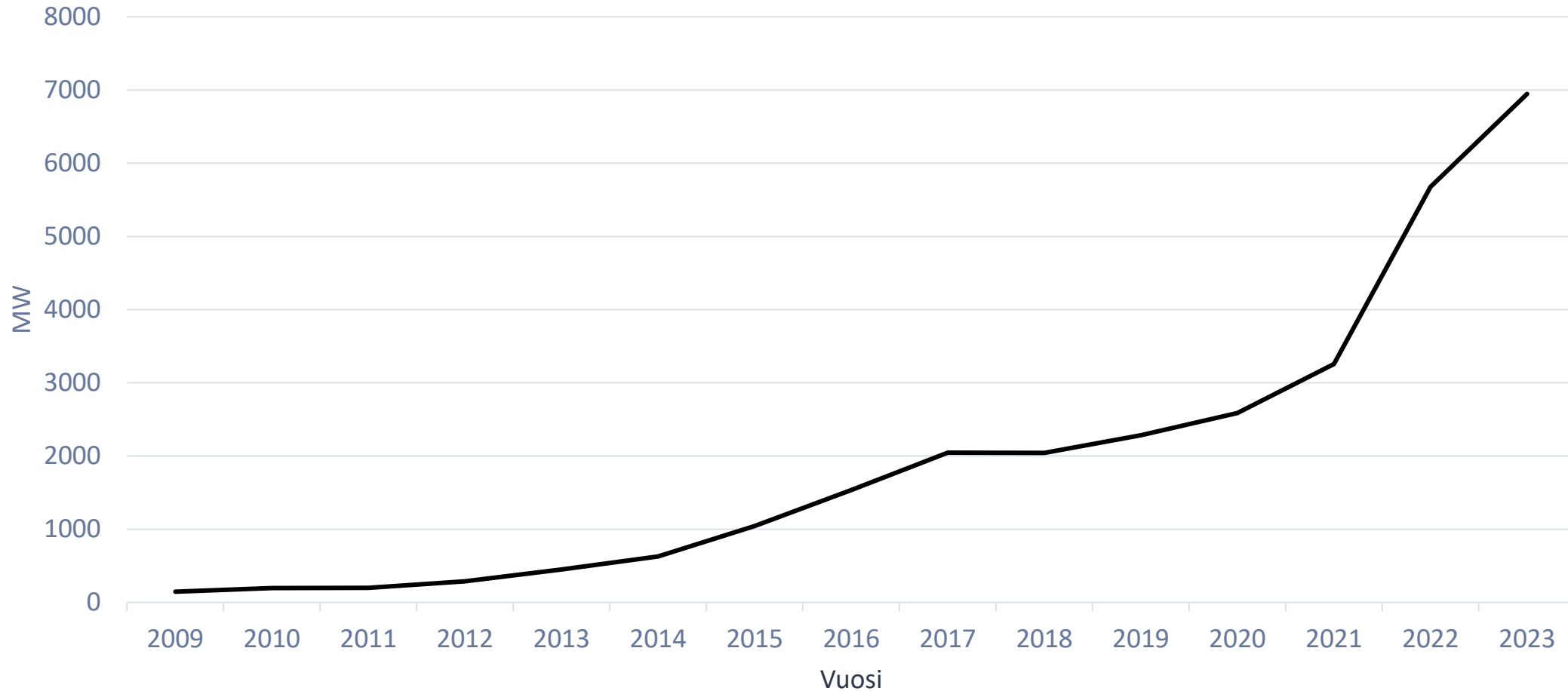
Installed wind power capacity		
2023		
Installed wind turbines	212	WTG
Rated power of installed turbines	1 278	MW
Decommissioned turbines	4	WTG
Rated power of decommissioned turbines	12	MW
Cumulative number of installed turbines	1 601	WTG
Cumulative capacity (MW)	6 946	MW
Wind Power production (TWh) *	14,467	TWh

\* Wind power covered 18,5 % of the Finnish Electricity Consumption

# Annual Wind Power Production (GWh)



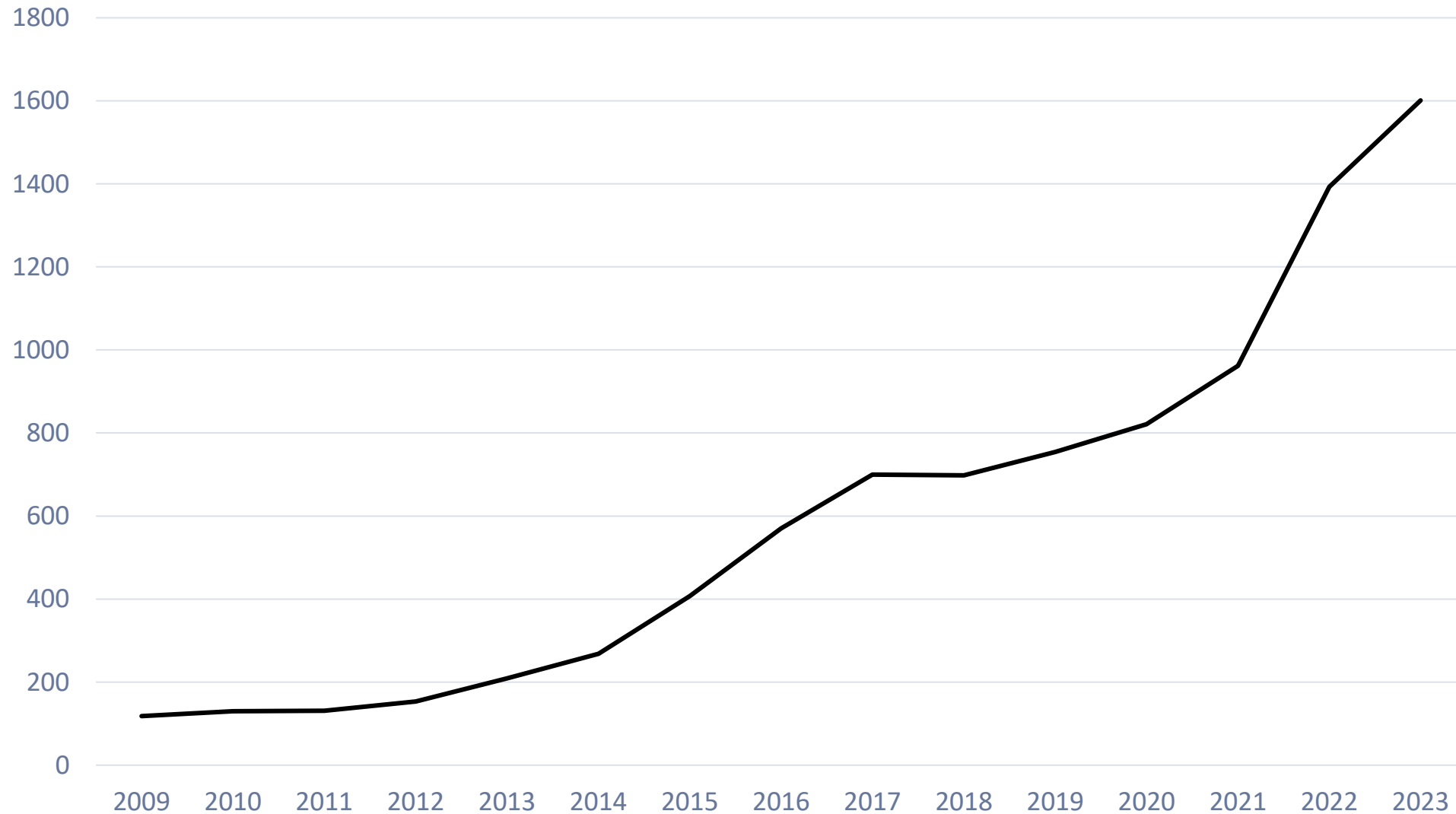
# Installed cumulative capacity (MW)



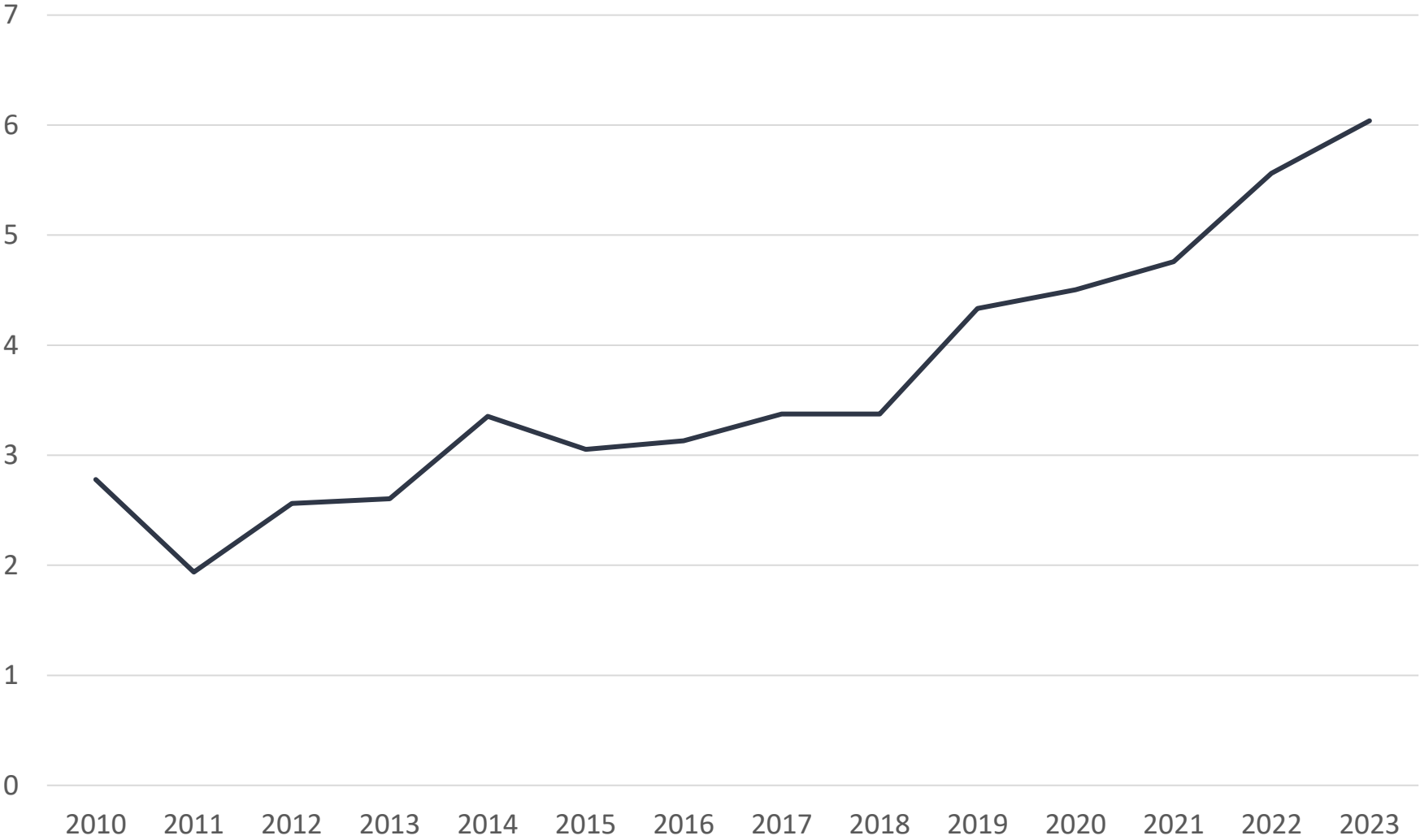
# Cumulative number of installed wind turbines 2009-2023



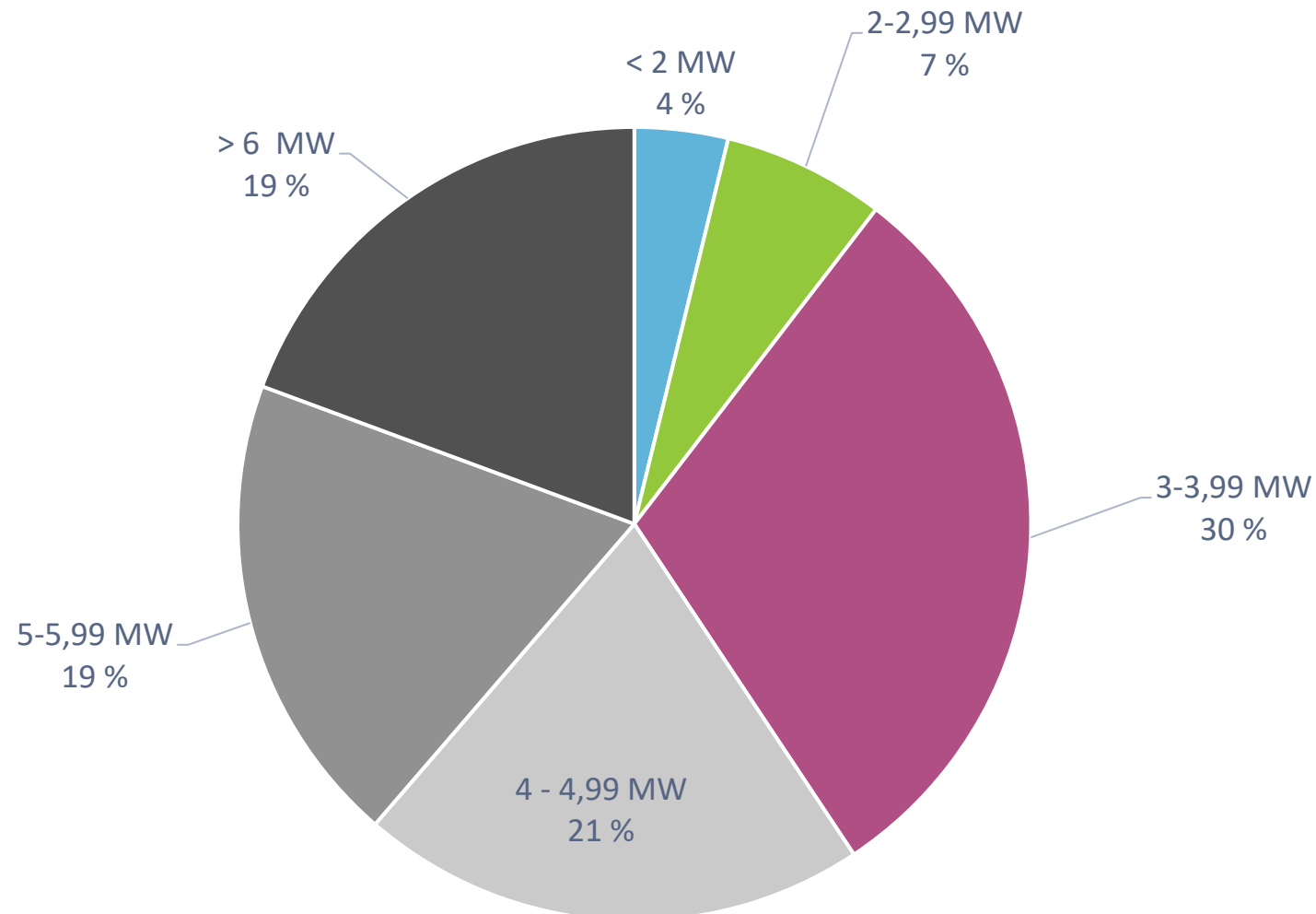
Suomen  
Tuulivoimayhdistys



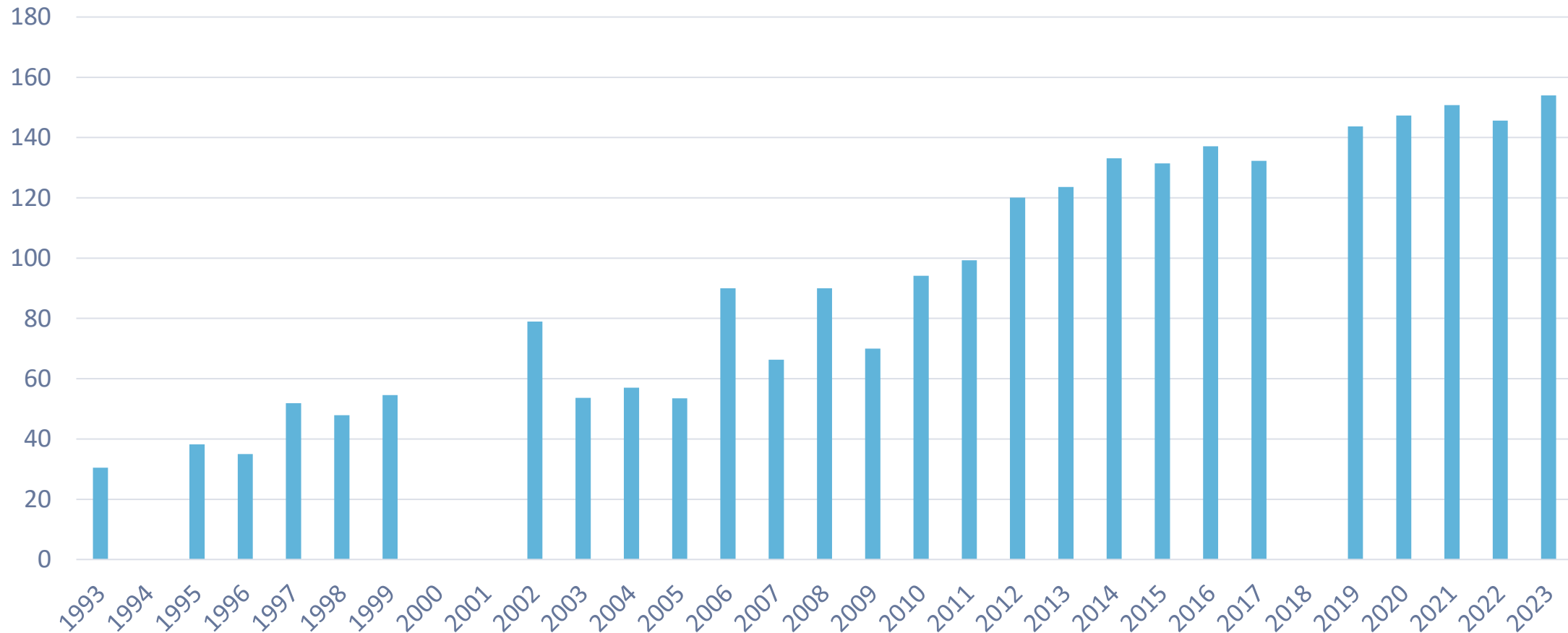
# The average capacity of installed wind turbines (MW)



# Shares of different wind turbine capacities –cumulative capacity (number of turbines)



# Average hub height of installed turbines (m)

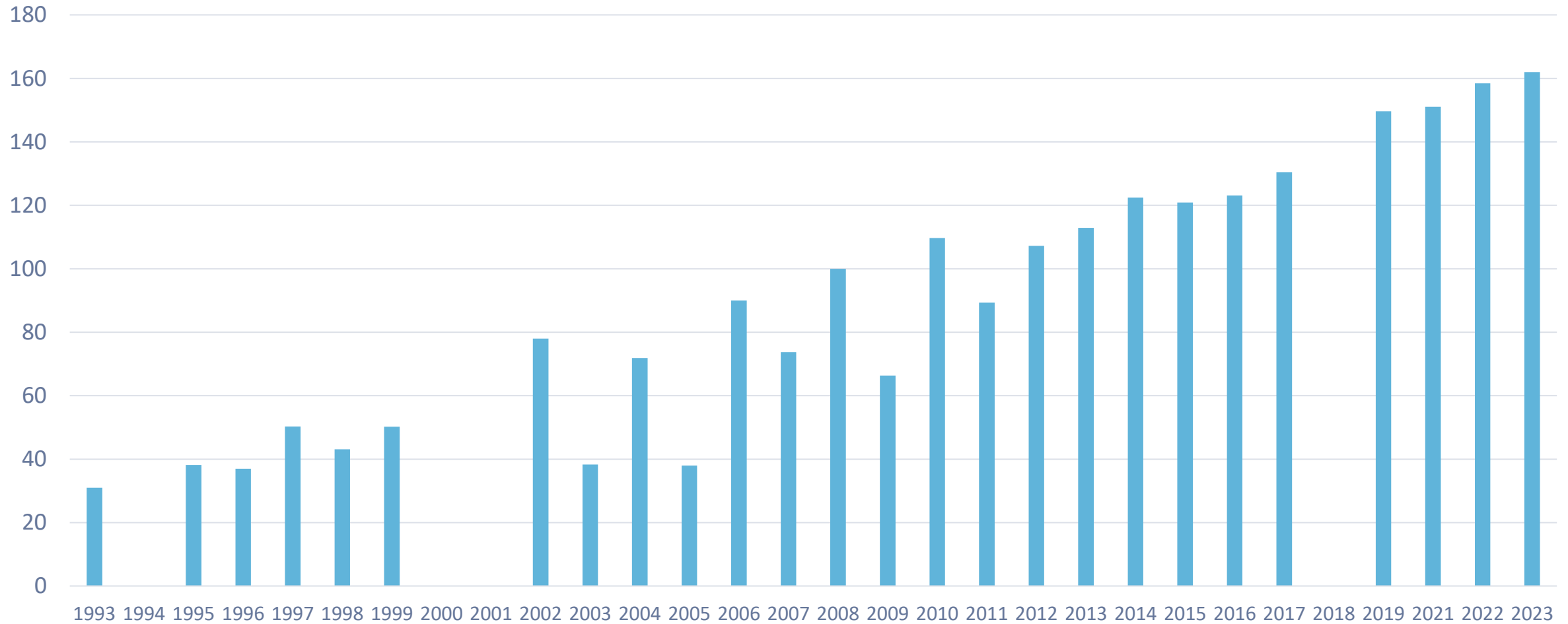




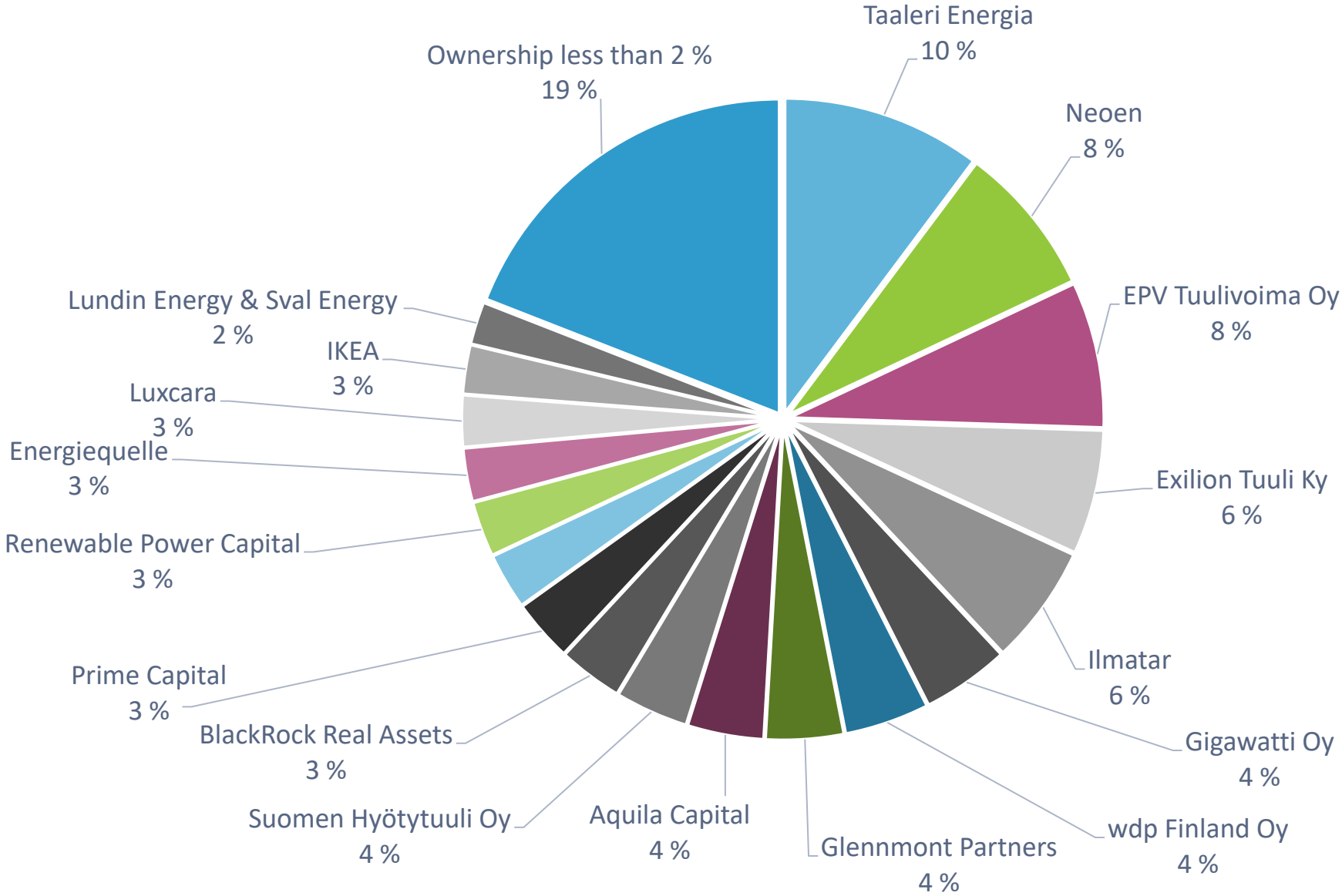
# Average rotor diameter length (m) of installed turbines



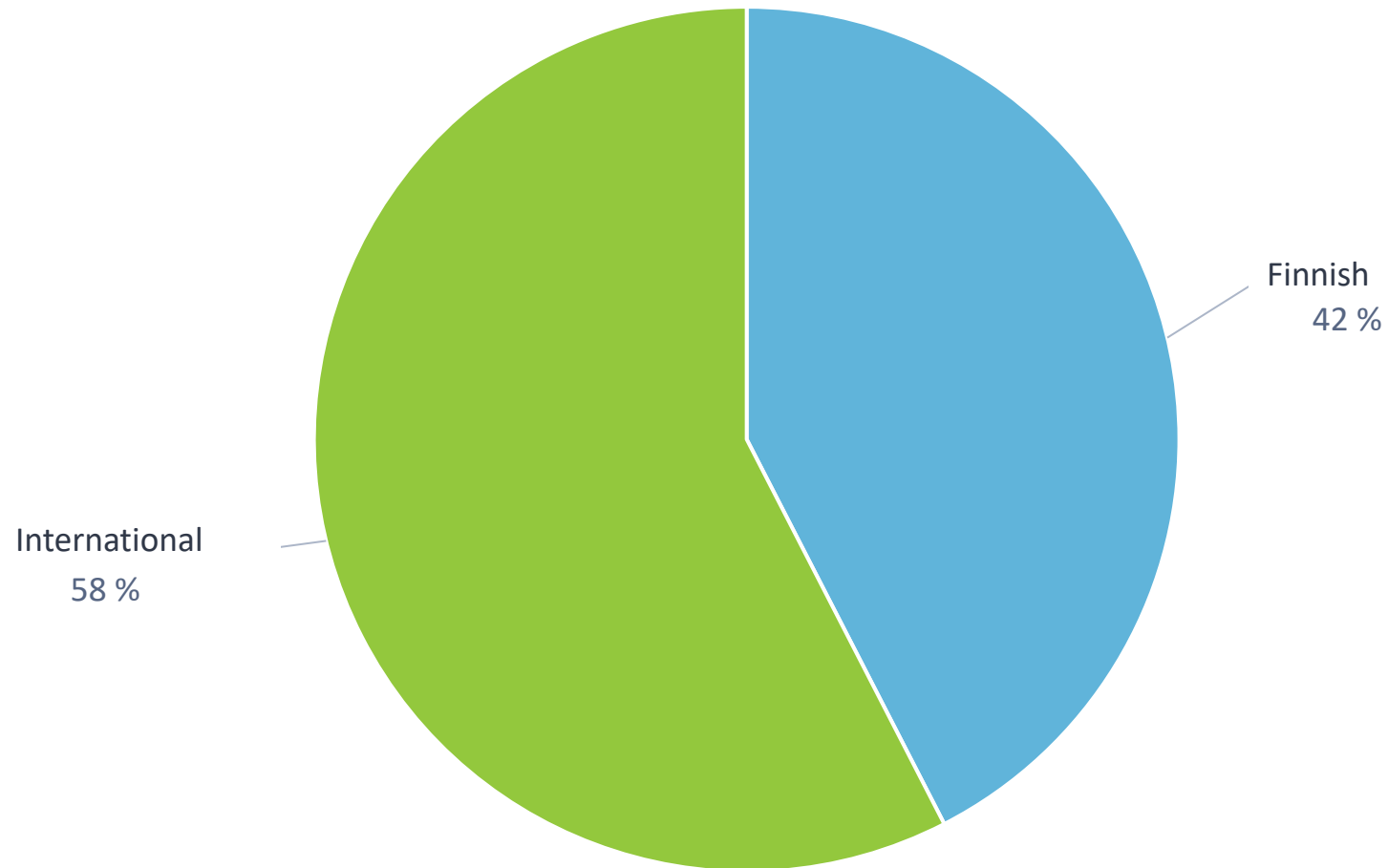
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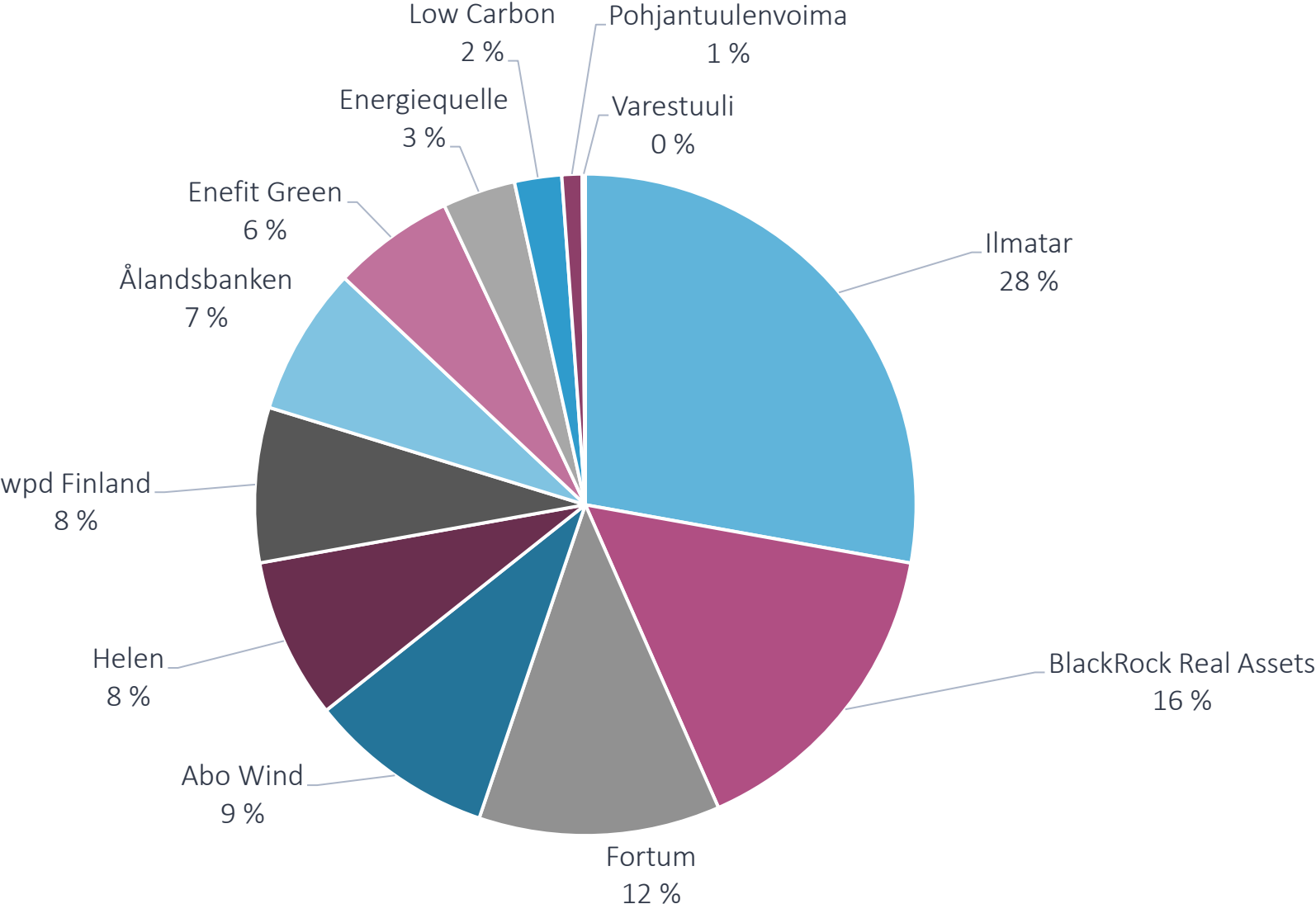
# Owners – shares of cumulative capacity (MW) on 31<sup>ST</sup> of December 2023



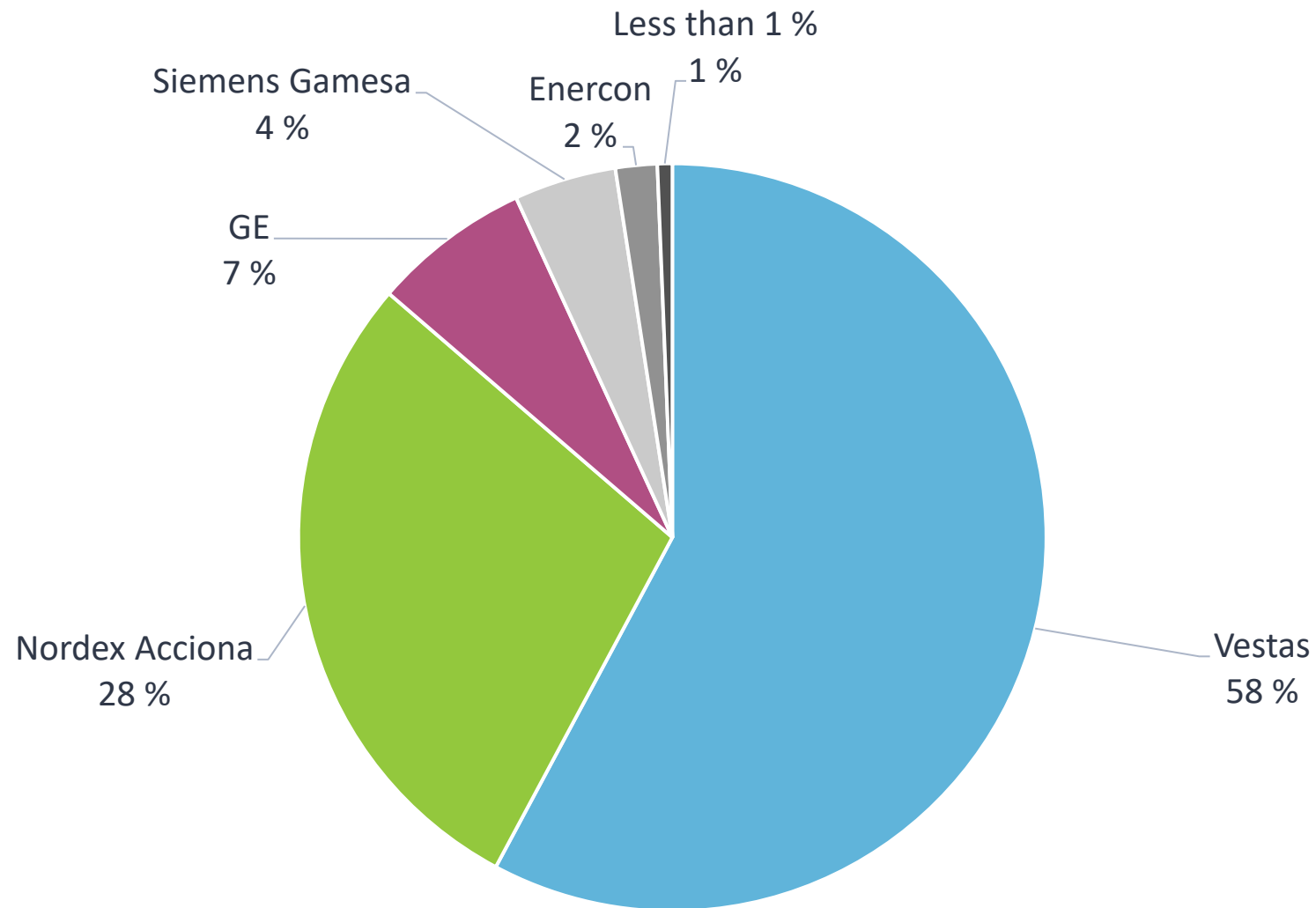
# Shares of domestic and foreign owners 31<sup>st</sup> of December 2023 – cumulative capacity



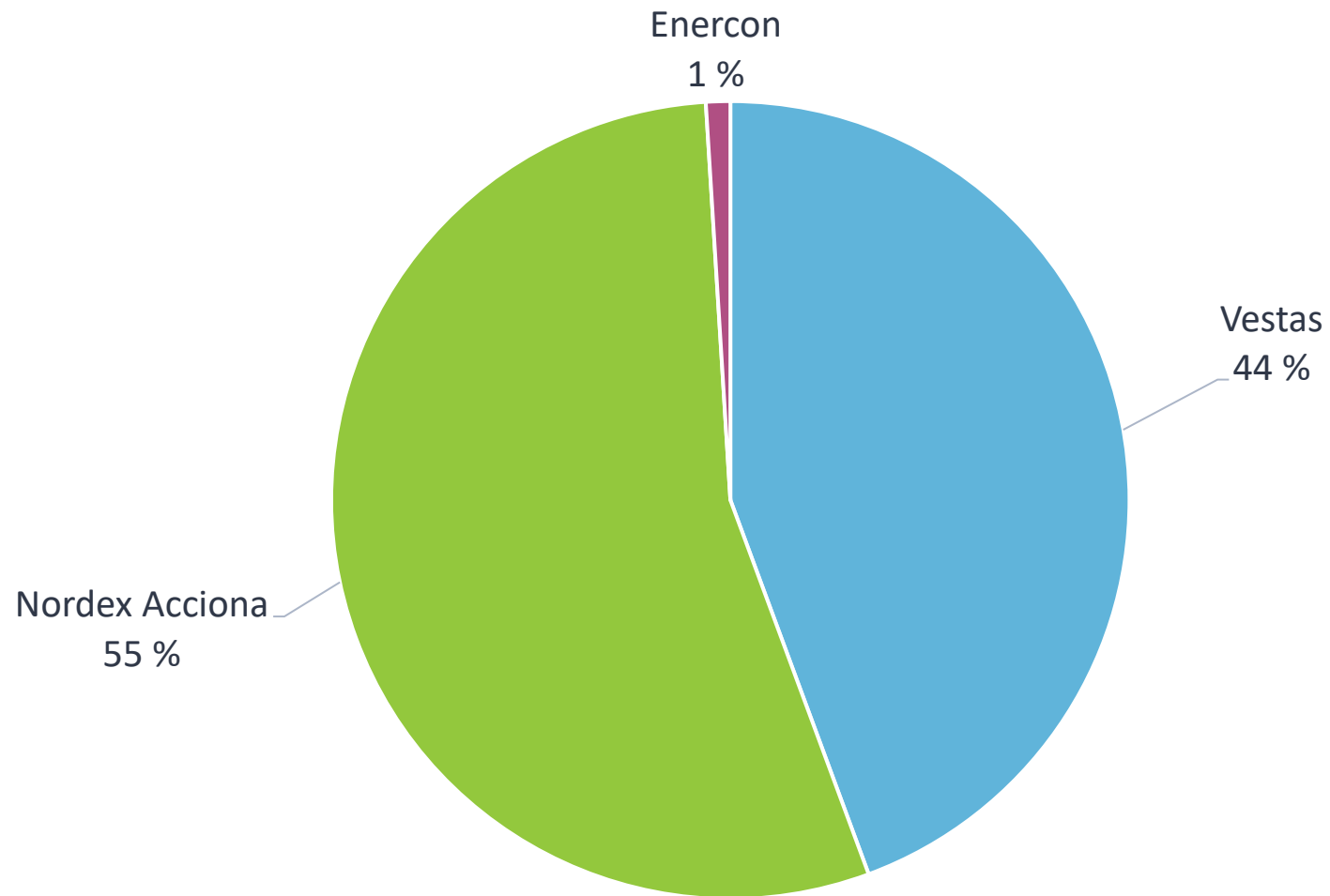
# Owners – shares of capacity installed in 2023 (MW)



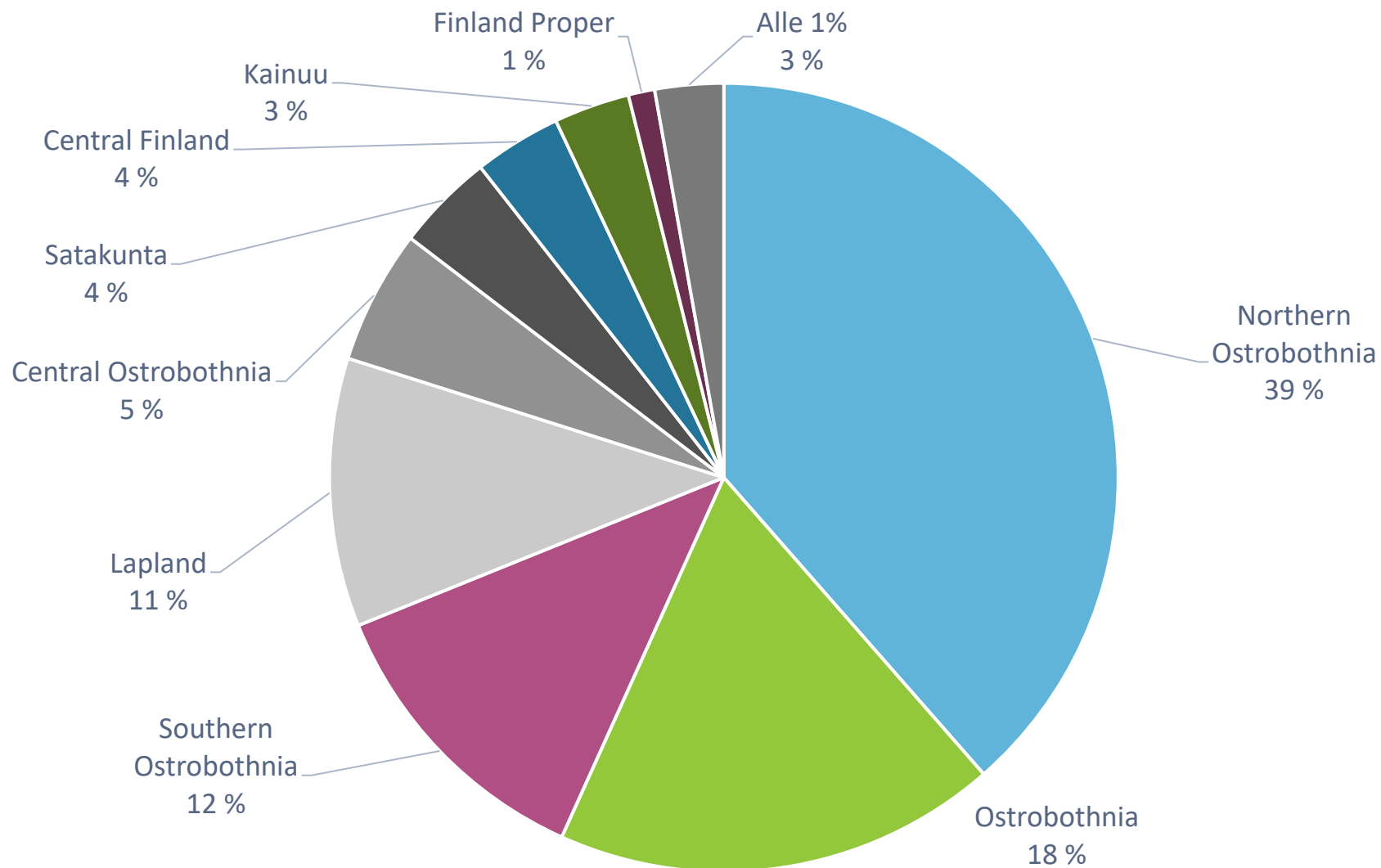
# Wind turbine suppliers – shares of cumulative capacity (MW) 31.12.2023



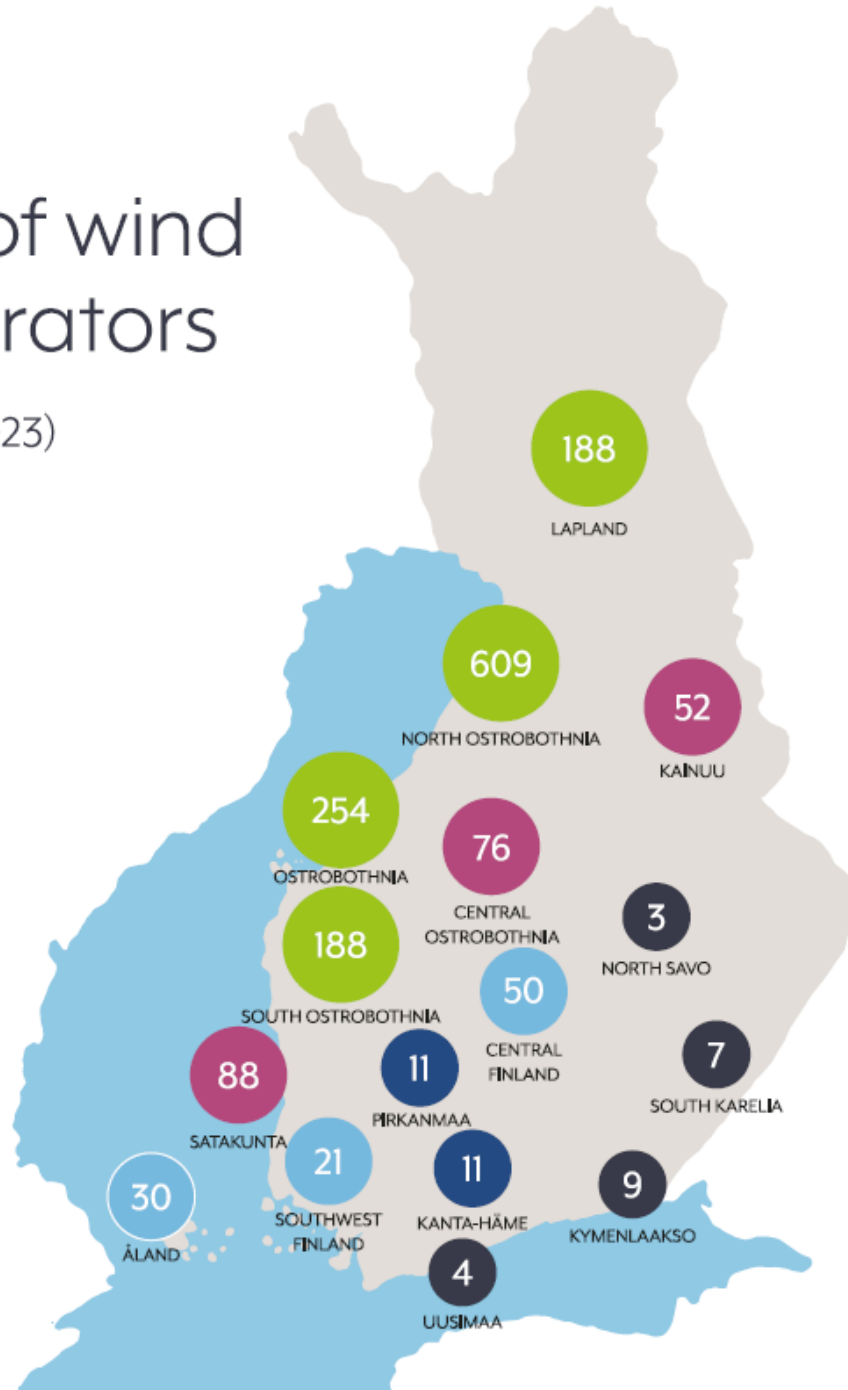
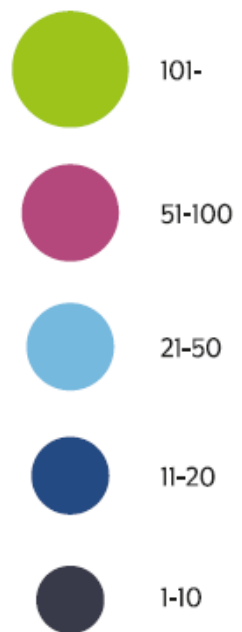
# Wind turbine suppliers – shares of capacity (MW) that came online in 2023



# Cumulative wind power capacity by region (MW) end of 2023



# Distribution of wind turbine generators by region (12/2023)

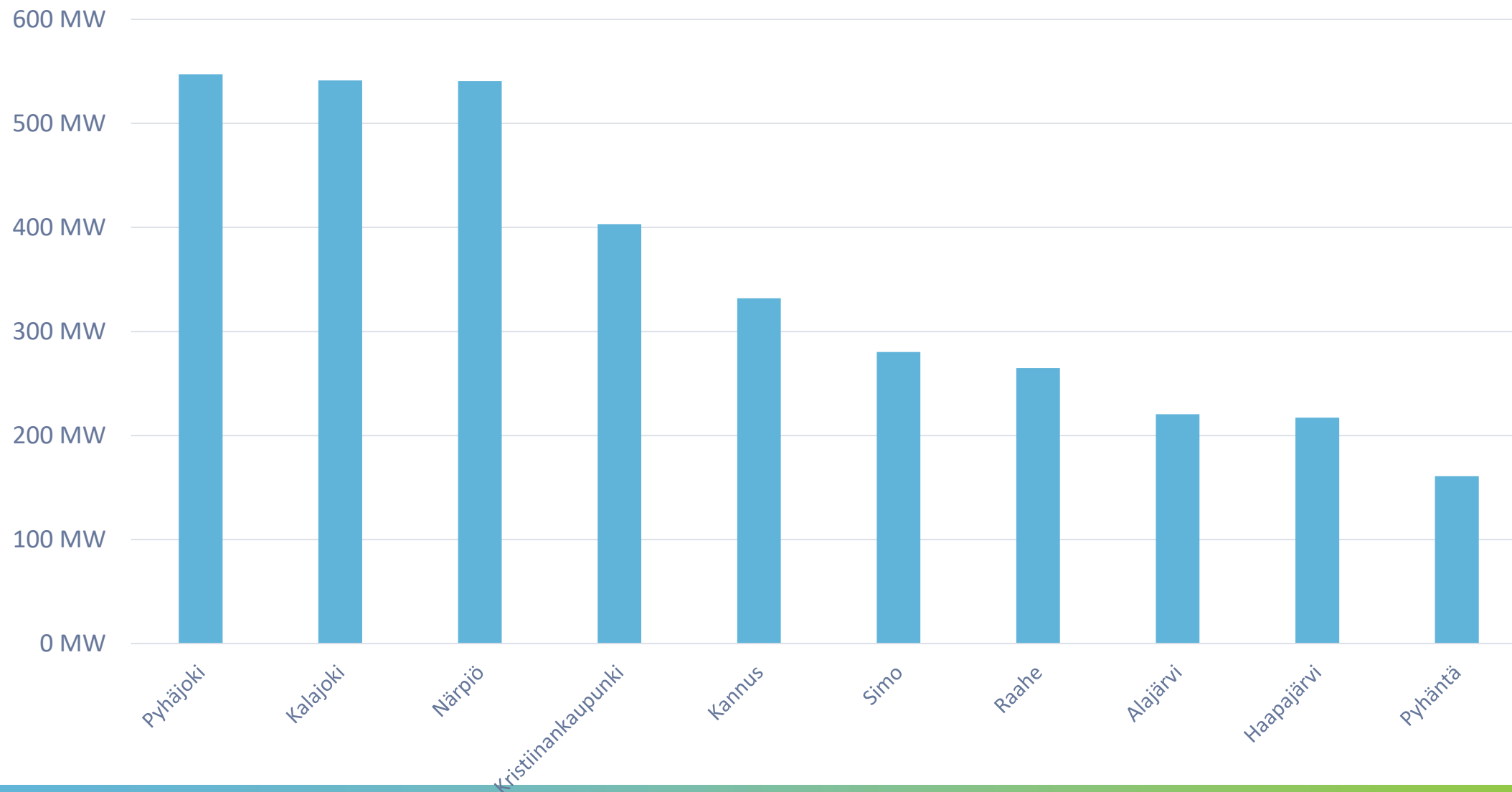




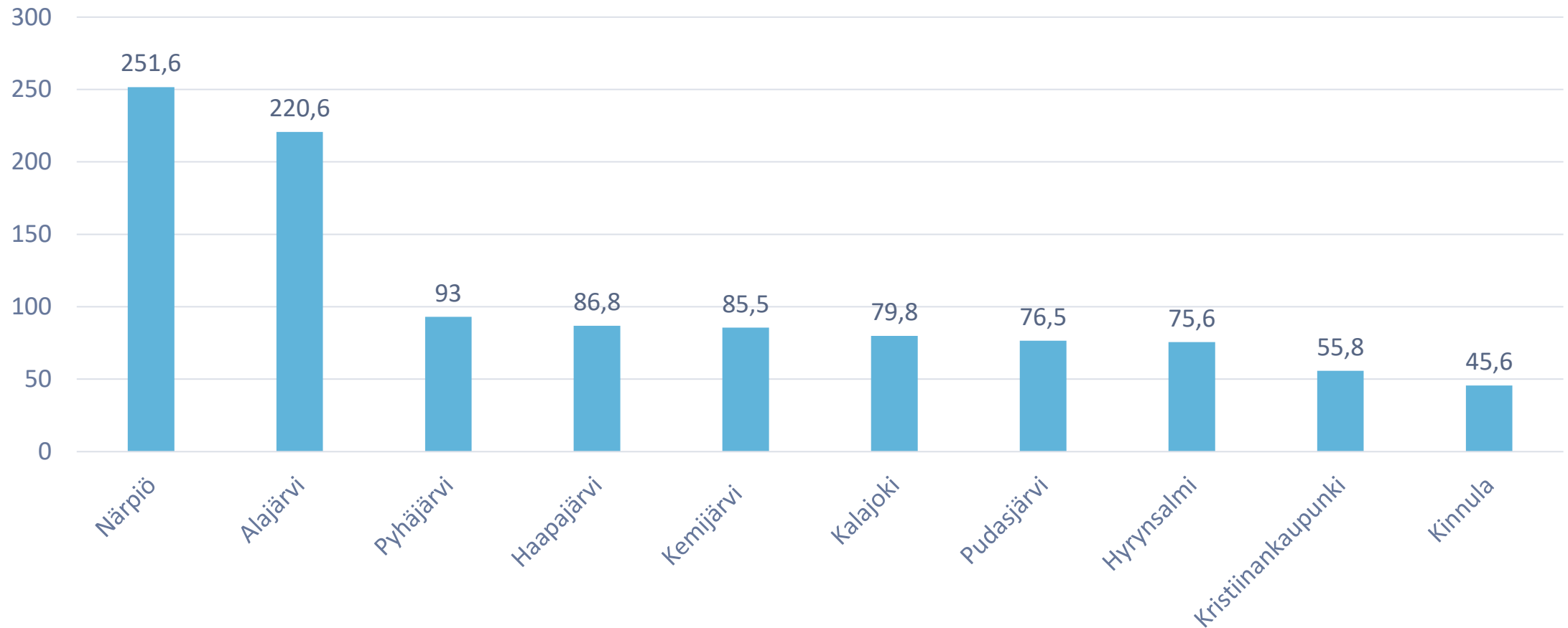
# Top 10 municipalities - cumulative capacity (MW) 30.6.2023



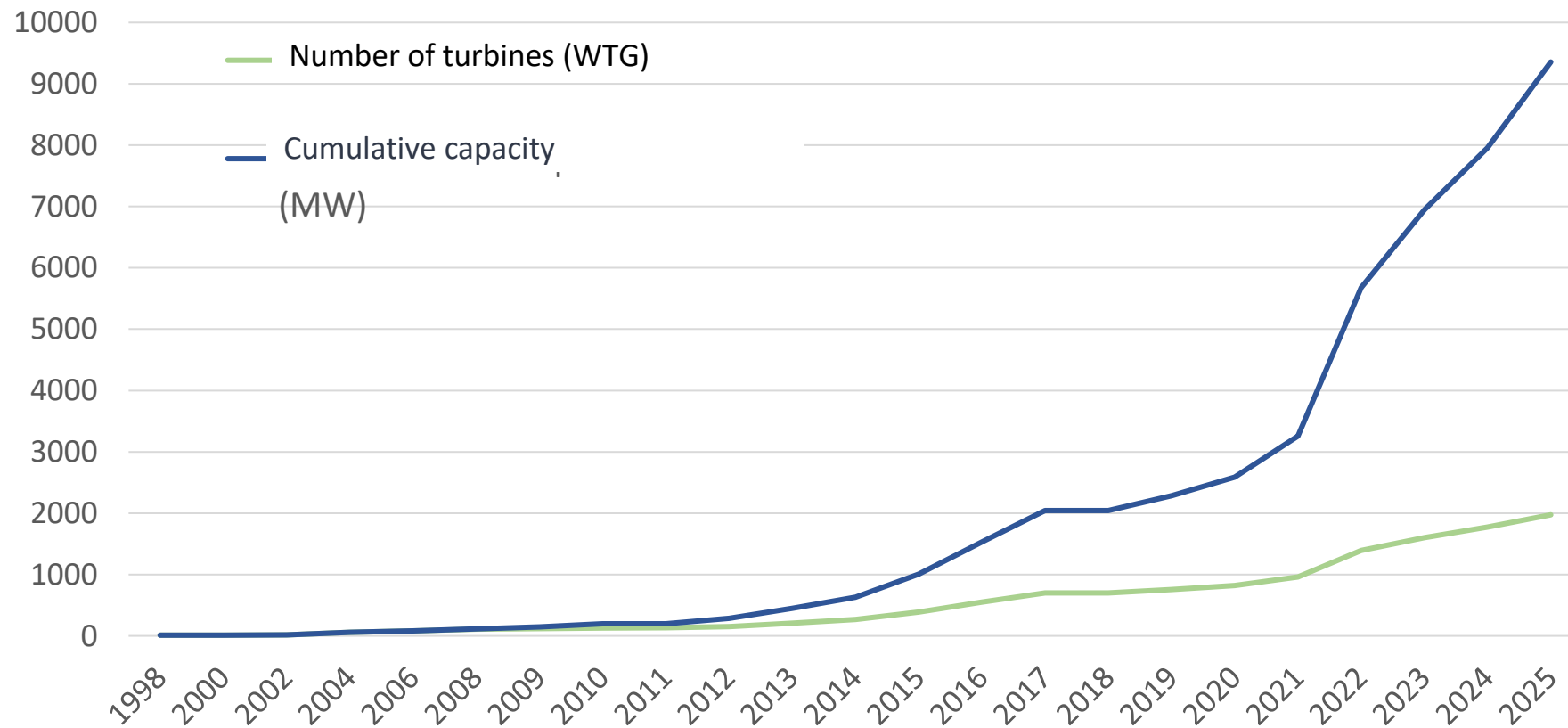
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# Installed capacity 2023– top 10 municipalities (MW)



# The construction will continue strong in Finland



The estimates for the 2024 and 2025 are based on the investment decisions published prior to 31<sup>st</sup> of December 2023.

# Finnish Wind Power Association (FWPA)

- Membership association that promotes wind power, established in 1988
- Over 230 company members, about 20 individual members, about 140 support members
  - A comprehensive mix of companies working in the wind power sector
- 10 full-time employees
- Located in Jyväskylä, Helsinki and Kajaani
- Distributes information about wind power, engages actively in public discussion concerning wind power, publishes magazine “Tuulivoima”, etc.  
<http://tuulivoimayhdistys.fi/en/>