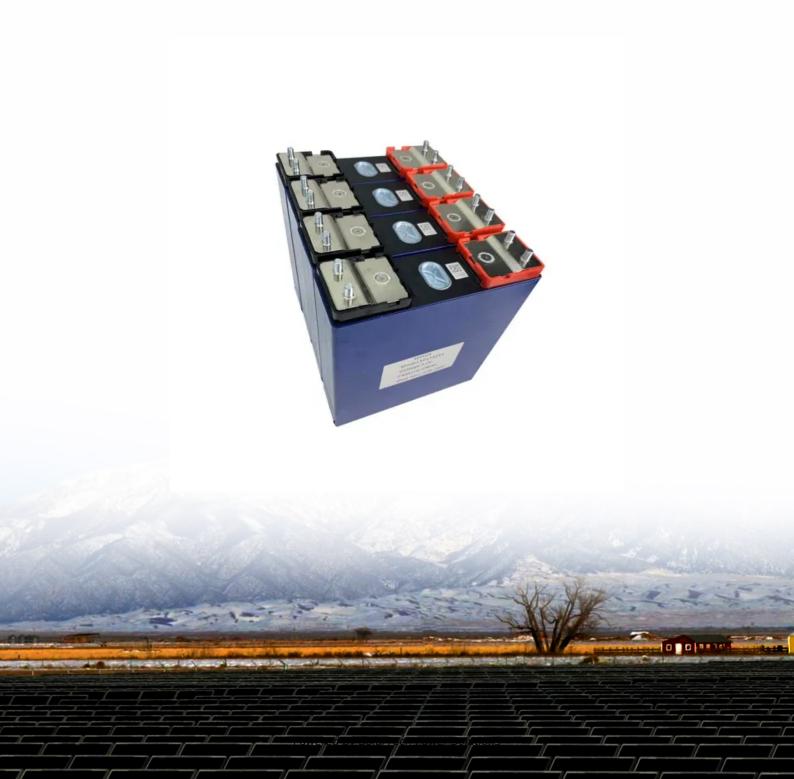


#### **SolarTech Power Solutions**

# Tampere wind power generation system in Finland





#### **Overview**

How much wind power can be built in Finland?

According to Fingrid System Vision, in all 4 scenarios the electricity consumption will rise from current 86 TWh to 128-188 TWh by 2035. How much wind power can and should be built in Finland?

Finnish wind conditions do not set a limit to the amount of wind power that can be built in Finland.

How many wind turbines are there in Finland?

However, from 2012 to 2024, wind power construction has gained momentum and national construction and production statistics have been broken year after year. At the end of 2024, there were 1 835 installed wind turbine generators, with a combined capacity of 8 358 MW. They generated 24 % of Finland's electricity consumption in 2024.

Does Finland have a large share of variable renewable power production?

Recently there has also been an increasingly prominent share of variable renewable power production, i.e., wind and solar. Wind power capacity in the Finnish power system has increased quite rapidly from <1% to almost 10% share of electricity demand coverage over approximately a single decade by 2020.

How has wind power changed in Finland?

Wind power capacity in the Finnish power system has increased quite rapidly from <1% to almost 10% share of electricity demand coverage over approximately a single decade by 2020. Wind power production has replaced mainly conventional condensing power production, and several fossil fuel-fired condensing power plants have been shut down.

When did wind power construction start in Finland?



In Finland, wind power construction began later than in many other European countries. However, from 2012 to 2024, wind power construction has gained momentum and national construction and production statistics have been broken year after year.

What type of electricity does Finland produce?

The electricity generation fleet in Finland has always been rather uniformly mixed, consisting of hydro power, nuclear power, conventional condensing power, combined heat, and power (both district heating and industrial CHP) – none of the production forms being too predominant.



#### Tampere wind power generation system in Finland



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