



# Finland's small and medium-sized wind power generation system

Wind power in Finland has been the fastest growing source of electricity in recent years. In 2020, Finland covered 24% of the yearly electricity demand with wind power, which was 25% of domestic production. Wind capacity was up 20% from the previous year and wind production up 37%. This compares to an average wind power share of 19% in the EU. About wind power Finnish wind conditions do not set a limit to the amount of wind power that can be built in Finland. From the perspective of Finnish wind resources, the Finnish Wind Atlas shows that onshore and offshore wind resources are abundant. Wind power in Finland OverviewComparisonGrowthOffshore windEconomyPoliticsGallerySee alsoWind power in Finland has been the fastest growing source of electricity in recent years. In 2020, Finland covered 24% of the yearly electricity demand with wind power production, which was 25% of domestic production. Wind capacity was up 20% from the previous year and wind production up 37%. This compares to an average wind power share of 19% in the EU. Wind power construction Increasing wind power production has an important role in reaching Finland's climate targets and in boosting the green transition. According to the Renewables Finland (former Finnish Wind Power Association) at the end of 2020, Report Finland By the end of the year, wind power capacity in Finland closed in on 7 GW. Wind power in Finland continues to be built in a market-driven way, without subsidies. Practically all wind power in Wind power in FinlandFinland's vast sea areas offer excellent opportunities for wind power, as the wind at sea is often stronger and more consistent than on land. Offshore wind power may form a significant part of Finland's energy production in the future. Wind power generation Real-time measurements cover most of Finnish wind power production and their portion of the total is increasing all the time. Wind power generation forecasts are based on wind forecasts in Finland, wind power, electricity generation, renewable energy, Finland's wind power capacity saw a significant increase, resulting in wind power generating 21.5% of the country's electricity between January and March. The growing The energy system in Finland The transmission system of Finland is part of the Nordic synchronous power system, and Finland has also DC interconnections in the South to Russia, Estonia, and Sweden. Wind Power Emerges as Finland's Second-Largest In 2020, wind power solidified its position as Finland's second-largest electricity production method, surpassing hydropower, which had traditionally held this rank. Finnish wind energy shatters records, sets the stage for In sparsely populated Finland, the conditions for building wind power are good. In 2020, around 14 percent of Finland's electricity was generated by wind power. This is still slightly below the About wind power Finnish wind conditions do not set a limit to the amount of wind power that can be built in Finland. From the perspective of Finnish wind resources, the Finnish Wind Atlas shows that onshore Wind power in Finland By the end of 2020, Finland's wind power capacity reached 5,677 MW with 1,393 turbines installed. That year, wind power production increased by 41% to 11.6 TWh, representing 14.1% of Finland's electricity. Wind power construction Increasing wind power production has an important role in reaching Finland's climate targets and in boosting the green transition. According to the Renewables Finland (former Finnish Wind Power in FinlandFinland's vast sea areas offer excellent opportunities for wind power, as the



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