Wind power at three telecommunications base stations in Finland

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Will Finnish wind power reach a record level in 2022?
A promising growth in green electricity supply The Finnish Wind Energy Association estimates that,in Finland,wind power construction will continue to grow strongly in the coming years but that it will notquite reach the record level of 2022 in the next three years. Even so,new wind power in Finland is forecasted to reach 1,500 MW per year.

How do offshore wind farms transmit power to a converter station?
The offshore wind farms will transmit their power to a converter station on the coast in direct current. In March 2023,Hitachi Energy has secured a landmark offshore wind agreement with TenneT for these transmission links. Hitachi Energy is a technology pioneer and market leader in high-voltage direct current (HVDC) transmission.

Are large-scale offshore wind farms a good match?
Large-scale offshore wind farms are a good matchas both benefit from each other. In high winds,electricity can be stored as hydrogen,further improving the profitability of wind power generation." concludes Norbert Beatrix,commenting on the near future challenges and opportunities for the industry.

Power generation indicates the total figure for plants that supply Fingrid with real-time measurements, supplemented with estimations on other wind power generation.

After a record year in deployment in 2022, Finland"s wind power growth decreased slightly. Despite the slowdown, the actual wind power capacity increased by 23% by the end of 2023.

Read about wind power production, the impacts of wind power projects and their various stages and the economic viability of wind power production. Suomen uusiutuvat maintains three up-to-date lists and ...

Finnish telecoms and digital services company Elisa is announcing its intention to enable international telecoms operators to play a key part in tackling climate change by storing their surplus ...

Elisa is transforming the backup batteries in its mobile network base stations into a smartly controlled,

distributed virtual power plant with a capacity of 150 MWh, which serves as part of the grid balancing ...

Using the Radio Access Network (RAN) to run a Virtual Power Plant could save telecoms operators around 50% of their current electricity costs by optimising their energy purchases as well ...

The VPP operates via smart management of backup power from batteries to provide flexibility in electricity supply across thousands of base stations in the radio access network ...

At the moment, the planning of wind power sites is booming in Finland. Numerous master plans that directly guide wind power construction have been submitted for approval.

Finland built a record amount of wind power in 2022. New capacity of 2.4 gigawatts was completed, which puts Finland in the top three of Europe"s most dynamic wind power builders, right on the heels ...

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