Tampere three-phase wind power generation system in Finland

What is Finland's wind energy sector?
To learn more about Finland's wind energy sector, please read their chapter in the IEA Wind TCP 2022 Annual Report. Total wind power capacity is 5,678 MW. Wind power capacity in Finland increased by 2.430GW in 2022. Finland produces 11.56 TWh from wind energy, which accounts for 14.1% of the country's electricity consumption.

What is the future of energy in Finland?
The energy transition is increasing the need for renewable forms of energy,as fossil fuels need to be replaced cost-effectively. The spotlight is now on wind and solar power,which still have plenty of growth potential. Wind power currently accounts for 20 per cent of Finland's electricity consumption,while solar power makes up just one per cent.

How does Hitachi energy support Finland's energy transition?
Hitachi Energy enables Finland's energy transition: More than half of the wind powergenerated in Finland flows through Hitachi Energy's transformers and grid connection solutions. Finland built a record amount of wind power in 2022.

Will wind power produce half of Finland's Electricity by 2030?
However,by 2030,the goal is for wind power to produce half of Finland's electricity,with solar power contributing 5-10 per cent. Power plants,transmission lines,substations and connections are now being built at a brisk pace. Over the next ten years,Fingrid will invest up to EUR 4 billion in the main grid.

Will offshore wind power be a part of Finland's energy production?
Offshore wind power may form a significant part of Finland's energy production in the future. Exploiting this potential requires significant investment and technological expertise. Sweco is committed to promoting offshore wind projects and is working closely with various stakeholders to realize the vision.

How many wind power projects are there in Finland?
According to Renewables Finland project list (January 2024),there are more than 134 000 megawattsof wind power projects under development in Finland. Not all projects are likely to be implemented for various reasons,such as the windiness of the area or nature values.

Suomen uusiutuvat maintains three up-to-date lists and statistics that track the development of wind power in Finland. The first is an annual statistic covering operational and ...

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