

How to replace the wind power supply of the base station





Overview

Which wind turbines will power the future Scott Base?

Ross Island, Antarctica is set to receive three new state-of-the-art wind turbines that will power the future Scott Base with more than 90% renewable energy. Three EWT turbines (type DW54X-1MW) have been selected to replace the three existing turbines that supply renewable energy to Scott Base and the neighbouring American base, McMurdo Station.

How many EWT turbines are there at Scott Base?

Three EWT turbines (type DW54X-1MW) have been selected to replace the three existing turbines that supply renewable energy to Scott Base and the neighbouring American base, McMurdo Station. The new turbines are scheduled to sail south to Antarctica in the summer of 2023/24.

How much power will the new Scott Base generate?

“One of the new turbines will generate almost as much power as the three current ones combined and, together with a battery storage system, will provide more than 90% of the electrical demand of the new Scott Base per year”, she says.



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[Analysis of the Use of Wind Energy to Supplement the Power ...](#)

We then used NREL's Hybrid2 power system modeling software to analyze the potential and cost of using wind turbine generators at the two aforementioned facilities. Unfortunately, the power ...

[Island base station wind and solar hybrid power supply system](#)

The 10kW pitch controlled wind turbine that supplies power to the mobile base station on Cheniushan Island has already provided more than 10000 kWh of green electricity to the load ...



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