SolarMax Energy Systems

Base station wind power supply replacement continues

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.

What is the wind energy end-of-service guide?

The Wind Energy End-of-Service Guide is intended to give a foundational understanding about what happens to wind turbines and related infrastructure when a wind energy project is repowered or decommissioned.

What is repowering a wind turbine?

Repowering describes the retrofitting or replacement of wind turbines either in part (partial repowering) or in full (full repowering). It is a decision that is initiated by a project's owners and involves replacing older components with new technology rather than fully decommissioning (or removing) an existing wind energy project.

How many wind turbines have been repowered?

So far, more than 14 GW of U.S. projects have already been fully or partially repowered with analysts expecting an additional 16 GW of full or partial repowers through 2026. How long do wind turbines last?

The expected service life of wind turbines is approximately 30 years.

Do wind turbines need to be repowered?

While some of these wind turbines are newly installed, others are part of an aging fleet that is coming to the end of their expected design life and will need to be partly or fully repowered to extend their life or be decommissioned (which removes a wind energy project and involves land restoration).

Base station wind power supply replacement continues

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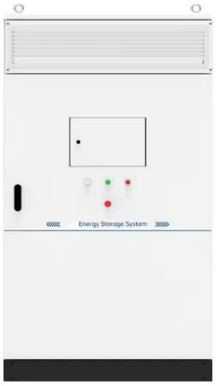

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