

## SolarTech Power Solutions

# Wind power generation intelligent control system



## Overview

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Next-generation wind turbine control systems are evolving with intelligent automation, predictive monitoring, and grid-aware design to drive efficiency, resilience, and sustainability in the clean energy transition.

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This evolution calls for next-generation wind turbine control systems—a fusion of intelligent automation, digitalization, and adaptive control technologies. Wind turbine control systems serve as the central intelligence of each turbine, managing functions such as blade pitch, yaw adjustments.

Reliable wind turbine control systems and SCADA systems to enhance operation at an individual turbine or an entire wind farm. Emerson brings proven expertise with control designs for 350+ turbine models and 65,000+ installations across 50 countries. Our 40+ retrofit kits for leading OEMs - like GE.

Advanced wind turbine controls can reduce the loads on wind turbine components while capturing more wind energy and converting it into electricity. NREL is researching new control methodologies for both land-based wind turbines and offshore wind turbines. At the National Wind Technology Center.

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### Contact Us

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