

Emerson Revitalizes Fuhrländer MD70 with Wind Turbine Retrofit Solution

RESULTS

- Fast plug-and-play installation completed in only three hours
- Increased Annual Energy Production (AEP) through enhanced processing power
- Lower commissioning costs and simplified hardware replacement
- Future-ready solution for thousands of similar turbines worldwide



APPLICATION

Wind turbine retrofit of a 1.5 MW Fuhrländer MD70

CUSTOMER

European-based wind turbine operator with multiple MD70 units

CHALLENGE

Thousands of MD70 turbines are installed across Europe and China. Many are operating with outdated control systems and electronics, limiting performance and increasing maintenance costs. The operator needed a modern, cost-effective retrofit solution that could be installed quickly and deliver measurable performance improvements.

SOLUTION

Emerson collaborated with the turbine operator to install and test a new Ovation wind turbine controller in one of its MD70 turbines.

The solution included:

- Ovation controller installed in the nacelle. Designed for fast plug-and-play replacement of legacy systems, the controller offers more processing power to increase AEP and supports grid measurement per IEC61400-21.
- Ovation displays installed in the nacelle and at the tower base for enhanced visibility and control.

The installation was completed in only three hours, with full commissioning completed in less than a week. The success of the project demonstrates the scalability and efficiency of Emerson's wind turbine control solution.

"Our hardware team has really done a superb job with the new Ovation™ controller. It only took 3 hours to install the new controller. All we had to do, hardware wise, was to disconnect the old controller and plug in the new one, and commissioning was carried out in less than a week."

Ole Binderup
Director Renewable R&D, Emerson

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