

Decommissioned NEG Micon NM48 Wind Turbine Revived with Emerson Retrofit Solution

RESULTS

- A worry-free, easy-to-monitor solution
- Predictive maintenance and 24/7 remote monitoring
- Full documentation, support, and spare parts access

APPLICATION

Wind turbine retrofit of a refurbished 600kW NEG Micon NM48 turbine

CUSTOMER

US-based wind turbine rebuilder and reseller

CHALLENGE

The customer of a US-based wind turbine refurbishment company was building a new production facility powered by solar and wind energy. The end customer needed a durable, low-maintenance wind energy solution that could be easily monitored and maintained without requiring full-time on-site staff.

SOLUTION

The wind turbine refurbishment company partnered with Emerson to implement a full control system retrofit. The solution included:

- Replacement of the existing TAC I control system with a new Ovation™ WP100 Controller. This reliable automation platform is designed for retrofit applications, offering robust performance, remote access, and compatibility with legacy turbine hardware.
- Ovation Green Wind Condition Monitoring Solution: Enables real-time vibration and temperature monitoring of key components such as gearbox, generator, and main bearing, allowing for predictive maintenance and early fault detection.
- Ovation Green SCADA: Provides a cloud-based interface for 24/7 remote monitoring, performance analytics, and alarm management.

Retrofitting older wind turbines with modern control systems is essential to reduce risk and ensure long-term viability. The NM48 wind turbine retrofit not only brought the turbine back to life but also safeguarded the asset for years to come.

The retrofit solution ensures:

- Long-term availability of spare parts
- Scalable monitoring and maintenance capabilities
- Reduced operational risk and downtime
- Enhanced energy performance and sustainability

LEARN MORE



[Ovation Green](#)



“Our customers manage only one or two wind turbines – they are not turbine specialists. They need expert support, durability and excellent up-time without full-time staff on site. The new Internet-based controllers and wind condition monitoring solution from Emerson fit the bill perfectly.”

-President, US-based wind turbine refurbishment company

OVATION™

EMERSON™