



Optimized Power Solutions for Wind Turbine Pitch Drive Systems



Company

Kama Resources

Location

Jaisalmer, Rajasthan, India

Product

XTV1272F2FR-WT

Installation Date

Feb. 2024

Application

Wind Turbine Pitch Drive
Backup Power

In the operation of wind turbines, pitch drive systems play a critical role in maintaining safe and efficient turbine performance, particularly during grid fluctuations or emergencies. These systems rely on a stable and reliable power source to adjust the turbine blades for optimal operation and safety. Suzlon India, a global leader in wind turbine manufacturing, faced challenges in meeting the demands of high-cycle discharging, extreme climate adaptability, and high-vibration conditions. They required a battery system that could address these challenges while ensuring operational safety and efficiency.

As a trusted partner, Kama Resources analyzed Suzlon's specific needs and recommended CSB's XTV1272F2FR-WT battery. This model stood out for its highly efficient cyclic discharge capabilities, exceptional vibration resistance, and reliable performance under extreme temperatures. To further enhance performance, CSB's technical team optimized the battery's design based on the specific requirements of wind turbine pitch drive systems, ensuring it seamlessly integrates into demanding environments.

Through the successful implementation of this solution, Suzlon has achieved significant improvements in equipment stability, reduced maintenance frequency, and lowered operational costs. Suzlon stated: 'CSB's XTV-WT series batteries have exceeded our expectations for high performance and stability. Their exceptional reliability under extreme climates and complex applications has been truly impressive. Additionally, CSB's technical team provided tailored support that gave us confidence throughout the process.'