

ONSHORE RELIABILITY AND CMS

RES has been at the forefront of the wind energy industry for over three decades, involved in projects from inception to generation, with the capabilities to develop, design, construct, finance and operate wind farms, both onshore and offshore. Our asset portfolio of over 1300 MW of wind farms in the global market provides industry-leading experience and an unrivalled track record. Our in-house developed diagnostic resources are built based on this experience and provide us with efficient tools we need to minimise lost production, ensure continued operational compliance and increase revenue.

Monitoring assets allows for performance optimization and increases profit by reducing lost production, downtime, cost and risk.



SERVICES

- » Assessment of main component performance and condition
- » Rapid identification of behavioural change e.g. power curve performance and diagnosis
- » Monitoring/ensuring continued compliance with grid and planning conditions
- » Condition monitoring of rotating machinery and tower base using vibration signature analysis
- » Lost production analysis and identification of Energy-Up opportunities
- » Oil particle analysis
- » 24/7 operational control centre for monitoring and control of site work
- » End of warranty condition monitoring
- » In-service inspections on-site to ensure technical excellence
- » Investigating technical risk and commercial benefit of technology upgrades and 'retrofits'



Through accurately assessing the condition of your asset we optimise its performance through targeted maintenance. This preventive and predictive maintenance approach allows early detection of the onset of a failure and thereby minimising the impact by:

- » Reducing lead time for spare parts - reducing downtime and lost production
- » Reducing number and severity of failures, saving cost and allowing in-situ repairs
- » Allowing selection of a low wind period for carrying out works
- » Improving safety - why climb the turbine if you know it is operating well?



WE ALSO PROVIDE:

- » Assessments of OEM software update and monitoring performance following upgrade
- » Reviews of OEM upgrade proposals for effectiveness and longevity
- » Reviews of OEM repair proposals and develop alternative, safer, more cost effective solutions
- » by exploring in-situ repair opportunities, local suppliers, condition based maintenance
- » End of warranty and end of life assessments
- » Structural condition monitoring
- » Review of in-service inspections - observing technicians on-site to ensure technical excellence

RES is unique
in offering a
complete reliability
monitoring service
to its customers.

ABOUT US

RES (Renewable Energy Systems) has developed and/or built over 12 GW of renewable energy capacity worldwide and has an asset management portfolio exceeding 2 GW. RES is active in a range of energy technologies including onshore and offshore wind, solar, energy storage and transmission.



CONTACT US

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