Monitoring assets optimises performance and increases profit by reducing lost production, downtime, cost and risk.

RES has been at the forefront of the wind energy industry for over three decades. We are 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 give us experience and a track record that is second to none. This unrivalled experience and technical expertise, give us the edge over our competitors. And our industry leading, in-house developed diagnostic resources provide us with the tools we need to increase profitability and maintain your asset value.

Our services include:

- Assessment of main component performance
- Monitoring/ensuring continued compliance with grid and planning conditions
- Condition monitoring of rotating machinery and tower base using vibration signature analysis
- 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 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?
RES is unique in offering a complete reliability monitoring service to its customers.

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
- In-service inspections - observing technicians on-site to ensure technical excellence

We are experts in optimising performance through our reliability engineering approach. Our experience gained over 30 years has contributed to achieving our portfolio of over 10 GW capacity - placing RES at the forefront of the renewables industry. We are confident our service will help you to increase profit by reducing lost production, downtime, cost and risk. Get in touch to find out how.