



An integrated suite of wind farm performance and reliability services for your assets.

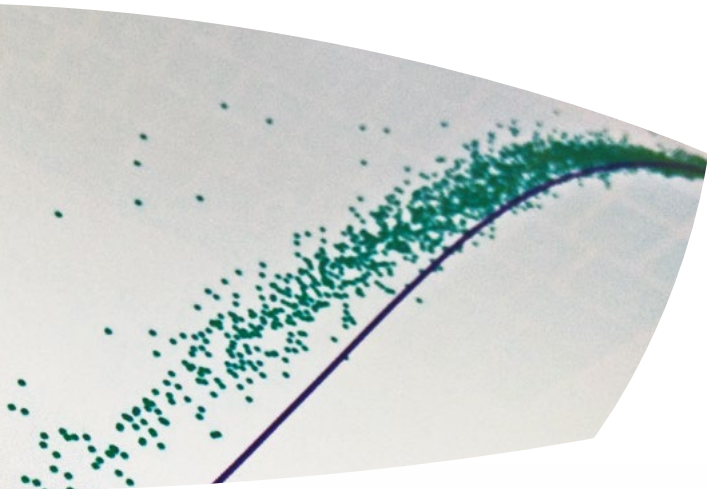
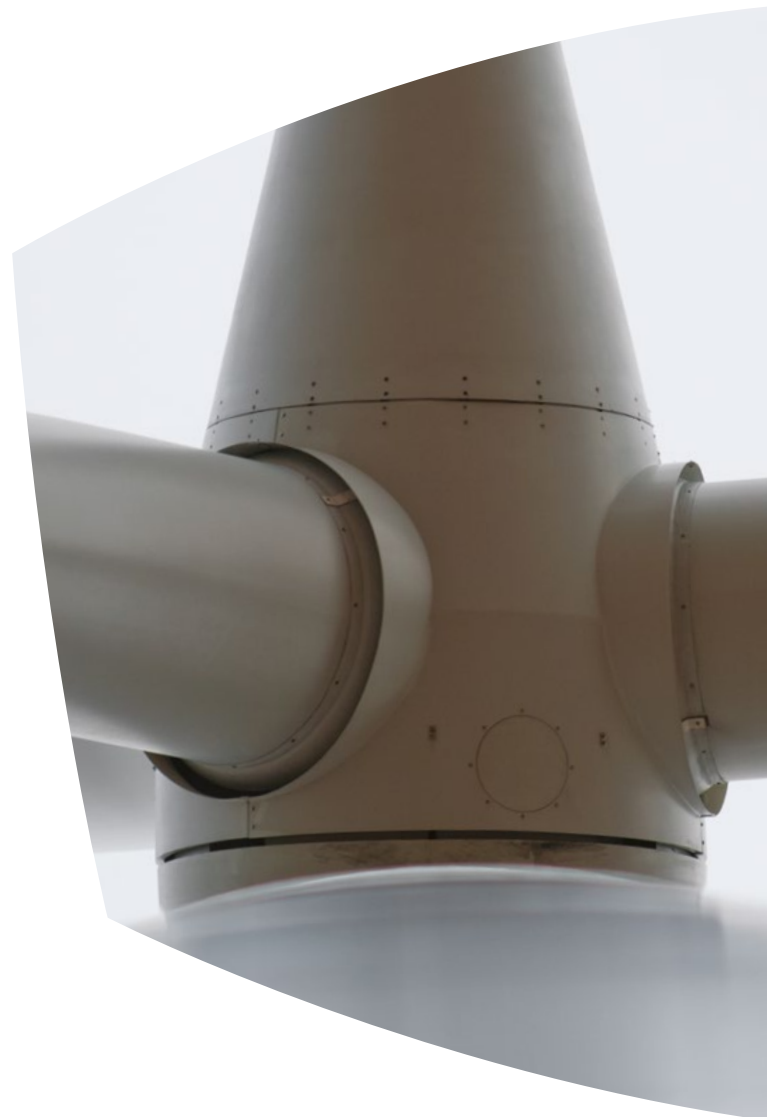
Natural Power's Advanced Performance Engineering Services delivers:

Health-checks & cost of energy optimisation for operational wind farms and portfolios. Based on Natural Power's deep experience and exposure to the realities of wind farm operations, our flexible and integrated suite of Advanced Performance Engineering services are designed to fit with your needs:

- Turbine and component inspections and integrity review services
- Turbine performance bench-marking, analysis and improvement
- Turbine reliability analysis and optimisation advice
- Monitoring of wind speed and flow conditions using cutting-edge turbine mounted lidar technology
- Engineering solutions, turbine set-up optimisation

The opportunity:

- Do you have concerns about your assets performance?
- Are you experiencing extended downtime from your service provider?
- Are you monitoring your assets reliability?
- Have you had several component failures?



13
OEMs
managed

1300
WTGs
managed

140+
wind farms
managed

2.1GW
WTGs
managed



Applications:

- On-going project evaluation and operational management
- End Of Warranty and routine inspection
- Power curve and yaw misalignment analysis
- Periodic performance monitoring
- Root cause analysis and failure investigation
- Due diligence

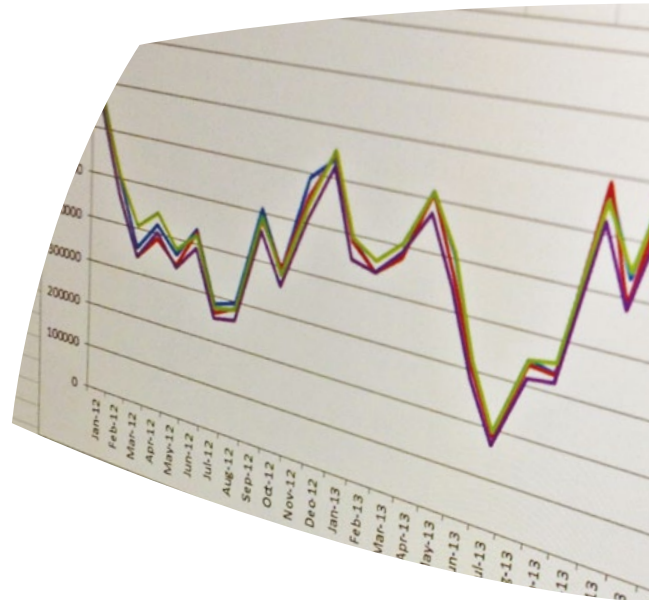
Benefits:

- Increased annual energy yield
- Advanced awareness of potential issues affecting asset performance
- Optimal solutions to maximise performance and reliability, reducing OPEX and minimise unplanned asset downtime
- Baseline and tracking of wind farm performance

Partners:

Natural Power provide an integrated performance engineering service in partnership with the following organisations:

ZephIR Lidar - wind field measurement with turbine and ground mounted Lidar




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