



Natural Power provides a comprehensive wind farm reporting and analysis service on over 35 wind farms. This service takes advantage of a wide range of data sources that are available to us, including turbine SCADA, work control information and site status reporting. Reports are tailored to suit our clients' needs and typically cover weekly, monthly and annual performance reports.

**Reports provided include the following elements:**

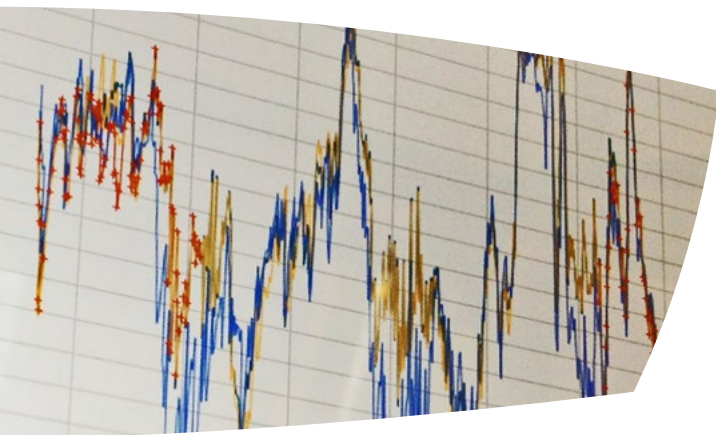
- Generation comparison against budget
- Independent availability calculations
- Availability warranty audits
- Energy and availability loss categorisation
- Operational power curve bench-marking and tracking
- Assessment of curtailment losses
- Wind resource indexing

**Reports are delivered directly by email and made available online through our secure client Portal.**

We are committed to providing direct and comprehensive interpretation of your wind farm performance, and as such our operational analysts are available to discuss project performance with you and your team on an ongoing basis.

Our team of experienced operational wind farm analysts also provide the following services:

- Post-construction energy yield analysis based on operational SCADA data
- Energy budget reconciliation & forecasting
- Performance and reliability monitoring, analysis and management (see separate Advanced Performance Engineering leaflet)



// through careful analysis of our clients' data we can advise on the best opportunities for optimising performance and reducing downtime, helping to achieve maximum revenue from their assets //

**Lauren Wheatley**, Director of Technical





## Data Management via the Real time independent SCADA solution

Natural Power can provide a 3rd party real time monitoring system which sits on top of individual site SCADA systems in order to provide real-time data access. This facilitates independent analysis and monitoring of client sites, integrated into all of Natural Power's other data-oriented services - such as site availability & downtime analysis and ControlCentre.

Natural Power can accommodate most data collection and reporting requirements including:

- Reporting - in general anything that your OEM SCADA does not provide "out the box"
- Monitoring - such as responding to turbine faults within specific timescales
- Data collection - such as substation or met mast sources that are not picked up by the OEM SCADA
- Data manipulation and reporting - such as for PPA compliance or other 3rd parties
- Consistency of user screens across your portfolio

We offer the option of three levels of access:

1. Simple data manipulation and transfer - that can be used for PPA compliance
2. 24/7 monitoring in ControlCentre - the system can be incorporated into screens in the control room, facilitating 24/7 monitoring and including access to all the automated features of the system, such email notifications, data quality alarms, communication alarms, asset condition traffic lighting, etc...
3. Full client access - where the client is provided full access to the system for their own use. This includes training on the User Interface and allows the client to determine their own screen layouts, their own alarming and notification procedures, etc. These alterations can be done either by the client themselves or via Natural Power



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For full details on our ISO and other certifications, please visit: [naturalpower.com/company](http://naturalpower.com/company)