



part of the **Natural Power** group



ASSET MANAGEMENT

We are one of Europe’s leading independent providers of asset management services, operating over 20% of the UK’s current installed onshore wind capacity for both major utilities and independent power producers. We provide award winning excellence in Health & Safety management combined with innovative tools and procedures to ensure maximum efficiency for our clients. The aim is to manage, co-ordinate and control your operating assets safely and efficiently while maximising production.

We offer a full range of services designed to meet the needs of the largest or the smallest wind farm while ensuring a consistency of approach without compromising on health and safety.

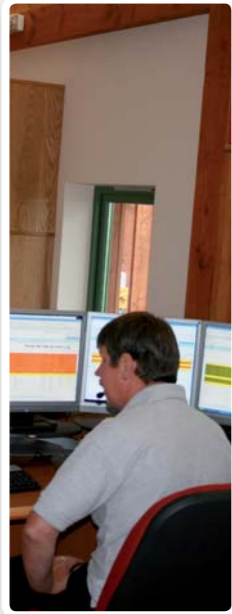
Our site management packages can be split into the following services which are provided either individually or combined in any combination as part of a larger service which we call Total Wind Farm Management.

Our services include:

- **LOCAL SITE MANAGEMENT**
- **REMOTE SITE MANAGEMENT**
- **HV SYSTEM MANAGEMENT**
- **WINDCENTRE - OPERATIONAL CONTROL ROOM**
- **MELOGALE - PERFORMANCE REPORTING AND ANALYSIS**
- **BACK OFFICE SUPPORT**
- **GRID TRADING NOMINATIONS**
- **H&S CO-ORDINATION**
- **STAKEHOLDER MANAGEMENT**
- **MARINE CO-ORDINATION**
- **HABITAT & REINSTATEMENT PLAN MANAGEMENT**
- **O&MS STRATEGY**



WE PROVIDE ASSET MANAGEMENT SERVICES FOR OVER 900 MW, REPRESENTING 20% OF THE UK INSTALLED ONSHORE CAPACITY



LOCAL SITE MANAGEMENT

Our site managers are the owners representative on site. They are responsible for providing you with:

- Weekly and monthly site inspections with reporting
- Planning maintenance activities
- Managing maintenance budgets and procuring services
- Managing health and safety including site inductions and frequent dip checks
- Controlling and initiating work
- Ensuring all operations on site are performed to the highest operational logistical, health and safety standards
- Short notice standby response to site

Where the site owner requires short notice response to site and local presence we will recruit a wind farm manager to be located typically within 1 hour of the site. Where there are a cluster of sites this service can be provided on several sites by the same manager dependent on the size of wind farm. The local site manager typically works within Natural Power's own systems (WindCentre, HV management etc.) or within those of the client where the client has their own centralised resources.



REMOTE SITE MANAGEMENT

Remote site management services are provided on smaller sites, typically of 6 turbines or less where activity on site is limited and would not justify a local manager. This service is provided from regional offices. The remote site manager will typically be responsible for:

- Monthly or Quarterly site inspections with reporting
- Planning maintenance activities
- Managing maintenance budgets and procuring services
- Auditing / Managing Health and safety
- Controlling and initiating work
- Ensuring all operations on site are performed to the highest operational logistical, health and safety standards
- Response to site as reasonably practicable



HV SYSTEM MANAGEMENT

Natural Power are experts in the management of wind farm High Voltage (HV) systems and currently do so at voltages up to 132kV. We have wind farm managers and technicians trained to SAP level throughout the UK, certified and authorised to switch, isolate and earth HV equipment on specific wind farm sites, preparing permits to work, ensuring the safety of contractors and ensuring your wind farm HV network remains safe, secure and operational. We will typically commit to an emergency response to site within 4 hours of any HV network outage minimising the downtime and significant loss of revenue often associated with a grid outage.



WINDCENTRE - OPERATIONAL CONTROL ROOM

Our operational control room, WindCentre™, is an industry leading innovation. It performs monitoring and communication services across our UK site management portfolio through a telephone and secure web accessed database. The operational controllers who man the control room provide the site managers and contractors with support and cover from 24hrs per day, 365 days per year.

All activities take place under an ISO 9001:2000 approved quality system. Our work control systems have been constructed from our real world experience of operating wind farms for large utilities and independent power producers. As a result you can be assured that we will control work in line with best practice protecting both your assets and your reputation.



MELOGALE - PERFORMANCE REPORTING & ANALYSIS

Performance analysis is an essential part of wind farm operational management. We use our Melogale™ analysis tools to provide the owner with monthly reports compiled through independent analysis of operational logs and raw SCADA data.

Our independent conclusions on site performance are produced against analysis of the available wind resource in the month to help you understand the MWh performance of the site in the context of captured energy as well as the availability of the turbines, grid and other limiting factors. We also classify where each period of turbine downtime occurred at turbine system level, and to what cost in lost production.

Through our monthly analysis we build an independent database with a full history of site performance which we make available to the owner through a secure web interface. We can draw independent conclusions on site performance against the available wind resource in any period and classify where each period of downtime is attributed, in line with any availability warranty, to assist in warranty claim or performance reward negotiations.

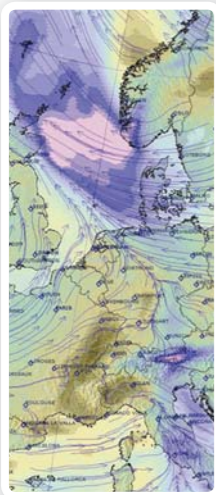
This service works particularly well where we are involved in the management of the site through WindCentre ensuring we obtain a fully independent operational, access and handover history for each wind turbine to assist in classification.



BACK OFFICE SUPPORT

Natural Power can manage the full extent of back office functions in relation to the wind farm including:

- Management of the bank Account
- General Purchasing and Invoicing
- PPA invoicing
- ROC / LEC Registration
- Community Benefit Payments
- Facilitation and management of HAZID and Risk Assessment processes



GRID & TRADING NOMINATIONS

Accurate prediction of wind farm output in longer prediction windows is becoming increasingly more feasible as systems and techniques improve. Our analysts can link our specialist tools and services:

- WindManager™
- Foresite™
- WindCentre™

We combine these services to give an accurate prediction of wind energy output based on weather forecasts and maintenance schedules with live monitoring of turbine shutdowns and unexpected maintenance events and to deliver your traders with the most accurate forecast possible of future production levels. Furthermore, where Natural Power manage the site we can take action to maximise production (for example, by re-scheduling maintenance) where the penalty for being short on predicted output levels is at a significant level.

O&MS STRATEGY

Developing a strategy for operation and maintenance is an integral part of the design of a project. Our experience with vessels, the issues of access as well as offshore operations enables us to assess the alternatives and advise clients on the most reliable and cost effective solutions.

Natural Power offer complete O&M support services to assist clients in keeping their assets operating, improving performance, meeting regulatory compliance issues, and improving the bottom line

- Project Management
- Marine management and co-ordination
- CDM co-ordination
- Maintenance management and scheduling
- Scheduling of works around weather windows

We undertake management of planned and unplanned maintenance and inspections offshore, including cable repairs and major component replacements. Our team of professionals are assisted by our monitoring and project management tools.



Offshore these services are provided in partnership with SeaRoc, part of the Natural Power group





H&S CO-ORDINATION

We provide qualified and experienced personnel with detailed knowledge of land and marine legislation and current best practice guidelines. We specialise in Health & Safety Executive (HSE) management of onshore and offshore projects and are well placed to manage construction, operations and routine maintenance. Our HSE professionals have extensive experience working onshore and offshore and can support clients with:

- Preparation of safety management systems
- Review and gap analysis of existing safety management systems
- Preparation or review of method statements
- Compilation and audit of existing documentation to ensure regulatory compliance, including Construction Design and Management (CDM) compliance
- Training and system deployment including WTSR and HV rules
- Site induction programmes
- Internal Health and Safety audits prior to audit by certifying bodies
- Contractor competency assessments
- Facilitation and management of HAZID and Risk Assessment processes

Natural Power provide professional HSE co-ordination customised to suit client and project requirements that reflects legislative compliance and industry best practice:

- Barge / vessel - operations managers / supervisors competence training
- Barge / vessel - general crew competence training
- Executive level training - overview or more specific training for each aspect including due diligence, QHSE and technology
- CDM 2007 - overview and awareness training

We offer flexible onsite or remote co-ordination to help build a robust health and safety culture on the project.



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STAKEHOLDER MANAGEMENT

We firmly believe in the benefits of undertaking early and comprehensive stakeholder consultations. Beginning this process early enables relationships to be established between interested parties and the full scope of the proposal to be discussed and understood. This enables views to be considered and where necessary addressed within the design and mitigation proposals. This process is equally applicable to both statutory consultee and non-statutory stakeholder engagement.

We have extensive experience of conducting and participating in public consultation events for renewable energy projects from FIT to large scale Section 36 projects. We work within the requirements of local and/or national consenting authorities across the UK to ensure requirements such as the TCP(S)A 'Pre-Application Consultation' are fulfilled and reported. This would include, but not be limited to, community council consultation, public meetings, production of questionnaires, web site design and management, exhibitions and on-going communication with stakeholders throughout the life of the project.

We can tailor our involvement in the stakeholder exhibitions to your requirements; from production of illustrative material and information packages, to the provision experienced and informed staff on the day to a comprehensive and inclusive event management package.



MARINE CO-ORDINATION

We provide mariners to co-ordinate all offshore vessel activities, act as client supervisors and ensure that activities are carried out in accordance with documented policies and procedures, industry best practice and legislative compliance. Our Marine Co-ordinators have detailed knowledge and experience of managing offshore activities and associated Health and Safety responsibilities, which include:

- The use of advanced Marine Management software
- Tracking of personnel across site including associated certification and issuing of site passes
- Management of the induction and safety briefing process
- Oversight of marine operations
- Acting as a focal point for the Emergency Response Cooperation Plan (ERCOP)

Natural Power have extensive project experience in managing and analysing geospatial and non spatial data including UK Round 1, 2 and 3 wind farms and projects in the wave and tidal sector. Our SeaPlanner offshore renewable site management and GIS applications have been used by project personnel, contractors and OEMs across the sector.

SeaPlanner site management web applications:

SeaPlanner Personnel: a personnel management system incorporating the control of site access, certifications and the monitoring of personnel locations via an automated tracking system.

SeaPlanner Marine: an interactive map application incorporating mission critical real-time data.

SeaPlanner Health and Safety: a risk management and incident and accident reporting module.

SeaPlanner Metocean: a portal for measured and modelled metocean data.

SeaPlanner Document Manager: a comprehensive document repository accessible through the SeaPlanner Marine map application.



HABITAT & REINSTATEMENT PLAN MANAGEMENT

Our Ecology team use traditional and pioneering methods in habitat creation and restoration to promote the ongoing health of the environment, including full NVC community mapping for most habitat types.

This includes:-

- Habitat and Wildlife surveys
- Ecological Mitigation
- Ecology Management
- Habitat Management
- Hydrological Assessment, modelling and monitoring

OPERATIONAL WIND FARMS

PROJECT	LOCATION	MW
Crystal Rig 1 & 2	Scotland	200MW
Bowbeat	Scotland	31.2MW
Edinbane	Scotland	41.4MW
Pauls Hill	Scotland	64.4MW
Rothies	Scotland	50.6MW
Tullo	Scotland	17.5MW
Wern Ddu	Wales	9.2MW
Butterwick	England	18MW

PROJECT	LOCATION	MW
Coldham	England	16MW
Great Eppleton	England	8MW
Haswell Moor	England	12.5MW
Llangwryfon	Wales	9.35MW
Bicker Fen	England	26MW
Red House	England	12MW
Glassmoor	England	16MW
Red Tile	England	24MW

PROJECT	LOCATION	MW
Great Orton II	England	3.96MW
Kirkheaton	England	1.8MW
Langley Park	England	8MW
Trimdon Grange	England	5.2MW
Walkway	England	14MW
Longpark	Scotland	14MW
Broomhill	England	8MW
Burnfoot	Scotland	26MW

NATURAL POWER & REV1 RENEWABLES PROVIDE JOINT ASSET MANAGEMENT SERVICES IN NORTH AMERICA



Natural Power and Rev1 Renewables have fostered a combined management and services client portfolio of 1340MW of wind and solar energy projects. Natural Power's services include 24/7/365 remote monitoring via an operational control room – WindCentre™ – power-production forecasting, SCADA Analysis and HSE Management. Rev1 Renewables is a division of Rev1 Power Services established in 2008 providing skilled turbine technicians and support functions for turbine inspections, maintenance cycle completion and post-warranty operations and maintenance. Rev1's clients include General Electric, Edison Mission Energy, NextEra Energy Resources and Horizon Wind.

This joint services agreement combines Natural Power's in-depth expertise in providing management services on a large fleet of wind projects with Rev1's field service crews and local expertise allowing for a fully independent asset management offering for small and large wind farm owners/operators alike. Furthermore, Natural Power's business model, which combines technical wind resource assessment as well as hands-on operational experience, provides a unique perspective in analyzing operationally 'troubled' wind farms – a strategy already demonstrated across Europe.

ISO CERTIFICATION

Natural Power have established rigorous procedures and work instructions for all aspects of our business. All staff currently work to a list of core procedures for quality & environmental business management. Full details of our integrated QE management system are available on request. The following scopes for ISO 9001:2008 have been achieved, applicable to all our UK operations:

Technical Services UK

Resource management, analysis, modelling and design for the pre-construction phases of onshore and offshore renewable energy projects, including the application of tools and the methods of assessing complex flow environments for wind, wave and tidal environments.

Development Consultancy Services

Project management, consent management, due diligence and consultancy services including initial site feasibility studies, land agreements, management of the EIA process and planning applications, stakeholder consultations, permitting and discharge of planning conditions of renewable energy projects (onshore & offshore wind, wave, tidal, biomass, PV, hydro and associated infrastructure).

Construction & Ecology Management Group

Project management, due diligence and consultancy services (to include pre and post construction phases) for the construction of wind farms and biomass energy projects with associated site investigation services and onshore/offshore ecological services.

Asset Management

Wind farm operational site management.

