



part of the **Natural Power** group



360° DUE DILIGENCE

We offer an independent, proactive assessment of renewable energy projects at all stages of the lifecycle. After more than 15 years experience in the industry, we are proud of our ability to deliver high value advice based on the practical consulting skills at the very core of our business ethos. With an international team of experts Natural Power can react to the tight time scales often demanded by due diligence commissions. As a truly multi-disciplinary renewable energy consultancy, we work across all project stage interfaces and are equipped to catch the key interface risks others miss.

Our due diligence services are used by banks, private equity institutions and developers worldwide for project evaluation, financing and risk management.

Our due diligence services include:

- **ENERGY YIELD & UNCERTAINTY ANALYSIS**
- **DEVELOPMENT RISK MANAGEMENT**
- **CONSTRUCTION RISK MANAGEMENT**
- **OPERATING RISK MANAGEMENT**
- **INTERFACE RISK MANAGEMENT**



OUR DUE DILIGENCE EXPERTISE HAS BEEN APPLIED TO OVER 25 GW OF PROJECTS GLOBALLY



ENERGY YIELD & UNCERTAINTY ANALYSIS

Natural Power offer wind resource and energy yield analysis due diligence services:

- Proven finance level wind climate and energy yield studies; energy yield uncertainty analysis and risk review; review of layout and turbine suitability; use of operational wind farm data to address post-construction yield analysis; use of operational and remote sensing data to secure finance for wind farm repowering
- ZephIR wind lidar measurements (easily-deployed bankable measurements up to 200m without a mast)
- VENTOS CFD: Proven, advanced wind flow analysis for complex and forested sites, used to identify site classification issues and to reduce wind resource risk and uncertainty
- Our wind resource and energy yield studies are accepted by banks and financial institutions worldwide for the purposes of financing and evaluating wind energy projects, both onshore and offshore



CONSTRUCTION RISK MANAGEMENT

Our team of experienced engineers can review and assess:

- Ecological planning conditions, Habitat Management Plans, Ecological Risk Assessment including cost provision for site budgets
- Access routes
- Turbine layout
- Grid connection and design
- HV wind farm design
- Ground / Site investigation works to check the adequacy of information to allow turbine foundation and wind farm infrastructure design
- Turbine foundation design and wind farm infrastructure civil design

This is a typical list but can be tailored to client requirements. The risks that are assessed include:

- Health & Safety
- Practicalities / buildability
- Commercial aspects

Additionally, the construction department can review the Turbine and Civil & Electrical contracts or tender documents, together with review technical requirements of any Power Purchase Agreements.

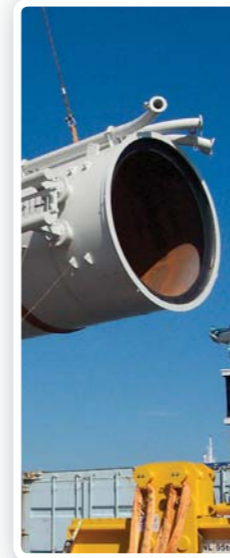
Offshore, we take a lifecycle approach to identification, monitoring, mitigation and management of project risk. Our established systems for risk management assess the physical environment, metocean conditions, marine operation method statements, QHSE procedures, contracts and interface management strategy. We work with clients to ensure that project risk is apportioned appropriately with contractors, insurance underwriters, developers and financiers. Our services include:

- Risk registers
- HAZOP and HAZID workshops
- Tool box talks
- 'Lessons learnt' workshops

Natural Power support clients in the effective management of risk to ensure that projects are delivered safely, on budget, on time and to the required quality standards.



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



DEVELOPMENT RISK MANAGEMENT

Project Feasibility – We have an established and experience consenting team who can undertake comprehensive feasibility assessments of potential projects of any size ranging from FIT schemes to multi MW onshore and offshore projects. We use our experience in consenting, constructing and operating wind farms to identify potential risks to a project before it enters the consenting process.

Environmental Assessment – We use our experience in Screening, Scoping and conducting the necessary surveys to provide a robust impact assessment to support any planning application. We work with clients to ensure that assessments undertaken are tailored to your specific project, the characteristics the receiving environment and the requirements of the consenting authorities.

Consent Management – We work with you through the consenting process to ensure that matters raised by statutory consultees are addressed as they arise. These discussions may result in modification of surveys underway, or be centred on assessments already conducted. If necessary, we will work with you to enable mitigation to be incorporated through site design and construction methods to ensure that the consent conditions for the project provide a financeable, buildable and operable renewable energy project.



INTERFACE RISK MANAGEMENT

To commercially optimise and ensure safe and effective offshore operations it is vital to have a stringent and well planned project. This includes interface management between contractors and other stakeholders engaged in different operations. Natural Power offers a number of services to ensure effective project and interface management covering:

- Interface management and planning
- Communications planning
- Contingency planning
- Division of responsibility
- Integrated scheduling
- SeaPlanner offshore site management tools
- Cost, budget, change and claim management
- Construction and fabrication supervision and quality inspection

Our offshore personnel are experienced in on-site management and are able to respond quickly and effectively to inevitable project challenges.



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

OPERATING RISKS

Operational wind farms are increasingly being sold and refinanced as they are increasingly perceived as a low risk guaranteed income asset. We provide investors with support in understanding the operational risks associated with that asset and quantifying the technical issues to assist in site valuation.

Typical services include:

- Historical production review and comment
- Revised budgets for future performance based on operational data
- Full review of reported maintenance history
- Detailed investigation of significant engineering / performance issues
- Comment on existing service contracts and future service and maintenance costs
- Comment on existing warranty agreement and claim history
- Comment on PPA operational obligations
- Comment on Grid Connection agreements with regard to effect on operations
- Turbine & Balance of Plant general inspection
- Review of operations planning
- Auditing of existing site management services including H&S compliance

We 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

CLIENT LIST

We provide 360° due diligence to a variety of clients including:

AES	Hg Capital
Allianz	HSH Nordbank
Bank of Ireland	IIB Bank
BNP Paribas	Infinergy
Calyon (CA)	ING
Climate Change Capital	Intergen
Co-operative Bank	Lazard
Dexia	Lloyds Banking Group
DIF	NGE
Electrabel-Suez	One51
Element Power	Renergys
Eneco	Royal Bank of Scotland (Ulster Bank)
Energia	SaarLB
ESBi	Sabancı-Enerjisa
FIM	Santander (Alliance and Leicester)
Fortis	Triodos Bank
Gaz de France	Viridian
GE Capital	WDFM
Good Energy	

ISO CERTIFICATION

Natural Power has 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 for 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 surveys.

Asset Management

Wind Farm Operational Site Management