



WIND ENERGY

BMT Cordah Limited

We are an UK based environmental management consultancy with nearly 30 year's experience in environmental impact assessment, monitoring, management, contingency planning and training. We have first-hand knowledge of the environmental impacts, risks and mitigation requirements of both offshore and onshore installations, as well as the varied technologies employed in the terrestrial, coastal, onshore and offshore marine environments. BMT Cordah is a wholly owned subsidiary of British Maritime Technology Limited, a world-wide group of specialist companies, with expertise in areas including marine and industrial design, naval architecture, engineering, modelling and risk management. As part of the BMT Group, BMT Cordah has access to an unrivaled pool of expertise.

BMT Cordah's Capabilities

- Environmental impact assessment (EIA);
- Socio-economic assessment;
- Environmental surveys in the terrestrial and marine environments;
- Long term environmental monitoring;
- Feasibility, wind flow and wind turbulence studies;
- Environmental risk assessments;
- Environmental regulation and compliance;
- Pollution prevention and control;
- Consent management and application support;
- Environmental training;
- We can provide specialist staff for secondment into operating and contracting companies.

Environmental Impact Assessment

BMT Cordah has undertaken over 40 EIAs and contributed to many more. These have included offshore installations, wind farm, energy from waste plants, biomass plants, hydro-power schemes as well as port and harbour related projects. We can work in a full range of environments including terrestrial, coastal, nearshore and offshore marine environments.



Consents Management

Consents and the associated procedures for wind energy developments can be complex, particularly for offshore and coastal projects. BMT Cordah has managed the consent stage of projects including full EIAs, and applications under the Food and Environmental Protection Act (FEPA). We have worked with a number of statutory bodies including the Crown Estate Commissioners, Department of Trade and Industry, and Maritime and Coastguard Agency, as well as the environmental and nature conservation agencies in the UK and Ireland.

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Offshore Operations

Environmental impact assessments for offshore installations have included studies of platforms, pipelines and cables. We have looked at effects on the benthos and water column; interactions with fishing activities and shipping lanes; and the likelihood and consequences of accidental events. We are experienced at undertaking consultations with the Crown Estate Commissioners, Joint Nature Conservation Committee, Fisheries Research Services (Marine Laboratory, Aberdeen), the Centre for Environment, Fisheries and Aquaculture Science, and other bodies involved in approval processes.

Risk Assessment

Identifying risk and advising on its management are central to much of BMT Cordah's work, from project design through to mitigation of risk on existing projects. For any project, assessment of its associated environmental risk at an early stage is vital if effective risk management is to be built into the project design. BMT Cordah can offer predictive software tools that can help with risk assessments and the subsequent decision making process.

Feasibility, Wind Flow and Wind Turbulence Studies

With skills including engineering, hydrogeology, and environmental law, we can evaluate the feasibility of projects from an environmental perspective. In addition, we can model wind flow over complex terrain using advanced computer models (Flowstar), without the delays often associated with field data collection. Predictive models can be used to provide data on likely wind speeds, directions and frequencies at proposed sites. This assists assessment of site suitability early in the planning process.



Selected Experience of BMT Cordah

- Scoping study and environmental impact assessment of extension to existing windfarm site (2002);
- Environmental impact assessment for a 34-turbine wind farm (2001/2002);
- Environmental impact assessment for over 40 major offshore installations, including platforms, pipelines and cables.

Selected Experience within the wider BMT Group

- Strategic EIA for offshore wind energy projects throughout the UK, advising DTI on the future development and consent framework for this industry (BMT Murray Fenton);
- Assessment of the effects of offshore wind energy developments on navigation and commercial shipping (BMT Murray Fenton);
- Assessing the effect of marine structures on other users including: shipping lanes; safety provisions for ships; fishing vessels; and loss of fishing effect (BMT Murray Fenton);
- Long-term measurement and analysis of wind characteristics to assess viability and design of a major wind farm project in East Cornwall (BMT Fluid Mechanics);
- Research on support structures for offshore wind turbines, physical model testing and design (BMT Fluid Mechanics);
- Wave loading models for offshore wind turbines (BMT Fluid Mechanics).

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