



Natural Power's team of environmental, planning, geotechnical and geological experts provide our clients with specialist, well respected and practical advice to ensure environmental compliance with their projects.

Our experience includes onshore and offshore wind, hydro schemes, large scale grid, gas pipeline, other infrastructure projects and forestry.

The team has fulfilled the roles of Environmental Manager, Environmental Clerk of Works (ECoW) & Planning Monitoring Officer (PMO).

The use of people with experience of working on construction projects ensures pro-active problem solving is key to Natural Power's service.



A selection of environmental construction services provided by Natural Power:

Pre-construction

- ITT support - providing clients with high level documentation and advice to support their tendering process
- Production and review of environmental documentation (hierarchical structure - PEMP, CEMP, technical appendices for individual work areas)
- Pre-construction, environmental and geotechnical surveys
- Drainage design
- Environmental licence application

Construction

- Site based support - multidisciplinary team comprised of Environmental Manager, ECoW and PMOs
- Environmental Manager - lead role responsible for coordinating delivery and technical support
- ECoW - site based team responsible for providing environmental advice and ensuring works are compliant with consents, environmental licenses and statutory obligations
- PMO - monitor compliance with consent conditions
- Specific ecology surveys and pre-works checks ahead of works taking place
- Completion of site based audits - drainage, noise, ecology, waste etc.
- Environmental monitoring and reporting - consent compliance, ecology, water, noise, waste etc.

Project completion

- Sign off and reinstatement inspections
- Final handover of documentation to employer
- Final audit - compliance with legislation, planning conditions, as built

// we take a pragmatic and innovative approach to delivering solutions to enable the progression of construction whilst ensuring compliance with planning and legal requirements //

Chris Pendlebury, Director of Planning and Environmental





Case Study 1 **Caithness to Moray HVDC Interconnector**

Natural Power was appointed as the environmental consultant on behalf of ABB (the principal contractor), and was responsible for providing environmental manager and environmental advisor support on the Caithness to Moray HVDC Interconnector. Services included the provision of pre-construction ecological and environmental surveys to inform the mitigation and environmental management documentation. The environmental manager would provide an auditing role and liaise directly with the principal contractor's project manager and the employer's environmental manager. The environmental advisors were responsible for liaising with site based staff and for carrying out frequent checks to assess compliance of the works against the environmental documentation and legislation. Through integration with the multiple project teams, Natural Power was successful in maintaining open and pragmatic dialogue that ensured the successful delivery of the works.

Case Study 2 **Cluden to Brighouse Bay Gas Pipeline**

The project consists of approximately 50 km of pipeline that was being constructed as part of the second Scotland to Ireland gas interconnector. Natural Power was appointed to carry out an assessment of private water supplies. Over 100 properties were consulted in order to confirm their water supply arrangements. A series of site inspections were undertaken to confirm the supply conditions and to collect baseline water samples in accordance with the Microbiology of Drinking Water (2010) [Part 2] Practices and Procedures for Sampling and the Private Water Supplies: Technical Manual. The risk assessment was completed using the Source-Pathway-Receptor model and considered the extent and type of works taking place as well as the environmental context. Natural Power worked closely with the Principal Contractor to provide practical recommendations for environmental management and mitigation requirements.



For full details on our **ISO** and other certifications, please visit: naturalpower.com/company

Case Study 3 **South West Scotland Interconnector**

The project covers the up-grade of 46km of overhead transmission line in south west Scotland. The environmental advisor role undertaken by Natural Power incorporated; pre-felling surveys for protected species, licence applications for European Protected Species (EPS), groundwater dependent terrestrial ecosystem assessments, fisheries liaison, hydrological monitoring, the production of CEMPs, and full-time environmental clerk of works. Natural Power also provided services to the principal contractor and other tier one contractors for the delivery of this transmission up-grade, ensuring cross-party working to successfully deliver the project to budget, to required timescales and with clear environmental benefits.

Case Study 4 **Beaulieu to Denny - Forth Bank Loop**

Natural Power was commissioned by the principal contractor to produce a hydrogeological conceptual assessment (HCA) of the Forth Bank Loop, formerly known as Borrowmead Landfill. The HCA provided a high level geo-environmental assessment based on the hydrogeological and contaminated land conditions that may be present in the subsurface of the site and was compiled using third party site investigation findings, online data information sources and details assimilated through the conduction of a site walkover survey. The purpose of the HCA was to provide information ahead of horizontal directional drilling which will be advanced under the River Forth as part of the cable burying of the existing overhead lines for the Beaulieu Denny Grid Connection Project.

