

Natural Power Tralorg Case Study



Project:	Tralorg Wind Farm
Client:	Brookfield Renewable UK Limited
Dates and duration of contract for Project:	January to April 2016
Project Description:	Up to 20MW, 8 WTG, Tralorg Hill, near Girvan, South Ayrshire The project was awarded a Contract for Difference (CfD) in the round one auction
Services Provided:	Natural Power has undertaken pre-construction phase services to fulfil the Stage 1 Owners Engineer and associated services contract. These services have included; <ul style="list-style-type: none">→ Intrusive Geotechnical Site Investigation→ Initial outline design→ 3D site design (full site and access track)→ Planning condition discharge→ Principal Designer under the CDM 2015 regulations→ Project Safety Review→ Balance of Plant contract procurement services→ TSA contract review→ Discharge of planning conditions

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Added Value:

- Natural Power provided a bespoke contractor designed site investigation programme to meet the requirements of Eurocode7, turbine designers and all major turbine manufacturers. All works were carried out in-house to ensure direct control of site operations and quality management.
- Natural Power completed an aerial imaging survey of the site using our 'Trimble UX5' system, in place of traditional survey methods. The system captured terrain data and high resolution aerial imagery simultaneously over the course of a single day. The entire development area was surveyed, to facilitate any scenario within the re-design micro siting work, without any increased cost to Brookfield.
- Natural Power reviewed and reported the Site Investigation (SI) information in real time to allow key decisions to be made during the SI phase. At one location, we carried out additional borehole drilling after an unexpected depth of superficial deposits was identified. This ensured sufficient design information was provided without the need for costly remobilisation for additional works at a later date.
- Natural Power provided dedicated Principal Contractor services for the duration of the site works, ensuring the client fulfilled their statutory duties under the CDM regulations.
- The project management and outline design process were simplified by using Natural Power's in house capabilities. The design iterations could be easily reviewed by each technical discipline resulting in a practical and viable approach to overcoming any constraints. The final design was therefore the best balance of construction, environmental and planning factors. All risks could be clearly discussed and effective mitigation agreed throughout the design process, coordinated by the Principal Designer and documented in a HAZARD register.
- Drawing on the capability and experience of our wider multidisciplinary team, Natural Power has supported Brookfield through the duration of the contract, providing additional services such as electrical and grid support services using in-house resource.

