

Case Study

AN **idom** GROUP COMPANY

Project

Llynfi Afan Renewable Energy Park

Date

2014

Client

Gamesa Energy UK Ltd

Budget

£137,000 (fees)

Contractor

In house / Apex

Architect

N/A

Project Management

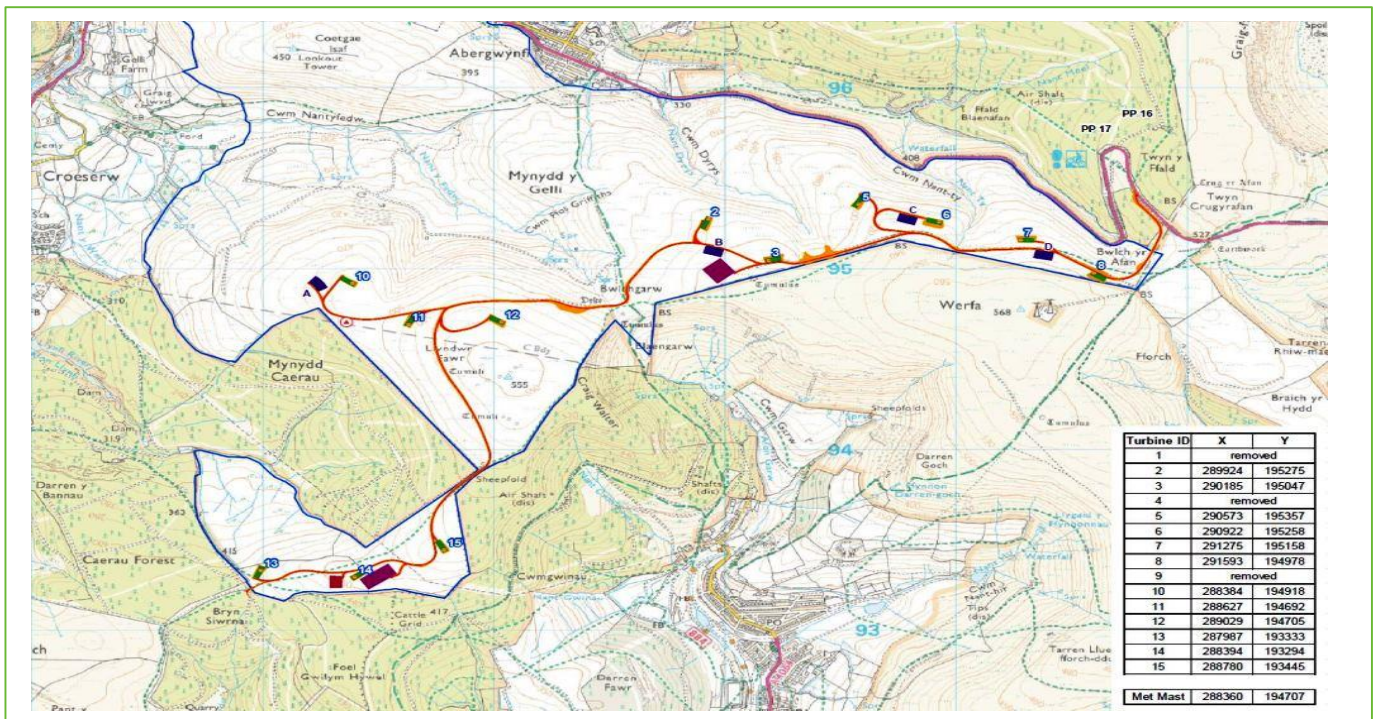
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Overview

Gamesa Energy UK Ltd propose to develop a 24 MW wind farm project comprising 12 No. 87m high turbines, a met mast and sub-station on Mynydd y Gelli, Abergwynfi, South Wales. The scheme also includes the excavation of 4 borrow pits to provide aggregates for road construction, crane and blade pads and concrete production.

Services provided

- Topographic survey:
 - A full topographical survey of the site and the abnormal route access road through the neighbouring forestry was undertaken. Results were produced in 3D format with at a metre grid accuracy.
- Geotechnical Investigation for the site comprising:
 - Preliminary desk study, review of existing data, identification of potential natural hazards and a seismic risk assessment.
 - Site investigation:
 - Boreholes at each WTG location, the met-mat, substation and borrow pits
 - Trial pits at; crane pad and platform locations, sub-station, access road, compound and borrow pits
 - Electro potential testing at the substation.
 - Interpretative Report including recommendations for the foundation options, potential for presence of mine-workings and the potential for site won materials to be used during the construction of the works.



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