Project Information:

Blackwell Role:	Main Contractor
Form of Contract:	Fidic Yellow Book
Contract Value:	£3.4M

Blackwell Site Management:
Contracts Manager:
Adam Lane
Project Manager:
Gareth Price

Services Include:
Civil Engineering   **Earthworks**   **Geotechnical**   Remediation   **Electrical Works**

Background:

Blackwell carried out the Full Balance of Plant contract to develop an 8 turbine wind farm at the head of the Rhondda Valley in Wales. Surrounded by forestry to the west, a disused quarry to the east, a ridge to the south and grazing land to the north, the completed wind farm generates a total output of 24MW.

Key Processes:

The main elements of the work included the following:

- The carrying out of geotechnical site investigations, to correctly design all turbine foundations, equipment foundations, access roads and crane hardstandings.
- The design and implementation of off-site enabling works.
- The design and construction of 4km of new site tracks, including crane pads, turbine assembly areas and watercourse crossings.
- The upgrading of 4.5km of existing site tracks.
- The design and construction of turbine foundations and a substation building.
- The provision of culverts and bridges under the access roads and other drainage works to ensure the proper drainage of the site and maintain the existing hydrology.
- The implementation of suitable measures to minimise and monitor the risk of peat slides.
- The design, supply, delivery, construction, testing and commissioning of the substation building and substation compound.
- The laying of cables, including the provision of grid connection cables.
- The design, installation, termination, testing and commissioning of the substation and wind farm MV, LV, power, signal, communication and SCADA cables, cable systems and containment between the WTGs, meteorological masts and the DNO's switchgear.
- The reinstatement and landscaping of the site, including vegetation replacement and reseeding.