

33KV Contestable connection



Tir Mostyn & Foel Goch Windfarm,

To enable the export of 22.5 MW of green energy from Tir Mostyn & Foel Goch windfarm a 33KV electrical connection was required from the SPPowersystems network

The connection was carried out by Powersystems UK Ltd as a contestable connection under the Ofgem competition in connections scheme allowing accredited contractors to compete with the distribution companies to carry out the work. This enabled the costs and timescale for completion to be controlled to meet the project plan.



WIND TURBINES GENERATING WITHIN DAYS OF CONNECTION



SPPOWERSYSTEMS SUBSTATION PROTECTION PANELS

To provide a 33KV supply to the site Powersystems installed 1No 33KV underground cable circuit and a fibre optic pilot cable within the public highway from SPPowersystems Denbigh substation a total route of 13km. The underground installation of the connection eliminated the need for wayleave applications for overhead lines, a political minefield in itself and reduced the overall project timescale.

Within the windfarm substation Powersystems supplied and installed

- u 2 panels of 33kv switchgear
- u Protection panels
- u Battery Chargers
- u 33kv cables
- u Building lighting and power

On completion of the installation the substation equipment was tested and commissioned to the satisfaction of the SPPowersystems Engineers.

The grid connection was completed in 32weeks after award of contract and the windfarm was exporting power within days of the connection being made.



33KV GRID ROUTE UNDER CONSTRUCTION