

The Facts

The existing project - Cwmni Gwynt Teg

Output

The existing project at Moel Moelogan, "Cwmni Gwynt Teg", comprises of two turbines, each capable of producing 1300 Kilo Watts (Kw) of electricity per hour. The amount of electricity produced by wind turbines, in relation to their potential capacity, obviously depends on how windy it is! The average site in the UK produces electricity at a capacity factor of 30%. Since production started in January 2003, the turbines at Moel Moelogan have been producing electricity at an average of 43% of their current capacity for 24 hours per day, 7 days per week - this is the equivalent of producing at full power for 10 hours per day, 365 days per year. The output of the three turbines is equal to the requirement of 2500 homes, or all the farms, homes and villages in the Bro Garmon area, as well as Llanrwst, Betws-y-Coed and Trefriw. A turbine on a typical British site, even operating at just 30% of capacity, will produce double the electricity of the same turbine on a typical German site, yet there are 14,500 turbines in Germany!

The electricity produced from Moel Moelogan goes to the local Llanrwst sub-station 4.5km away and is sold to the Non-Fossil Purchasing Agency (NFPA) - who have half yearly auctions to sell on to the utilities.



The new project - Ail Wynt

Output

The new scheme was originally intended to feature an additional 11 turbines. However the views of some local people and public bodies such as the Countryside Council for Wales (CCW) were taken into account as part of the consultation process, and the plans have been revised to incorporate just 9 additional turbines, within a more compact area and at reduced height. The project must keep within strict noise levels, which will be monitored regularly by an independent authority.

If the UK average on-shore capacity factor of 30% is used, then the new scheme is forecast to produce 30.7 million Kw/h of energy per year, this will provide enough energy for some 7,300 homes (16% of the County). Based on actual figures of 43% capacity from Moel Moelogan, the site is set to produce 44 million Kw/h, which is enough energy for 10,400 homes.

Summary

The winning of the Ashden Awards has already acknowledged the significance and the sustainable nature of this project. That the co-operative was receptive to and listened to the views of the local community was also a major factor in this award. Incisive action must be taken to address the challenges to farming and the environmental damage caused by traditional sources of power generation. Ail Wynt is a natural evolution of the existing and successful Cwmni Gwynt Teg development, and we hope we can count on your support for this project to help benefit the local area and community.



For further information please visit our web site www.ailwynt.co.uk, or download a brochure (available in both Welsh and English Language Versions).



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