

Case Study – DEIF Controller Retrofit

- ❖ Location: Turriff, Aberdeenshire
- ❖ Turbine: Vestas V27 225kW
- ❖ Client: Ewebrae Wind Power Ltd.



Realise Energy Services have partnered with leading European control system manufacturer, DEIF Wind Power Technology, to offer a range of turbine retrofit solutions designed to optimise turbine efficiency, maximise turbine performance and increase production of your wind turbine.

Ewebrae Wind Power Ltd, owner of a refurbished Vestas V27 in Aberdeenshire currently serviced and maintained by Realise Energy Services, opted to swap out the old COTAS control system and upgrade to DEIF's AWC 500 solution for Vestas turbines.

The DEIF solution combines modern fibre optic technology with intuitively designed software to ensure that the turbine is operating at optimum efficiency. The system gives operators greatly increased remote access to manage parameters and settings within the turbine, allowing our experienced engineers to make regular adjustments to pitch and yaw settings to maximise the unique site specific conditions.

Utilising a modern infrared wind sensor and yaw counter (supplied with the DEIF controller), the turbine can better assess the wind resource and, as a result, position itself more accurately into the wind. For a low wind

speed site such as Ewebrae, this has allowed the turbine to make the most of the lower wind speeds, whilst reducing the chances of faults in gusty conditions.

The DEIF controller can also be tuned to suit sites with high windspeed conditions and is especially suited to minimising cut outs on gusty sites and reducing wear and tear on individual components.

As the authorised UK partner of DEIF Wind Power, Realise Energy Services supplied, installed and commissioned the modern control system, integrating it into the original Vestas components to improve performance and increase operational availability of the turbine.

Since the swap to the new control system, Ewebrae has performed well ahead of the standard Vestas V27 power curve and has demonstrated a noticeable improvement on previous performance.



To find out more contact us on:

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