

Y Bryn Wind Farm Met mast installation



Project overview

Located ten miles east of Neath, Port Talbot in South Wales, Dulas were successfully awarded the opportunity to assist Coriolis with their exciting new weather measurement campaign at Y Bryn Wind Farm; installation of a 90m met tower and its instrumentation.

Implementation

Dulas were instructed to carry out an initial site assessment and worked closely with both Coriolis' Project Manager and Wind Analysts in selecting a suitable location for their met campaign, situated within a challenging clear-fell area of forestry land.

In January 2021, Dulas began the installation of a 90m guyed lattice tower. In addition to erecting the tower, Dulas were also employed to install (and manage throughout the duration of the campaign), a complete weather monitoring and data recording system in full compliance with the latest IEC recommendations.

The monitoring system was carefully designed and manufactured by our in-house technical engineers who used their expertise and knowledge in this field in selecting the highest performance classification sensors, giving Coriolis assurance that their weather data is accurate and a true reflection of the actual conditions encountered on site. Planning requirements also included the installation of bird flight diverters and a bat monitoring system upon the tower.

“Right from the start, Coriolis knew this project would present a number of obstacles during construction and would require a company with a great deal of knowledge, experience and exceptional project planning.”

Trevor Hunter, Coriolis Energy



Groundwork preparation for anchor installation, set within a clear-fell area of forestry land.

Conclusion of project

The installation of this met tower was a huge success. Dulas provided in-house, ticketed plant operators which enabled groundworks to be carried out safely and on time, therefore keeping overall project costs down.

Our experienced team of climbers ensured that the tower was constructed within the client's timescales and in accordance with Eurocode and IEC standards. Upon installation of the complete measurement system, further testing and quality checks were carried out, including data communication to establish that information from all measurement heights was being received and reporting as expected on site.

Dulas worked closely with the landowners to ensure that ground damaged on site was kept to a minimum and that land was fully re-instated following completion of the works and leaving site.

“Having worked with Dulas on similar projects over the years, **we knew we could put our trust in them** once again to manage our requirement of a 90m met mast at Y Bryn.”

Trevor Hunter, Coriolis Energy



Met masts

Developing and operating an investment-grade asset depends on robust, accurate and bankable data.

Proven and dependable data from traditional met-masts have been the cornerstone of the modern wind industry since the late 1980s. Understanding wind flow at different heights using advanced anemometry, is at the core of Dulas's DNA since 1988, when we installed our first anemometer and data logger system at the Cemmaes wind farm, Wales.

Find out more about Dulas's Wind Monitoring turnkey services for met masts at:

dulas.org.uk/wind-energy



Wind speed measurements at various heights above ground level

