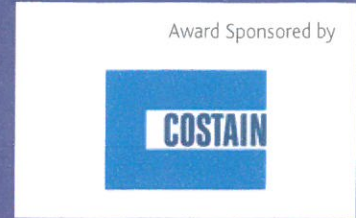


# Project of the Year – Civils

Judges: Mike Edmonds Ioan Prydderch Andrew Wedlake



## Pen y Cymoedd Wind Energy Project

Project Value £56m

This is the largest onshore project in England and Wales. The scheme generates enough electricity to power 188,000 homes.



Balfour Beatty entered into a Joint Venture with Jones Brothers Civil Engineering to design, procure and install the 76 turbine Pen y Cymoedd Wind Energy Project.

50,000m<sup>3</sup> of concrete and 6,000 tonnes of reinforcement were used to construct the 76 turbine bases and crane pads. In addition, around 85km of new tracks were constructed using 700,000 tonnes of rock extracted from borrow pits and 450km of cabling installed. Achieving environmental excellence, waste was segregated for recycling with no waste going to landfill.

All of the team's accomplishments were achieved in a remote, inhospitable and environmentally sensitive landscape. Sustainability and social impact was a key focus. Nine local apprentices were recruited to work on the scheme and over 65% of local labour was utilised from within 35 miles of the site, 92% within Wales.

The environmental regulator considered silt water runoff from the construction works a serious risk to sensitive watercourses downstream. Early engagement with Natural Resource Wales was critical; together the team developed a mitigation strategy. Their pioneering approach incorporated a variety of controls such as publication of a 'Silt Pollution Prevention



Techniques Site Handbook' which was distributed to site operatives as a best practice tool. It resulted in zero pollution events.

This project is located in an area of South Wales offering low social and economic opportunities. Considerable investment by the Client and Jones Brothers Balfour Beatty Joint Venture in the community and local supply chain contributed to economic growth in the surrounding area.

