

Teesside Offshore Wind Farm Northern Offshore Wind

Northern Offshore Wind Limited (NOWL) is a major generator of electricity in the UK. In response to international and national concerns about climate change the UK government is seeking to generate 20% of its electricity supply from renewable sources by 2020. NOWL are proposing to build an offshore wind farm up to 100 MWe (sufficient to generate power for 70,000 homes), consisting of 30 turbines occupying approximately 10km², approximately 1- 1.5km offshore of Redcar.

Entec was engaged to carry out an environmental impact assessment (EIA) for this project, carrying out studies to assess the potential impacts that the construction and operation of the wind farm may have on the following areas:

- Commercial fisheries
- Marine ecology
- Ecology and nature conservation studies
- Marine hydrophysical studies
- Landscape and visual impact assessment
- Shipping and navigation

- Noise studies
- Archaeological and cultural heritage studies
- Socio-economics and social impact assessments.

Entec's environmental specialists are assisting NOWL in applying for the appropriate marine consents to construct and operate an offshore wind farm via the appropriate regulatory channels. Onshore works above mean high water include a proposed electrical substation and cable route which are being considered as part of a planning application to the local planning authority. Entec is managing the application process to meet these planning requirements.

Our environmental specialists prepared cost-effective data collection strategies and interpreted data to develop appropriate and

innovative mitigation; ensuring that the environmental information is effectively communicated to those involved in the decision making processes. Full consultations with marine and coastal user groups and statutory organisations have been carried out to answer questions and concerns and to engage a positive stakeholder interest. Entec has a considerable experience of working with Commercial Fisheries and have carried out a full consultation with the fisheries community to collect information on fishing effort and to deal with concerns.

The skills used by the environmental appraisal team are complemented by other areas of expertise such as contaminated land, regeneration, and development planning, in conjunction with our strong track record of working with a broad range of public and private sector clients

Assessing the environmental impacts of an offshore windfarm in the North Sea at a site off Coatham Sands, between Redcar and the mouth of the River Tees



A computer generated photomontage of the view of the windfarm from Seaton Carew near Redcar

