Temporary Strong Points for Off Shore Wind Turbines

Contract No:	C827
Client:	DONG Energy
Location:	Walney Island, Barrow-in-Furness
Value:	Approximately £503,000.00
Summary:	Installation of Arcelor Mittal AZ Sheet piles to form 2no 'Strong Points' to support a 1300Te Crawler Crane to load tubular mono-piles for off shore wind turbines.

Sheet Piling (UK) Ltd were employed by DONG Energy to carry out the installation of 'Free Issue' Arcelor Mittal AZ sheet piles to form 2no 'Strong Points'. The 'Strong Point' were required to provide suitable access points for 2no 1300Te Crawler Cranes which were required for lifting up to 800Te tubular mono-piles.

The works were completed to form wind turbine foundations for the Walney Off Shore Wind Farm Phase 2. In total 42no pairs of Arcelor Mittal AZ25 and 20no pairs of Arcelor Mittal AZ14 sheet piles, in Grade S355GP Steel, were installed to each 'Strong Point' which were each approximately 21m & 19m on plan.

Prior to installing the sheet piles, approximately 6000Te of quarried aggregate stone was back-tipped for the existing dock to provide a suitable piling platform. Once installed, the sheet piles were tied together using an Arcelor Mittal tie rod and waling beam system.

Each 'Strong Point' was then completed by topping up with stone to tie in with existing quay levels together with bollard installation. Upon completion of the Walney Off Shore Wind Farm, the Arcelor Mittal sheet piles are anticipated to be extracted to reinstate the quay to its original condition.

Project Images