

Case History

Cygnus Electrification Study



Project Description

Sealand Projects completed a feasibility study on the potential to provide carbon abatement to the Cygnus platform in the Southern North Sea through electrification.

The primary focus of this study was the opportunity for collaboration with Offshore Wind Farms within the vicinity, identifying the potential partners, boundaries and constraints in electrical, technical, regulatory and commercial terms.

Services Provided



Package Management



Business Assurance



Carbon Management



Energy Transition



Engineering Design & Analysis



Marshalling, Transport, Installation & Field Support



Floating systems, Towing, Mooring & Hook-up



Visualisation and Digitalisation

Key Facts

Client: Neptune / NZTC

Location: SNS

Water Depth : 25m

Dates: Feb–Aug 2021

Project Reference – P0468



Our Scope

Identification of requirements for the Cygnus platform complex to help facilitate carbon abatement through electrification, considering opportunities with Offshore Wind and emerging technologies.

Collaboration with Offshore Wind Farm developers, transmission owners and supply chain. Engagement with regulators (OGA, TCE, BEIS, LCCC, OFGEN, National Grid) to determine opportunities, boundaries and constraints.

Pre-screen the options identified from a technical, legal and commercial perspective through a Class 5 cost estimate in addition to potential savings in carbon emissions compared against the 'do-nothing' approach.

Consider the implementation and development of emerging technologies and how this could extend the life of the Cygnus platform complex beyond CoP.



Deliverables

- Stakeholder Engagement
- Options Screening
- Scenario Workshop
- Class 5 Cost Estimate
- Full Feasibility Report
- Executive Summary



Renewables



Oil & Gas



Ocean Systems



Pathway to
Net Zero