

CASE HISTORY

Decarbonisation of Offshore Wind Vessel Traffic

Project Description

Sealand Projects were awarded funding from the OWGP to carry out a study that will map out carbon emissions from vessels doing operations and maintenance (O&M) on offshore wind farms.

The objective is to use AIS data to produce a carbon intensity for offshore wind farms and then produce a carbon reduction strategy.

Our Scope

The study looked at the busy months for O&M (April-October) for 2022 and gathering live data from the same period in 2023. The data was processed to present an aggregate carbon intensity figure for each of the windfarms included in the study. The study will include nearby fixed, far offshore fixed and floating windfarms with varying sizes of turbines to compare how they differ in intensity.

The study was a more in depth analysis in to day to day activity of the vessels to highlight any behaviours and elements of the O&M strategy that are leading to hot spots of emissions. Once hotspots and areas of concern have been highlighted, a series of reduction initiatives will be formulated and presented to stakeholders. Following engagement with the stakeholders, a realistic and commercially feasible reduction strategy will be agreed upon and formulated.

Deliverables

Framing Report;
Historical and Live Data Reports;
Carbon Intensity Assessment;
Carbon Reduction plan;
Carbon Mapping Software development.



Key Facts

Client:	OWGP
Location:	UK
Water Depth:	N/A
Date:	Q2 2023 - Q2 2024
Project Reference:	P0874

Services Provided

Package Management

Business Assurance

Carbon Management

Energy Transition

Engineering Design and Analysis

Marshalling, Transport, Installation and Field Support

Floating systems, Towing, Mooring and Hook-Up

Visualisation and Digitalisation

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