

# Case History

## CTV Charging Buoy



### Project Description

The Oasis Power Buoy is an innovative solution for powering Crew Transfer Vessels (CTV) used in operations and maintenance of Offshore Wind Farms.

The Power Buoy uses a direct connection to a wind turbine with subsea cables to recharge any hybrid / electric powered vessels whilst the CTV is on standby in-field.

The system can be retrofitted to existing WTG or incorporated in new designs.

Sealand provided support to Oasis Power to help progress the buoy from a feasibility study to the trial stage.

### 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:** Oasis Power

**Location:** NNS

**Water Depth:** 20-60m

**Dates:** 02/21 – 06/21

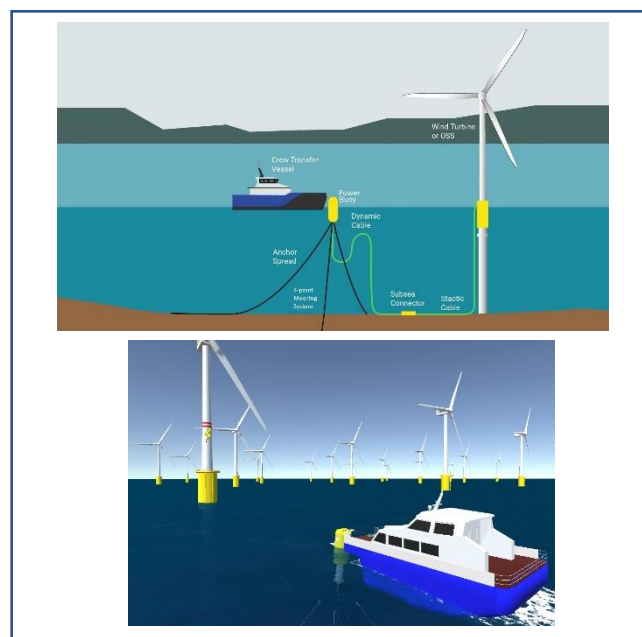
**Project Reference –** P0512



### Our Scope

Oasis Power required support in the following:

- Installation and hook up
- Logistics and Marshalling
- Monitoring and data acquisition
- Dynamic power cable lay analysis
- Mooring system design
- CTV impact assessment on floating unit
- Stakeholder management
- Proto type field
- Dynamic power cable lay



### Deliverables

- Basis of Design
- Mooring Analysis
- Mooring System Design
- Lay Analysis
- Risk Register



Renewables



Oil & Gas



Ocean Systems



Pathway to  
Net Zero