

## 1. General

### 1.1 Introduction

This document defines the technical requirements of the Employer's Requirements for the construction of the Seagreen Offshore Wind Farm O&M Base ("the O&M Base"). The O&M Base general requirements are detailed within Employer's Requirements document "SWEL O&M Base Employer's Requirements – General Requirements" [01]. From here-on within, the Employer shall be referred to as Seagreen Wind Energy Limited "SWEL", and the Contractor shall be referred to as Montrose Port Authority "MPA". The O&M Base Employers Requirements shall be included as a Schedule to the Agreement for Lease (AFL) between SWEL and MPA governing the O&M Base construction.

The O&M Base is to be constructed at Montrose Port and delivered as a comprehensive "turnkey" solution by MPA. The scope of supply includes design, engineering, construction, installation, testing and commissioning of:

- a. A secure Operations Building with an access road and car parking area;
- b. A secure Warehouse;
- c. A secure Pontoon for the berthing of 1 x CTV, which shall enable the safe access for vessel crews and industrial personnel and the loading and unloading of cargo;
- d. Quayside Services to assist the operation of CTVs using the Pontoon;
- e. A quayside Davit Crane to enable the loading/unloading of cargo to/from CTVs using the Pontoon;
- f. A secure self-supporting Communications Mast and GRP Cabin, and;
- g. Perimeter fencing around the facilities with PAC access powered gates, a manual gate and a CCTV Security System.

### 1.2 Seagreen Project Overview

The Seagreen Offshore Wind Farm (Seagreen) will be located 27km (at its closest point) from the Angus coastline to the North East of Dundee, as shown in Figure 1.

The selected concept is a nominal 1075MW wind farm comprising 114 MHI Vestas (MVOW) V164 10MW wind turbine generators (WTG) on suction bucket caisson and jacket support structure. The power will be collected on one (1) Offshore Substation Platform (OSP), via 66kV inter array cables (IAC) and associated equipment. Power will be transformed to 275kV on the OSP and will be exported to the onshore substation at Tealing, close to Dundee, via circa 70km of offshore and onshore export cables using 3 circuits. At the onshore substation, the power is stepped up to 400kV and connected to the adjacent SHE-T substation where it joins the National Electricity Transmission System (NETS). The WTGs will be maintained in years 1-15 by MVOW under the terms of a Service and Warranty Agreement (SWA).

The wind farm function and performance are specified in the project's "Basis of Design" document - LF000009-ENG-MA-BOD-0002 [02].

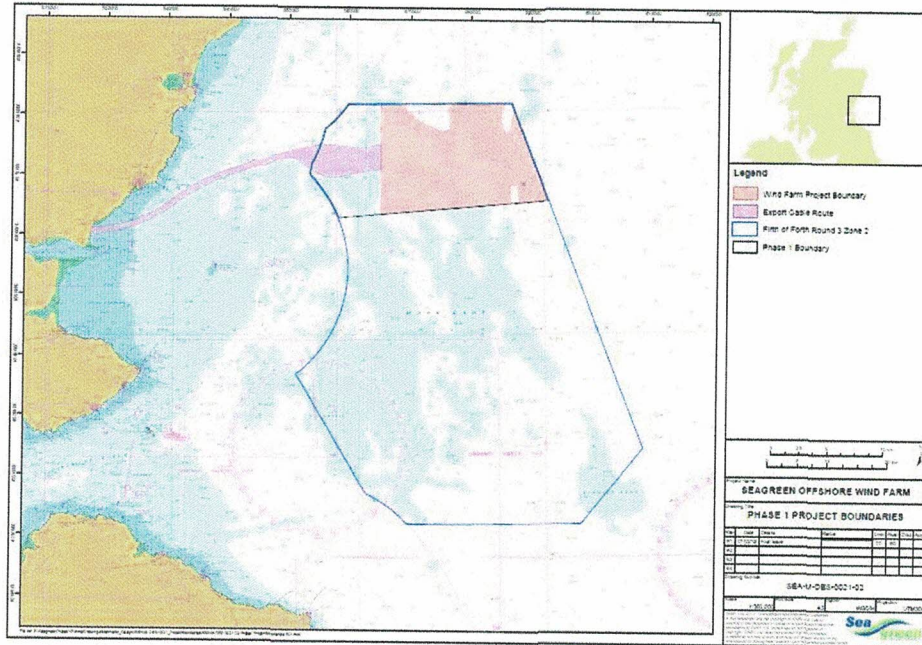


Figure 1 Seagreen Offshore Wind Farm Location

### 1.3 Seagreen O&M Base

The O&M Base facilities listed in Section 1.1 shall be installed on the South Quay at Montrose Port. Figure 2 illustrates the proposed location of each facility.

The Operations Building - containing the wind farm control centre, offices, meeting rooms and welfare facilities – shall be installed on the east end of the South Quay opposite an existing section of warehouse which shall be segregated and renovated to serve as the Warehouse for Seagreen. Both the Operations Building site and Warehouse are less than 50m from Berth 5, which the Service Operation Vessel (SOV) will aim to use when visiting the port. The Communications Mast and GRP Cabin shall be located in the leased area near the Operations Building.

The Pontoon shall be installed parallel to the quay wall at the east end of Berth 5.

Figure 3 shows the available area of quayside for developing the Operations Building opposite the existing section of warehouse.



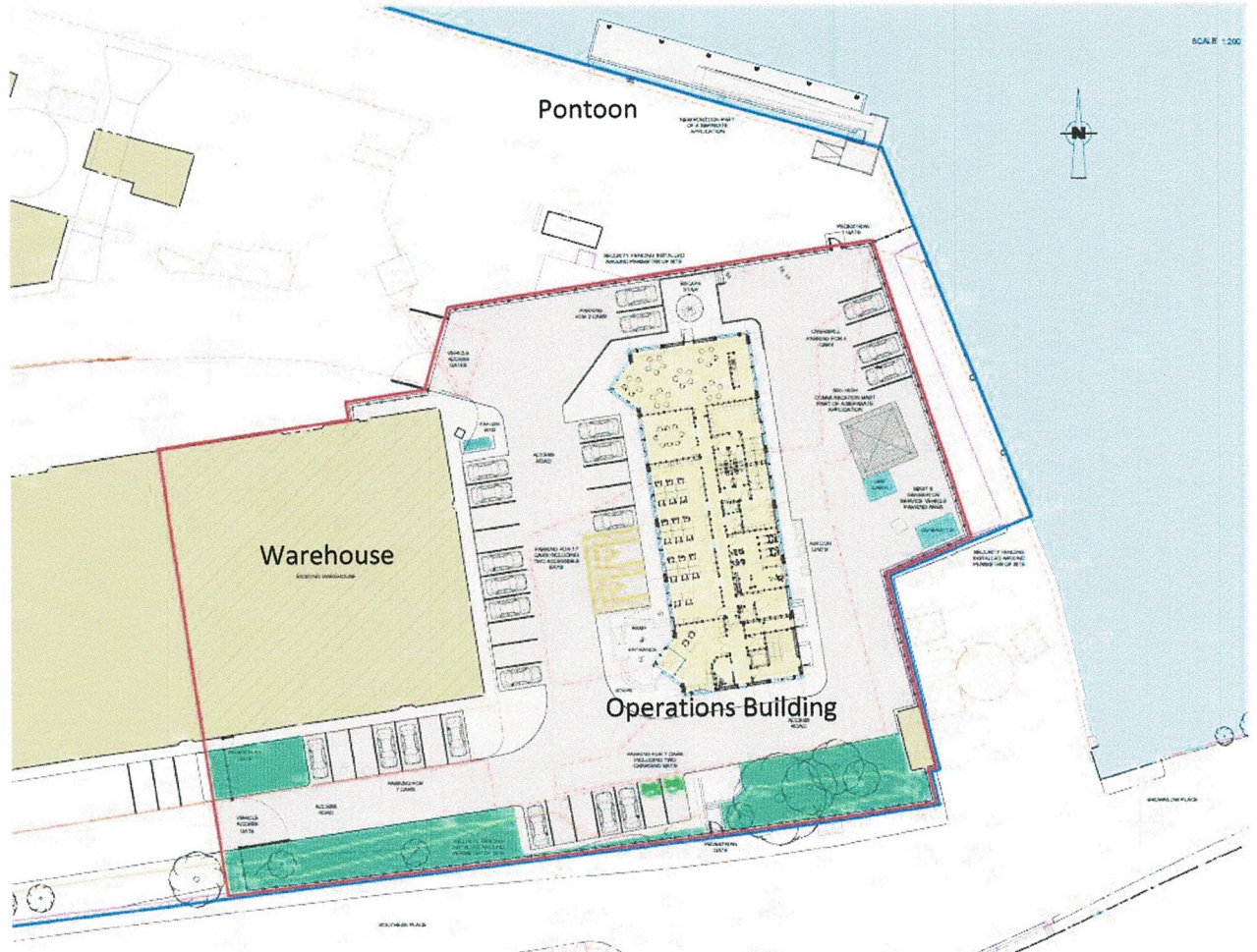


Figure 2 Locations of O&M Base facilities on the South Quay at Montrose Port



Figure 3 Land area on the South Quay for development of the Operations Building