

Project Title	Seagreen Wind Energy Ltd
Document Reference Number	LF000009-MIP-MA-MAN-NOT-0001

Seagreen Offshore Wind Farm.

Weekly Notice of Operations 35/2021

Issue Date – 30th August 2021.

Notice of Operations on Seagreen Offshore Wind Farm.

Work planned for the period 30-08-2021 to 05-09-2021.

Construction activities commenced on Seagreen Offshore Wind Farm on Thursday 17th December with works at the export cable landfall site. This notice will be updated weekly giving information of the progress and resources involved in the construction of the windfarm. The intention is to give notice of the activities involved in the construction phase of the project. Should anyone have any questions regarding construction operations we kindly ask that you put them forward well in advance.

The Seagreen Offshore Wind Farm is located in the outer Firth of Forth and Firth of Tay region of the North Sea. The site is situated approximately 17.5 nautical miles East-southeast of the Port of Montrose where the project Marine Coordination Centre will be located during the construction and operational phases. The first phase of the development will consist of 114 suction bucket foundation structures, with associated 114 10MW offshore wind turbine generators, 1 HVAC offshore substation platform, associated inter array and export cabling. The generated power will be transmitted to the National Grid via 3 subsea transmission cables making landfall at Carnoustie, Angus, to the Southwest of the development site. Grid connection will

be achieved at the Tealing onshore substation. The second phase of the project will consist of 36 piled foundation structures, with associated 36 Wind Turbine Generators, associated inter array and export cabling and one additional 1 HVAC offshore substation platform. The phase 2 transmission cable is proposed to make landfall at Cockenzie, East Lothian (subject to appropriate licensing).

The Seagreen development site is highlighted below in red, the export cable corridor is highlighted in yellow.

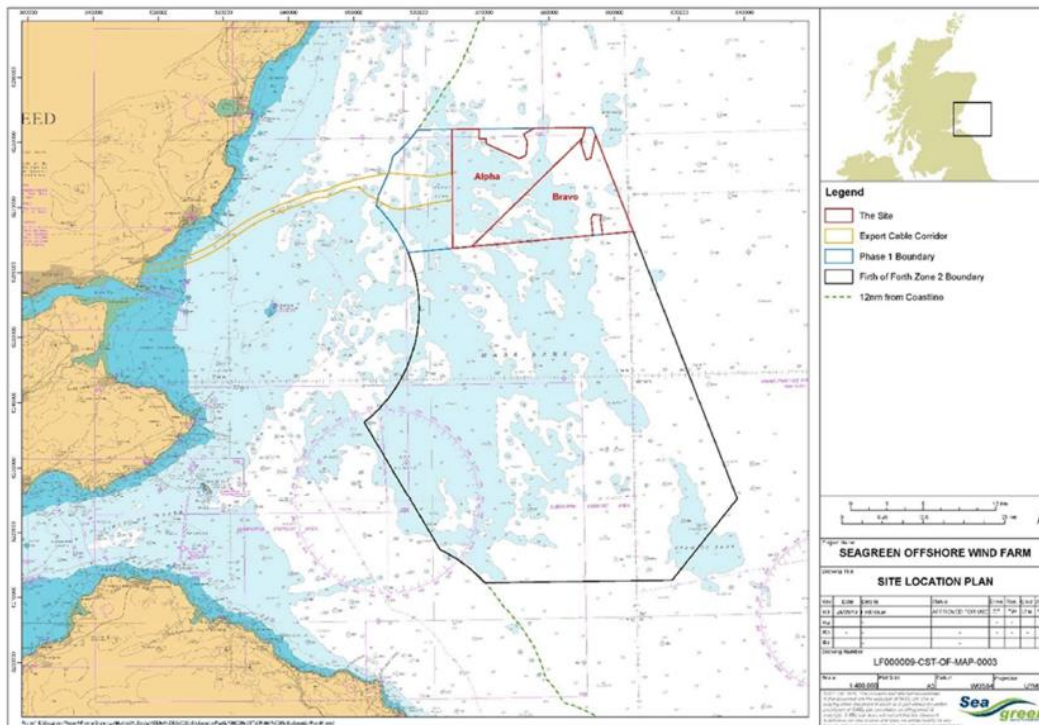


Fig 1 – Seagreen offshore wind farm location and export cable corridor.

1. Contact details for Marine Coordination

The following contact can provide more information if required.

Telephone Number (24/7 Operations)	+44 (0) 333 344 5255
Email for Marine Coordinator	seagreenmarinecoordination@sse.com
Address	Seagreen Wind Energy Ltd, Inchbraoch House Montrose Port Authority, South Quay Ferryden, Montrose, Angus DD10 9SL

2. Ongoing Operations

2.1 Export Cable Landfall works.

Export cable nearshore protection and diving support operations will continue this week. All sheet piles have been removed and work continues on the reinstatement of Carnoustie beach revetement. Further details are below in section 2.2. The landfall works area is shown below in Fig 2.



Fig 2 – Landfall works area located at Carnoustie Barry Golf Links.

2.2 Nearshore export cable protection and diving works.

On behalf of Seagreen Wind Energy Ltd, Nexans Norway Dykkerteknikk AS will deliver nearshore protection services and diving assistance in preparation for the pull-in of three export cables at the Carnoustie export cable landfall site.

Excavation works continue at the export cable landfall site at Carnoustie beach as shown above in fig 2. A spool piece has been fitted to each cable duct. A 272m self-submersible cable protection pipe will then be connected to each of the 3 export cable ducts. The 3 self-submersible cable protection pipes will then be trenched awaiting export cable pull-in at a date to be confirmed.

Installation activities and diving operations will take place from the MPV Sophie. A local tug or multi-cat and a small work boat will also be used to tow the 272m self-submersible cable protection pipes from

Dundee Harbour. This notice will be updated when information is available on the vessels who will assist MPV Sophie.

The MPV Sophie and the associated vessels from Dundee port are expected on site on or around the 06th of September although this may be delayed due to weather and tidal conditions.

Four temporary rock bag moorings have been placed on the seabed, with two left to deploy. They will be used during the self-submersible cable protection pipe installation and export cable pull-in. These temporary moorings will be surface marked by day-glo pellet buoys. The locations and coordinates of these temporary moorings are shown below in Fig 3 and Table 1.

Vessel Name – MPV Sophie	
General Description and Dimensions:	Multi Purpose vessel. 14.9m x 7.0m x 1.0m
Call Sign:	LK7943
MMSI:	258003500
Direct Bridge/ Masters Number	+47 928 35 222
Onshore Representative:	anders@dykkerteknikk.no ; halvor@dykkerteknikk.no



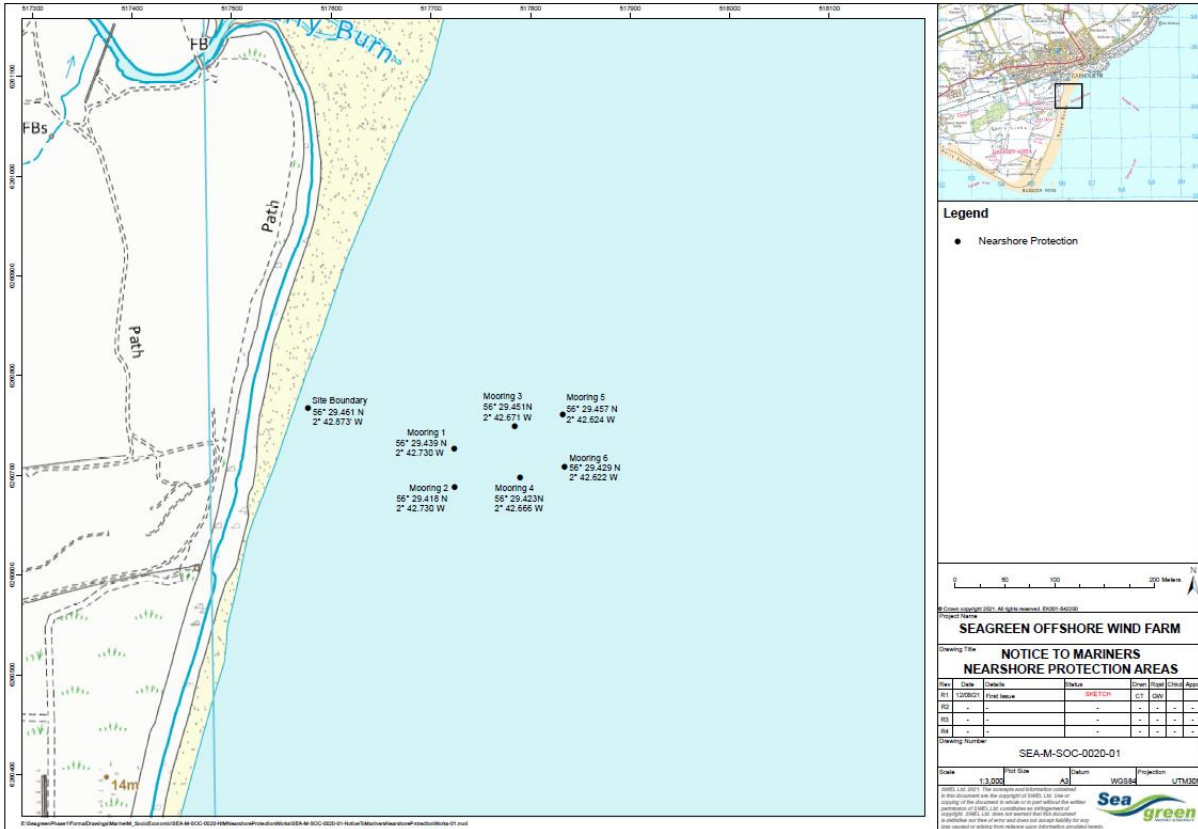


Fig 3

ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Site Boundary	56° 29.461' N	2° 42.873' W
Mooring 1	56° 29.439' N	2° 42.730' W
Mooring 2	56° 29.418' N	2° 42.730' W
Mooring 3	56° 29.451' N	2° 42.671' W
Mooring 4	56° 29.423' N	2° 42.666' W
Mooring 5	56° 29.457' N	2° 42.624' W
Mooring 6	56° 29.429' N	2° 42.622' W

Table 1 – Temporary mooring coordinates.

3. Pre-construction Unexploded Ordnance and Boulder clearance works.

3.1 Unexploded Ordnance & Boulder clearance Geophysical Survey works.

An unexploded ordnance and boulder clearance geophysical survey will take place within the Seagreen Offshore Wind Farm site boundary. The survey vessel, Kommandor Iona will utilise towed array equipment

with side scan sonar, sub bottom profiler and magnetometer to complete the survey of the remaining WTG locations.

Survey works are expected to be concluded by August 21 however this period may be extended due to weather conditions.

The coordinates of the Seagreen site boundary are below in Table 2 and shown in Fig 1. Details of the survey vessel, Kommandor Iona are shown below.

ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
01	56° 40.631' N	1° 43.829' W
02	56° 40.606' N	1° 36.151' W
03	56° 39.317' N	1° 36.884' W
04	56° 37.913' N	1° 36.151' W
05	56° 39.923' N	1° 34.627' W
06	56° 31.903' N	1° 29.311' W
07	56° 31.724' N	1° 33.882' W
08	56° 32.983' N	1° 34.195' W
09	56° 33.051' N	1° 35.583' W
10	56° 31.666' N	1° 35.352' W
11	56° 30.803' N	1° 56.378' W
12	56° 40.653' N	1° 56.226' W
13	56° 40.648' N	1° 52.170' W
14	56° 39.836' N	1° 51.101' W
15	56° 38.138' N	1° 46.249' W
16	56° 38.383' N	1° 45.181' W
17	56° 40.157' N	1° 45.487' W

Table 2 – Site Boundary coordinates.

Vessel Name – Kommandor Iona	
General Description and Dimensions:	Survey vessel. 72.5m LOA, 14.9m beam, 6.5m draught
Call Sign:	GAAK
MMSI:	235003070
Satellite communications details	+44 1224 980812
Direct Bridge/ Masters Number	+44 (0) 1224 085571
Onshore Representative:	Alexandru Lepadatu, Alexandru.Lepadatu@subsea7.com +31(0)61 057 48 75
On-board Survey rep.	Gary Howes, +44 (0) 7919 155748
Offshore Fisheries Liaison Officer	Hamish McPherson, +44 (0) 7770 284947.



3.2 Potential Unexploded Ordnance Identification Survey

A Potential Unexploded Ordnance (pUXO) identification survey will take place within the Seagreen Offshore Wind Farm site boundary. The vessel, Glomar Worker will utilise a ROV mounted magnetometer and video

camera to conduct the survey of numerous targets to identify any possible UXO risk. Wind Turbine Generator positions, Inter Array Cable routes and 1 Offshore Sub-station location within the Seagreen site boundary will be surveyed.

Survey works are expected to be concluded by August 21 however this period may be extended due to weather conditions.

The coordinates of the Seagreen site boundary are above in Table 1 and shown in Fig 1. Details of the survey vessel, Glomar Worker are shown below.

Vessel Name – Glomar Worker	
General Description and Dimensions:	Survey vessel. 60.0m LOA, 15.6m beam, 4.5m draught
Call Sign:	3EKK8
MMSI:	352110000
Satellite communications details	+87 0773281351 & +31 852088024
Direct Bridge/ Masters Number	+31 645027717
Onshore Representative:	Alexandru Lepadatu, Alexandru.Lepadatu@subsea7.com +31(0)61 057 48 75
Onboard Survey rep.	Alice Bamkin +44 (0)7845 554353



3.3

A boulder removal campaign will take place within the Seagreen Offshore Windfarm site boundary. The boulder removal vessel MMA Pinnacle is equipped with a ROV and integrated tine grab tool. The vessel will relocate boulders which are considered a hazard from the inter array cable routes and areas surrounding the wind turbine generator locations.

The works are due to start on 30th August and should be concluded in approximately six weeks.

Details of the MMA Pinnacle are shown below.

Vessel Name – MMA Pinnacle	
General Description and Dimensions:	Multi Purpose Supply Vessel with DP 2 capabilities
Call Sign:	9WNM1
MMSI:	533130779
Satellite communications details	+65 3163 2965
Direct Bridge/ Masters Number	+65 901 80775
Onshore Representative:	Guy Butler
On-board Survey rep.	Barry Sutherland



4. Distribution List

A central list of recipients is maintained by Seagreen Marine Coordination, if you are not the appropriate recipient or do not wish to receive these notices please contact Marine Coordination as per the details in section 1 of this notice.

5. Website

The official website for Seagreen Offshore Wind Farm can be found at


<https://seagreenwindenergy.com>

This contains all Seagreen Weekly Notices of Operations and Notices to Mariners, together with a large amount of general information about the project.

There is also a Twitter feed at [@seagreenwind](https://twitter.com/seagreenwind)

This document contains proprietary information belonging to Seagreen Wind Energy Ltd or affiliated companies and shall be used only for the purpose for which it was supplied. It shall not be copied, reproduced, disclosed or otherwise used, nor shall such information be furnished in whole or in part to third parties, except in accordance with the terms of any agreement under which it was supplied or with the prior consent of Seagreen Wind Energy Ltd and shall be returned upon request. © Copyright of Seagreen Wind Energy Ltd

6. Seagreen weekly vessel report.

Seagreen Offshore Windfarm Vessels & Operators									
Reference to Marine Licence Conditions 3.1.2 (OWF Alpha and Bravo ML), 3.1.2 (OTA ML) and 3.1.2 (Open Cut at Landfall ML)									
Vessel Data Matrix OWF/OTA/Open Cut at Landfall									
No	Vessel Picture	Vessel Name / Flag	Type / Function	Operator	Contact / contact details	Call sign / MMSI / IMO	LOA (m) Beam (m) Draft (m)	Date on Site	Marine Licence(s) applicable
1		MPV Sophie	Multi Purpose Vessel	Nexans AS	Per-Kristian Pederson Nexans Senior Project Engineer +47 476 40 021 Per-Kristian.Pedersen@nexans.com	LK7943 25800350	14.9m x 7m x 1 m	20/08/2021	OTA ML & Open Cut at Landfall ML