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

Seagreen Offshore Wind Farm. Weekly Notice of Operations 02/2022

Issue Date - 10rd January 2022.

Notice of Operations on Seagreen Offshore Wind Farm.

Work planned for the period 10-01-2022 to 16-01-2022.

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



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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 blue.

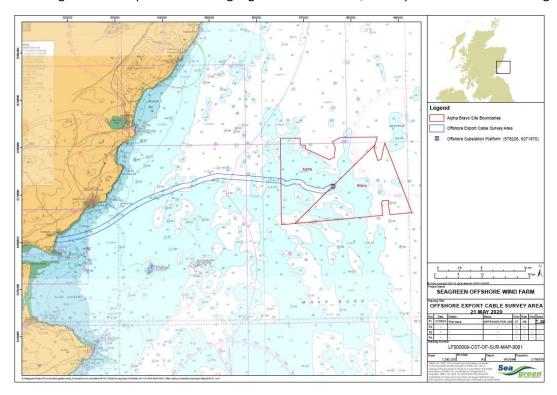


Fig 1-Seagreen offshore wind farm location and export cable corridor.

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



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2. Export cable works.

2.1 Export Cable Landfall works.

Works continue on the reinstatement of Carnoustie beach revetement. Works on the three export cable protection pipes has recommenced ahead of export cable installation activities. 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.

Operations on the 3 self-submersible cable protection pipes has recommenced ahead of export cable installation activities. Works will be conducted from the DSV Sophie, details below.

Six temporary anchors will be placed on the seabed to secure the self-submersible cable protection pipes prior to export cable pull in activities. These temporary anchors will be surface marked by day-glo pellet buoys. The coordinates and locations of the anchors are shown below in fig 3 and table 1.



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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



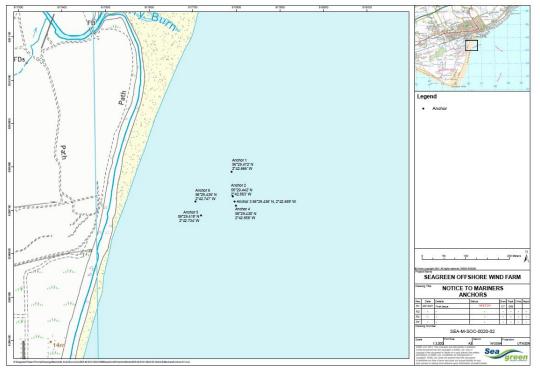


Fig 3



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ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Anchor 1	56° 29.472' N	2° 42.666' W
Anchor 2	56° 29.442' N	2° 42.663' W
Anchor 3	56° 29.436' N	2° 42.659' W
Anchor 4	56° 29.430' N	2° 42.656' W
Anchor 5	56° 29.418' N	2° 42.734' W
Anchor 6	56° 29.436' N	2° 42.747' W

 ${\it Table~1-Temporary~anchor~coordinates}.$

3. Boulder clearance works.

Boulder clearance operations will continue within the Seagreen Offshore Windfarm site boundary. The boulder clearance vessel Siem Dorado is equipped with an ROV and integrated tine grab tool. The vessel will relocate boulders which are considered a hazard to the inter array cable routes and areas surrounding the wind turbine generator locations. An additional boulder clearance vessel MRV Sartor has been deployed to assist with boulder clearance activities around the wind turbine generator jack up installation vessel locations.

Details of both vessels are shown below.

Vessel Name – Siem Dorado		
General Description and Dimensions:	93.6m x 19.74m	
Call Sign:	C6YG5	
MMSI:	311031800	
Direct Bridge/ Masters Number	V-Sat: +47 2240 8244	
	George Cooper	
Onshore Representative:	Seaway 7	
	+44 (0) 7545 642881	





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Vessel Name – MRV Sartor	
General Description and Dimensions:	83.0m x 18.0m
Call Sign:	3ESV4
MMSI:	372633000
Direct Bridge/ Masters Number	V-Sat +4753007246
	Graeme Watters
Onshore Representative: Seagreen Wind Energy ltd.	
	+44 (0) 7932 229828



4. Inter Array Cable Installation.

On behalf of Seagreen Wind Energy Ltd, Seaway 7 will install and trench inter-array cabling between the wind turbine generator foundation structures and offshore sub-station platform within the Seagreen site boundary as shown in fig 1. Operations will commence with cable pull-in and laying operations between wind turbine generator foundation structures, inter array cables will also be installed into the Offshore Substation Platform at a date to be confirmed. The inter array cables will be trenched at a date to be confirmed.

Siem Day – This vessel will act as the Installation Support vessel. Cable installation technicians will be deployed to the wind turbine generator foundation structures using the vessels' motion compensated gangway system.

Vessel Name – Siem Day	
General Description and Dimensions:	120.8m x 25.9m x 6.1m
Call Sign:	LAFB8
MMSI:	257651000
Direct Bridge/ Masters Number	+47 919 04982
	George Cooper
Onshore Representative:	Seaway 7
	+44 (0) 7545 642881



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Siem Aimery – This vessel will lay the inter array cable between adjacent wind turbine jacket foundations and where required the offshore sub-station platform, it will also trench the inter array cables to a pre-determined depth.

Vessel Name – Seaway Aimery	
General Description and Dimensions:	95.3m x 21.5m x 7.2m
Call Sign:	MDBO2
MMSI:	232015468
Direct Bridge/ Masters Number	V-Sat +87 07734 090018
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881



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5. Installation of suction bucket caisson jacket foundations.

Installation of the 114-suction bucket caisson foundation jackets will continue utilising the Heavy Lift Vessel Saipem 7000. The installation is expected to continue until September 2022. The jackets will be towed from Nigg, in the Moray Firth using tugs and barges. There will be various tugs utilised in towing the barges, details of which are given below including the Saipem 7000.



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Vessel Name – Saipem 7000	
General Description and Dimensions:	Heavy lift vessel: LOA 129.9 x 87m Beam
Call Sign:	C6NOS
MMSI:	219275000
Direct Bridge/ Masters Number	Inmarsat 00870773163946 V-Sat 00390252027520
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881



Vessel Name - Bravenes General Scour Protection: LOA 154.0m **Description and** x 28.0m Beam **Dimensions:** Call Sign: **PDCF** 244860916 MMSI: Satellite Sat +31 6 52 32 64 78 communications Mobile +47 23 39 86 56 details George Cooper Seaway 7 +44 (0) 7545 642881 Onshore Representative:





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Vessel Name – AHT levoli Blue	
General Description and Dimensions:	Tug: LOA 70.0m x 16.0m Beam
Call Sign:	IBYK
MMSI:	247279900
Satellite communications details	Sat +87 077 3913315 Mobile +39 348 096 0206
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881



Vessel Name – Tug Carlo Martello	
General Description and Dimensions:	Tug: LOA 55.4m x 15.5m Beam
Call Sign:	IBCO
MMSI:	247153600
Satellite communications details	Sat +870 7731 30214 Mobile +39 335 806 9554
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881





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Vessel Name – Tug Kamarina	
General Description and Dimensions:	Tug: LOA 55.4m x 15.5m Beam
Call Sign:	IITW2
MMSI:	247278400
Satellite communications details	Sat +870 773 130505 Mobile +39 345 281 1846
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881



Barge – Wagenborg 9 & 11, CC Atlantique, AMT Crusader, AMT Challenger,						
General Description and Dimensions:	Barge: LOA 122m x 36.5m Beam					
Call Sign:	n/a					
MMSI:	n/a					
Satellite communications details	n/a					
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881					





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Vessel Name – Tug Princess					
General Description and Dimensions:	Tug: LOA 67.4m x 16.0m Beam				
Call Sign:	ORQU				
MMSI:	205642000				
Satellite communications details					
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881				



Vessel Name – Sea Gull					
General Description and Dimensions:	Offshore Supply Vessel 88m LOA, 20 beam, 6m draught				
Call Sign:	LAGK8				
MMSI:	257504000				
Satellite communications details	+47 948 38790				
Onshore Representative:	Ram Jeyaraman ram.jeyaraman@petrofac .com				





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Vessel Name – Tug Bear					
General Description and Dimensions:	Tug: LOA 73.5m x 16.4m Beam				
Call Sign:	ORRY				
MMSI:	205694000				
Satellite communications details	+ 4721038114				
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881				



Vessel Name – Skandi Foula					
General Description and Dimensions:	Offshore Supply Vessel: LOA 83.9m x 16.3m Beam				
Call Sign:	LNJF3				
MMSI:	259408000				
Satellite communications details	+47 23676403(Bridge)				
Onshore Representative:	George Cooper Seaway 7 +44 (0) 7545 642881				





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6. Wind Turbine Generator Installation & Commissioning.

On behalf of Seagreen Wind Energy Ltd, MHI Vestas Offshore Wind have commenced the installation and commissioning of 114 wind turbine generators.

There shall be three vessels utilised during this operation. The Jack up Vessel **Wind Osprey** will be the main installation vessel. Wind Osprey will transport the WTG components to site, jack up to the required height next to the foundation structure and install the WTG components.

The Service Operation Vessel (SOV) **Acta Centaurus** will provide accommodation for the WTG commissioning technicians. Personnel will utilise the Acta Centaurus's walk to work gangway system to access the WTG structures for commissioning activities.

A Crew Transfer Vessel, **HST Harri** will support the above two vessels during installation and commissioning activities.

Wind Turbine Generator installation activities shall continue until late 2022.

Vessel Name – Wind Osprey						
General Description and Dimensions:	JUV 161.3m LOA, 49.03m beam, 5.6m draught					
Call Sign: 5BUF3						
MMSI: 210286000						
Satellite communications details	V-Sat Number - +44 203 005 68630 / +44 203 005 68631					
Direct Bridge/ Masters Number +45 5167 1390						
Onshore Representative:	Morten Guldberg – Installation Manager +45 314 314 63					





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Vessel Name – Acta Centaurus					
General Description and Dimensions:	SOV DP 2 Vessel 93.4m LOA, 18.0m beam, 5.6m draught				
Call Sign: PBOI					
MMSI:	244341000				
Satellite communications details	V-Sat Number - +31 (0) 85 30 12 161				
Direct Bridge/ Masters Number	Mobile - +31 (0) 6 139 733 63				
Offshore Fisheries Liaison Officer	Alan Addison - +44 (0) 7734 033742				
Onshore Representative:	Paul Grant – Commissioning Manager +44 7587630374				



Vessel Name – HST Harri					
General Description and Dimensions:	CTV- 27.0m LOA, 11.0m beam, 2.4m draught				
Call Sign:	MGBN4				
MMSI:	23202433				
Direct Bridge/ Masters Number	+441792272235. euan@highspeedtransfers.com				
Onshore Representative:	Paul Grant – Commissioning Manager +44 7587630374				





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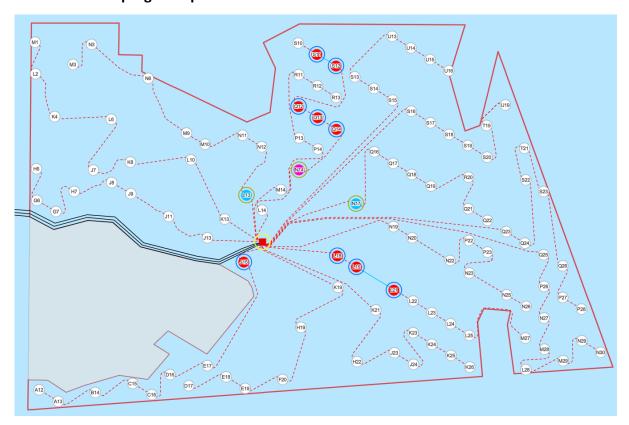
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7. Offshore Platform (OSP), Export Cable Pull in Preparation.

The preparations for the Export Cable Pull In are now complete with the Export Cables being laid at a future date.

8. Construction progress update.





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9. Guard Vessel Deployment.

In line with foundation installation activities commencing Seaway 7 has deployed a site Guard Vessel. The Guard vessel will make six hourly VHF radio broadcasts containing information regarding the Seagreen development including installation activity, safety zone information and site demarcation buoyage information. The Guard Vessels shall be relieved regularly, the Guard Vessel Shemarah II is on station until 14/01/2021 when they will be relieved by the Evening Star.

Vessel Name – GV Shemarah II LH65					
General Description and Dimensions: Fishing vessel. 27.0m x 8.0m x 2.3m					
Call Sign:	MVRR7				
MMSI: 232007650					
Direct Bridge/ Masters Number	+44 7774 810625 donaldmoodie@moodiemarine.com				
Onshore Representative:	Alastair Macdonald <u>Alastair.Macdonald@Subsea7.com</u>				



Vessel Name – GV Evening Star PD1022				
General Description and Dimensions: Fishing vessel. 27.0m x 8.0m x 2.3m				
Call Sign:	MNEP3			
	235006716			
Direct Bridge/ Masters Number	+44 1779401099 eveningstar1022@yahoo.co.uk			
Onshore Representative:	Alastair Macdonald <u>Alastair.Macdonald@Subsea7.com</u>			



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10. Offshore Fisheries Liaison Officers.

During the construction phase of the Seagreen project there will be Offshore Fisheries Liaison Officers (OFLO) deployed on selected construction vessels. The principal role of the OFLO is to establish and maintain effective communications with any fishing vessels encountered and to monitor compliance with good practice guidelines whilst doing so. The OFLO will record details of any fishing activity in and around the site including fishing vessels, gear and communications with fishing vessels and will provide regular updates to the Seagreen FLO. Please contact Seagreen Marine Coordination for further information.

11. Safety Zones.

Following consideration by Scottish government ministers it has been agreed that during the construction phases of the Seagreen development mandatory rolling 500m safety zones will be established around each Wind Turbine Generator and/or their foundations whilst construction works are in progress, as indicated by the presence of a construction vessel. The safety zones will be triggered whenever a vessel is on station at a WTG and undertaking construction activities.

In addition, mandatory pre commissioning 50m safety zones will be established around each Wind Turbine Generator and/or their foundations when construction works have been completed but prior to Wind Farm commissioning or where construction works have only been partially completed. These safety zones will be active at any structure during the construction phase where a construction vessel is not present at a Wind Turbine Generator.



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12. 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

13. 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.

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14. Seagreen weekly vessel report.



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dess	green Offshore Windfarm els & Operators					Sac			Insert date 10-01-22
OVI	rence to Marine nce Conditions 3.1.2 - Alpha and Bravo ML), (OTA ML) and 3.1.2		Vessel Data M	atrix OWF/OTA/Open	Cut at Landfall	Sea	green		
. i.∠ Ope ▼	n Cut at Landfall ML) Vessel Picture	Vessel Name / Flag ▼	Type / Function ▼	Operator ▼	Contact / contact details	Call sign / MMSI / WIND	LOA (m) Beam (m) I (m)	Date on Site	Marine Licence(s) applical
1		G¥ Shemarah II	Guard vessel	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	JJLQ 235001860	27m ± 8m	26/10/2021	OWF Alpha & Bravo M
2		GY Evening Star	Guard vessel	Seawag7	George Cooper Seaway 7 •44 (0) 7545 642881	MNEP3 235006716	27m z 8m	14/01/2022	O∀F Alpha & Bravo M
3	T.	Seacat Volunteer	Crew Transfer vessel	SVEL	Graeme Vatters Lead Marine Coordinator +44 (0) 7932 229828	2HCP6 235102528	25.1mz 8m	15/10/2021	OVF Alpha & Bravo N
4		Siem Dorado	Bolder Clearance	Seaway 7	George Cooper Seawag 7 +44 (0) 7545 642881	C6YG5 311031800	93.6m z 19.74m	17/11/2021	OVF Alpha & Bravo N
5		Saipem 7000	Heavy Lift Vessel	Seawag7	Ram Jegaraman ram.jegaraman@petrofac.com	C6NO5 309461000	175m z 87m	01/10/2021	OVF Alpha & Bravo M
6		Acta Centaurus	Multi Purpose Offshore Vessel	Vestas	Paul Grant Vestas •44 7587630374	PBOI 244341000	63.4 x 18m	06/11/2021	OVF Alpha & Bravo Mi
7	The state of the s	HST Harri	сту	Vestas	Paul Grant Vestas •44 7587630374	MGBN4 232024313	27 x 11m	06/11/2021	OVF Alpha & Bravo M
8		∀ ind Ospre y	Jack-up Vessel	Yestas	Morton Guldberg Yestas •45 314 314 63	5BUF3 210286000	161.3 x 49.03m	06/11/2021	O∀F Alpha & Bravo M
9		Sea Gull	PSY	Seaway7	George Cooper Seaway 7 •44 (0) 7545 642881	LAGK8 257504000	88.08 x 20m	06/11/2021	OWF Alpha & Bravo M
10	Line	MPV Sophie	Multi Purpose Yessel	Nezans AS	Per-Kristian Pederson Nezans Senior Project Engineer +47 476 40 021 Per- Kristian.Pedersen@nezans.com	"LK7943 25800350"	14.9m z 7m z 1m	20/08/2021	OTA ML & Open Cut a Landfall ML OVF Alpha & Bravo M
11		Sartor	мрч	SSE	Graeme Watters Lead Marine Coordinator •44 (0) 7932 229828	3ESV4 372633000	82.5 x 18.83	23/12/2021	Our April & Blavo M
12		AHT levoli Blue	Tug	Seaway7	George Cooper Seaway 7 +44 (0) 7545 642881	IBYK 247279900	70m x 15.1	27/12/2021	OWF Alpha & Bravo F
13		AHT Bear	Teg	Scaway?	George Cooper Seaway 7 •44 (0) 7545 642881	ORRY 205634000	73.5 x 16.4	27/12/2021	OVF Alpha & Bravo N
14		AHT Carlo Martello	Tug	Seашаў?	George Cooper Seaway 7 +44 (0) 7545 642881	IBCO 247266600	55.4m x 15.5	27/12/2021	OVF Alpha & Bravo F
15		AHT Kamarina	Tug	Scaway7	George Cooper Seaway 7 +44 (0) 7545 642881	HT¥2 247278400	50m x 15m	27/12/2021	OWF Alpha & Bravo I
16		AHT Princess	Teg	Scaway?	George Cooper Seaway 7 +44 (0) 7545 642881	ORQU 205642000	67.4 x 16m	27/12/2021	
17		Siem Dag	Installation Support Vessel	Seаway7	George Cooper Seaway 7 +44 (0) 7545 642881	LAFB8 257651000	120.8x25.9x6.1	13/01/2022	O∀F Alpha & Bravo N
18		Skandi Foula	Tug	Scaway7	George Cooper Seaway 7 +44 (0) 7545 642881	LNJF3 259408000	83.3 x 16.3m	27/12/2021	OWF Alpha & Bravo N
19		FFPY Bravenes	Scour Protection Vessele	Scaway7	Frits Van-Dorst Project Engineer +31 62972 5402	PDCF 244860916	154m x 28m	07/01/2022	OVF Alpha & Bravo N
20	4	Siem Aimery	Cable Installation Yessel	Scawayi	George Cooper Seaway 7 •44 (0) 7545 642881	MDB02 232015468	95m z 28m z 7m	13/01/2022	O¥F Alpha & Bravo N