

Weekly Notice of Operations (WNoO)

Beatrice Offshore Windfarm Limited

Construction Operations



Issue Date: 13 August 2018
 LF000005-WNO-013: Weekly Notice of Operations - Rev 66

Notice of Operations at Beatrice Offshore Wind Farm

Work Planned for the Period 13.08.2018 to 19.08.2018

Construction of the Beatrice Offshore Wind Farm commenced on the 1st of April 2017. This notice will be updated weekly giving information on the progress and resources involved in the offshore project. The intention is to give an overview of activities and vessels involved. Should anyone have questions regarding the operations, we kindly ask you to put them forward well in advance.

Beatrice Offshore Windfarm Limited (BOWL) is developing the Beatrice Offshore Wind Farm in the 'Outer' Moray Firth on the north-western point of the Smith Bank, approximately 7 nm off the Caithness coastline. The development site will cover an approximate area of up to 130km² and will consist of 84 7MW offshore wind turbines (with a total capacity of 588MW) and two HVAC Offshore Transformer Modules (OTM). Water depths in the area range from approximately 38m below LAT in the south of the field to 60m below LAT in the north. The generated power will be transmitted to the grid via two subsea export / transmission cables with a landfall near Portgordon to the south of the field and grid connection at Blackhilllock. The transmission cables cover a route of approximately 38 nm from the wind farm boundary back to the landfall. The Beatrice Offshore Wind Farm development area is highlighted in red below, the OFTW cable corridor in black.

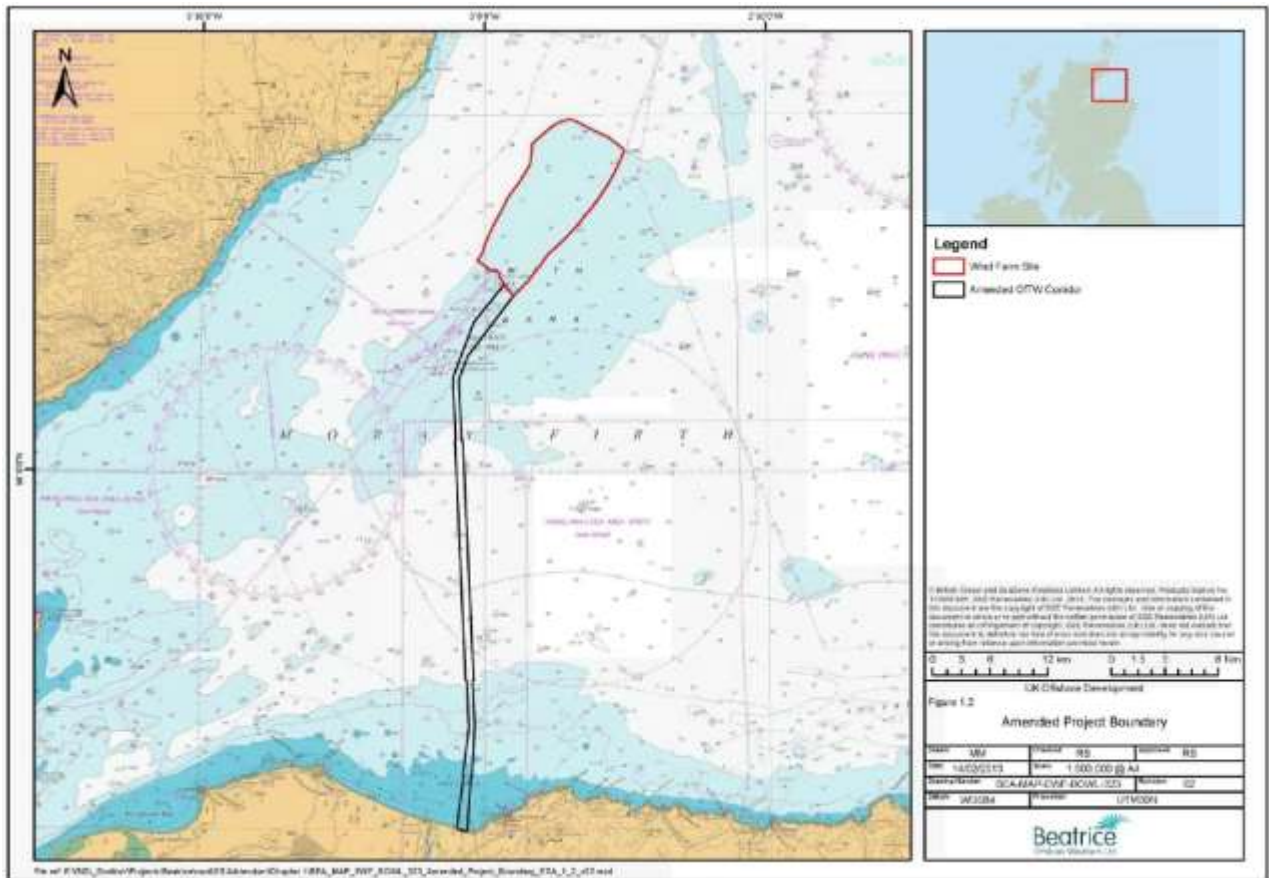


Fig. 1 Beatrice Offshore Wind Farm Location

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1. Contact Details for Marine Coordination

The following contact can provide more information if required. Please note that specific queries can also be addressed to the relevant vessel or shore based representative.

Telephone Number	+44 (0) 3302 020329
Emergency Contact (24/7)	+44 (0) 7342 028207
Email for Marine Coordinator	mc.bowl@sse.com
Address	Unit 1 Harbour Office Wick Caithness KW1 5HA

2. Ongoing Operations

Seaway Heavy Lifting have now completed the installation of all 84 wind turbine generators (WTGs) foundations and two offshore transformer modules (OTMs) foundations.

2.1 Inter Array Cable Installation

On Behalf of BOWL, Seaway Heavy Lifting will carry out the third campaign of the installation of inter array cables (IAC) in the Beatrice Offshore Windfarm construction site.

The CLV Seaway Aimery will install 41 inter array cables during the third cable installation campaign. The cables will be laid and buried between the Wind Turbine Generator (WTG) & Offshore Transformer Module (OTM) foundations listed below.

Three trenching trial cables have been surface laid and secured by clump weights. These trial cables will be trenched / recovered during the third cable installation campaign during July / August 2018. The sequence below is indicative only and subject to amendment. Sixteen (16) cables were laid and buried during campaign one in November / December 2017 with a further thirty four laid and buried during March - May 2018.

The CLV Seaway Aimery will be supported by the TSV Grand Canyon I (or III) for cable burial, Cables numbered from 51 to 88 in the sequence will be buried by a tracked jetting trencher, whilst cables 89 to 91 will be buried using a combination of tracked mechanical cutting trencher and tracked jet trencher.

The CSV Siem Barracuda will support inter-array cable installation activities in the Northern portion of the Beatrice wind farm, conducting cable pull in, testing and termination activities, working in parallel with the CLV Seaway Aimery.

The Siem Barracuda will undertake the following work scopes;

- Personnel transfers to WTG foundations and OTMs by Ampelmann Gangway
- Crane operations to transfer equipment to / from WTG foundations and Offshore Transformer Modules (OTMs)

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- Work class ROV activities at the seabed in the vicinity of WTG foundations and OTMs
- Survey activities along the planned inter-array cable routes linking the appropriate WTG foundations / OTMs.



Fig. 2 Grand Canyon Tracked Trenching System

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Table 1 Campaign 3 Cable Installation Sequence

Installation Sequence	Cable Route	String	Latitude Start	Longitude Start	Latitude End	Longitude End
51	BE D9 - BE C9	1462.4	58°15.596'N	002°55.777'W	58°15.381'N	002°56.901'W
52	BE C9 - BE D10	2084.4	58°15.393'N	002°56.904'W	58°16.214'N	002°55.570'W
53	BE D10 - BE D11	1231.7	58°16.227'N	002°55.573'W	58°16.838'N	002°55.359'W
54	BE M10-BE L10	1329.8	58°17.731'N	002°47.687'W	58°17.932'N	002°46.558'W
55	BE L9 - BE L10	1240.2	58°17.110'N	002°47.898'W	58°17.718'N	002°47.685'W
56	BEJ8 - BE J9	1250.5	58°16.061'N	002°50.362'W	58°16.669'N	002°50.149'W
57	BE J9 - BE K9	1290.8	58°16.682'N	002°50.152'W	58°16.884'N	002°49.023'W
58	BE K9 - BE K10	1258.2	58°16.896'N	002°49.025'W	58°17.504'N	002°48.812'W
59	BE K7 - BE K8	1233.3	58°15.654'N	002°49.448'W	58°16.263'N	002°49.233'W
60	BE F12-BE G12	1291.3	58°17.901'N	002°52.899'W	58°18.103'N	002°51.769'W
61	BE G12-BE F13	1511.5	58°18.115'N	002°51.772'W	58°18.522'N	002°52.690'W
62	BE F8 - BE E10	2227.8	58°15.416'N	002°53.737'W	58°16.432'N	002°54.445'W
63	BE E1 - BE E11	1258.6	58°16.444'N	002°54.446'W	58°17.053'N	002°54.235'W
64	BE E11 - BE F11	1287.6	58°17.064'N	002°54.237'W	58°17.267'N	002°53.106'W
65	BE D11-BE E12	2104.2	58°16.851'N	002°55.362'W	58°17.673'N	002°54.024'W
66	BE M9-BE M10	1453.0	58°17.324'N	002°46.773'W	58°17.945'N	002°46.561'W
67	BE K8-BE L9	2102.7	58°16.275'N	002°49.237'W	58°17.098'N	002°47.895'W
68	BE F11-BE-F12	1250.6	58°17.280'N	002°53.109'W	58°17.889'N	002°52.896'W
69	BE H12-BE G13	1420.2	58°18.330'N	002°50.647'W	58°18.724'N	002°51.560'W
70	BE G13-BE G14	1230.5	58°18.737'N	002°51.563'W	58°19.345'N	002°51.349'W
71	BE H13-BE G14	1497.6	58°18.951'N	002°50.436'W	58°19.358'N	002°51.351'W
72	BE F8-BE F9	1321.3	58°15.407'N	002°53.733'W	58°16.025'N	002°53.526'W
73	BE F9-BE F10	1224.3	58°16.038'N	002°53.529'W	58°16.647'N	002°53.316'W
74	BE F10-BE G10	1351.2	58°16.659'N	002°53.320'W	58°16.861'N	002°52.190'W
75	BE F8-BE G9	2208.2	58°15.404'N	002°53.736'W	58°16.240'N	002°52.400'W
76	BE G9-BE H10	2091.7	58°16.253'N	002°52.404'W	58°17.076'N	002°51.065'W
77	BE G7-BE G8	1218.5	58°15.010'N	002°52.823'W	58°16.619'N	002°52.611'W
78	BE G8-BE H9	2097.0	58°16.631'N	002°53.614'W	58°16.455'N	002°51.275'W
79	BE H9-BE J10	2124.9	58°16.467'N	002°51.278'W	58°17.290'N	002°49.939'W
80	BE E12-BE F13	2106.0	58°17.686'N	002°54.027'W	58°18.510'N	002°52.687'W
81	BE L8-BE M9	2092.9	58°16.489'N	002°48.111'W	58°17.312'N	002°46.770'W
82	BE G10-BE G11	1228.5	58°16.873'N	002°52.193'W	58°17.483'N	002°51.980'W
83	BE G11-BE H12	2082.0	58°17.495'N	002°51.983'W	58°18.318'N	002°50.644'W
84	BE H10-BE H11	1257.1	58°17.088'N	002°51.068'W	58°17.679'N	002°50.854'W
85	BE H11-BE J12	2090.9	58°17.709'N	002°50.857'W	58°18.532'N	002°49.516'W
86	BE J12-BE H13	1477.2	58°18.544'N	002°49.519'W	58°18.938'N	002°50.433'W
87	BE K10-BE K11	1260.1	58°17.516'N	002°48.815'W	58°18.125'N	002°48.601'W
88	BE K11-BE K12	1225.1	58°18.746'N	002°48.389'W	58°18.138'N	002°48.604'W
89	BE J10-BE J11	1234.8	58°17.303'N	002°49.941'W	58°17.911'N	002°49.728'W
90	BE J11-BE J13	2429.5	58°17.923'N	002°49.731'W	58°19.153'N	002°49.305'W
91	BE J13-BE K12	1533.6	58°19.165'N	002°49.308'W	58°18.758'N	002°48.393'W

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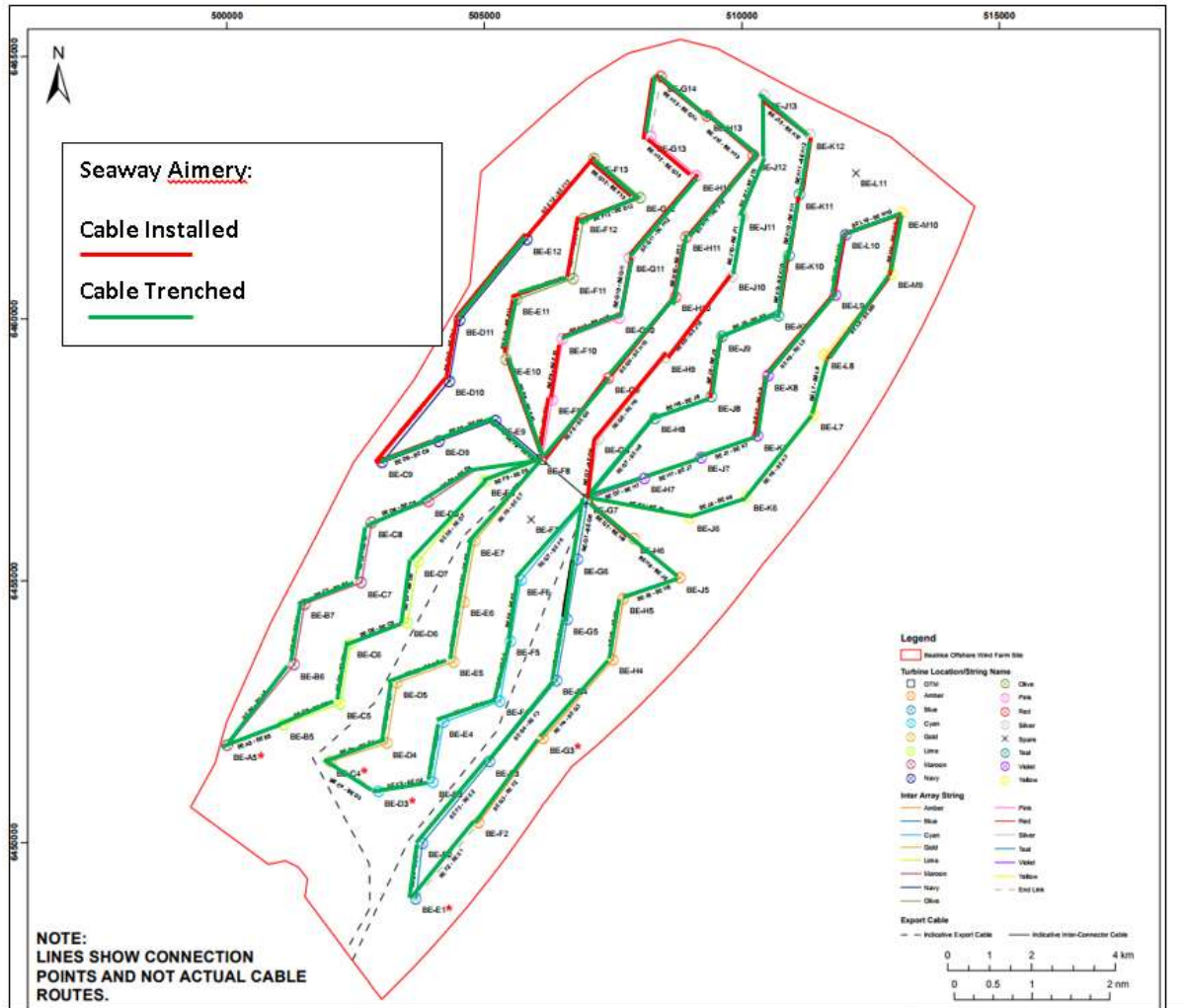


Fig. 3 Cable Installation Progress

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Amber			
BE G7- BE H6	16.04.2018	17.04.2018	19.04.2018
BE H6 - BE J5	11.11.2017	16.11.2017	17.11.2017
BE J5 - BE H5	13.11.2017	17.11.2017	18.11.2017
BE H5 - BE H4	12.11.2017	19.11.2017	21.11.2017
BE H4 - BE G3	12.11.2017	19.11.2017	22.11.2017
BE G3 - BE F2	12.11.2017	20.11.2017	24.11.2017
BE E1 - BE F2 (connector)	15.11.2017	21.11.2017	24.11.2017

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Blue			
BE E2 - BE E1	15.11.2017	26.11.2017	27.11.2017
BE F3 - BE E2	21.11.2017	27.11.2017	28.11.2017
BE G4 - BE F3	21.11.2017	01.12.2017	05.12.2017
BE G5 - BE G4	21.11.2017	01.12.2017	08.12.2017
BE G6 - BE G5	21.11.2017	01.12.2017	08.12.2017

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BE G7 - BE G6	16.04.2018	19.04.2018	23.04.2018
BE E1 - BE F2	15.11.2017	20.11.2017	24.11.2017
Cable Location			
String Cyan	PLGR Complete	Cable Installed	Cable Trenched
BE G7 - BE F6	16.04.2018	18.04.2018	23.04.2018
BE F6 - BE F5	29.11.2017	02.12.2017	04.12.2017
BE F5 - BE F4	29.11.2017	03.12.2017	04.12.2017
BE F4 - BE E4	29.11.2017	03.12.2017	04.12.2017
BE E4 - BE E3	12.12.2017	12.12.2017	12.12.2017
BE E3 - BE D3	12.03.2018	12.03.2018	13.03.2018
BE C4 - BE D3 (connector)	12.03.2018	13.03.2018	13.03.2018

Cable Location			
String Gold	PLGR Complete	Cable Installed	Cable Trenched
BE D4 - BE C4	18.03.2018	19.03.2018	20.03.2018
BE D5 - BE D4	18.03.2018	26-03-2018	07.04.2018
BE E5 - BE D5	13.03.2018	20.03.2018	23.03.2018
BE E6 - BE E5	13.03.2018	21.03.2018	23.03.2018
BE E7 - BE E6	29.11.2017	04.12.2017	06.12.2017
BE F8 - BE E7	20.05.2018	24.05.2018	25.04.2018

Cable Location			
String Lime	PLGR Complete	Cable Installed	Cable Trenched
BE F8 - BE E8	23.05.2018	24.05.2018	25.05.2018
BE E8 - BE D7	18.03.2018	22.03.2018	24.03.2018
BE D7- BE D6	18.03.2018	21.03.2018	24.03.2018
BE D6 - BE C6	06.04.2018	09.04.2018	10.04.2018
BE C6 - BE C5	06.04.2018	09.04.2018	10.04.2018
BE C5 - BE B5	06.04.2018	09.04.2018	10.04.2018

Cable Location			
String Maroon	PLGR Complete	Cable Installed	Cable Trenched
BE B7 - BE B6	08.04.2018	15.04.2018	27.04.2018
BE C7 - BE B7	08.04.2018	10.04.2018	12.04.2018
BE C8 - BE C7	08.04.2018	14.04.2018	28.04.2018
BE D8 - BE C8	08.04.2018	20.04.2018	28.04.2018
BE F8 - BE D8	21.05.2018	24-05-2018	25.05.2018
BE A5 – BE B6	25.04.2018	26.04.2018	27.04.2018
BE A5 – BE B5 (Connector)	26.04.2018	26.04.2018	27.04.2018

Cable Location			
String Navy	PLGR Complete	Cable Installed	Cable Trenched
BE F8 - BE E9	20.05.2018	25.05.2018	26.05.2018
BE E9 - BE D9	14.04.2018	21.04.2018	29.04.2018
BE D9 - BE C9	04.05.2018	18.07.2018	31.07.2018
BE C9 - BE D10	04.05.2018	18.07.2018	
BE-D10-BE-D11	04.05.2018	19.07.2018	
BE-D11-BE-E12	04.05.2018	26.07.2018	05.08.2018
BE-E12-BE-F13 (Connector)	04.05.2018		

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Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Olive			
BE-F12-BE-G12	04.05.2018	22.05.2018	06.08.2018
BE-G12-BE-F13	04.05.2018	25.07.2018	06.08.2018
BE-F8-BE-E10	21.07.2019	02.08.2018	09.08.2018
BE-E10-BE-E11	04.05.2018	02.08.2018	09.08.2018
BE-E11-BE-F11	04.05.2018	25.07.2018	06.08.2018
BE-F11-BE-F12	04.05.2018	30.07.2018	

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Pink			
BE-H12-BE-G13	04.05.2018	30.07.2018	
BE-F8-BE-F9	21.07.2018	03.08.2018	
BE-F9-BE-F10	04.05.2018	03.08.2018	
BE-F10-BE-G10	26.05.2018	31.07.2018	10.08.2018
BE-G10-BE-G11	26.05.2018	05.08.2018	10.08.2018
BE-G11-BE-H12	04.05.2018	06.08.2018	09.08.2018
BE-H12-BE-G13	04.05.2018	30.07.2018	
BE-G13-BE-G14 (Connector)	04.05.2018	30.07.2018	08.08.2018

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Red			
BE-H13-BE-G14	04.05.2018	31.07.2018	06.08.2018
BE-F8-BE-G9	21.07.2018	05.08.2018	11.08.2018
BE-G9-BE-H10	03.05.2018	05.08.2018	11.08.2018
BE-H10-BE-H11	03.05.2018	06.08.2018	13.08.2018
BE-H11-BE-J12	04.05.2018	06.08.2018	09.08.2018
BE-J12-BE-H13	04.05.2018	06.08.2018	10.08.2018

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Silver			
BE-G7-BE-G8	21.07.2018	07.08.2018	
BE-G8-BE-H9	03.05.2018		
BE-H9-BE-J10	03.05.2018	04.08.2018	
BE-J10-BE-J11	03.05.2018	23.07.2018	27.07.2018
BE-J11-BE-J13	03.05.2018	24.07.2018	30.07.2018
BE-J13-BE-K12	03.05.2018	24.07.2018	31.07.2018
BE-K11-BE-K12 (Connector)	03.05.2018		

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Teal			
BE G7 –BE H8	21.04.2018	22.04.2018	23.04.2018
BE H8 –BE J8	17.04.2018	21.04.2018	23.04.2018
BE-J8-BE-J9	26.05.2018	21.07.2018	03.08.2018
BE-J9-BE-K9	26.05.2018	24.07.2018	04.08.2018
BE-K9-BE-K10	02.05.2018	08.08.2018	11.08.2018
BE-K10-BE-K11	02.05.2018	08.08.2018	11.08.2018
BE K12-BE K11	02.05.2018	08.08.2018	11.08.2018

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Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Violet			
BE H7 -BE J7	02.05.2018	21.05.2018	22.05.2018
BE G7 -BE H7	02.05.2018	20.05.2018	22.05.2018
BE J7 - BE K7	02.05.2018	19.05.2018	21.05.2018
BE-K7-BE-K8	02.05.2018	21.07.2018	08.08.2018
BE-K8-BE-L9	02.05.2018	27.07.2018	08.08.2018
BE-L9-BE-L10	02.05.2018	20.07.2018	03.08.2018
BE-M10-BE-L10 (Connector)	02.05.2018	20.07.2018	02.08.2018

Cable Location	PLGR Complete	Cable Installed	Cable Trenched
String Yellow			
BE G7 - BE J6	22.04.2018	22.04.2018	01.05.2018
BE J6 - BE K6	13.04.2018	15.04.2018	19.04.2018
BE K6 - BE L7	13.04.2018	15.04.2018	18.04.2018
BE L7 – BE L8	22.04.2018	24.04.2018	25.04.2018
BE-L8-BE-M9	02.05.2018	05.08.2018	07.08.2018
BE-M9-BE-M10	02.05.2018	26.07.2018	07.08.2018

2.2.1 – Vessels Involved in Activity

The vessels involved with the described operation are the Seaway Aimery, CSV Siem Barracuda, CTV Marineco Mariah and the TSV Grand Canyon (I and then III) on behalf of BOWL.

CLV Seaway Aimery	
General Description and Dimensions:	Length overall 95.3 m Breadth moulded 21.5 m Draft max. 7.2 m
Call Sign:	LATX7
MMSI:	258182000
On Board Contact:	V-Sat phone: +44 203 1454 129
Offshore Manager / Party Chief:	Captain Direct: +44 203 1454 122 / captain@aimery.siemoffshore.com
E-mail:	bridge@aimery.siemoffshore.com
Onshore Representative:	Majbritt Pauladottir, +47 95 93 60 32, mpa@siemoffshore.com




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CSV Siem Barracuda	
General Description and Dimensions:	Length overall 121m Breadth moulded 22m Draft max. 7m
Call Sign:	5BZQ3
MMSI:	212253000
On Board Contact:	V-Sat phone: +47 23 96 06 82
Offshore Manager / Captain:	+47 989 06 307
E-mail:	captain@barracuda.siemoffshore.com
Onshore Representative:	Audun Oien, + 47 38 600 460, Audun.Oien@siemoffshore.com
	

TSV Grand Canyon I	
General Description and Dimensions:	Length overall 125.4 m Breadth extreme 30.1 m Draft max. 7.5 m
Call Sign:	LACX8
MMSI:	257031820
On Board Contact:	Inmarsat phone: +87 07 73 20 54 66
Vessel Master:	Tel: +47 21 03 45 00 Email: master@grand-canyon.no
Offshore Manager:	Tel: +44 1224 755 151 Email: gc1offman@helixesg.com
Onshore Representative:	Eirik Volstad Tel: +47 70 10 49 64 Email: eirik@volstad.com
	


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Marineco Mariah	
General Description and Dimensions:	Crew Transfer Vessel LOA 27 m Breadth moulded 10m Draft max. 2.2m
Call Sign:	2EXU3
MMSI:	235089035
Onshore Representative:	Auden Oien + 47 38 600 460 Auden.oien@siemoffshore.com
	

2.3 Offshore Transmission Modules (OTMs) Commissioning Works

Siemens Transmission and Distribution Ltd (STDL) are carrying out commissioning works on OTM1 and OTM2 in preparation for the energisation of the system.

On the 31st May at 1800hrs the following assets came under the control of the SSE operational safety rules: Shunt Reactor 3, EC1, EC2 up to transition joint bay, Interconnector Cable, OTM1, OTM2, Cyan, Blue, Gold and Amber Strings.

On 27th July at 0600hrs the Lime and Maroon Strings came under the control of SSE operational safety rules.

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Fig. 4 OTM1



Fig. 5 OTM2

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The walk to work vessel, DP Gezina is providing accommodation and logistical support in the field.

2.3.1 – Vessels Involved in Activity

DP Gezina	
General Description and Dimensions:	Walk to Work & Accommodation Vessel L 70.1m, B 11.7m, D 3.1m
Call Sign:	9HA3317
MMSI:	221497000
Onshore Representative:	John Davidson Offshore Project Manager Siemens Transmission and Distribution Ltd john.s.davidson@siemens.com +44 7808 825987



2.4 Offshore Installation of Wind Turbines

Siemens Gamesa Renewable Energy (SGRE) will supply and install 84 x 7.0 MW wind turbines in the Beatrice Offshore Windfarm (BOWL).

Wind turbine installation and commissioning works commenced offshore during July 2018, with completion of the installation expected in the Spring of 2019.

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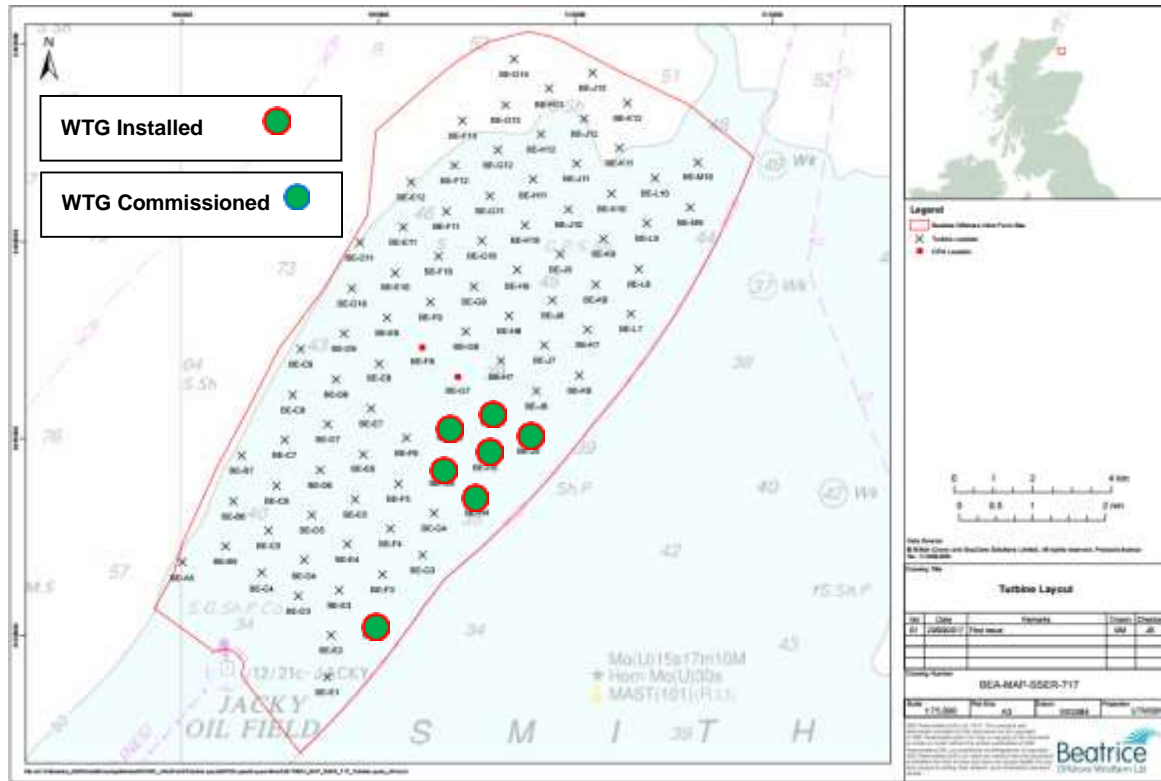


Fig. 6 Locations of WTG in the BOWL Construction Site

Table 3 – WTG Installation and Commissioning Progress

Turbine installation completed at: 07 Locations

Turbine commissioning complete at: 00 Locations

Location ID	Latitude WGS84	Longitude WGS84	WTG Installed	WTG Commissioned
BE-A5	58° 12.471' N	002° 59.996' W		
BE-B5	58° 12.687' N	002° 58.873' W		
BE-B6	58° 13.308' N	002° 58.664' W		
BE-B7	58° 13.929' N	002° 58.456' W		
BE-C4	58° 12.307' N	002° 57.948' W		
BE-C5	58° 12.902' N	002° 57.749' W		
BE-C6	58° 13.524' N	002° 57.541' W		
BE-C7	58° 14.144' N	002° 57.332' W		
BE-C8	58° 14.766' N	002° 57.124' W		
BE-C9	58° 15.386' N	002° 56.915' W		
BE-D3	58° 11.995' N	002° 57.002' W		
BE-D4	58° 12.497' N	002° 56.834' W		
BE-D5	58° 13.117' N	002° 56.626' W		
BE-D6	58° 13.739' N	002° 56.417' W		
BE-D7	58° 14.359' N	002° 56.209' W		

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Location ID	Latitude WGS84	Longitude WGS84	WTG Installed	WTG Commissioned
BE-D8	58° 14.981' N	002° 55.999' W		
BE-D9	58° 15.602' N	002° 55.790' W		
BE-D10	58° 16.223' N	002° 55.582' W		
BE-D11	58° 16.844' N	002° 55.373' W		
BE-E1	58° 10.900' N	002° 56.256' W		
BE-E2	58° 11.470' N	002° 56.128' W		
BE-E3	58° 12.090' N	002° 55.920' W		
BE-E4	58° 12.712' N	002° 55.710' W		
BE-E5	58° 13.333' N	002° 55.502' W		
BE-E6	58° 13.954' N	002° 55.293' W		
BE-E7	58° 14.575' N	002° 55.084' W		
BE-E8	58° 15.196' N	002° 54.875' W		
BE-E9	58° 15.817' N	002° 54.665' W		
BE-E10	58° 16.438' N	002° 54.456' W		
BE-E11	58° 17.059' N	002° 54.247' W		
BE-E12	58° 17.680' N	002° 54.037' W		
BE-F2	58° 11.685' N	002° 55.005' W	23.07.2018	
BE-F3	58° 12.306' N	002° 54.796' W		
BE-F4	58° 12.927' N	002° 54.588' W		
BE-F5	58° 13.548' N	002° 54.378' W		
BE-F6	58° 14.168' N	002° 54.169' W		
BE-F9	58° 16.031' N	002° 53.540' W		
BE-F10	58° 16.653' N	002° 53.330' W		
BE-F11	58° 17.274' N	002° 53.120' W		
BE-F12	58° 17.894' N	002° 52.911' W		
BE-F13	58° 18.516' N	002° 52.701' W		
BE-G3	58° 12.544' N	002° 53.726' W		
BE-G4	58° 13.142' N	002° 53.464' W		
BE-G5	58° 13.762' N	002° 53.254' W	02.08.2018	
BE-G6	58° 14.384' N	002° 53.044' W	24.07.2017	
BE-G8	58° 15.625' N	002° 52.625' W		
BE-G9	58° 16.247' N	002° 52.415' W		
BE-G10	58° 16.867' N	002° 52.204' W		
BE-G11	58° 17.488' N	002° 51.994' W		
BE-G12	58° 18.109' N	002° 51.784' W		
BE-G13	58° 18.730' N	002° 51.574' W		
BE-G14	58° 19.351' N	002° 51.362' W		
BE-H4	58° 13.356' N	002° 52.339' W	03.08.2018	
BE-H5	58° 13.977' N	002° 52.130' W	20.05.2018	
BE-H6	58° 14.598' N	002° 51.920' W	19.07.2018	
BE-H7	58° 15.219' N	002° 51.709' W		
BE-H8	58° 15.840' N	002° 51.499' W		
BE-H9	58° 16.461' N	002° 51.289' W		
BE-H10	58° 17.082' N	002° 51.079' W		
BE-H11	58° 17.703' N	002° 50.867' W		

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Location ID	Latitude WGS84	Longitude WGS84	WTG Installed	WTG Commissioned
BE-H12	58° 18.324' N	002° 50.657' W		
BE-H13	58° 18.944' N	002° 50.446' W		
BE-J5	58° 14.192' N	002° 51.005' W	14.07.2018	
BE-J6	58° 14.812' N	002° 50.795' W		
BE-J7	58° 15.433' N	002° 50.585' W		
BE-J8	58° 16.055' N	002° 50.373' W		
BE-J9	58° 16.675' N	002° 50.163' W		
BE-J10	58° 17.296' N	002° 49.952' W		
BE-J11	58° 17.917' N	002° 49.741' W		
BE-J12	58° 18.538' N	002° 49.530' W		
BE-J13	58° 19.159' N	002° 49.319' W		
BE-K6	58° 15.027' N	002° 49.669' W		
BE-K7	58° 15.648' N	002° 49.459' W		
BE-K8	58° 16.269' N	002° 49.247' W		
BE-K9	58° 16.890' N	002° 49.036' W		
BE-K10	58° 17.510' N	002° 48.825' W		
BE-K11	58° 18.131' N	002° 48.614' W		
BE-K12	58° 18.752' N	002° 48.403' W		
BE-L7	58° 15.862' N	002° 48.333' W		
BE-L8	58° 16.482' N	002° 48.122' W		
BE-L9	58° 17.104' N	002° 47.910' W		
BE-L10	58° 17.724' N	002° 47.698' W		
BE-M9	58° 17.317' N	002° 46.784' W		
BE-M10	58° 17.938' N	002° 46.571' W		

2.4.1 Activity Description

On behalf of BOWL, Siemens Gamesa Renewable Energy (SGRE) will supply 84 x SWT -7.0-154, 7MW Wind Turbine Generators to the laydown and assembly yard at Nigg Energy Park, in the Moray Firth.

Following pre-assembly, five sets of WTGs will be loaded onto the Offshore Installation / Jack up vessel Pacific Orca. The vessel will transport the WTGs to the BOWL construction site, installing each of the structures in a pre-programmed installation sequence.

The installation programme commenced in July 2018 and will continue to completion in Spring 2019.

The commissioning works will be carried out using a combination of the Walk to Work (W2W) vessel Island Crown and crew transfer vessels (CTVs), Fob Swath 3 and Seacat Resolute.

SGRE will also install and commission the Supervisory Control and Data Acquisition (SCADA) system for the operation of the WTGs.

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Fig. 7 Siemens SWT-7.0-154 WTG

2.4.2 Vessels Involved in Activity

The Offshore Supply Ship / Jack-up Pacific Orca will carry out the installation of the 84 WTG. The commissioning works for the WTG will then be carried out using the W2W vessel Island Crown and the CTVs Seacat Resolute and Fob Swath 3.

Pacific Orca	
General Description and Dimensions:	Offshore Installation / Jack up Vessel 161m x 49m
Call Sign:	5BRE3
MMSI:	210548000
Onshore Representative:	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com



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Island Crown	
General Description and Dimensions:	Accommodation and 'Walk to Work' vessel L:96.8m / B:20m
Call Sign:	LACO8
MMSI:	257245000
Onshore Representative:	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com
 A large blue and white offshore supply vessel, the Island Crown, is shown from a side-on perspective. The vessel has a white superstructure with a bridge and various antennas. The hull is dark blue with a red stripe along the bottom. It is on a body of water with a forested shoreline in the background.	

Fob Swath 3	
General Description and Dimensions:	Crew Transfer Vessel (CTV) L: 25m / B: 11m
Call Sign:	OJWY2
MMSI:	219460000
Onshore Representative:	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com
 A smaller blue and white crew transfer vessel, the Fob Swath 3, is shown from a side-on perspective. The vessel has a white superstructure and a blue hull. It is on a body of water with a lighthouse visible in the background.	


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Seacat Resolute	
General Description and Dimensions:	Crew Transfer Vessel (CTV) L: 25m / B: 11m
Call Sign:	2FWR9
MMSI:	235094873
Onshore Representative:	Gert Christensen, Marine Operation Manager Siemens Gamesa Renewable Energy A/S Fiskergade 1-9, 7100 Vejle, Denmark Mobile: +45 24295577 mailto:gert.christensen@siemensgamesa.com
	

2.5 Scientific Equipment Removal & Service and Re-installation

Currently the University of Aberdeen has only four sets of acoustic loggers located within the BOWL construction site.

Name	As laid coordinates (WGS84 datum)		Characteristics
160	58° 17.648' N	2° 49.931' W	Subsurface with transponder.
161	58° 12.933' N	2° 55.954' W	Subsurface with transponder.
162	58° 18.176' N	2° 54.124' W	Subsurface with transponder.
164	58° 12.830' N	2° 51.669' W	Subsurface with transponder

The moorings support sound recording equipment and acoustic loggers that record echolocation clicks of dolphins and porpoises (see images at the foot of this notice) Subsurface moorings fitted with acoustic releases extend no more than three metres vertically from the seabed. Subsurface moorings without acoustic releases extend no more than two metres vertically from the seabed.

A Notice to Mariners will be issued when the moorings are permanently discontinued.

For information and enquiries please contact:

Tim Candido- Barton,
 Lighthouse Field Station, University of Aberdeen,

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George Street, Cromarty,
Ross-shire,
IV11 8YL.
Tel: +44 (0)1381 600548.
t.r.barton@abdn.ac.uk



Fig. 8 Examples of equipment which the above moorings support

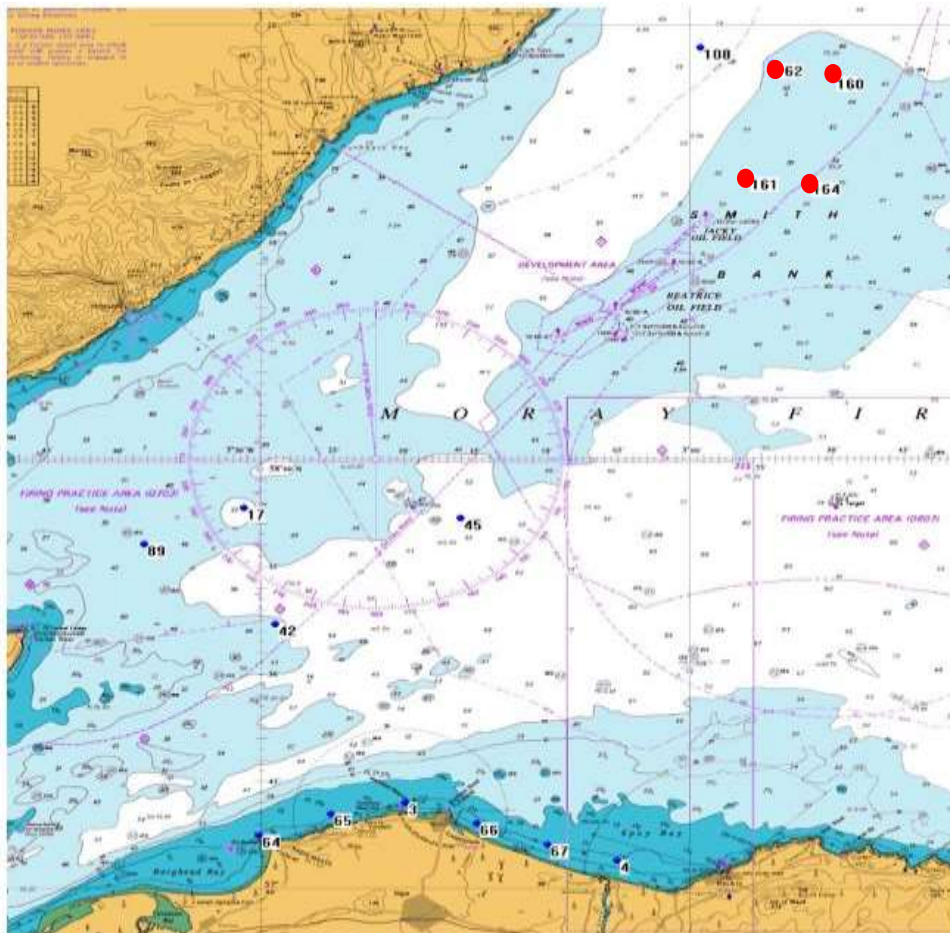


Fig. 9 Scientific equipment locations (remaining locations in red)

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3. General Safety Advice

All vessels engaged in the activity will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea; relative to their operations. All vessels engaged in the activity will also transmit an Automatic Identification System (AIS) message.

The Secretary of State has authorised the use of the following safety zones as per Notice to Mariners LF000005-NTM-004.

1. 500 metres radius around each wind turbine, offshore transformer module and / or their substructures and foundations comprising the Beatrice Offshore Wind Farm whilst work is being performed as indicated by the presence of construction vessels.
2. 50 metres radius around each wind turbine, offshore transformer module and / or their substructure and foundations installed but waiting to be commissioned as part of the Beatrice Offshore Wind Farm.

ALL VESSELS ARE REQUESTED to give all construction and support vessels a wide berth.

MARINERS ARE REMINDED to navigate with caution and keep continued watch on VHF Ch. 70 / 16 when navigating the area.

4. Guard Vessel Deployment

The guard vessel currently on the construction site is GV Shaulora. She can be contacted on VHF Ch.16

Project:	Beatrice Offshore Windfarm Guard Vessel Deployment.
Contractor:	SHL
Contract Purpose:	Guard Vessel for the Windfarm site.
Area:	BOWL construction site: within the array cable routes and foundation locations. (See Fig 1 for details)
Deployment Dates:	1 st April 2017 – TBC.
Deployment Vessel (s):	Various on a continuous 21 day rotation.
Equipment:	N/A

On behalf of BOWL, Seaway Heavy Lifting has contracted the Scottish Fishermen's Federation (SFF) to provide guard vessels during the piling and foundation installation campaigns.

The guard vessel's primary duty is security of the construction site by informing and warning non-construction vessels of the ongoing activities and associated Safety Zones.

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5. Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. For any commercial fishery queries please contact: Alex Winrow-Giffin, telephone: +44 (0)1379 872144 and mobile: +44 (0)7760 160039. alex@brownmay.com

All vessels are to be aware that there has been increased fishing activity close to the BOWL site and vessels may encounter static fishing gear whilst transiting to and from the site. Vessels sheltering to the South and West of the site should pay particular attention and keep a sharp lookout for such static fishing gear. Vessels are reminded that there are recommended transit routes to site, which should help avoid the areas of known fishing activity.

6. Distribution List

The distribution of this notice is as per email recipient's header. A central list of recipients is maintained by the Marine Coordinator. If you are not the appropriate recipient of these notices or do not wish to receive the notices in the future, please contact us at the address included in Section 1 of this notice.

7. Website

The official website of Beatrice Offshore Windfarm Limited can be found at:

<https://www.beatricewind.com>

This contains all Notices to Mariners (NtM) published by BOWL and all Weekly Notices of Operations, together with a large amount of general information about the Project.

There is also a Twitter feed at <https://twitter.com/beatricewind>.






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No Ref	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 applicable
1		Seaway Alimery	Cable Laying Vessel	Subsea7	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email. beatrice-mc@shl.nl	M0802 / 232015468 / 9694737	95 x 21 x 6.5m	18.07.2018	OWF
2		Island Crown	Walk to work WTG commissioning	Stålhaugen 12, 6065 Ulsteinvik, Norway +47 70400000	Gert Christensen Marine Operations Manager Siemens Gamesa Renewable Energy Fiskergade 1-9 7100 Vejle DENMARK gert.christensen@siemensgamesa.com + 45 242 95577	LAC08 / 257245000	96 x 20 m	15.07.2018	OWF
3		Grand Canyon	Offshore Construction / Trenching Vessel	Seaway Heavy Lifting (SHL)	Helix Canyon Offshore (UK) Helix House Aberdeen, Kirkton Dr, Pitmedden Rd Dyce Aberdeen AB21 0BG Office +44(0)1224.351800	3EVR8 / 370505000	127.75m x 25.0m x 7.5m	27.07.2018	OWF
4		Rix Lion	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email. beatrice-mc@shl.nl	2H0H3 / 235105202	26 x 10 x 2.5m	06.04.2018	OWF
5		Rix Panther	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email. beatrice-mc@shl.nl	2FR19 / 233093688	19 x 8m	04.05.2018	OWF

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No Ref	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 applicable
6		Seacat Intrepid	Crew Transfer Vessel / CTV	Seacat Services Ltd	Andrew Link Operations Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 operations@seacatservices.co.uk	2HWMJ6 / 235107284	27 x 10 x 1.5m	25.09.2017	OWF & OTW
7		Marineco Mariah	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL) for Siem Offshore Contractors	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email, beatrice-mc@shl.nl	2EKUJ3 / 235089035 / 9638240	27 x 10 x 2.2m	18.06.2018	OWF
8		Siem Barracuda	Cable Support Vessel	Siem Offshore Contractors for Seaway Heavy Lifting (SHL)	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email, beatrice-mc@shl.nl	5BZQ3 / 212253000	120 x 22 x 6m	09.03.2018	OWF
9		Dally Aire	Crew Transfer Vessel / CTV	Seacat Services Ltd	Andrew Link Operations Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 operations@seacatservices.co.uk	2HWMJ6 / 235097362	19 x 8 x 1.7m	16.05.2018	OWF
10		Rix Cheetah	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email, beatrice-mc@shl.nl	2GGY7 / 235097312	25 x 7m	04.06.2018	OWF

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No Ref	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 applicable
11		Dalby Ribble	Crew Transfer Vessel / CTV	Seacat Services Ltd	Andrew Link Operations Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 operations@seacatservices.co.uk	ZIVX5 / 235113236	25.75 x 10.06m	01.07.2018	OWF
12		Seacat Resolute	Crew Transfer Vessel / CTV	Seacat Services Ltd	Gert Christensen Marine Operations Manager Siemens Gamesa Renewable Energy Fiskergade 1-9 7100 Vejle DENMARK gert.christensen@siemensgamesa.com + 45 242 95577	2FWR9 / 235094873	24 x 7m	30.06.2018	OWF
13		Pacific Orca	Offshore Supply Ship	Siemens Gamesa Renewable Energy (SGRE)	Gert Christensen Marine Operations Manager Siemens Gamesa Renewable Energy Fiskergade 1-9 7100 Vejle DENMARK gert.christensen@siemensgamesa.com + 45 242 95577	5BRE3 / 210540000	161.3 x 49.02m	10.07.2018	OWF
14		FOB Swath 3	Crew Transfer Vessel / CTV	Siemens Gamesa Renewable Energy (SGRE)	Gert Christensen Marine Operations Manager Siemens Gamesa Renewable Energy Fiskergade 1-9 7100 Vejle DENMARK gert.christensen@siemensgamesa.com + 45 242 95577	OUIWY2 / 219460000	24.97 x 10.83m	10.07.2018	OWF
15		Offshore Waddenzee	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Rene Afferink / Vincent van Velsen (SHL) c/o Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email: beatrice-mc@shl.nl	ZHSC3 / 235106183	19.7 x 8.2m	02.07.2018	OWF

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16		DP Gezina	Walk to Work Vessel	Siemens Transmission and Distribution Ltd (STDL)	John Davidson Offshore Project Manager Siemens Transmission and Distribution Ltd john.s.davidson@siemens.com +44 7608 825387	9HA3317 / 229417000	70.1 x 11.7m	08.07.2018	OWF
17		Shaulora BF794	Guard Vessel	Scottish Fishermens Federation (SFF) for Seaway Heavy Lifting (SHL)	Rene Alferink / Vincent van Velsen (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email. beatrice-mc@shl.nl	2KDK / 234014000	17 x 5m	03.08.2018	OWF
18		Dalby Tees	Crew Transfer Vessel / CTV	Seacat Services Ltd	Andrew Link Operations Manager, Seacat Services Ltd 2 Mariners Way, Cowes, Isle of Wight +44 (0)1983 475315 operations@seacatservices.co.uk	2FIA7 / 235091458	19 x 6m	30.07.2018	OWF
19		CTV Green Quest	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL)	Rene Alferink / Vincent van Velsen (SHL) C/O Subsea 7 East Campus Arnhall Business Park Westhill, Aberdeenshire, AB32 6FE Email. beatrice-mc@shl.nl	2DYY8 / 235083117	16 X 6m	10.08.2018	OWF