Weekly Notice of Operations (WNoO)
Beatrice Offshore Windfarm Limited
Construction Operations

Notice of Operations at Beatrice Offshore Wind Farm Week 16

Work Planned for the Period 17.04.2017 to 23.04.2017

Construction of the Beatrice Offshore Wind Farm commenced on the 1st of April. Pre-construction Boulder Removal works were completed on the 12th of April. 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. If you are not the appropriate recipient of these notices, or do not wish to receive the notices in the future, please let us know by reply or email (see details in Section 1).

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 130km^2 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 Blackhillock. The transmission cables will 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.

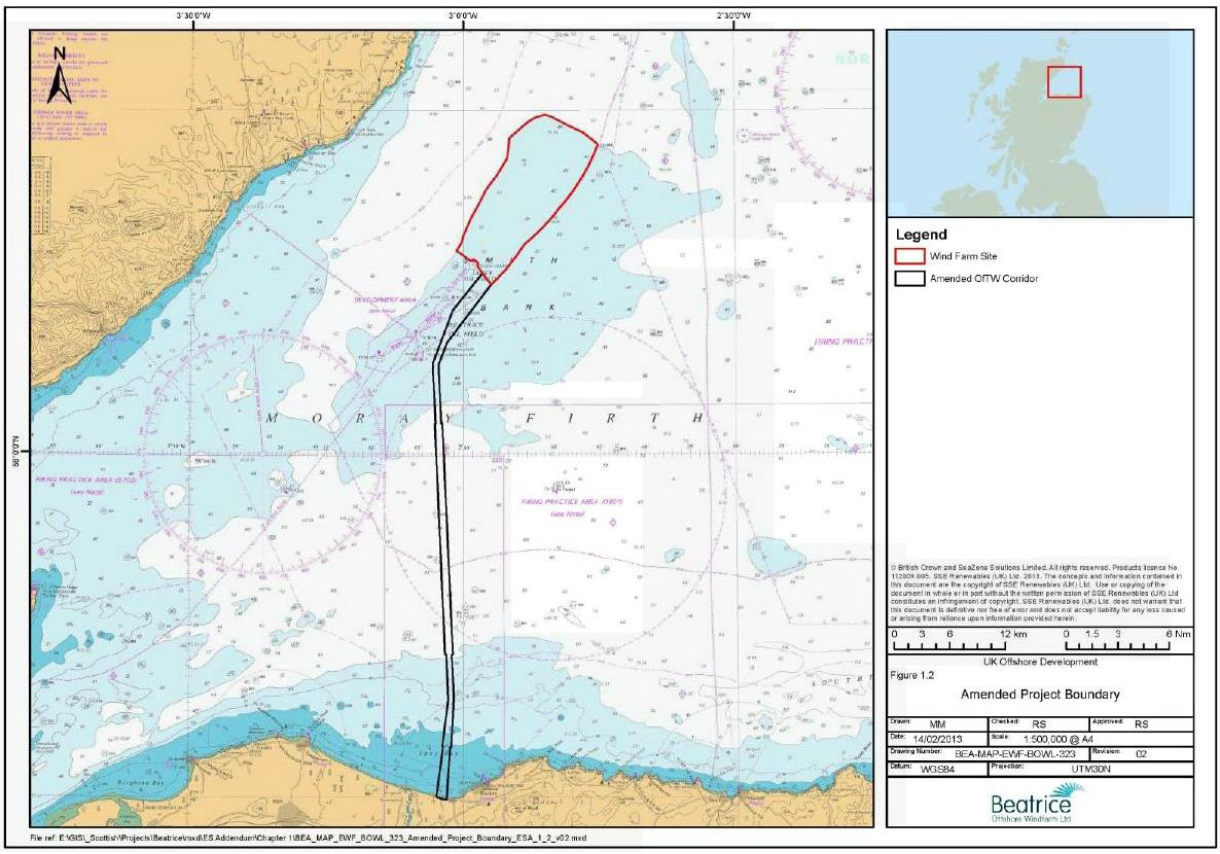


Fig 1 - Beatrice Offshore Wind Farm Location

Weekly Notice of Operations (WNoO)
Beatrice Offshore Windfarm Limited
Construction Operations

Installation works detailed below commenced on the 1st of April 2017. Pre-construction boulder removal work scope was completed on the 12th of April.

- Piling operations (Detailed in this notice).
- Guard Vessel duties. (Detailed in this notice).
- Installation of Direct Cable Pipes at Portgordon near Buckie. (Detailed in this notice).

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. Completed Operations

Beatrice Offshore Wind Farm Wave Rider Buoy Deployment

Project:	Waverider Buoy Deployment
Contractor:	SHL (Seaway Heavy Lifting)
Contract Purpose:	To install x 4 Waverider Buoys
Area:	BOWL Construction Site: Close proximity to the Cardinal Buoys
Deployment Date:	30 March 2017
Deployment Vessel	Bremen Fighter
Equipment:	Anchor Handling Equipment

On behalf of BOWL, Seaway Heavy Lifting have deployed four Waverider buoys at the following locations within the Beatrice Offshore Wind Farm,

Name	Coordinates (WGS84)	Characteristics
Wave Rider Buoy #1	58^0 10.613'N 002^0 55.353'W	LED Flashlight Antenna with integrated LED flasher, colour yellow, pattern 5 flashes every 20 s, standard length of antenna is 200 cm
Wave Rider Buoy #2	58^0 18.005'N 002^0 45.369'W	LED Flashlight Antenna with integrated LED flasher, colour yellow, pattern 5 flashes every 20 s, standard length of antenna is 200 cm
Wave Rider Buoy #3	58°19.882'N 002^0 50.553'W	LED Flashlight Antenna with integrated LED flasher, colour yellow, pattern 5 flashes every 20 s, standard length of antenna is 200 cm

Name	Coordinates (WGS84)	Characteristics
Wave Rider Buoy #4	58^0 12.6'N 003^0 00.869'W	LED Flashlight Antenna with integrated LED flasher, colour yellow, pattern 5 flashes every 20 s, standard length of antenna is 200 cm

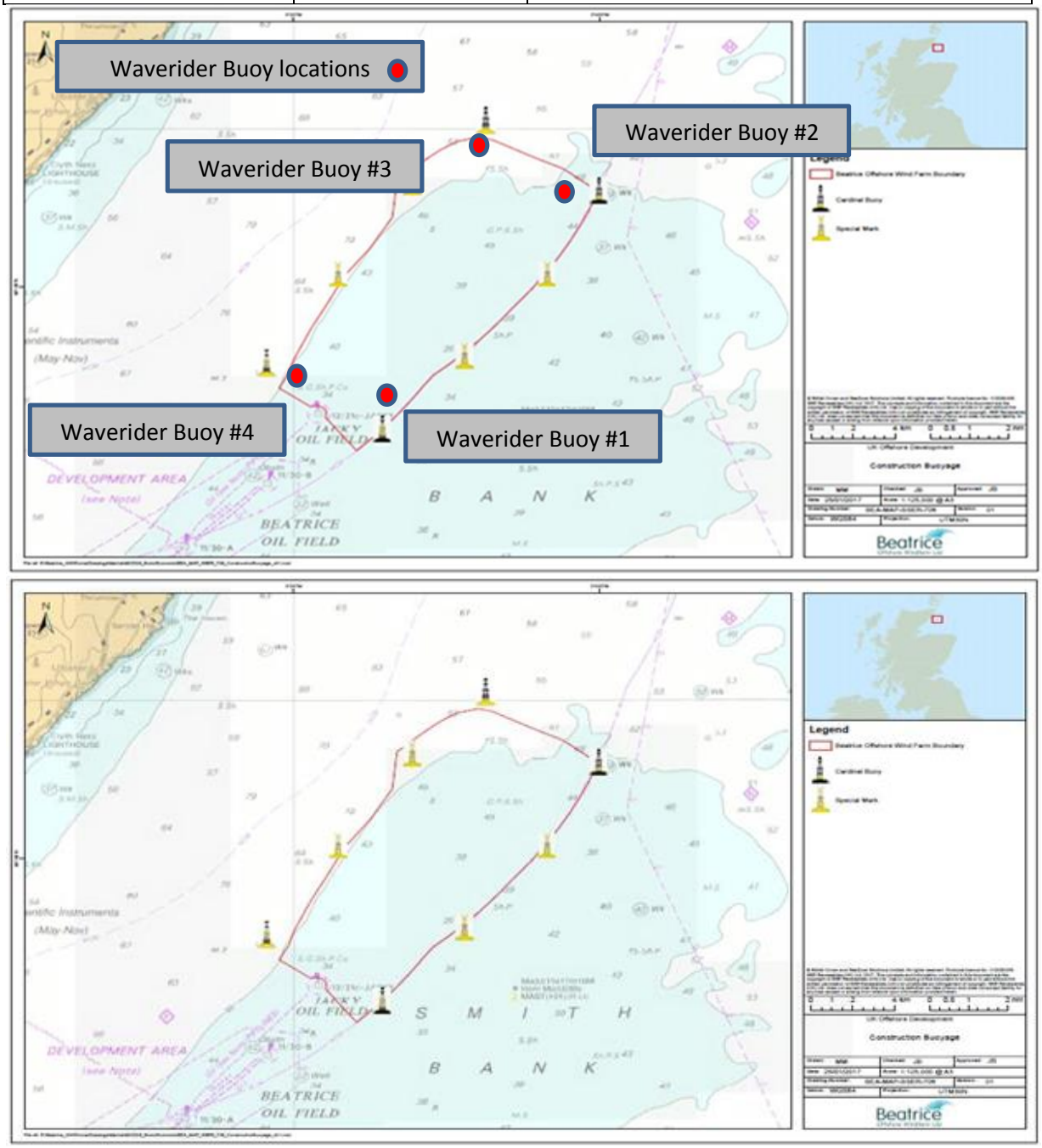


Fig 2 - Waverider Locations

3. Ongoing Operations

3.1 Beatrice Offshore Wind Farm Piling Campaign

Project:	Foundation Piling Campaign
Contractor:	SHL
Contract Purpose:	To install x 4 piles at the two OTM's and each Turbine Location within the construction site.
Area:	BOWL Construction Site: Foundation Locations. (See Fig 5 for details).
Deployment Dates:	01 April 2017 - 31 October 2017.
Deployment Vessel (s):	Stanislav Yudin, Bremen Fighter, Smit Sentosa & Rix Lynx, with various tugs and associated barges.
Equipment:	Piling Installation Frame (PIF), Piling Hammer and Transport barges.

On behalf of BOWL, Seaway Heavy Lifting will deploy various vessels to carry out the aforementioned work during the period 01/04/2017 – 31/10/2017 within the boundary of the BOWL construction site.

In preparation for the installation of wind turbine foundations, in the Beatrice Offshore Windfarm construction site, a set of four piles will be installed in the seabed at each of the foundation locations. On completion, the date will be recorded in Table 1 below.

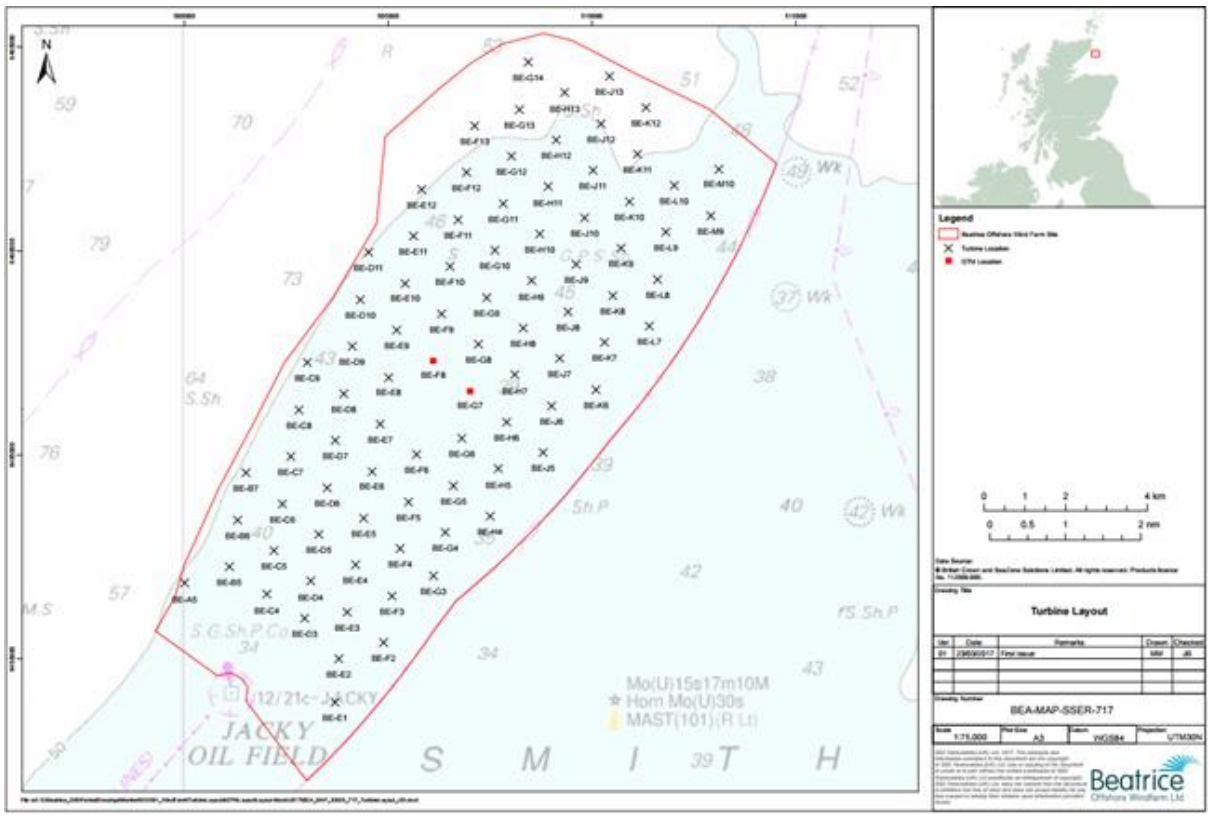


Fig 3 - BOWL Construction Site showing Foundation Locations

Table 1 - WTG and OTM Location Coordinates

Location ID	Latitude WGS84	Longitude WGS84	Piling Complete
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	
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	10.04.2017
BE-E2	58 11.470' N	002 56.128' W	14.04.2017
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	
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-F8 (OTM2)	58 15.411' N	002 53.750' W	08.04.2017
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	

Location ID	Latitude WGS84	Longitude WGS84	Piling Complete
BE-G4	58 13.142' N	002 53.464' W	
BE-G5	58 13.762' N	002 53.254' W	
BE-G6	58 14.384' N	002 53.044' W	
BE-G7 (OTM1)	58 15.004' N	002 52.834' W	03.04.2017
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	
BE-H5	58 13.977' N	002 52.130' W	
BE-H6	58 14.598' N	002 51.920' W	
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	
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	
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	

3.2 Vessels on Site Associated with the Activity

Stanislav Yudin	
General Description and Dimensions:	Heavy Lift Vessel L:183.3m B: 40.0m D:8.9m
Call Sign & MMSI:	V20Y1 / 304742000
On Board Contact for BOWL:	Chris Hadlow
Offshore Manager / Party Chief:	Joanes van der Vliet
E-mail:	stanislav-yudin@shl.com.cy
Onshore Representative:	Danny Sprangers email: dsprangers@shl.nl

The heavy lift vessel Stanislav Yudin has a 2,500 tonnes revolving crane, a 500 tonnes auxiliary hook and a 30 tonnes trolley hoist. With 78.4 m on the main hook and 100.8 m on the auxiliary, the Stanislav Yudin is designed for a broad range of offshore installation tasks. This Light Ice Class crane vessel has 2,560 sq. m of deck space (5,000 tonnes load capacity), with 20 m clearance between deck and boom at rest. It has an eight-point mooring system and combines high transit speed with shallow draft (5.5 m). There is accommodation for 151 persons and the helideck is equipped for S61 or equivalent.

Bremen Fighter	
General Description and Dimensions:	Anchor Handling Tug L:48.1m B:14.06m D:6.0m
Call Sign & MMSI:	V20Y1 / 304742000
On Board Contact for BOWL:	Chris Hadlow
Offshore Manager / Party Chief:	Joanes van der vliet
E-mail:	stanislav-yudin@shl.com.cy
Onshore Representative:	Danny Sprangers email: dsprangers@shl.nl

Smit Sentosa	
General Description and Dimensions:	Anchor Handling Tug L:51.8m B:15.0m D:5.7m
Call Sign & MMSI:	ORRX / 205696000
On Board Contact for BOWL:	Chris Hadlow
Offshore Manager / Party Chief:	Joanes van der vliet
E-mail:	stanislav-yudin@shl.com.cy
Onshore Representative:	Danny Sprangers email: dsprangers@shl.nl

Piling Operations

Pile foundations will be installed by the Heavy Lift Vessel (HLV) Stanislav Yudin, which will arrive at the proposed foundation installation location and will be positioned in readiness for the foundation installation works. This will involve the placing of an eight point anchor spread using two dedicated anchor handling tugs, Bremen Fighter and Smit Sentosa.

Pile foundations will be installed by the use of a Pile Installation Frame (PIF), an example of which is shown in Figure 6. Pile installation tolerances will be achieved through the use of a hydraulically operated PIF with sufficient travel to accommodate the worst case seabed slopes to ensure the piles are installed correctly.

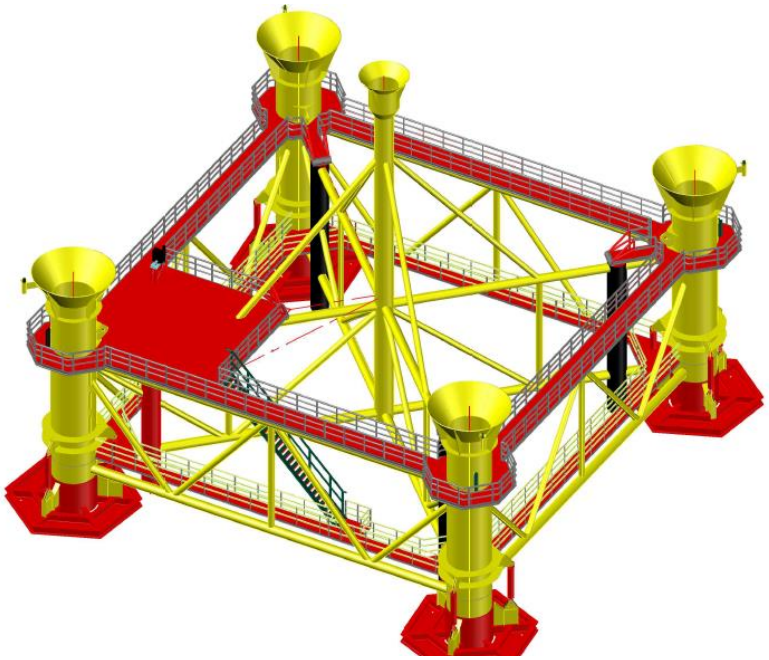


Fig 4 - Pile Installation Frame (PIF)

Fig 5 - PIF Lowering

The PIF will be lifted from the HLV and lowered to the seabed in positon ready for the piling operations and levelled hydraulically to take into account seabed slope. Each of the four piles is then lifted and lowered into the PIF in readiness for the piling operation The approximate duration of pile installation frame positioning will be up 4 hours.

The pile foundations will be delivered to the HLV by cargo barge directly from the manufacturing site. The cargo barge will be moored alongside the HLV and the four piles will each be lifted and transferred to the deck of the HLV. The cargo barge will then be unmoored and will depart. Each of the four piles will then be lifted, upended, lowered into the PIF and vibrated (vibro-piled) in readiness for the piling operation.

Vibropiling is a technique used to make the pile oscillate at a low frequency of about 20Hz. Having been lifted into the PIF, each pile will be vibro-piled to a nominal penetration or until refusal, whichever occurs first. This process continues until all four piles are settled in the PIF. The purpose of the vibropiling will be to settle the piles into the PIF in advance of percussive piling. The approximate duration of pile installation at each location is 7 hours. The approximate duration of vibropiling will be up to 2 hours at each location.

Piling Mitigation Protocol

The piling hammer will be lifted on to the top of the first pile in the PIF. The approximate duration of setting up the piling hammer on the first pile will be 2 hours. Prior to commencing piling the Piling Mitigation Protocol will be implemented. This will include the deployment of the Acoustic Deterrence Device (ADD) and a soft start piling procedure.

The approximate duration of mitigation depends on the duration of any breaks, the ADDs may also be deployed concurrently with setting up the piling hammer.

Piling to Full Penetration

Following completion of the mitigation described above, the piling operators will gradually increase the hammer energy applied until the pile is penetrating the seabed at the target rate of approximately 1 cm to 2.5 cm per hammer strike (see Figure 10 for pile hammer installing a pile). If this target rate is reached with a lower than anticipated hammer energy, the hammer energy is unlikely to be increased further. Final penetration depth is reached when the pile foundations stick up between 2m and 6m above the seabed. Once the first pile in the PIF has been fully installed, the hammer will be repositioned to commence piling at the next pile in the PIF. The mitigation implemented prior to commencing this second piling event will depend on the duration of the break between piling each pile in the PIF as set out in the Piling Mitigation Protocol. The anticipated duration for re-positioning the hammer to commence piling at the next pile in the PIF will be 10 minutes to 1 hour. For the four piles hammer re-positioning may therefore take up to 3 hours in total.

Figure 6 - Hammer Positioned on Pile

The anticipated duration of piling to full penetration depth (including the mitigation period) at each wind turbine or OTM location ranges between 5.4 to 12.7 hours. Once all four of the piles in the PIF have been pile-driven to the required depth pile metrology is performed (measurements to determine pile position and depth is satisfactory). The duration for performing pile metrology is 1 hour. The PIF will then be recovered back to the deck of the HLV and the HLV will be readied for transit to the next foundation location. Recovery of the PIF will take approximately 2.5 hours.

The operation will involve placing an anchor spread using a dedicated AHT, using up to eight anchors, with each anchor up to 850 metres from the Stanislav Yudin. An anchor buoy will mark the anchor position.

A minimum safe passing distance of 1500m has been established around the Stanislav Yudin to take into account the size of her anchor spread.

The Stanislav Yudin, the Bremen Fighter and the Smit Sentosa will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea; relative to the operation. They will also transmit an AIS message.

3.3 Beatrice Offshore Wind Farm Guard Vessel Deployment

Project:	Beatrice Offshore Windfarm Guard Vessel Deployment.
Contractor:	SHL – SFF Services Ltd.
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:	From 01 April 2017, Consortium from 19th April
Deployment Vessel (s):	Genesis BCK19, Consortium PD17
Equipment:	N/A

On behalf of BOWL, Seaways Heavy Lifting has contracted the Scottish Fishermen's Federation to provide guard vessels during the piling and foundation installation campaigns. These vessels will change regularly, however apart from times of extreme weather, there will always be at least one guard vessel on station. 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. The first guard vessel on site is the Genesis Bck19 and expected to be relieved by the Consortium on or about 19th April 2017.

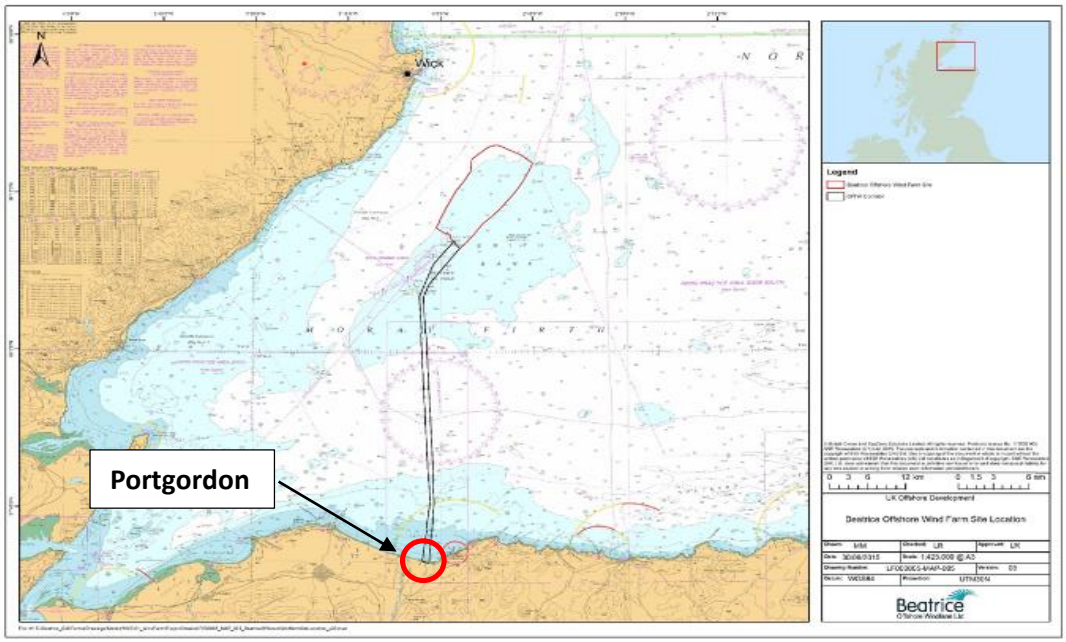
Genesis	
General Description and Dimensions	Guard Vessel: L:35.70m B:6m D:3.0m
Call Sign:	MGGT9
MMSI:	235008110
On Board Contact:	A Morrice - Tel: 07712 114874
E-mail:	ops@sff.co.uk
Onshore Representative:	SFF Services Limited Office. Tel: 01224 646966

Consortium Due 19th April 2017	
General Description and Dimensions	Guard Vessel: L:21.0m B:7.0m D: 2.6m
Call Sign:	MNYQ5
MMSI:	235000620
On Board Contact:	S Buchan – Tel 07738 931075
E-mail:	ops@sff.co.uk
Onshore Representative:	SFF Services Limited Office. Tel: 01224 646966

3.4 Export Cable Installation Stage 1 – Installation of Direct Cable Pipes at Portgordon

Project:	Export Cable Installation Stage 1 Commences 18th April 2017.
Contractor:	Nexans
Contract Purpose:	Installation of Direct Cable Pipes at Portgordon
Area:	Portgordon near Buckie
Deployment Dates:	Approximately 18th April to 30th June 2017.
Deployment Vessel (s):	Haven Seariser 1, Forth Constructor & Skua
Equipment:	Diving operations, tunnelling & seabed preparation equipment.

BOWL intends to install the export cables beneath Portgordon Beach. Pre-installed Direct Cable Pipes require to be installed from the shoreline to an offshore exit point. These pipes are installed using a micro-tunnelling machine pushed through the ground beneath the seabed. At the exit points approximately 420-450m offshore, the removal of the Tunnelling tool and excavation works associated with this operation will take place. During this period Diving & Underwater operations shall be conducted.



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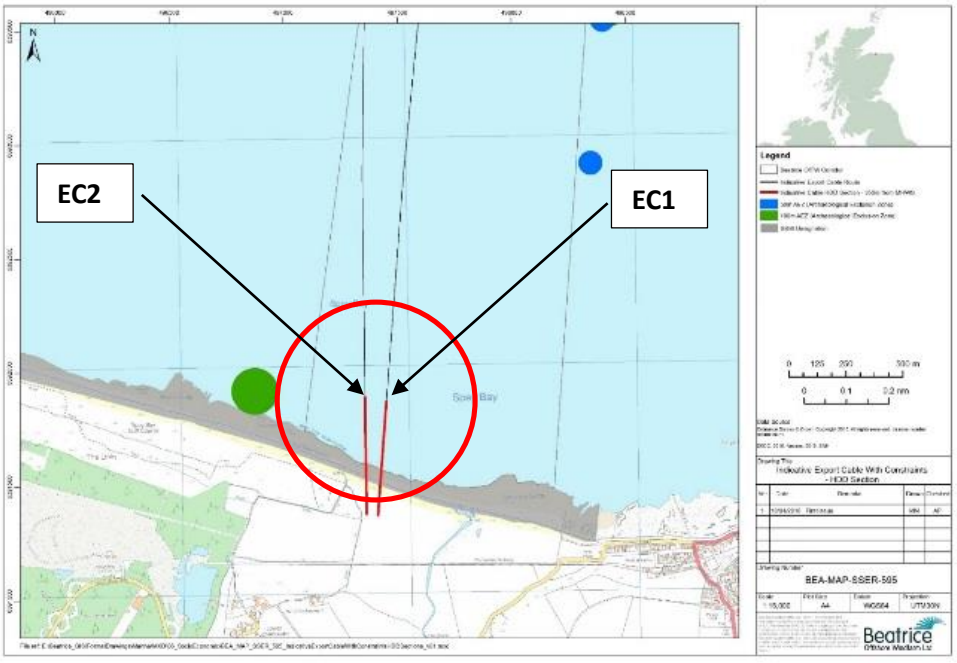
Portgordon, near Buckie approximately 420-450m from the Portgordon Beach

Jack Up Barge Locations	Latitude WGS84	Longitude WGS84
EC1	57º 40.113'N	003º 02.471'W
EC2	57º 40.143'N	003º 02.655'W

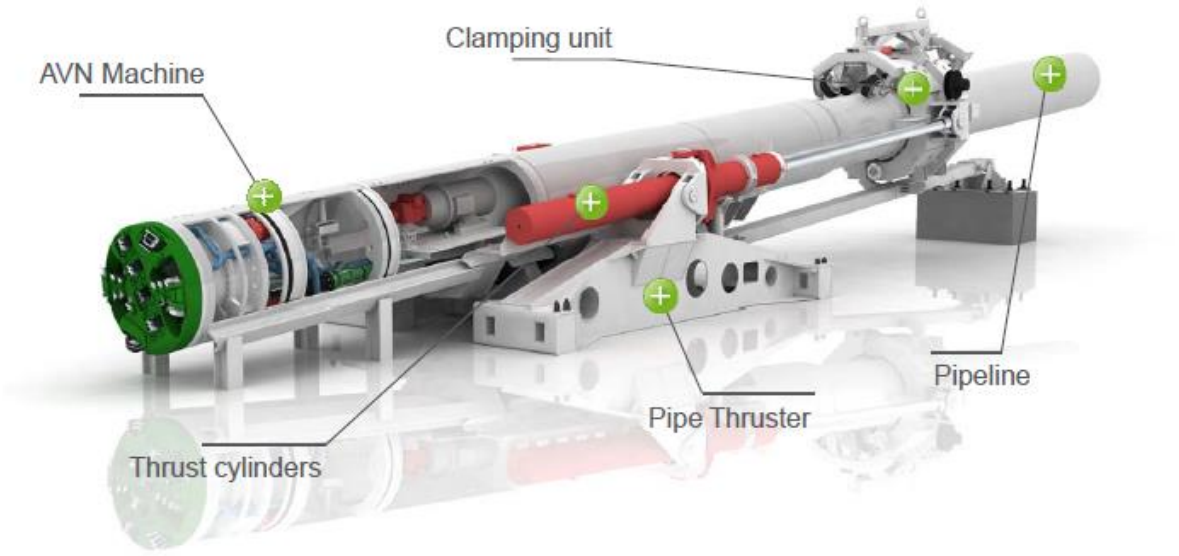


Work locations are approximately 420-450m from the Portgordon Beach near Buckie.

Direct pipe drilling, this method installs the pipe directly as part of the drilling operation, is suitable for sea outfalls as the pipeline is simultaneously installed whilst the borehole is being drilled. The pipeline provides support reducing the risk of borehole collapse in soft sediments

This method is referred to as 'direct pipe' because in a single step, a prefabricated pipeline can be installed and the required duct excavated at the same time. Once installed, the pipeline permanently supports the ducts, thus avoiding the risk of collapse. Seabed sediments are excavated by a micro-tunnelling machine and excavated material is pumped out via the prefabricated pipeline, which is connected to the tunnelling machine. The tunnelling system is lubricated with Bentonite solution.

Main system components of the Direct Pipe drill method



The micro-tunnelling machine and pipeline behind it are pushed into the ground from onshore by a pipe thruster from a launch pit. The cutting wheel at the machines head breaks down and removes the material as it is directed along the determined route beneath the seabed.

The drill machine is disconnected once it reaches the appropriate distance offshore and is recovered by divers or crane barge once it reaches the outfall. The pipe opening is then sealed to prevent sediment entering the pipeline.

If any difficulties are encountered, the pipe thruster can pull back the pipeline together with the Direct Pipe machine to begin the process again.

Direct Pipe methodology offers a number of benefits over HDD for installation; allowing a shallower profile that results in fewer transmission losses and reduced installation risks.

3.4.1 Vessels Involved with Installation of Direct Cable Pipes at Portgordon

Haven Seariser 1	
General Description and Dimensions	Jack Up Barge, L:29.6 / B:17.07 / D:2.44
Call Sign:	N/A
MMSI:	N/A
On Board Contact:	Kristen branford & Paul Ridout
E-mail:	enquiries@r7m.co.uk
Onshore Representative:	Øyvind Haug BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09

	Forth Constructor
General Description and Dimensions	Multicat Work Vessel.L:28.50m B:9.45m D:4.27m
Call Sign:	GXAD
MMSI:	235004217
On Board Contact:	Graham Gray
E-mail:	(e) marketing@briggsmarine.com
Onshore Representative:	Øyvind Haug BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09

Skua	
General Description and Dimensions	Crew Transfer Vessel, L:10.5m B:3.51m D:1.1m
Call Sign:	N/A
MMSI:	N/A
On Board Contact:	Bill Ruck
E-mail:	bill@moraymarine.com
Onshore Representative:	Øyvind Haug BEATRICE Installation Engineering Manager Mob: +47 916 27 674 Office: +47 22 88 65 09

4. 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.

5. Dedicated Guard Vessel

The Guard Vessel Genesis will take up station on 01 April 2017. Guard Vessel Consortium will relieve Genesis on the 19th of April. (See section 3.3 above)

6. 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.

7. 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.

8. 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.

Beatrice Offshore Windfarm
Vessels, Contractors and Sub-Contractors

Date: 15-Apr-17

Reference to Marine Licence
Conditions 2.5, 2.6 and 3.1.2

Vessel Data Matrix

No Ref	Vessel Picture	Vessel Name	Type / Function	Operator	Contact / contact details	Call sign / MMSI / IMO	LOA (m) Beam (m) Draft (m)	Date on Site
1		**Bremen Fighter**	Anchor Handling Tug assisting the Stanislav Yudin	Seaway Heavy Lifting (SHL) Albert Einsteinlaan 50 2719 ER Zoetermeer Netherlands 0031 79 363 7700	Danny Sprangers (SHL) C/o Subsea 7 East Campus Prospect Road Arnhall Business Park Westhill, Aberdeenshire AB32 6FE +31 653997158 EMAIL:dsprangers@shl.nl	V20Y1 / 304742000	48.1 / 14.06 / 6.0	27.03.2017
2		**Stanislav Yudin**	Heavy Lift Vessel	Seaway Heavy Lifting (SHL) Albert Einsteinlaan 50 2719 ER Zoetermeer Netherlands 0031 79 363 7700	Danny Sprangers (SHL) C/o Subsea 7 East Campus Prospect Road Arnhall Business Park Westhill, Aberdeenshire AB32 6FE +31 653997158 EMAIL:dsprangers@shl.nl	5BYM2 / 210334000	183.3 / 40.0 / 8.9	27.03.2017
3		**Smit Sentosa**	Anchor Handling Tug assisting the Stanislav Yudin	Seaway Heavy Lifting (SHL) Albert Einsteinlaan 50 2719 ER Zoetermeer Netherlands 0031 79 363 7700	Danny Sprangers (SHL) C/o Subsea 7 East Campus Prospect Road Arnhall Business Park Westhill, Aberdeenshire AB32 6FE +31 653997158 EMAIL:dsprangers@shl.nl	ORRX / 205696000	51.8 / 15.0 / 6.2	27.03.2017
4		**Rix Lynx**	Crew Transfer Vessel / CTV	Seaway Heavy Lifting (SHL) Albert Einsteinlaan 50 2719 ER Zoetermeer Netherlands 0031 79 363 7700	Danny Sprangers (SHL) C/o Subsea 7 East Campus Prospect Road Arnhall Business Park Westhill, Aberdeenshire AB32 6FE +31 653997158 EMAIL:dsprangers@shl.nl	2JGQ6 / 235115745	26 / 7.0 / 2.0	27.03.2017

5		**President Hubert**	Anchor Handling Tug	Seaway Heavy Lifting (SHL) Albert Einsteinlaan 50 2719 ER Zoetermeer Netherlands 0031 79 363 7700	Royal Boskalis Westminster N.V. PO Box 43 3350 AA Papendrecht The Netherlands T +31 78 69 69 000 F +31 78 69 69 555 royal@boskalis.com www.boskalis.com	ORLD / 205067000	60.0 / 15.0 / 6.40	01.04.2017
6		**Union Boxer**	Anchor Handling Tug	Seaway Heavy Lifting (SHL) Albert Einsteinlaan 50 2719 ER Zoetermeer Netherlands 0031 79 363 7700	Royal Boskalis Westminster N.V. PO Box 43 3350 AA Papendrecht The Netherlands T +31 78 69 69 000 F +31 78 69 69 555 royal@boskalis.com www.boskalis.com	ORPS / 205575000	96.3 / 21.5 / 6.3	01.04.2017
7		**Genesis**	Guard Vessel	Scottish Fisheries Federation for Seaway Heavy Lifting	SSF services Limited (SFFSL) Office, Tel: 01224 646966, E: ops@sff.co.uk	MGGT9 / 235008110	35.0 / 6.0 / 3.0	01.04.2017
8		**Union Princess**	Anchor Handling Tug	Bridge Email:bridge@princess.urs.be Bridge Mob: +31 62 70 72 737	Royal Boskalis Westminster N.V. PO Box 43 3350 AA Papendrecht The Netherlands T +31 78 69 69 000 F +31 78 69 69 555 royal@boskalis.com www.boskalis.com	ORQU / 205642000	67.4 / 15.50 / 7.44	18.04.2017
9		**Consortium PD174**	Guard Vessel	Scottish Fisheries Federation for Seaway Heavy Lifting	SSF services Limited (SFFSL) Office, Tel: 01224 646966, E: ops@sff.co.uk	MNYQ5 / 2350000620	21.0 / 7.0 / 2.9	19.04.2017

Beatrice Offshore Windfarm
Vessels, agents, contractors and sub-contractors

Date: 14-Apr-17

Reference to Marine Licence
Conditions 2.5, 2.6 and 3.1.2

Vessel Data Matrix for Buckie

No Ref	Vessel Picture	Vessel Name / Flag	Type / Function	Vessel Contact / Master's name	Company Name / Contact / contact details	Call sign / MMSI / IMO	LOA (m) Beam (m) Draft (m)	Date on Site
1		**Haven Seariser 1**	Jack Up mobile barge.	Kristen branford & Paul Ridout	Red7marine +44(0) 1255 886 710 www.red7marine.co.uk enquiries@r7m.co.uk	N/A	29.6 / 17.07 / 2.44	18th April 2017
2		**MV Skua**	Crew Transfer Vessel / CTV.	Bill Ruck 07775802963 bill@moraymarine.com	Moray First Marine Ltd Wester Oldtown Roseisle Elgin Moray IV30 5YD	N/A	10.5 / 3.51 / 1.1	18th April 2017
3		**Forth Constructor**	Service Vessel	Graham Gray	Briggs Marine & Environmental Services Head Office Seaforth House Seaforth Place Burntisland Fife	GXAD / 235004217	L:28.50m B:9.45m D:4.27m	18th April 2017