Date of issue:	12/11/2021
Period covered:	03/11/2021 – 17/11/2021
Notice number:	066
Author:	Claire Gilchrist

Construction of the Neart na Gaoithe (NnG) Offshore Wind Farm is ongoing. This notice is updated weekly giving information on the progress and resources involved in the offshore works. The intention is to give an overview of activities and vessels involved. Questions regarding the operations are welcomed.

Current works include;

1. Guard vessel duties (Section 3.1)
2. Pile Installation (Section 3.2)
3. Offshore Seabed Preparation (Section 3.3)
4. Nearshore Post-Cable Installation Works (Section 3.4)
5. Rock Protection Installation (Section 3.5)

1 Project Location

The following tables and figures illustrate the boundaries, safety zones and exclusions applicable to the Neart na Gaoithe wind farm area and export cable corridor.

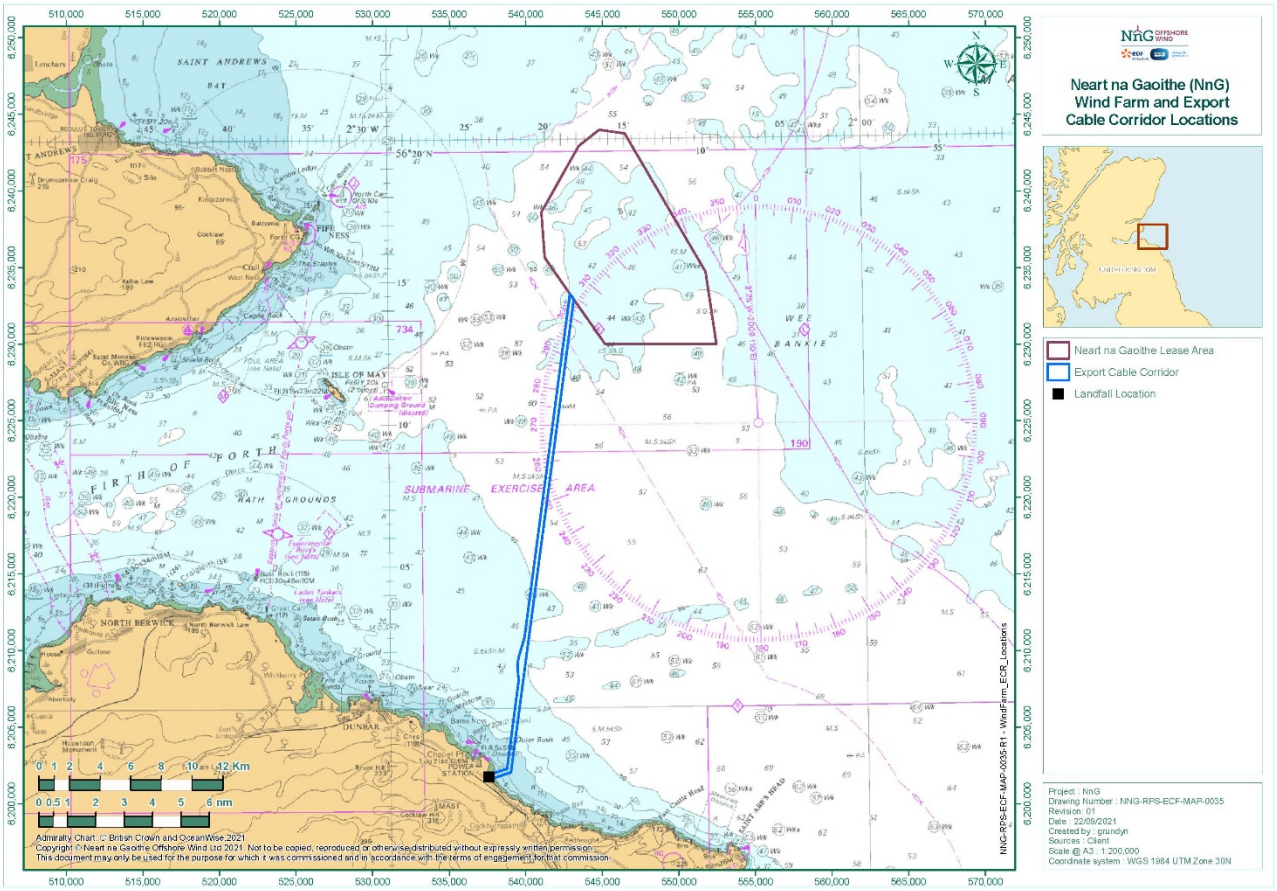


Figure 1 - Wind Farm Area and Export Cable

Table 1 - Wind Farm Area and Export Cable Coordinates

Wind Farm Area Coordinates (WGS84)	
LONGITUDE (DDM)	LATITUDE (DDM)
002° 09.898' W	56° 15.271' N
002° 09.255' W	56° 12.721' N
002° 13.998' W	56° 12.752' N
002° 16.293' W	56° 12.766' N
002° 19.628' W	56° 15.479' N
002° 20.055' W	56° 15.827' N
002° 20.232' W	56° 17.430' N
002° 17.826' W	56° 19.752' N
002° 16.518' W	56° 20.312' N
002° 14.910' W	56° 20.171' N

Export Cable Corridor Coordinates (WGS84)	
LONGITUDE (DDM)	LATITUDE (DDM)
2° 22.472' W	55° 57.734' N
2° 23.539' W	55° 57.541' N
2° 23.802' W	55° 57.584' N
2° 23.820' W	55° 57.609' N
2° 23.636' W	55° 57.693' N
2° 22.729' W	55° 57.866' N
2° 21.938' W	56° 00.990' N
2° 21.951' W	56° 01.007' N
2° 22.005' W	56° 01.449' N
2° 22.004' W	56° 01.552' N
2° 21.932' W	56° 01.795' N
2° 21.563' W	56° 02.468' N
2° 18.479' W	56° 14.546' N
2° 18.237' W	56° 14.349' N

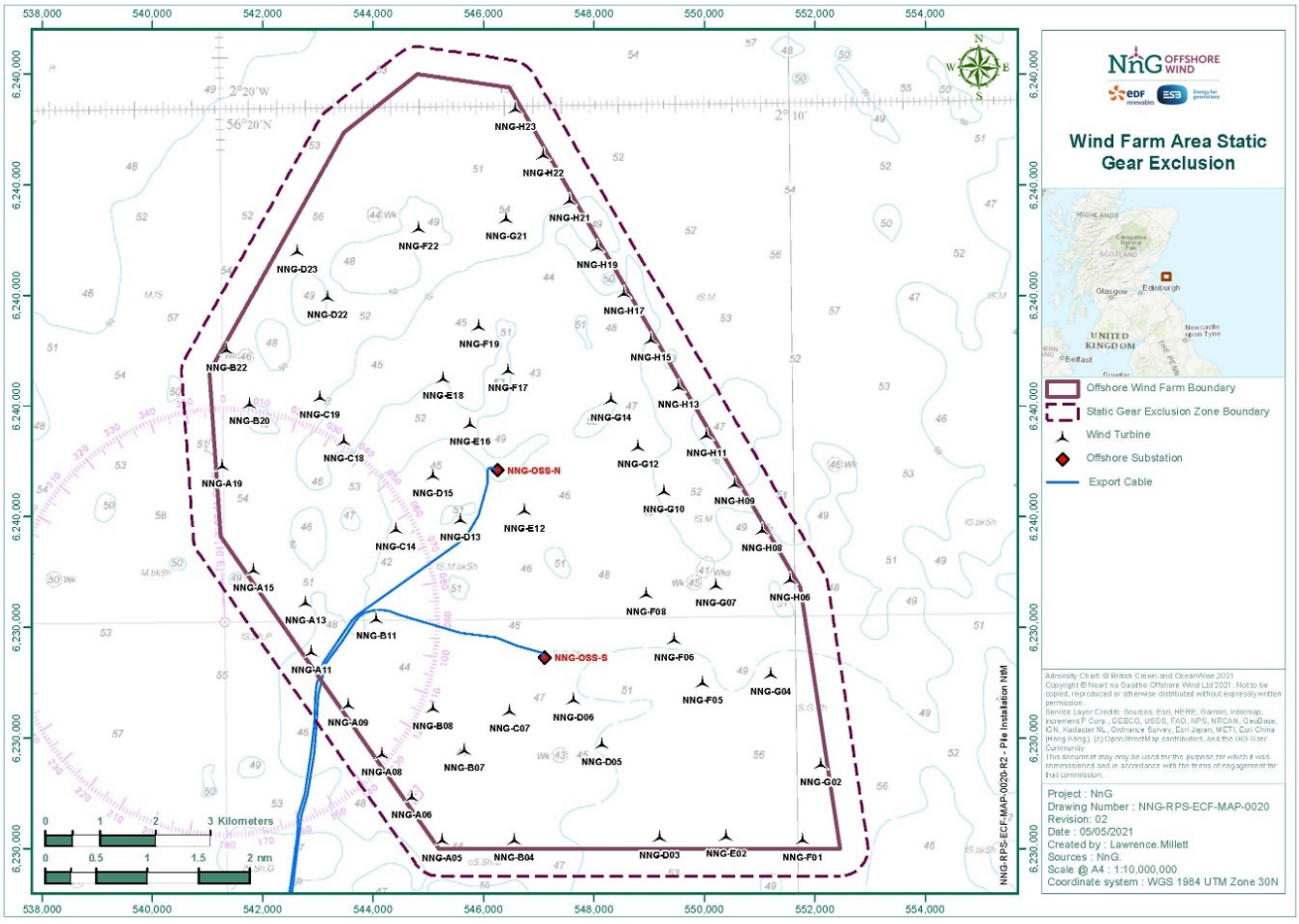


Figure 2 - Wind Farm Area Static Fishing Gear Exclusion

Table 2 - Wind Farm Area Static Fishing Gear Exclusion Coordinates

LONGITUDE (DDM)	LATITUDE (DDM)
002° 20.566' W	56° 15.680' N
002° 20.849' W	56° 17.468' N
002° 18.242' W	56° 19.938' N
002° 16.611' W	56° 20.613' N
002° 14.363' W	56° 20.392' N
002° 09.300' W	56° 15.334' N
002° 08.661' W	56° 12.651' N
002° 09.058' W	56° 12.405' N
002° 16.505' W	56° 12.410' N

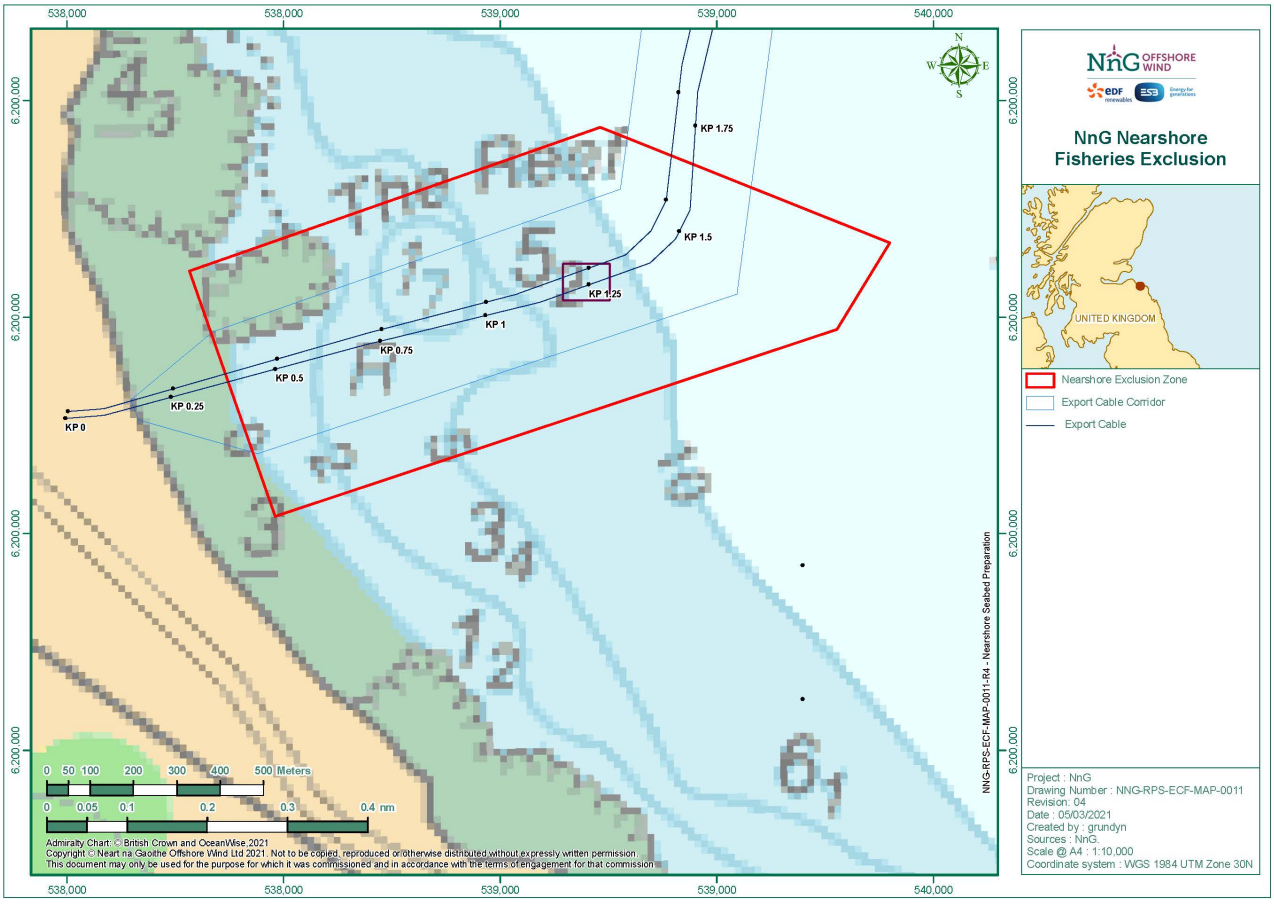


Figure 3 - Nearshore Export Cable Static Gear Exclusion Zone

Table 3 - Nearshore Export Cable Static Gear Exclusion Zone Coordinates

LONGITUDE (DDM)	LATITUDE (DDM)
2° 22.132' W	55° 57.796' N
2° 22.251' W	55° 57.689' N
2° 23.501' W	55° 57.463' N
2° 23.687' W	55° 57.769' N
2° 22.772' W	55° 57.943' N

2 Completed Operations

2.1 Foundations: Casing and Pile Installation

Casing and pile installation operations have been successfully completed at the orange shaded locations listed in Table 4. Casing only installation operations have been successfully completed at the grey shaded locations listed in Table 4 . The co-ordinates of each casing and pile installed, and the stick-up measurement above seabed can be found at: https://nngoffshorewind.info/

Table 4 – Centre coordinates of NnG Turbine Locations and Offshore Substation Platforms with completed locations shaded as appropriate

ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
NNG-A13	002° 18.580' W	56° 15.153' N	NNG-F22	002° 16.536' W	56° 18.785' N
NNG-A11	002° 18.489' W	56° 14.668' N	NNG-F19	002° 15.487' W	56° 17.828' N
NNG-A09	002° 17.845' W	56° 14.153' N	NNG-F17	002° 14.978' W	56° 17.394' N
NNG-A08	002° 17.267' W	56° 13.665' N	NNG-F08	002° 12.603' W	56° 15.198' N
NNG-A06	002° 16.755' W	56° 13.248' N	NNG-F06	002° 12.129' W	56° 14.751' N
NNG-A05	002° 16.231' W	56° 12.822' N	NNG-F05	002° 11.632' W	56° 14.330' N
NNG-B22	002° 19.921' W	56° 17.623' N	NNG-G21	002° 14.988' W	56° 18.873' N
NNG-B20	002° 19.521' W	56° 17.097' N	NNG-G14	002° 13.181' W	56° 17.095' N
NNG-B11	002° 17.341' W	56° 14.989' N	NNG-G12	002° 12.715' W	56° 16.640' N
NNG-B08	002° 16.365' W	56° 14.109' N	NNG-G10	002° 12.270' W	56° 16.197' N
NNG-B07	002° 15.822' W	56° 13.695' N	NNG-G07	002° 11.379' W	56° 15.279' N
NNG-B04	002° 14.964' W	56° 12.817' N	NNG-G04	002° 10.435' W	56° 14.405' N
NNG-C19	002° 18.293' W	56° 17.155' N	NNG-G02	002° 09.572' W	56° 13.520' N
NNG-C18	002° 17.882' W	56° 16.725' N	NNG-H23	002° 14.806' W	56° 19.943' N
NNG-C14	002° 16.984' W	56° 15.858' N	NNG-H22	002° 14.322' W	56° 19.488' N
NNG-C07	002° 15.017' W	56° 14.076' N	NNG-H21	002° 13.865' W	56° 19.043' N
NNG-D23	002° 18.666' W	56° 18.572' N	NNG-H19	002° 13.397' W	56° 18.588' N
NNG-D22	002° 18.135' W	56° 18.127' N	NNG-H17	002° 12.932' W	56° 18.134' N
NNG-D15	002° 16.321' W	56° 16.376' N	NNG-H15	002° 12.466' W	56° 17.677' N
NNG-D13	002° 15.848' W	56° 15.946' N	NNG-H13	002° 11.997' W	56° 17.214' N
NNG-D06	002° 13.894' W	56° 14.179' N	NNG-A19	002° 20.015' W	56° 16.490' N
NNG-D05	002° 13.417' W	56° 13.744' N	NNG-A15	002° 19.484' W	56° 15.474' N
NNG-D03	002° 12.421' W	56° 12.828' N	NNG-F01	002° 09.915' W	56° 120790' N
NNG-E18	002° 16.122' W	56° 17.324' N	NNG-H11	002° 11.513' W	56° 16.740' N
NNG-E16	002° 15.658' W	56° 16.874' N	NNG-H09	002° 11.027' W	56° 16.263' N
NNG-E12	002° 14.720' W	56° 16.029' N	NNG-H08	002° 10.555' W	56° 15.808' N
NNG-E02	002° 11.251' W	56° 12.829' N	NNG-H06	002° 10.079' W	56° 15.324' N

ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
NNG-OSS-N	002° 15.193' W	56° 16.446' N	**NNG-OSS-S**	002° 14.395' W	56° 14.615' N

2.2 Export Cable Landfall – HDD Marine Works

NnGOWL has completed the HDD supporting works within the nearshore extent of the Export Cable Corridor. Ducting has been installed at HDD1 and HDD2 and both export cables have been installed within the HDD 1 ducts. A surface marker buoy is in the location specified in Table 5.

Table 5 – Surface Marker Buoy Location

LONGITUDE (DDM)	LATITUDE (DDM)
002° 23.282’ W	55° 57.694’ N

2.3 Export Cable Burial Works

Description (NtM 164 Rev 1.0)
Mariners are advised that Neart na Gaoithe Offshore Wind Farm Limited (NnGOWL) have completed cable burial works of the two export cables within the Neart Na Gaoithe (NnG) Export Cable Corridor. There are a small number of locations where sufficient burial was not feasible and where rock protection is likely to be required. A subsequent notice to mariners will be issued regarding this work and the locations where required. Over-trawl trials will soon be undertaken where burial has been successful and will also be undertaken following the completion of rock protection installation. A notice to mariners will also be issued prior to this work commencing. The fishing gear exclusion areas have been reduced to the width of the export cable corridor, as per Figure 1 and the coordinates shown in Table 1. Note that the exclusion in the nearshore area remains as per the coordinates shown in Table 3.

3 Ongoing Operations

This section outlines the ongoing operations in the Project Areas, for full details regarding the activity, the applicable Notice to Mariners (NtM) can be found on our website at https://nngoffshorewind.com/resources/.

3.1 Guard Vessels

SFF Services has been appointed by NnGOWL to provide guard vessels during the Construction of NnG Offshore Wind Farm. Apart from times of extreme weather, there will always be at least one guard vessel on site, to cover the Wind Farm Area. There is also currently at least one guard vessel on the Export Cable Corridor until works are complete. 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 guard vessels present on site as of the date of issue, are shaded in blue in Table 6. The guard vessel details are provided in Section 8.1.

Table 6 - Guard Vessel Project Rotation

Guard Vessel	Start Date	End Date	Guard Vessel Area
Seagull	29/10/2021	26/11/2021	Wind Farm Area
Artemis	17/11/2021	14/12/2021	Nearshore Area
Morning Dawn	24/10/2021	21/11/2021	Export Cable

Guard Vessel	Start Date	End Date	Guard Vessel Area
Tranquillity	11/11/2021	01/12/2021	Wind Farm Area/ Export Cable
Courage	21/10/2021	16/11/2021	Export Cable

3.2 Pile Installation

Description (NtM 148 Rev 1.0)		
In preparation for the jacket foundation installation, three piles for each wind turbine location and offshore substation platform will be installed. The piles are being installed by the *Saipem 3000 (S3000)* (call sign: C6SW6) into pre-drilled sockets. Pile installation support is provided by the *Skandi Acergy* (call sign: LAFD7) offshore construction vessel. Information regarding the piles which have been installed to date, is provided at https://nngoffshorewind.info/. A supply vessel will be utilised to transport piles to NnG wind farm, *Peak Belfast*. A Crew Transfer Vessel may also be used to support operations, *Pegasus* (call sign V2ED2). The 500m static fishing gear exclusion zone around the Wind Farm Area remains, as shown in Figure 2 and Table 2. Further details of the vessels involved in the works is provided in Section 8.2.		
Vessels	**Type / Role**	Timescales
Saipem 3000	Pile Installation Vessel	The pile installation work is anticipated to be completed by mid-December 2021, weather dependant.
Skandi Acergy	Offshore Construction Vessel	
Sea Gull	Platform Supply Vessel	
Peak Belfast	Pile Transfer Vessel	
Pegasus	Crew Transfer Vessel	
Area		
Project Location: Wind Farm Area, shown in Table 1 and Figure 1 Operational Port: Blyth		

3.3 Offshore Seabed Preparation

Description (NtM 140 Rev 5.0)		
A single vessel, *Sartor* (Call Sign: 3ESV4), is undertaking the remaining boulder relocation operations in preparation for installation of the inter array cables in the Wind Farm Area, shown in Figure 4. Relocation of boulders in areas of inter array cable infrastructure is a critical pre-construction activity to reduce significant Health and Safety risks to the construction phase. Boulders will be relocated a short distance from their existing position only. Further details of the vessel involved in the works is provided in Section 8.4.		
Vessels	**Type / Role**	Timescales
Sartor	Offshore Supply Ship	The works are expected to last until December 2021, weather dependent.

Area
Project Location: Wind Farm Area, shown in Table 1 and Figure 1 Operational Port: Montrose
Map

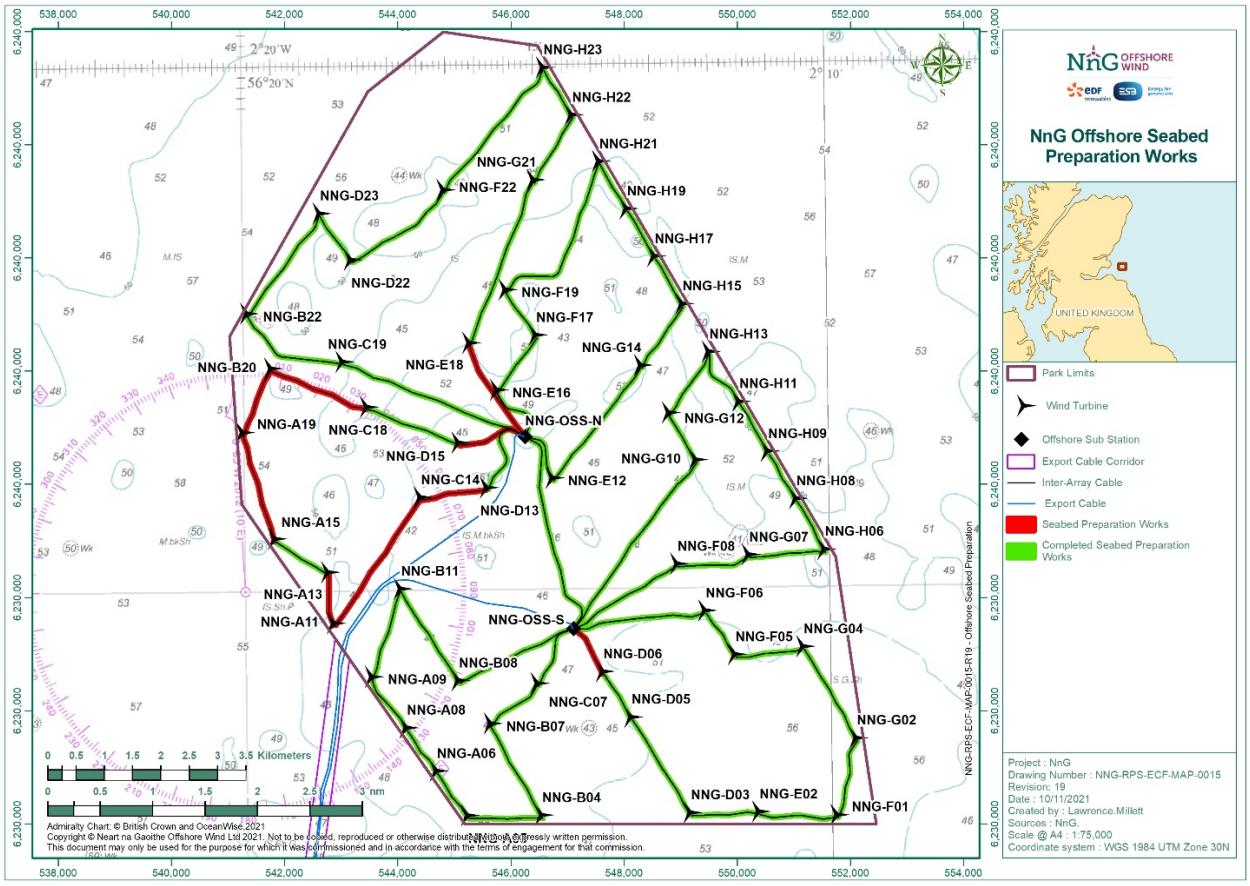


Figure 4 - Wind Farm Area showing Inter-array cable routes where boulder clearance remaining (Red)

3.4 Nearshore Post-Cable Installation Works

Description (NtM 161 Rev 2.0)		
The *Celtic Guardian* (21ZH5) is due to return to the nearshore area of Thorntonloch to complete some work on the infrastructure at the HDD exit point for each export cable. A flange plate is to be installed by divers working from the vessel. C*eltic Guardian* will use a four-point mooring spread for the duration of the work, which is expected to be up to one week, weather dependent. Further details of the vessel involved in the works is provided in Section 8.5.		
Vessels	**Type / Role**	**Timescales**
Celtic Guardian	Dive Vessel	The work is expected to start on 15th November at the earliest and be completed within one week.

3.5 Rock Protection Installation

Description (NtM 165 Rev 2.0)		
Mariners are advised that NnGOWL are due to commence installation of rock protection at certain locations along the two export cables within the NnG Export Cable Corridor. The works will commence on Saturday 6th November 2021, at the earliest. Rock berms will be installed by the fall pipe vessel *Simon Stevin* (call sign: LXUB). The rock protection is designed to have slopes of at least 1 in 3, a maximum width of a 5m either side of each export cable, and a maximum height of 1.5m. The work is expected to be completed by early-December 2021, weather dependant. The *Simon Stevin* will undertake pre-, during, and post-installation surveys throughout this time. A smaller vessel, *Celtic Guardian* (21ZH5), is required to undertake these surveys in the nearshore area. The coordinates for the location of the proposed rock protection are provided in NtM 165, which is available at https://nngoffshorewind.com/resources/. Further details of the vessel involved in the works is provided in Section 8.6.		
Vessels	**Type / Role**	**Timescales**
Simon Stevin	Fall Pipe Vessel	The work commenced on 8th November and is expected to be completed by early December, weather dependent.
Celtic Guardian	Survey Vessel	

4 Planned Operations

This section will be updated with any planned future operations as notified by a Notice to Mariners.

5 General Safety Advice

All vessels engaged in the construction 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. Mariners are requested to navigate with caution and keep continued watch on VHF Ch. 16, when navigating the area.

Please be aware that by virtue of their mode of operation and the equipment deployed vessels will be Restricted in their Ability to Manoeuvre (RAM) as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972, Rule 3). Masters of vessels are therefore requested to maintain their vessels and gears at a minimum safe distance from these vessels of 500 metres when it is undertaking it work and showing the appropriate shapes and lights in accordance with COLREGs Rule 18.

Use of Safety Zones within the Neart na Gaoithe Offshore Wind Farm Construction Area is as follows:

- Mandatory “rolling” 500 metres (m) Safety Zones will be established around each wind farm structure (turbines and Offshore Substation Platforms (OSP)) and/or their foundations whilst construction works are in progress, as indicated by the presence of a construction vessel. Up to ten of these Safety Zones may be active at any given time.

The duty Guard Vessels and Marine Coordination Centre will be responsible for monitoring and policing the Safety Zones; and can be contacted directly for advice. Users are advised to keep clear of construction activities, including Safety Zones.

6 Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by the Company Fisheries Liaison Officer. For any commercial fishery queries please contact: Peter Berney, telephone: +44 (0)7391 402387 or email: NnG.FLO@naturalpower.com. An Offshore Fisheries Liaison Officer is present on the *Sartor* and *Saipem 3000* within the wind farm area, and *Simon Stevin* on the export cable route, and all can be contacted on Ch16. For any other general queries please contact info@nngoffshorewind.com.

7 Marine Coordination Contact Details

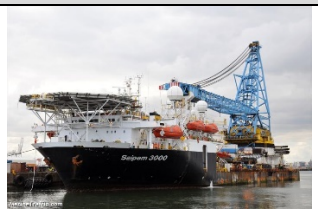
The following contact can provide more information if required. Please note that specific queries can also be addressed to the relevant vessel or shore-based representative. The contact details for the marine coordination centre are indicated in Table 7.

Table 7 - Marine Coordination Contact Details

Telephone number (daytime operations):	+44 (0)7508421406 / +44 (0)1890 751415
Emergency contact (24/7):	+44 (0)7508421406 / +44 (0)1890 751415
Email:	nng.mc@smchse.com
Address:	NnG Offshore Wind Farm Marine Coordination Centre Gunsgreen Basin Eyemouth TD14 5SD

8 Vessels Associated with the Activity

Vessel	Vessel Function	Vessel Contact Details	Vessel Information
8.1 Guard Vessels			
Tranquillity S	Guard Vessel	Contact name: Vessel Master Email: spousekeil@yahoo.com Phone: +44 (0) 1346 454758	Call sign: MJUH9 IMO: N/A MMSI: 235053837
Artemis	Guard Vessel	Contact name: Vessel Master Email: concordebf47@aol.com Phone: +44 (0) 7949 663790 / +44 (0) 1261 455461	Call sign: MVIX5 IMO: 9119713 MMSI: 233975000
Seagull	Guard Vessel	Contact name: Vessel Master Email: seagullbf74@gmail.com Phone: +44 (0) 1261 878040 / +44 (0) 7895 919100	Call sign: MVBO2 IMO: 9112545 MMSI: 233714000
8.2 Pile Installation			
Saipem 3000 (S3000)	Pile Installation	Contact name: Vessel Master Email: captain.s3000@saipem.com Phone: +39 02 010 24650	Call sign: C6SW6 IMO: 8309165 MMSI: 311516000

Vessel	Vessel Function	Vessel Contact Details	Vessel Information
			
Skandi Acergy 	Offshore Construction Vessel	Contact name: Vessel Master Email: Acergy.captain@acergy.dof.no Phone V-Sat: +47 23 67 54 04	Call sign: LAFD7 IMO: 9387217 MMSI: 257691000
Sea Gull 	Platform Supply Vessel (PSV)	NnG Client Representative S3000-Rep@nngoffshorewind.com	Call sign: LAGK8 IMO: 9692624 MMSI: 257504000
Peak Belfast 	Pile Transfer Vessel	Capt. F.B.Zeinstra peakbelfast@peakgroup.nl +31 (0) 651184147 (24hr)	Call sign: PBPZ IMO: 9544891 MMSI: 246403000
Pegasus 	Crew Transfer Vessel	Contact name: Ben Stokes Email: Benjamin.Stokes@saipem.com Phone: +44 7833 479 546	Call sign: V2ED2 IMO: 9433743 MMSI: 305389000
8.3 Export Cable Burial			
Morning Dawn 	Guard Vessel – Export Cable Installation	Contact name: Vessel Master Email: bridge@morning-dawn.co.uk Phone: + 33 640 047722 / +44 1779 400158	Call sign: MHEU3 IMO: 8701416 MMSI: 232253000
Courage	Guard Vessel – Export Cable Installation	Contact name: Vessel Master Email: couragesh170@gmail.com	Call sign: MJDL4 IMO: 8712568

Vessel	Vessel Function	Vessel Contact Details	Vessel Information
		Phone: +44 1261 877295 / +44 7766 833463	MMSI: 233308000
8.4 Boulder Relocation Operations			
Sartor	Offshore Supply Ship – Boulder Clearance	Bob Kingdom bobk@hughes-subsea.com (24hr)	Call sign: 3ESV4 IMO: 9601522 MMSI: 246609000
8.5 Nearshore Post-Cable Installation Works			
Celtic Guardian	Dive Vessel	Contact name: Vessel Master Iain Hill Email: Iain.hill@specialisedmarinesupport.com	Call sign: 21ZH5 IMO: NA MMSI: 235114006
8.6 Rock Protection Installation			
Simon Stevin	Fall Pipe Vessel	Contact name: Simon Stevin Bridge Email: bridge@sv.jandenul.com Phone: +32 569 46 124	Call sign: LXUB IMO:9464807 MMSI: 253309000
Celtic Guardian	Survey Vessel	Contact name: Vessel Master Iain Hill Email: Iain.hill@specialisedmarinesupport.com	Call sign: 21ZH5 IMO: NA MMSI: 235114006