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Period covered:	22/09/2021 – 06/10/2021
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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. Inter-Array Cable Pre-Lay Trenching Works (Section 3.4)

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.

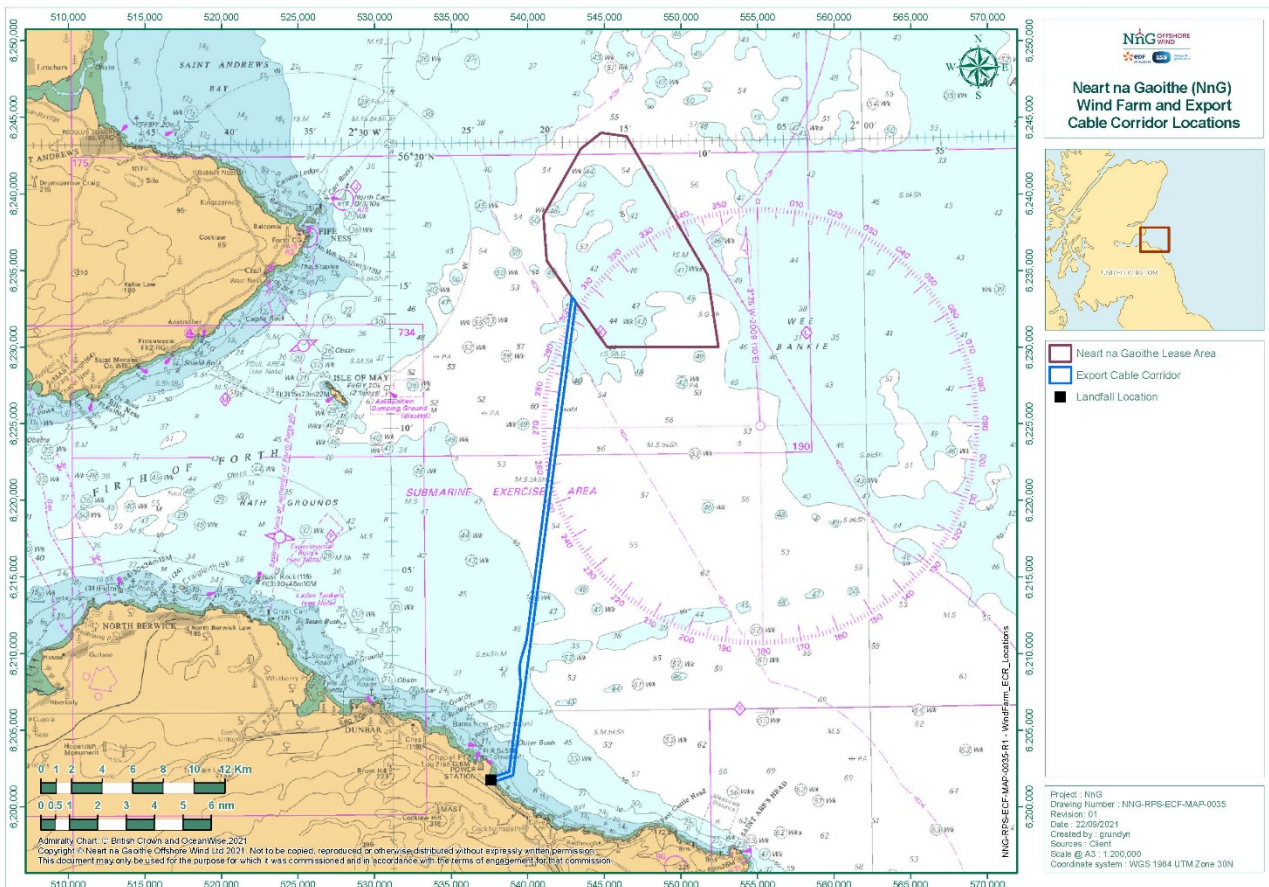


Figure 1 - Wind Farm Area and Export Cable

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

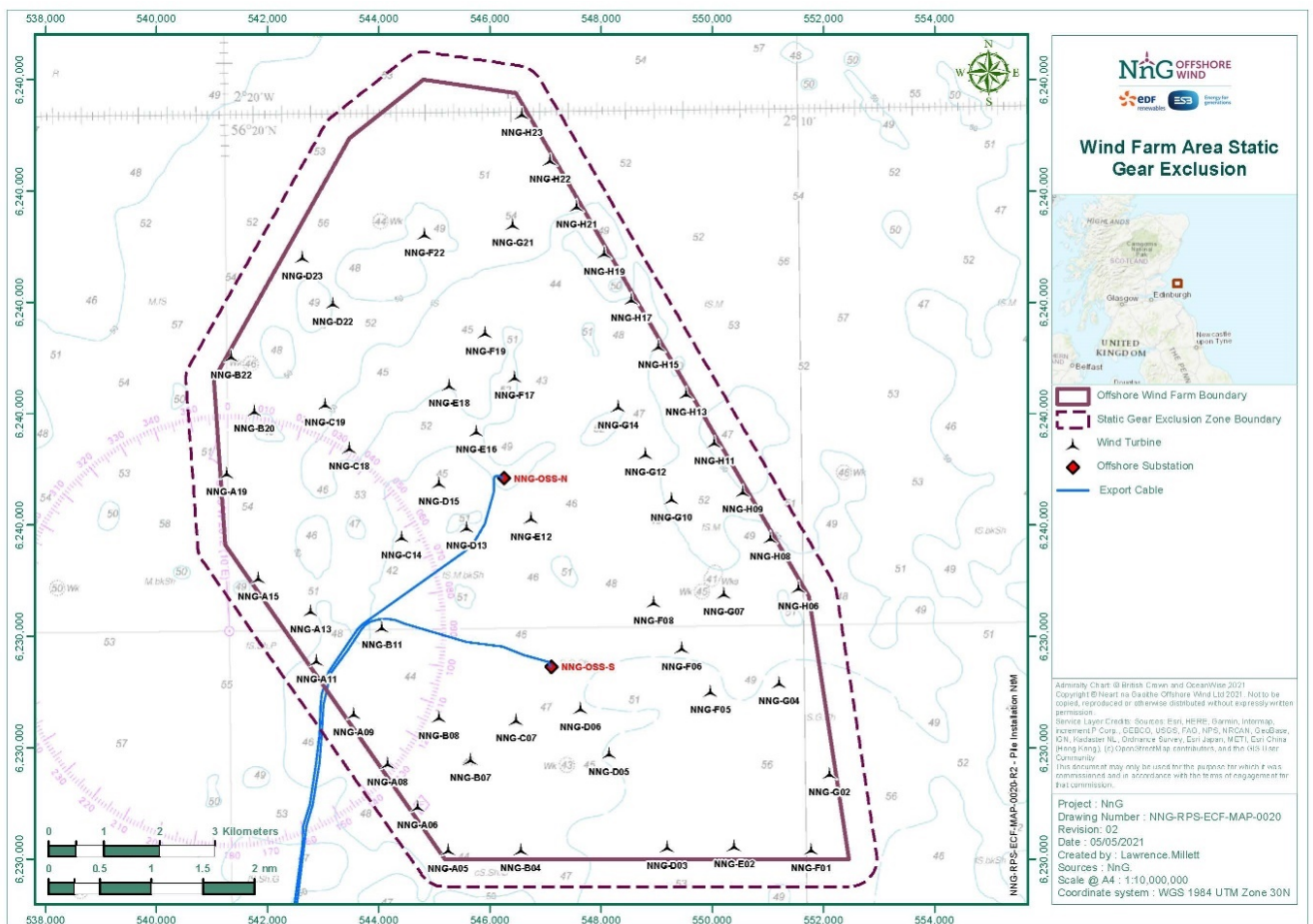


Figure 2 - Wind Farm Area Static Fishing Gear Exclusion

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

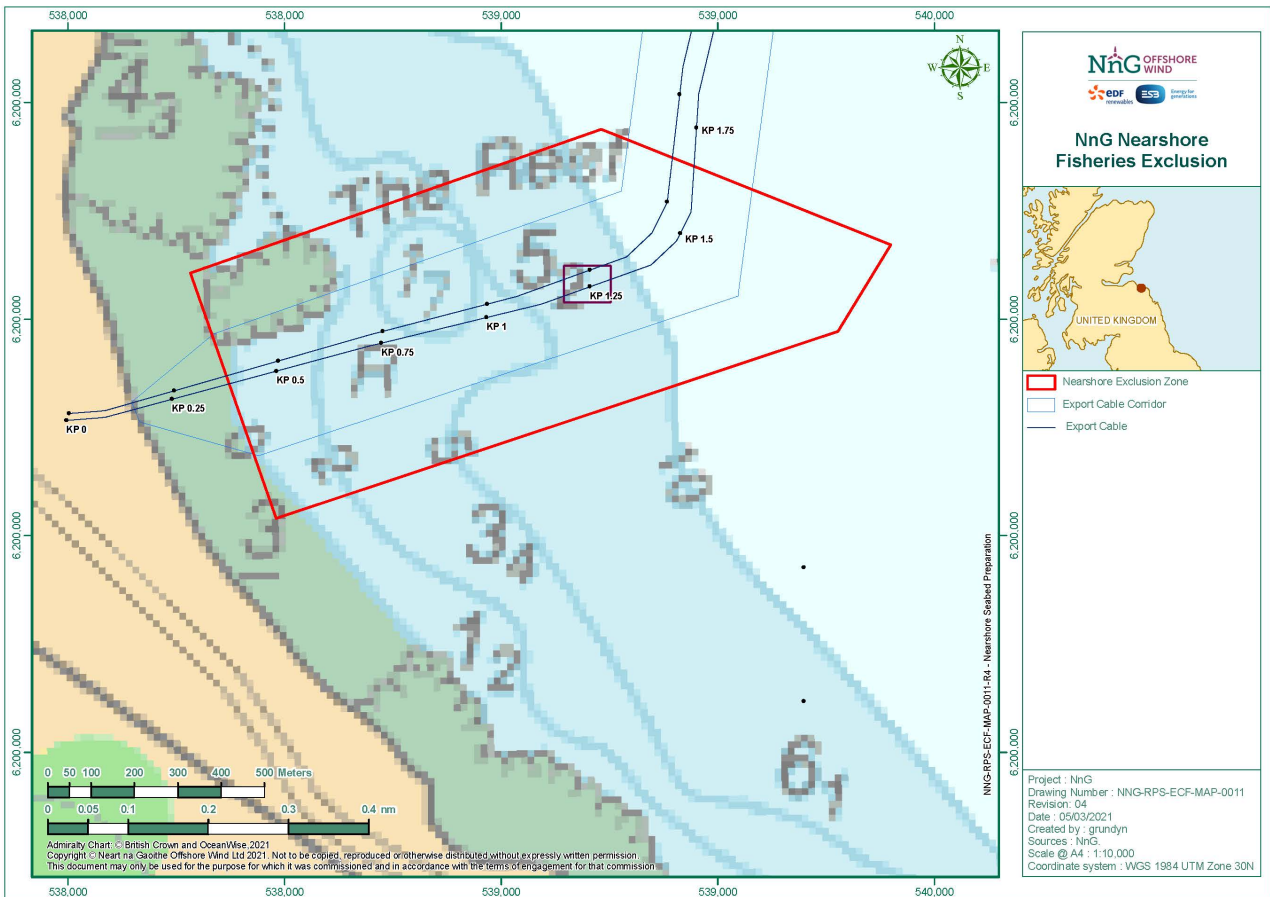


Figure 3 - Nearshore Export Cable Static Gear Exclusion Zone

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)
<p>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.</p> <p>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.</p> <p>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.</p>

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 two guard vessels on site, to cover the Wind Farm Area and Export Cable Corridor. 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	27/09/2021	24/10/2021	Wind Farm Area
Artemis	12/09/2021	09/10/2021	Nearshore Area
Morning Dawn	22/09/2021	19/10/2021	Export Cable
Tranquillity	10/10/2021	29/00/2021	Wind Farm Area/ Export Cable

Guard Vessel	Start Date	End Date	Guard Vessel Area
Courage	17/09/2021	14/10/2021	Export Cable

3.2 Pile Installation

Description (NtM 148 Rev 1.0)		
<p>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 <i>Saipem 3000 (S3000)</i> (call sign: C6SW6) into pre-drilled sockets. Pile installation support is provided by the <i>Skandi Acergy</i> (call sign: LAFD7) offshore construction vessel. Information regarding the piles which have been installed to date, is provided at https://nngoffshorewind.info/.</p> <p>A supply vessel will be utilised to transport piles to NnG wind farm, <i>Peak Belfast</i>. A Crew Transfer Vessel may also be used to support operations, <i>Pegasus</i> (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.</p>		
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		
<p>Project Location: Wind Farm Area, shown in Table 1 and Figure 1</p> <p>Operational Port: Blyth</p>		

3.3 Offshore Seabed Preparation

Description (NtM 140 Rev 5.0)		
<p>A single vessel, <i>Sartor</i> (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.</p> <p>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.</p> <p>Further details of the vessel involved in the works is provided in Section 8.4.</p>		
Vessels	Type / Role	Timescales
Sartor	Offshore Supply Ship	The works are expected to last until December 2021, weather dependent.
Area		

Description (NtM 140 Rev 5.0)

Project Location: Wind Farm Area, shown in Table 1 and Figure 1

Operational Port: Montrose

Map

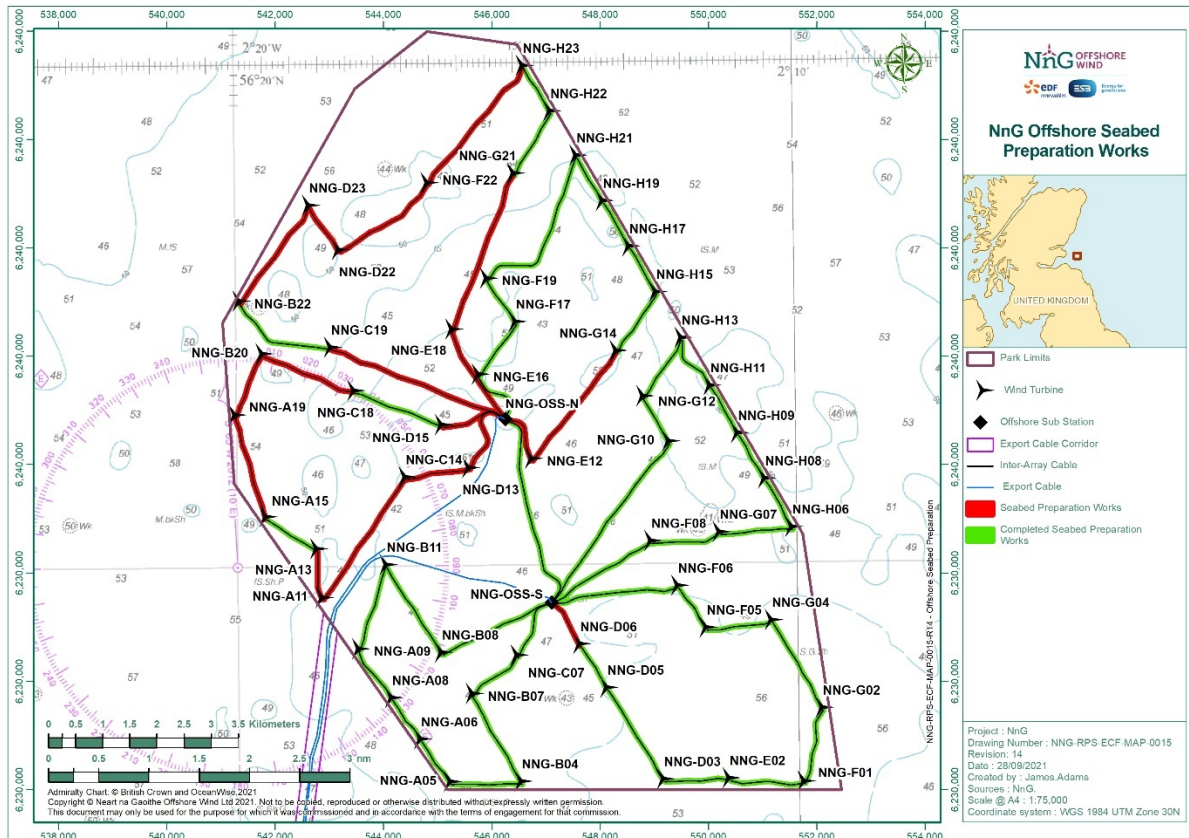


Figure 4 - Wind Farm Area showing Inter-array cable routes where boulder clearance remaining (Red)

3.4 Inter-Array Cable Pre-Lay Trenching Works

Description (NtM 160 Rev 2.0 and NtM 163 Rev 1.0)

The inter-array cable routes are trenched by a remotely operated vehicle (ROV) which is deployed and controlled from the *Living Stone*. The ROV is equipped with a jetting tool and mechanical cutting tool to undertake pre-lay trenching works along a number of inter-array cable routes. The *Libertas* is working periodically to complete post-trenching surveys. The *Artimus* is completing periodic crew transfer operations to/from the *Living Stone*.

As part of the trials a short section of inter-array cable has been installed by the *Living Stone*. The section of cable is approximately 450m long and will be in place until early October 2021, weather dependent. The section of cable is shortly to be buried and then fully recovered, as part of the trial. The trial is taking place directly within the proposed inter-array cable route. A subsequent notice to mariners will be issued to advise its removal.

Further details of the vessel involved in the works is provided in Section 8.5.

Vessels	Type / Role	Timescales
Living Stone	Cable Lay Vessel	The inter-array cable pre-lay trenching works commenced on 12 th August. The works are expected to be completed at the beginning of October, weather dependent.
Libertas	Survey Vessel & Crew Transfer Vessel	
Artimus	Additional Crew Transfer Vessel	
Area		
Project Location: Wind Farm Area, shown in Table 1. Operational Port: Vlissingen, Netherlands & Rosyth, Scotland.		

4 Planned Operations

4.1 Nearshore Post-Cable Installation Works

Description (NtM 161 Rev 1.0)		
<p>A dive vessel, <i>CRC Tempest</i> (MYUY7) and a crew transfer vessel, <i>Celtic Guardian</i> (21ZH5) are 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 Tempest. The Tempest will use a four-point mooring spread for the duration of the work, which is expected to be up to three days.</p> <p>Further details of the vessel involved in the works is provided in Section 8.6.</p>		
Vessels	Type / Role	Timescales
Tempest	Dive Vessel	The work is expected to start in mid-October at the earliest and be completed within three days, weather dependent.
Celtic Guardian	Crew Transfer Vessel/ Guard Vessel	

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 its 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. 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 Gunsreen 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: concordeb47@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

Vessel	Vessel Function	Vessel Contact Details	Vessel Information
8.2 Pile Installation			
<p>Saipem 3000 (S3000)</p> 	Pile Installation	<p>Contact name: Vessel Master</p> <p>Email: captain.s3000@saipem.com</p> <p>Phone: +39 02 010 24650</p>	<p>Call sign: C6SW6</p> <p>IMO: 8309165</p> <p>MMSI: 311516000</p>
<p>Skandi Acergy</p> 	Offshore Construction Vessel	<p>Contact name: Vessel Master</p> <p>Email: Acergy.captain@acergy.dof.no</p> <p>Phone V-Sat: +47 23 67 54 04</p>	<p>Call sign: LAFD7</p> <p>IMO: 9387217</p> <p>MMSI: 257691000</p>
<p>Sea Gull</p> 	Platform Supply Vessel (PSV)	<p>NnG Client Representative</p> <p>S3000-Rep@nngoffshorewind.com</p>	<p>Call sign: LAGK8</p> <p>IMO: 9692624</p> <p>MMSI: 257504000</p>
<p>Peak Belfast</p> 	Pile Transfer Vessel	<p>Capt. F.B.Zeinstra</p> <p>peakbelfast@peakgroup.nl</p> <p>+31 (0) 651184147 (24hr)</p>	<p>Call sign: PBPZ</p> <p>IMO: 9544891</p> <p>MMSI: 246403000</p>
<p>Pegasus</p> 	Crew Transfer Vessel	<p>Contact name: Ben Stokes</p> <p>Email: Benjamin.Stokes@saipem.com</p> <p>Phone: +44 7833 479 546</p>	<p>Call sign: V2ED2</p> <p>IMO: 9433743</p> <p>MMSI: 305389000</p>
8.3 Export Cable Burial			
<p>Morning Dawn</p> 	Guard Vessel – Export Cable Installation	<p>Contact name: Vessel Master</p> <p>Email: bridge@morning-dawn.co.uk</p> <p>Phone: + 33 640 047722 / +44 1779 400158</p>	<p>Call sign: MHEU3</p> <p>IMO: 8701416</p> <p>MMSI: 232253000</p>

Vessel	Vessel Function	Vessel Contact Details	Vessel Information
<p>Courage</p> 	Guard Vessel – Export Cable Installation	<p>Contact name: Vessel Master</p> <p>couragesh170@gmail.com</p> <p>Phone: +44 1261 877295 / +44 7766 833463</p>	<p>Call sign: MJDL4</p> <p>IMO: 8712568</p> <p>MMSI: 233308000</p>
8.4 Boulder Relocation Operations			
<p>Sartor</p> 	Offshore Supply Ship – Boulder Clearance	<p>Bob Kingdom</p> <p>bobk@hughes-subsea.com</p> <p>+44(0) 7956 222203</p> <p>(24hr)</p>	<p>Call sign: 3ESV4</p> <p>IMO: 9601522</p> <p>MMSI: 246609000</p>
8.5 Inter-Array Cable Pre-Lay Trenching Works			
<p>Artimus</p> 	Crew Transfer / Survey Vessel	<p>Vessel Master</p> <p>Artimus@cwind.global</p> <p>+44 (0) 7930676570</p>	<p>Call sign: 2IU63</p> <p>IMO: NA</p> <p>MMSI: 235112846</p>
<p>Living Stone</p> 	Cable Lay Vessel – Inter-Array Cable Pre-Trenching	<p>Vessel Captain</p> <p>Captain.Livingstone@deme-group.com</p> <p>0049 4215172191983</p>	<p>Call sign: PBXN</p> <p>IMO: 9776925</p> <p>MMSI: 244010952</p>
<p>Libertas</p> 	Survey & Crew Transfer Vessel	<p>Vessel Master</p> <p>libertas@braveheartmarine.com</p> <p>0031 650626941</p> <p>(24 hour)</p>	<p>Call sign: PCVF</p> <p>IMO: NA</p> <p>MMSI: 244663000</p>
8.6 Nearshore Post-Cable Installation Works			
<p>Tempest</p>	Dive Support Vessel	<p>Contact name: Rob Merrix</p> <p>Email: rcrtempest@commercialribcharter.co.uk</p>	<p>Call sign: MYUY7</p> <p>IMO: NA</p> <p>MMSI: 232003835</p>

Vessel	Vessel Function	Vessel Contact Details	Vessel Information
			
<p>Celtic Guardian</p> 	<p>Crew Transfer Vessel</p>	<p>Contact name: Vessel Master Iain Hill</p> <p>Email: iain.hill@specialisedmarinesupport.com</p>	<p>Call sign: 21ZH5</p> <p>IMO: NA</p> <p>MMSI: 235114006</p>