

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: May 2023

Version: 4

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1 Introduction

Ørsted is an offshore wind farm owner and operator with ten operational wind farms in UK waters. Of these ten, the following offshore wind farms are located off the East Coast of England:

- Gunfleet Sands
- Westermost Rough
- Race Bank
- Lincs
- Hornsea One
- Hornsea Two

The purpose of this monthly Notice to Mariners (NtM) is to ensure that mariners are aware of any non-routine operations across the East Coast assets that could pose a risk to other sea users. Safety is paramount to Ørsted and this notice should assist in ensuring that both mariners and the Ørsted operational team can operate safely offshore. This NtM will provide:

- A regular, clear and consistent overview of non-routine operations
- Updates relating to lighting and marking
- Key contact details



- Access to detailed site information and figures
- Clarity on when Safety Zones and recommended safe separation distances are in force or requested

This Notice to Mariners will not provide:

- Information relating to routine maintenance carried out by Crew Transfer Vessels (CTV) or Service Operation Vessels (SOV).
- Any information relating to export cables
- Any information relating to offshore wind farms currently in development, construction or not operated by Ørsted

Subsea Cables

Subsea cables are installed across each offshore wind farm and are marked on the KIS ORCA charts referenced in Section 1.2. Please note the following advice from NP 100 The Mariners Handbook “Every care should be taken to avoid anchoring, trawling, fishing, dredging, drilling, or carrying out any other activity in the vicinity of cables which might damage them.” This warning is repeated on all admiralty charts.

Wind Farm Positional Data

KIS ORCA Awareness Charts (including the layout and coordinates) and Fishing Plotter Files of the offshore assets referenced in this NtM can be found via the KIS ORCA website: <https://kis-orca.org/downloads/> Should mariners require further information or any data in a format that can be used in a plotter or other device, please contact the Company Fisheries Liaison Officer, listed in Section 2 below.

2 Key Contacts

For further information on any of the activities listed within this notice, please use the contact details listed below.

Site	Ørsted Mailbox/ Offshore Coordination	Fisheries Industry Representative
Race Bank	Phone: 07826 943808 Email: rowoffshorec@orsted.com	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Westermost Rough	Phone: 07867 674941 Email: wroffshorec@orsted.com	Guy Pasco Phone: 07880 362082 Email: guy@seascopefisheries.co.uk
Lincs	Phone: 07766443319 Email: lincsoffshorec@orsted.com	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Gunfleet Sands		Merlin Jackson Phone: 07989 520484 Email: merlinjackson@btinternet.com
Hornsea One	Phone: 07775005465 Email: HOWoffshoreC@orsted.com	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk
Hornsea Two	Phone: 07775005465 Email: HOW02offshoreC@orsted.com	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk

Company Fisheries Liaison Officer

The Ørsted Company Fisheries Liaison Officer can be contacted using the details below:

Lee Thompson

Email: LEETH@orsted.com

3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	None	None	Below water inspections*** Main Bearing Exchange *°
Westermost Rough	OK	None	None	Blade LEP***, Below water inspections** Main Bearing Exchange *°
Lincs	OK	None	Yes	Below water inspections** Oil exchange Generator exchange°***
Gunfleet Sands	OK	None	None	WTG inspections. Blade LEP***
Hornsea One	OK	None	None	Main Bearing Exchange *° USV Survey***
Hornsea Two	T29 – Fog signal constantly sounding	None	None	Below water inspections**, TMO Offshore Substation and RCS works.

- * Formal 500m safety zone in place
- ° Licensable activity
- ** 500m safety distance requested
- *** 100m safety distance requested
- **** 250m safety distance requested

Status of lighting & marking is correct at time of issue; any changes will be communicated through an updated version being issued.

4 Race Bank – Notice to Mariners

4.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

4.2 Other Operations

Nothing planned.

4.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April

Westermost Rough – 17th April to 7th May


Racebank – 7th May to 27th May

Lincs – 27th May to 10th June

Locations

ROW01		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A02	000° 46.39246873' E	53° 19.60211918' N
A06	000° 46.27385363' E	53° 17.76367980' N
B04	000° 47.06811240' E	53° 18.25361035' N
B05	000° 46.98256021' E	53° 17.80719695' N
B07	000° 46.91275421' E	53° 16.90710905' N
C06	000° 47.76375163' E	53° 17.76551653' N
D05	000° 48.82012878' E	53° 18.57565677' N
D06	000° 48.77004175' E	53° 18.08704817' N
E09	000° 48.93852646' E	53° 14.89596701' N
F06	000° 49.58502941' E	53° 15.14631826' N
G04	000° 50.63256729' E	53° 15.81100077' N
G06	000° 50.38632136' E	53° 14.80419226' N
J04	000° 51.93423211' E	53° 14.79411505' N
K05	000° 52.63349150' E	53° 14.61948155' N
L03	000° 53.63247634' E	53° 15.25408489' N

M03	000° 54.42481079' E	53° 15.06218910' N
N02	000° 54.75884544' E	53° 14.48642004' N
P02	000° 55.17151347' E	53° 14.93026804' N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

4.2.2 Main Bearing Exchange

Main Bearing Exchange Campaign on Racebank at locations D02, R01 & J05. Campaign is estimated to start 8th July for 20 days approx. A 500m exclusion zone will be required whilst the Jack Up vessel is in position at the turbines and whilst jacking up and down. There will also be a CTV supporting operations, vessel TBC.

General Information		Vessel Picture
Name	Wind Enterprise	
Flag	Denmark	
Year Built	2011	
MMSI Number	219370000	
Call Sign	OZTU2	
Vessel Contact Details		
Bridge	+45 29 81 58 85	
Party Chief		
Email	Master.windenterprise@ziton.eu	

5 Westermost Rough – Notice to Mariners

5.1 Lighting and Marking Status


The lighting and/ or navigational warning systems are currently operational. No planned outages.


5.2 Other Operations

5.2.1 Blade LEP campaign

In mid-April we are starting an LEP campaign which we anticipate will take between 3-4 months. The SOV CF Explorer and with CTV will support the project. The work scope involves rope access technicians. When the technicians are on the ropes, we will require a 100m exclusion zone.

Vessel Information

General Information		Vessel Picture
Name	CF EXPLORER	
Flag	Cyprus	
Year Built	2008	
MMSI Number	209816000	
Call Sign	5BKK5	
Vessel Contact Details		
Bridge	+31686489927	
Party Chief	master.cfexplorer@tsmvessel.com	
Email	master.cfexplorer@tsmvessel.com	

General Information		Vessel Picture
Name	Iceni Warrior	
Flag	UK	
Year Built	2010	
MMSI Number	235087484	
Call Sign	2ERD5	
Vessel Contact Details		
Bridge	+44 7809 727 397	
Party Chief		
Email	warrior@turnericensi.com	

5.2.2 Below water inspections


The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is requested whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April
 Westermost Rough – 17th April to 7th May
 Racebank – 7th May to 27th May
 Lincs – 27th May to 10th June

Locations

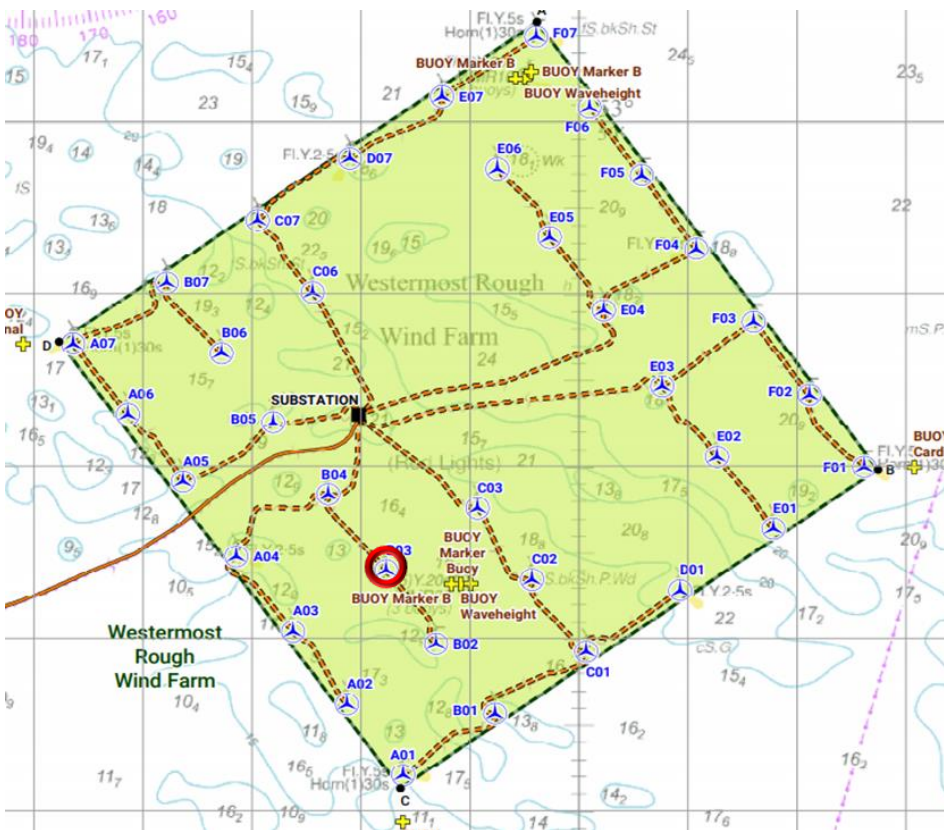
WMR01		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A03	000° 07.37885722' E	53° 47.04119733' N
A04	000° 06.85818950' E	53° 47.47696658' N
B04	000° 07.70116565' E	53° 47.83499605' N
C01	000° 10.06644598' E	53° 46.92462112' N
C02	000° 09.57049861' E	53° 47.34205597' N
D07	000° 07.90033622' E	53° 49.78462890' N
F07	000° 09.60859260' E	53° 50.49184716' N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

5.2.3 WMR Main Bearing Exchange

Main Bearing Exchange Campaign on Westermost Rough at location B03. Campaign is estimated to start 14th June for 7 days approx. A 500m exclusion zone will be required whilst the Jack Up vessel is in position at the turbines and whilst jacking up and down.

General Information		Vessel Picture
Name	Wind Enterprise	
Flag	Denmark	
Year Built	2011	
MMSI Number	219370000	
Call Sign	OZTU2	
Vessel Contact Details		
Bridge	+45 29 81 58 85	
Party Chief		
Email	Master.windenterprise@ziton.eu	



6 Lincs – Notice to Mariners

6.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

6.2 Other Operations

6.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westernmost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April


Westernmost Rough – 17th April to 7th May

Racebank – 7th May to 27th May

Lincs – 27th May to 10th June

Locations


LIC01		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
LS49	000° 30.19540736' E	53° 09.12686464' N
LS51	000° 30.18309978' E	53° 08.36483805' N
LS44	000° 30.22573833' E	53° 11.01627043' N
LS45	000° 30.21984534' E	53° 10.63850150' N
LS66	000° 31.04737522' E	53° 10.11685148' N
LS38	000° 29.81422658' E	53° 13.25407838' N
LS53	000° 30.14917186' E	53° 14.51056753' N
LS54	000° 30.29313320' E	53° 14.16938999' N
LS03	000° 27.86626870' E	53° 13.77233327' N
LS18	000° 28.84003737' E	53° 13.51083924' N
LS06	000° 28.48706290' E	53° 12.29867449' N
LS08	000° 28.60398324' E	53° 11.53237203' N
LS20	000° 29.14500121' E	53° 12.78627019' N
LS09	000° 28.57553167' E	53° 10.99227302' N
LS26	000° 29.37666510' E	53° 10.19241312' N
LS27	000° 29.36436664' E	53° 09.81882249' N
LS74	000° 28.73796525' E	53° 07.99340828' N
LS75	000° 28.75361655' E	53° 07.72614788' N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

6.2.2 WTG Oil exchange

On the 1st May, the vessel Spectrum 4 will be on site conducting an oil exchange. All 75 locations will be visited with the scope anticipated on taking just over 3 months.

Vessel information

General Information		Vessel Picture
Name	MMS Superior	
Flag	UK	
Year Built	2019	
MMSI Number	232024742	
Call Sign	MGFO9	
Vessel Contact Details		
Bridge	07471752805	
Party Chief		
Email	mmssuperior@mms-offshore.co.uk	

7 Gunfleet Sands – Notice to Mariners

7.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

7.2 Other Operations

7.2.1 GFS LEP Campaign

Start date: 14th April 2023

Duration of work scope:110 days

Description of work: Rope Access Blade Maintenance Blade Repair across all 48 WTGs at Gunfleet Sands
Safety zone required. 100m exclusion zone around the WTG on Gunfleet Offshore windfarm

Vessel Information

General Information		Vessel Picture
Name	NSL DISCOVERY	
Flag	UK	
Year Built	2012	
MMSI	235096731	
Call Sign	2GEQ9	
Vessel Contact Details		
Bridge	TBC	
Party Chief	TBC	
Email	discovery@northsealogistics.co.uk	

7.3 Cable exposure

There are subsea cables currently exposed as shown on the below chart and coordinates

WGS84 Degrees, decimal Minutes						
ID	ArrayCableID	Length_m	StartCoord_Longitude	StartCoord_Latitude	EndCoord_Longitude	EndCoord_Latitude
GFS_MBES_TO_01-UnidentifiedOther	F08-F09	13.4	1° 17.383' E	51° 44.721' N	1° 17.396' E	51° 44.723' N
GFS_MBES_TO_02-CableExposure	F08-F09	790.93	1° 16.787' E	51° 44.486' N	1° 17.376' E	51° 44.718' N
GFS_MBES_TO_03-CableExposure	F07-F08	533.19	1° 16.562' E	51° 44.401' N	1° 16.726' E	51° 44.466' N
GFS_MBES_TO_04-CableExposure	F06-F07	25.25	1° 16.059' E	51° 44.203' N	1° 16.075' E	51° 44.210' N

8 Hornsea One – Notice to Mariners

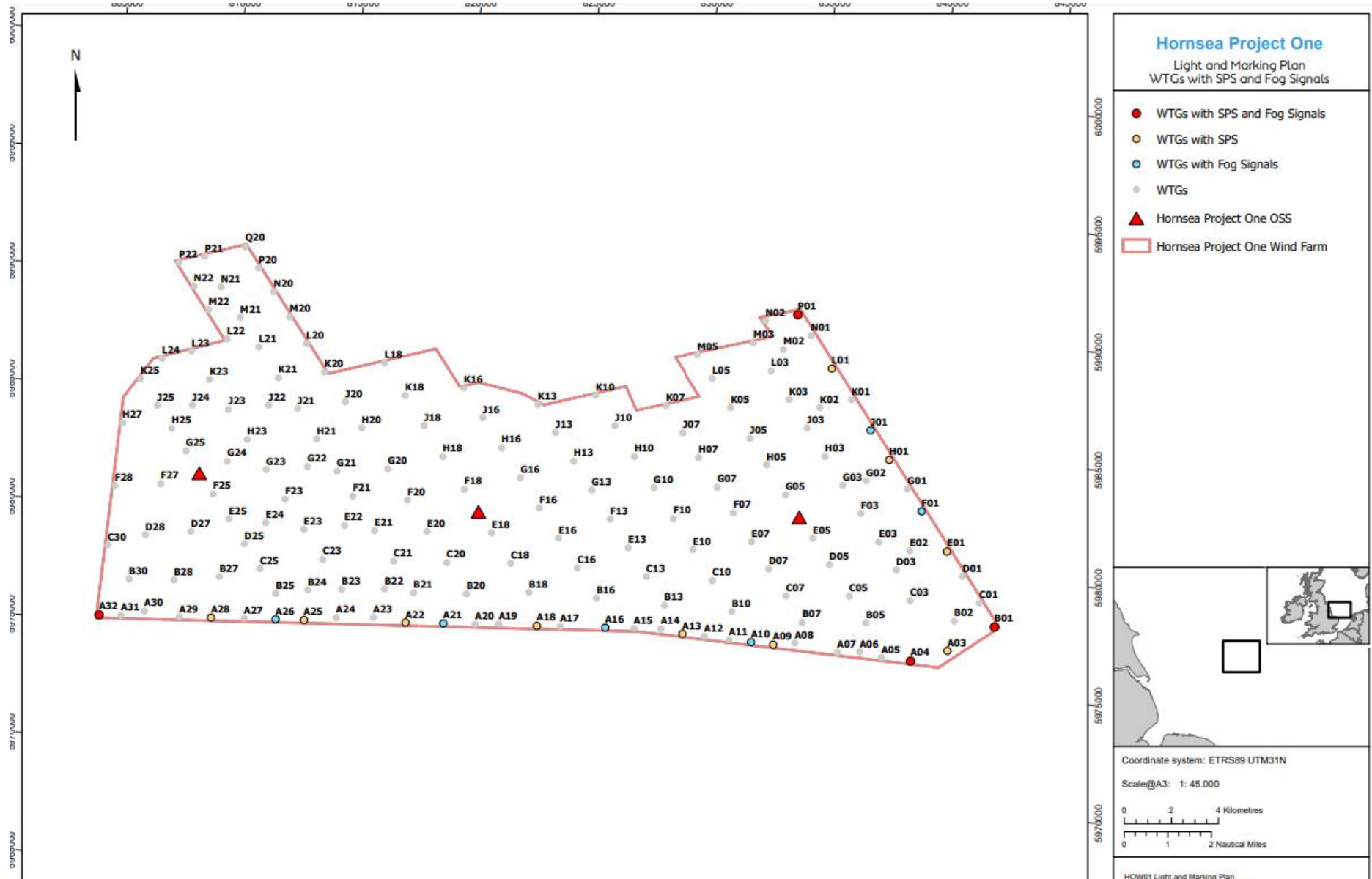
8.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages

Mariners are advised that the marine navigation lighting and foghorns on turbines situated on the Hornsea Project One / Two adjoining perimeter have now been extinguished. Marine navigation lighting will now alight the combined perimeter of Hornsea Project One and Two.

Please see the table below showing the locations where the foghorns/marine navigation lighting has been discontinued (indicated with an X)


Turbine	Marine Navigation Lights	Foghorns
K25	X	
Q20	X	X
C30	X	X
H27	X	X
P22	X	X
L20		X
K16		X
K10		X
M05		X



8.2 Other Operations

8.2.1 Statutory Inspections Above Water

From the 22nd April the vessel Manor Venture will be on site completing WTG inspections, the scope is anticipated to take approximately 19 days, but the Vessel may remain within the Hornsea One and Hornsea Two windfarms for additional tasks

General Information		Vessel Picture
Name	Manor Venture	
Flag	UK	
Year Built	2017	
MMSI	232007444	
Call Sign	MAW16	
Vessel Contact Details		
Bridge		
Party Chief		
Email		

8.2.2 Cable Stabilisation campaign


Start Date: May 2023


Duration of work scope: 7 Months

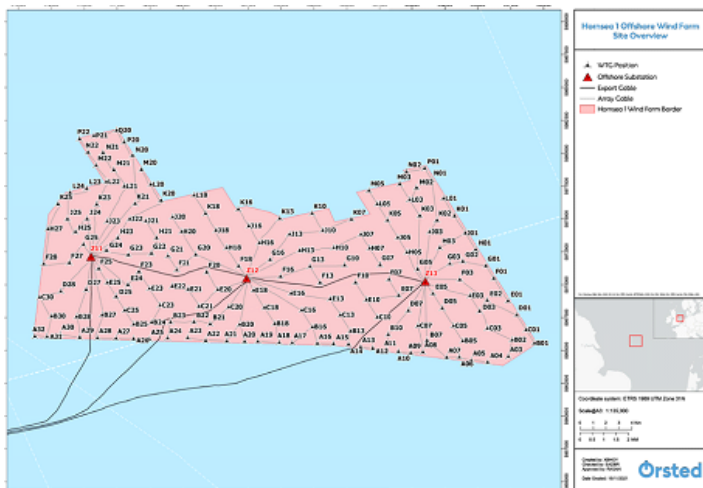
Description of Work: Cable stabilisation campaign by means of rock dumping at HOW01

Is this a licensed activity: Yes

Safety zone required: 500m

General Information		Vessel Picture
Name	Adhemar De Saint Venant	
Flag	Luxembourg	
Year Built	2017	
MMSI	253351000	
Call Sign	LXUD	
Vessel Contact Details		
Bridge	+3250946017	
Party Chief	captain@ad.jandenul.com	
Email	captain@ad.jandenul.com	

General Information		Vessel Picture
Name	Daniel Bernoulli	
Flag	Luxembourg	
Year Built	2017	
MMSI	253350000	
Call Sign	LXUC	
Vessel Contact Details		
Bridge	+3250946017	
Party Chief	captain@bi.jandenul.com	
Email	captain@bi.jandenul.com	



Cable stabilization will be carried out at all locations at HOW01 including Offshore Substations and RCS.

8.2.3 Debris Clearance Survey

In preparation for the 8.2.4 Main Bearing Exchange Campaign (below), an Unmanned Survey Vessel (USV) will attend Hornsea 01 to carry out Debris Clearance Survey works for A22, C23 & M22:

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A22	53° 50' 5.059" N	01° 50' 57.533 E
C23	53° 51' 30.170" N	01° 47' 42.830 E
M22	53° 57' 11.249" N	01° 43' 6.483 E

Start date: Wk 20

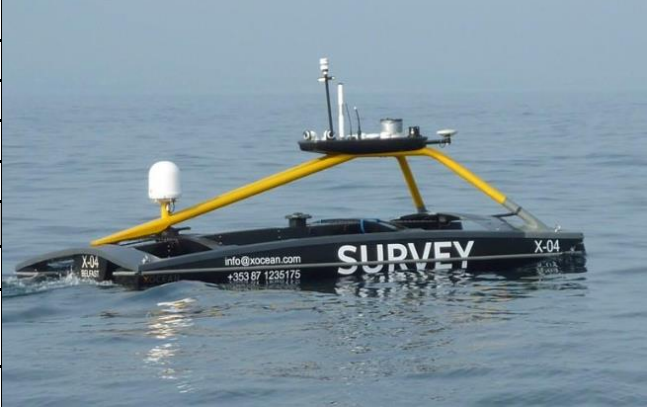
Duration of work scope: 3 days

Description of work: 300 x 300m MBES box around turbine A22, C23 and M22

Is this a licensed activity: No

Safety zone required. If Yes what distance? None


Vessel Information

General Information		Vessel Picture
Name	X-04 / X-06	
Flag	UK	
Year Built		
MMSI Number	232023832 / 232025477	
Call Sign	MFWS5 / MGMK5	
Vessel Contact Details		
Bridge		
Party Chief		
Email		

8.2.4 Main Bearing Exchange

Main Bearing Exchange Campaign on Hornsea 01 at C23, M22 & A22. Campaign is estimated to start 10th August for 20 days approx. A 500m exclusion zone will be required whilst the Jack Up vessel is in position at the turbines and whilst jacking up and down.

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A22	53° 50' 5.059" N	01° 50' 57.533 E
C23	53° 51' 30.170" N	01° 47' 42.830 E
M22	53° 57' 11.249" N	01° 43' 6.483 E

General Information		Vessel Picture
Name	Wind Enterprise	
Flag	Denmark	
Year Built	2011	
MMSI Number	219370000	
Call Sign	OZTU2	
Vessel Contact Details		
Bridge	+45 29 81 58 85	
Party Chief		
Email	Master.windenterprise@ziton.eu	

9 Hornsea Two – Notice to Mariners

9.1 Lighting and Marking Status

T29 fog signal is constantly sounding, this will be investigated at the earliest opportunity. (Will be inoperable as per dates below).

9.2 Other Operations

9.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.


The planned dates are shown below, however dates are subject to change –

Hornsea 2 – 3rd April -17th April
 Westermost Rough – 17th April to 7th May
 Racebank – 7th May to 27th May
 Lincs – 27th May to 10th June

Locations


HOW02		
ID	WGS84 (Deg, decimal Minutes)	
	LONGITUDE	LATITUDE
A35	1° 35' 38.774" E	53° 50' 10.691" N
A37	1° 32' 51.300" E	53° 50' 11.208" N
A39	1° 30' 10.393" E	53° 50' 11.644" N
B34	1° 36' 21.475" E	53° 50' 45.917" N
F31	1° 36' 23.015" E	53° 53' 19.654" N
F36	1° 31' 2.021" E	53° 53' 5.936" N
H31	1° 34' 39.604" E	53° 54' 52.656" N
H37	1° 28' 6.654" E	53° 54' 26.729" N
L33	1° 31' 40.802" E	53° 56' 8.350" N
M24	1° 40' 45.114" E	53° 56' 34.784" N
M31	1° 31' 54.019" E	53° 57' 21.279" N
N35	1° 27' 15.289" E	53° 57' 42.582" N
P13	1° 53' 6.341" E	53° 57' 43.849" N
P27	1° 35' 11.471" E	53° 58' 44.648" N

Q05	2° 0' 9.715" E	53° 58' 7.107" N
Q16	1° 49' 32.934" E	53° 58' 41.824" N
R20	1° 44' 0.321" E	53° 59' 10.892" N
S03	2° 1' 46.296" E	53° 58' 43.592" N
S11	1° 53' 39.979" E	53° 59' 9.818" N
S30	1° 30' 8.867" E	54° 0' 1.305" N
Z11	001.630687°E	53.939408°N
Z01	000.932264°E	53.633372°N

General Information		Vessel Picture
Name	Curtis Marshall	
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
Vessel Contact Details		
Bridge		
Party Chief		
Email	info@bmarshallmarine.co.uk	

9.2.2 Statutory Inspections Above Water

From the 22nd April the vessel Manor Venture will be on site completing WTG inspections, the scope is anticipated to take approximately 19 days, but the Vessel may remain within the Hornsea One and Hornsea Two windfarms for additional tasks

General Information		Vessel Picture
Name	Manor Venture	
Flag	UK	
Year Built	2017	
MMSI	232007444	
Call Sign	MAW16	
Vessel Contact Details		
Bridge		
Party Chief		
Email		