

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: March 2024

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 statuses.
- 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
Westernmost Rough	Phone: 07867 674941 Email: wmoffshorec@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

Callum Vale

Email: CAVAL@orsted.com

3 Amendments from Previous Revision

Added/Removed	Description
9.2.1	Added COMSY cable repair
9.2.2	Blade Repairs and Blade Cowling Bolt Retrofits
10.2.2	Major Project – Turbine Maintenance and Repairs
5.2.2	Removed Wave Buoy removal

4 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	Yes	None	Drop Down Camera Survey.
Westermost Rough	OK	None	None	None Currently.
Lincs	OK	None	Yes	Generator Exchange ^{o*} Gearbox Exchange ^{o*}
Gunfleet Sands	OK	None	None	None currently.
Hornsea One	P01 –Marine Lanterns Extinguished Fog signal inoperable	None	None	COMSY Cable Repair ****
Hornsea Two	OK	Yes	None	MBES Survey Major Project Turbine Maintenance and Repair ^{o*}

* Formal 500m safety zone in place
^o 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.

5 Race Bank – 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 Drop down camera survey.

Start date: Approximately March 2024

Duration of work scope: Approx 5 days

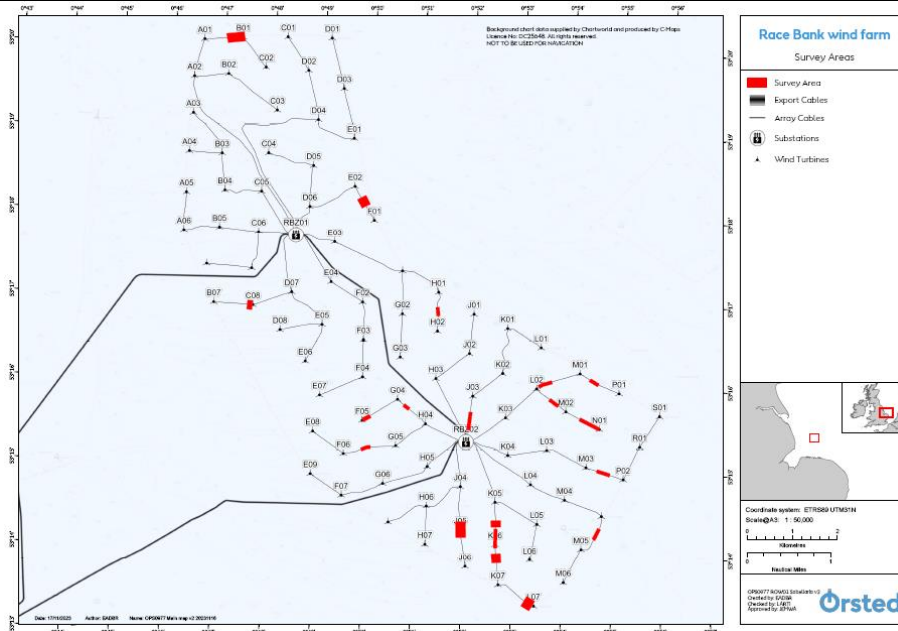
Description of work: Drop down camera (DDC) survey a various locations shown below.

Is this a licensed activity: Yes

Safety zone required: No, however survey work will include underwater photography at multiple locations (detailed below). Mariners are requested to remain a distance of 250m from "Isla B" when it is observed undertaking this survey work due to the survey equipment that will be in the water.

The equipment will be lowered using a frame winch on the aft of the vessel.

General Information		Vessel Picture
Name	Isla B	
Flag	United Kingdom (GB)	
Year Built	1961	
MMSI Number	232007860	
Call Sign	MNVM2	
Vessel Contact Details		
Bridae	+44 (0) 7969559716	
Party Chief	Gary Robinson	
Email	Gary.robinson@ocean-ecology.com	



6 Westermost Rough – 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

N/A

7 Lincs – 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 Lincs Generator Exchange

Start date: 18th March 2024.

Duration of work: 26 days (depending on weather)


Description of work: Exchange of generator at five WTG locations (LS18 = E18, LS53=D53, LS44 = B44, LS55 = D55 and LS51 = A51) using a Jack Up Vessel that will be lifted above the sea level and including use of a large crane.

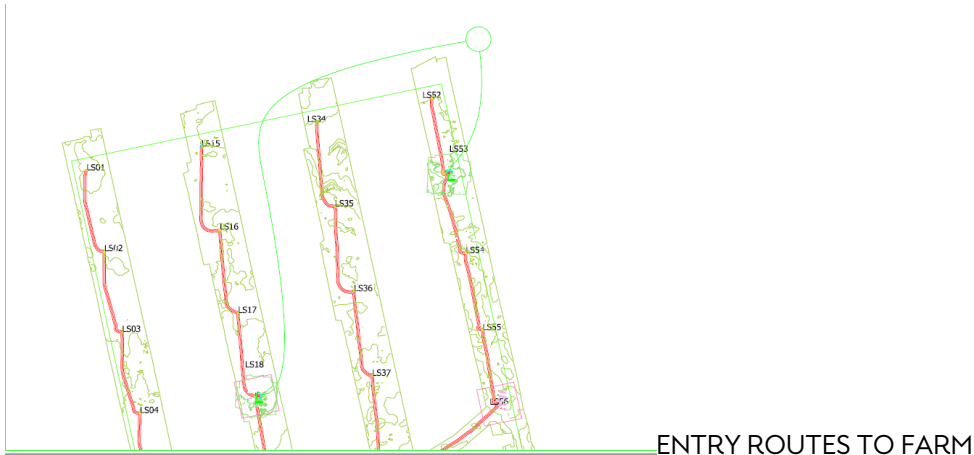
Is this a licensed activity: Yes - covered by existing marine licence.

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
LS18	53° 13' 30.637" N	000° 28' 50.385" E
LS53	53° 14' 30.620" N	000° 30' 08.933" E
LS44	53° 11' 00.963" N	000° 30' 13.527" E
LS55	53° 13' 50.224" N	000° 30' 25.959" E
LS51	53° 08' 21.877" N	000° 30' 10.969" E

Safety zone required: Mariners must observe an approved safety zone of 500m whenever J/U Wind is attached to a WTG. A minimum separation distance of 500m is also requested when the vessel is observed manoeuvring into position.

Vessel Information

General Information		Vessel Picture
Name	J/U WIND	
Flag	Denmark	
Year Built	1996	
MMSI Number	220520000	
Call Sign	IMO 9107851	
Vessel Contact Details		
Bridge	+4520485586	
Party Chief	none	
Email	Master.wind@ziton.eu	



7.2.2 Lincs Gearbox Exchanges

Start date: 18th March 2024

Duration of work: 20 days (depending on weather)

Description of work: Exchange of gearboxes at three WTC locations (LS71 = F71, LS02 = E02 and LS46 = B46) and main bearing exchange at LS29 = H29 using a Jack Up Vessel that will be lifted above the sea level and including use of a large crane.

Is this a licensed activity: Yes - covered by existing marine licence.

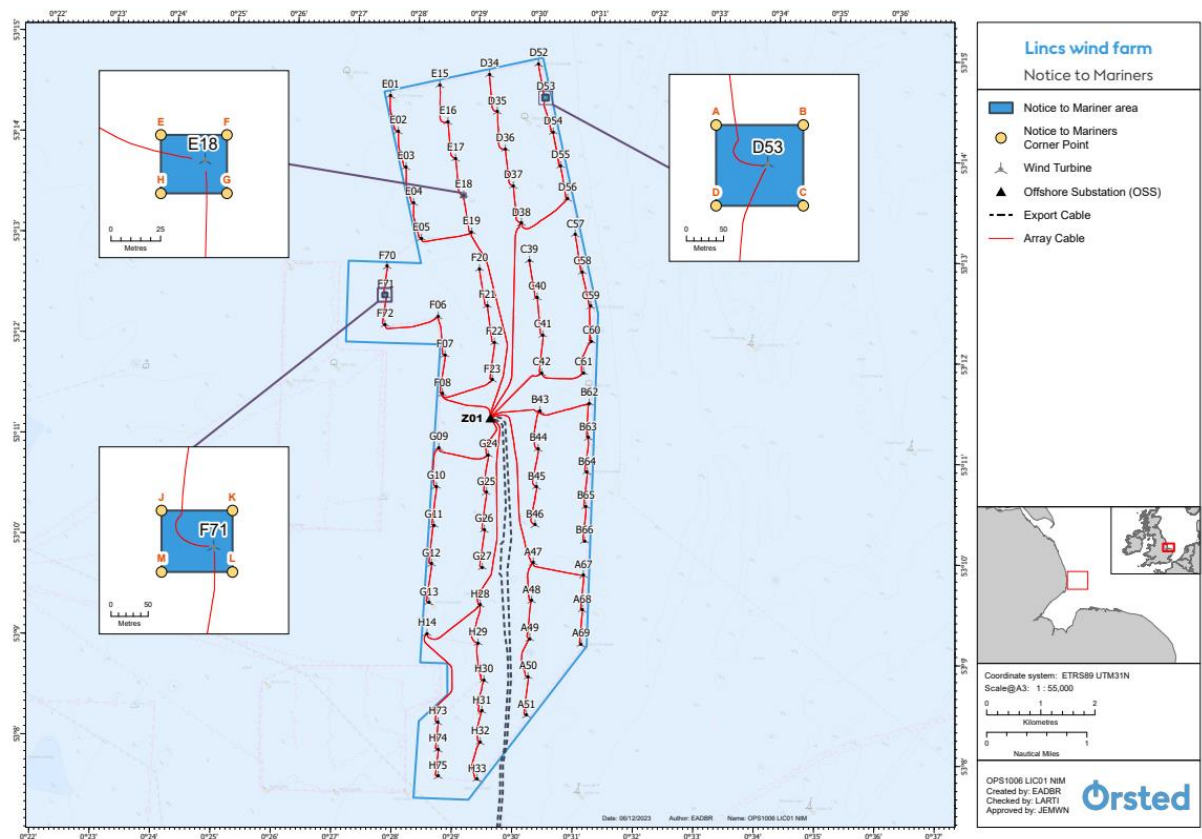
Safety zone required: Mariners must observe an approved safety zone of 500m whenever GMS Endeavour is attached to a WTC. A minimum separation distance of 500m is also requested when the vessel is observed manoeuvring into position.

Vessel Information

General Information			Vessel Picture
Name	GMS Endeavour		
Flag	Panama	WTG	
Year Built	2011	ID	
MMSI Number	370582000	IMO 9558983	
Call Sign	3EUG6	LS71	
		Latitude	
		LS02	
		LS46	
		LS29	
Bridge	+44 2922 402026		
Master	None		
Email	Endeavour.master@fleet.gmsplc.com		

7.3 Cable Exposure

We have been made aware some exposed array cables at four locations on Lincs windfarm.



Corner Point ID	WTG ID	Name Plate ID	ETRS89 UTM31N (metres)		WGS84 (Decimal Degrees)		WGS84 (Degrees, decimal Minutes)		WGS84 (Deg, Min, Seconds)		Corner Point ID	Length of exposed cable	Comment
			Easting	Northing	Longitude	Latitude	Longitude	Latitude	Longitude	Latitude			
A	D53	LS53	333273.91	5902136.34	0.501419468	53.242287447	0° 30.085' E	53° 14.537' N	0° 30' 05.110" E	53° 14' 32.235" N	A	87	Within 54m of WTG
B			333391.21	5902136.34	0.503175518	53.242324262	0° 30.191' E	53° 14.539' N	0° 30' 11.432" E	53° 14' 32.367" N	B		
C			333391.21	5902028.04	0.503232160	53.241351645	0° 30.194' E	53° 14.481' N	0° 30' 11.636" E	53° 14' 28.866" N	C		
D			333273.91	5902028.04	0.501476149	53.241314832	0° 30.089' E	53° 14.479' N	0° 30' 05.314" E	53° 14' 28.733" N	D		
E	E18	LS18	331800.12	5900295.27	0.480327896	53.225289161	0° 28.820' E	53° 13.517' N	0° 28' 49.180" E	53° 13' 31.041" N	E	6	Within 20m of WTG
F			331833.45	5900295.27	0.480826590	53.225299709	0° 28.850' E	53° 13.518' N	0° 28' 50.976" E	53° 13' 31.079" N	F		
G			331833.45	5900265.86	0.480842097	53.225035642	0° 28.851' E	53° 13.502' N	0° 28' 51.032" E	53° 13' 30.128" N	G		
H			331800.12	5900265.86	0.480343406	53.225025094	0° 28.821' E	53° 13.502' N	0° 28' 49.236" E	53° 13' 30.090" N	H		
J	F71	LS71	330316.15	5898483.91	0.459084676	53.208550947	0° 27.545' E	53° 12.513' N	0° 27' 32.705" E	53° 12' 30.783" N	J	86	Within 63m of WTG
K			330411.61	5898483.91	0.460512633	53.208581405	0° 27.631' E	53° 12.515' N	0° 27' 37.845" E	53° 12' 30.893" N	K		
L			330411.61	5898401.38	0.460556480	53.207840247	0° 27.633' E	53° 12.470' N	0° 27' 38.003" E	53° 12' 28.225" N	L		
M			330316.15	5898401.38	0.459128547	53.207809791	0° 27.548' E	53° 12.469' N	0° 27' 32.863" E	53° 12' 28.115" N	M		

8 Gunfleet Sands – Notice to Mariners

8.1 Lighting and Marking Status

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

8.2 Other Operations

No current other operations.

8.3 Cable exposure

There are subsea cables currently exposed as shown on the below 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

8.4 MBES Survey

East Coast Hub Notice to Mariner (NtM) Requirement

This information needs to be provided a minimum of 14 days prior to the project start date.

Start date: Start February

Duration of work scope: 1 day

Description of work: MBES survey in a 300x300m box around 6 turbines

Is this a licensed activity: Yes/No No

Safety zone required. If Yes what distance? None

Vessel Information

General Information		Vessel Picture
Name	Spectrum 1	
Flag	UK	
Year Built	2009	
MMSI Number	235075021	
Call Sign	2CQX3	
Vessel Contact Details		
Bridge	+44 (0) 7538565561	
Party Chief	TBD	
Email	spectrum1@spectrum-offshore.com	



WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
B01	51°43.517'N	01°11.464'E
B03	51°44.029'N	01°12.776'E
B06	51°44.797'N	01°14.744'E
C06	51°44.590'N	01°14.923'E
G02	51°42.738'N	01°13.015'E
F00	51°42.434'N	01°11.524'E

9 Hornsea One – Notice to Mariners

9.1 Lighting and Marking Status

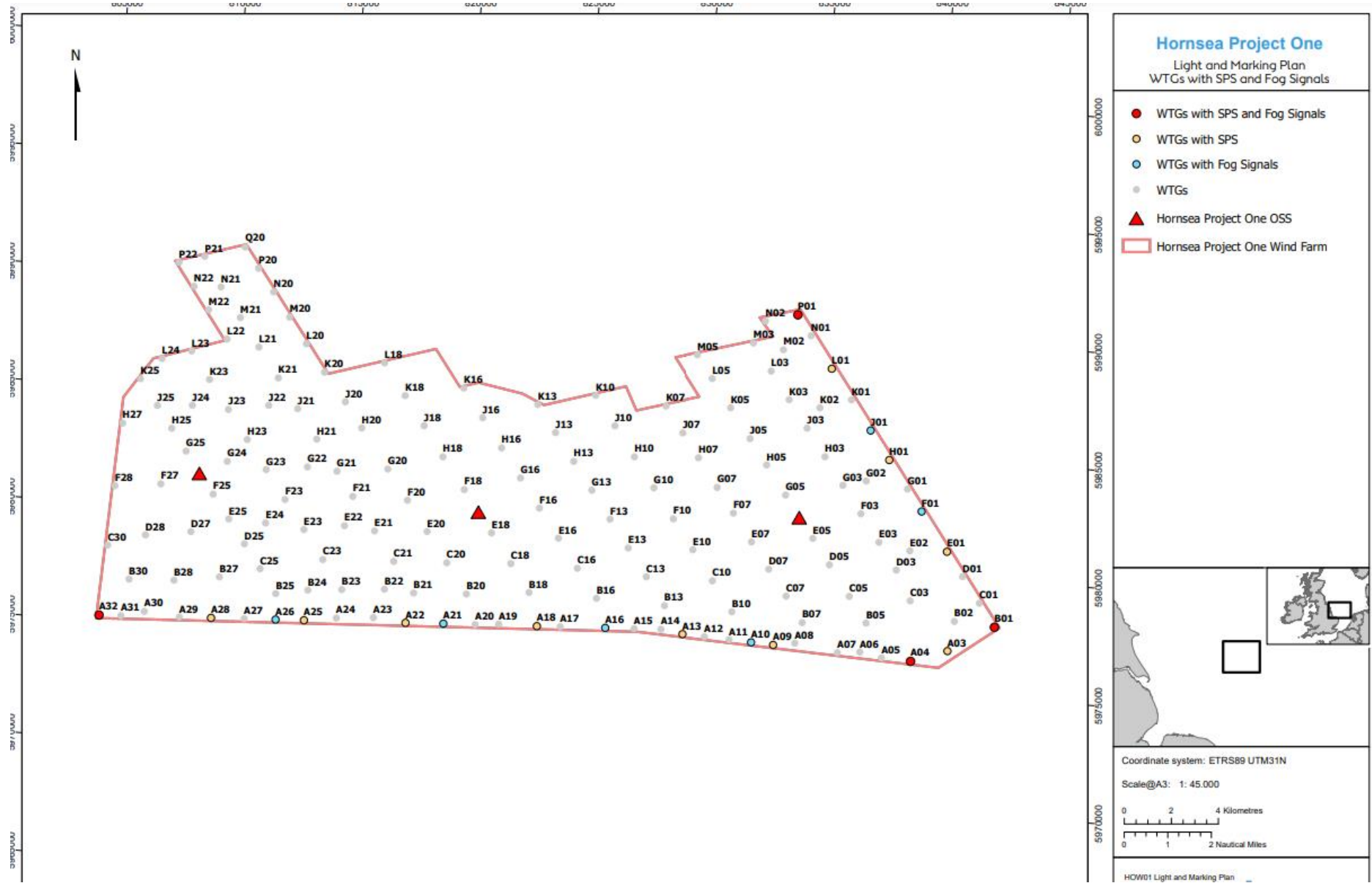
P01 Yellow Marine Lanterns Extinguished and Fog Horns Inoperable.

Turbines situated on the Hornsea Project One / Two adjoining perimeter

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



9.2 Other Operations

9.2.1 COMSY Cable Repair


Start Date: 19/03/2024.

Duration of work scope: 1 week

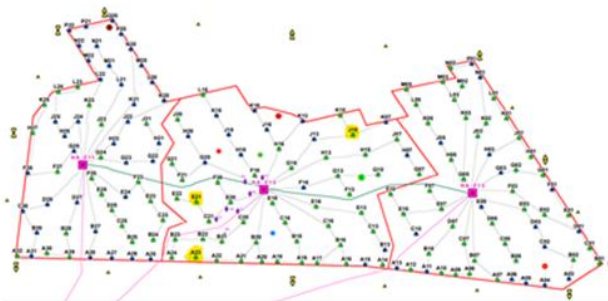
Description of work scope: COMSY cable repair

Is this a licensed activity: No

Safety zone required: Mariners are requested to remain at a distance of 250m from the locations below while the Channel Chieftain or work party are carrying out works.

General Information		Vessel Picture
Name	CHANNEL CHIEFTAIN IX	
Flag	UK	
Year Built	2017	
MMSI Number	232005600	
Call Sign	MAKS5	
Vessel Contact Details		
Bridge		
Party Chief		
Email	cc9@carlinboatcharters.com	

Coordinates example



WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A23	53°50' 11.48"N	01°49' 42.519"E
E21	53°52' 10.815"N	01°49' 42.004"E
J10	53°54' 40.460"N	01°58' 57.842"E

9.2.2 Blade Repairs and Blade Cowling Bolt retrofits

Start Date: 24/04/2024.

Duration of work scope: 24th April – 31st November

Description of work scope: Major Projects – Turbine Maintenance and Repairs

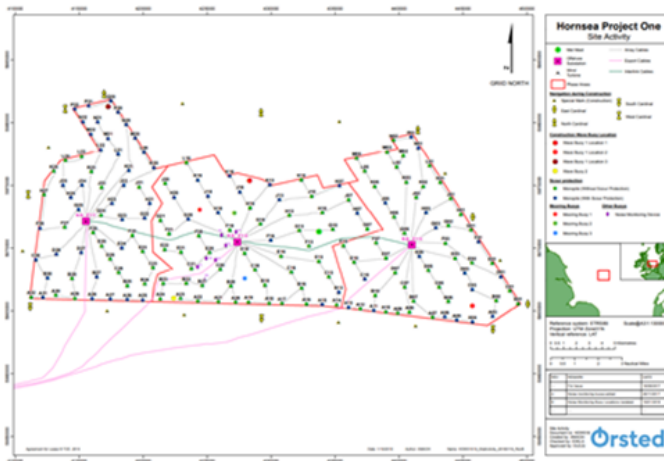
Is this a licensed activity: YES

Safety zone required: Mariners are requested to remain at a distance of 250m from the locations where external rope works are witnessed

General Information		Vessel Picture
Name	Njord Thor	
Flag	Jersey	
Year Built	2015	
MMSI Number	235108495	
Call Sign	2ICE2	
Vessel Contact Details		
Bridge	+447496675260	
Party Chief		
Email	njordthor@njordoffshore.com	

General Information		Vessel Picture
Name	HST Sofia	
Flag	UK	
Year Built	2019	
MMSI Number	232020271	
Call Sign	MEPI4	
Vessel Contact Details		
Bridge	+44 73 8738 3158	
Party Chief		
Email	hstsofia@purus.com	

Coordinates example



WTG ID (For Blade Repairs)	Degrees, Decimal Minutes	
	Latitude	Longitude
A19	53°50'5.340"N	01°54'34.121"E
A23	53°50'11.478"N	01°49'42.519"E
A24	53°50'10.027"N	01°48'16.430"E
B16	53°50'42.731"N	01°58'20.716"E
B22	53°50'50.737"N	01°50'7.208"E
B23	53°50'49.291"N	01°48'27.938"E
C18	53°51'48.777"N	01°55'0.387"E
C20	53°51'28.596"N	01°52'31.220"E
F13	53°52'32.023"N	01°58'49.544"E
F21	53°52'57.834"N	01°48'50.122"E
G07	53°53'17.692"N	02°2'58.029"E
H07	53°53'58.250"N	02°2'13.562"E
H20	53°54'32.240"N	01°49'8.214"E
J07	53°54'32.071"N	02°1'36.460"E
K03	53°55'19.794"N	02°5'42.840"E
K18	53°55'17.753"N	01°50'48.118"E

10 Hornsea Two – Notice to Mariners

10.1 Lighting and Marking Status

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

10.2 Other Operations

10.2.1 MBES Survey

Start Date: Mid-December

Duration of works scope: 1 Month.

Description of work: Full site MBES survey incl. EC's to KP. 7

Is this a licensed activity: Yes/No

Safety zone required. If Yes what distance? No

Vessel Information

General Information		Vessel Picture
Name	Deep Breaker	
Flag	Panama	
Year Built	1956	
MMSI	371150000	
Call Sign	HP4641	
Vessel Contact Details		
Bridge	GSM: +31615367813 SAT: +31208085042	
Party Chief	TBD	
Email	breakersurvey57@gmail.com	



10.2.2 Major Projects – Turbine Maintenance and Repairs

Start Date: 24/04/2024.

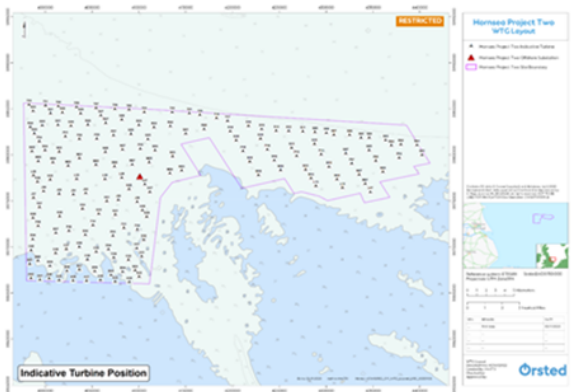
Duration of work scope: 24th April – 31st November

Description of work scope: Major Projects – Turbine Maintenance and Repairs

Is this a licensed activity: YES

Safety zone required: Mariners must observe an approved safety zone of 500m whenever Esvagt Froude is attached to a WTG. A minimum separation distance of 500m is also requested when the vessel is observed manoeuvring into position.

General Information		Vessel Picture
Name	Esvagt Froude	
Flag	Denmark	
Year Built	2015	
MMSI Number	219590000	
Call Sign	OWWN2	
Vessel Contact Details		
Bridge	IP Phone +45 82 136 216	
Party Chief		
Email	froude@esvagtvesel.com	



WTG ID's
107 pos: A34, A35, A37, A38, A40, A41, B33, B34, B35, B37, B38, B39, B40, C31, C33, C34, C35, C36, C37, C38, C40, D31, D34, D36, E30, E35, E37, E39, F30, F31, F34, F36, F38, G28, G31, G33, G36, H28, H31, H34, J28, J30, J33, J34, J35, J36, J37, K27, K28, K35, K36, L07, L28, L30, L33, L36, M07, M10, M13, M16, M18, M23, M25, M28, M30, M31, M33, M34, M35, N05, N13, N16, N23, N24, N33, N34, N35, P03, P07, P10, P18, P29, P30, P31, P34, Q01, Q05, Q07, Q13, Q21, Q25, Q31, Q34, R20, R22, R23, S03, S04, S05, S12, S15, S33, T17, T18, T20, T21, T22