# Hornsea 2 Offshore Wind Farm

## WEEKLY STATUS REPORT

Ørsted

Week Commencing: 09/05/2022 WK 19
Notice no: 107
Issued on the 9th May 2022

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# 1. Ørsted Marine and Helicopter Co-ordination Centre (MHCC)

| | |
|---|---|
| MHCC Routine Enquiries (24 hours) | +44 (0) 207 811 1171 |
| MHCC Emergency Number (24 hours) | +44 (0) 207 811 1170 |
| Email | MHCC_HOW02_ADM@orsted.co.uk |

## Safety Information

All vessel not involved in construction activities are requested to keep a 500m safety distance from construction and dive support vessels whilst transiting the area

**During Construction**

- 'Rolling' 500m Safety Zones (SZs) around each wind farm structure and / or their foundations when a construction vessel ***is*** present
- Pre-commissioning 50m SZs around any wind farm structure which is either partially constructed but not yet commissioned where a construction vessel ***is not*** present.

Discrepancies identified between coordinates should be questioned immediately to Ørsted. Information is supplied on a 'not for navigation' basis. All coordinated are WGS84 unless stated otherwise

# 2. HOW02 Guard Vessel Details

**EMSWIND**

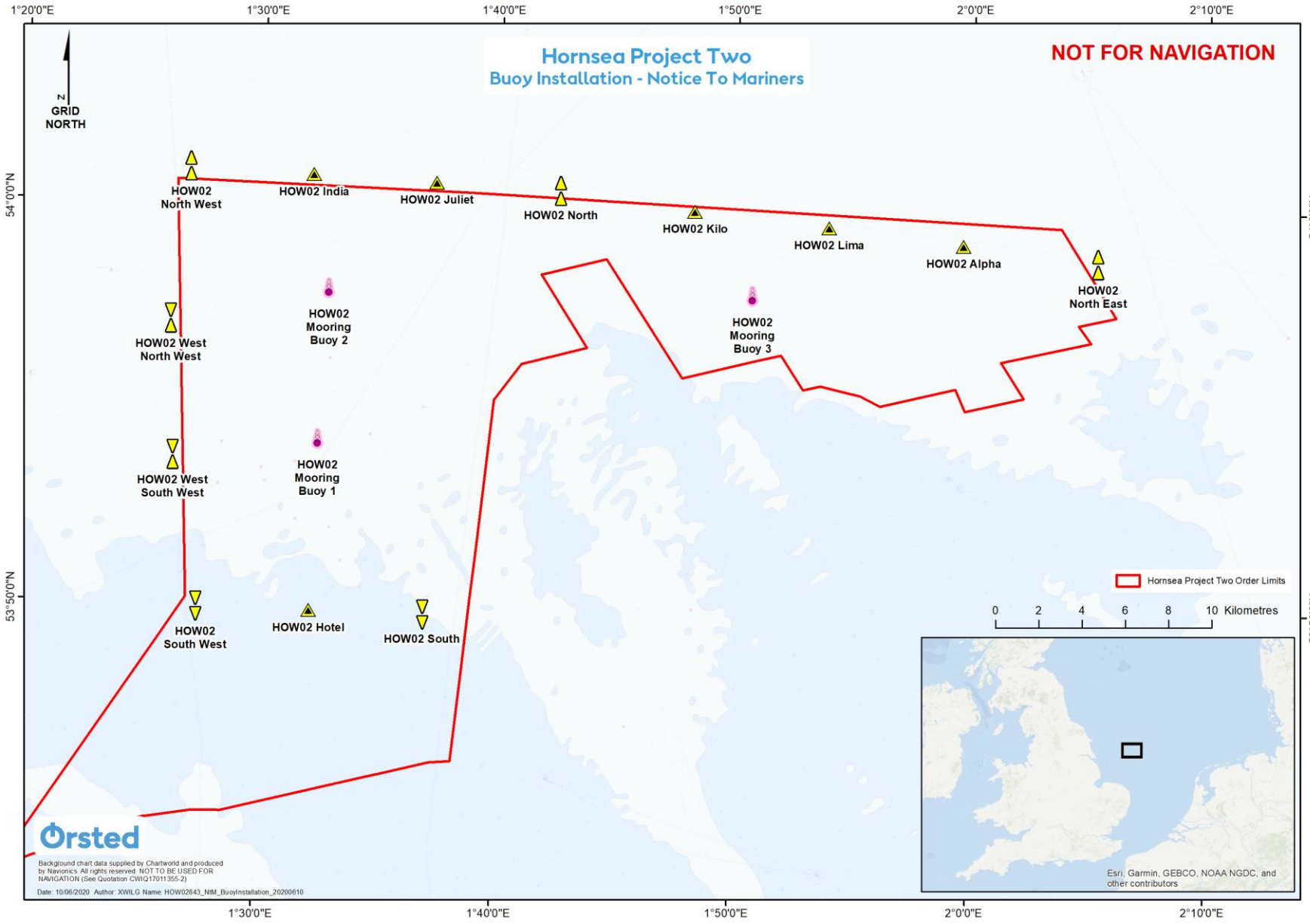
Bridge: +31 255 787 008
Iridium: +8 816 777 626
Mobile: +34 697676216
emswind@DBconnect.nl
IMO No: 9824540
Call sign: C6DX8
MMSI: 311000812

# 3. HOW02 Deployed navigation aids and buoys

| Buoy Name | Longitude (WGS84) | Latitude (WGS84) | Buoy Name | Longitude (WGS84) | Latitude (WGS84) |
|---|---|---|---|---|---|
| HOW02 Alpha | 1° 59.629' E | 53° 59.161' N | HOW02 West South West | 1° 26.344' E | 53° 53.645' N |
| HOW02 Hotel | 1° 32.225' E | 53° 49.820' N | HOW02 West North West | 1° 26.152' E | 53° 57.041' N |
| HOW02 India | 1° 32.092' E | 54° 0.692' N | HOW02 Kilo | 1° 48.240' E | 53° 59.930' N |
| HOW02 Juliet | 1° 37.306' E | 54° 0.542' N | HOW02 Lima | 1° 53.935' E | 53° 59.573' N |
| Mooring Buoy 1 | 1° 32.447' E | 53° 53.993' N | HOW02 North East | 2° 5.322' E | 53° 58.750' N |
| Mooring Buoy 2 | 1° 32.808' E | 53° 57.757' N | HOW02 North West | 1° 26.877' E | 54° 0.842' N |
| Mooring Buoy 3 | 1° 50.716' E | 53° 57.735' N | HOW02 South | 1° 37.014' E | 53° 49.769' N |
| HOW02 North | 1° 42.544' E | 54° 0.395' N | HOW02 South West | 1° 27.442' E | 53° 49.872' N |

| Buoy Name | Longitude (WGS84) | Latitude (WGS84 |
|---|---|---|
| HOW02 RCS North | 0° 55.929' E | 53° 38.431' N |
| HOW02 RCS East | 0° 56.628' E | 53° 37.929' N |
| HOW02 RCS West | 0° 55.291' E | 53° 37.772' N |

# HOW02 Demarcation Buoys



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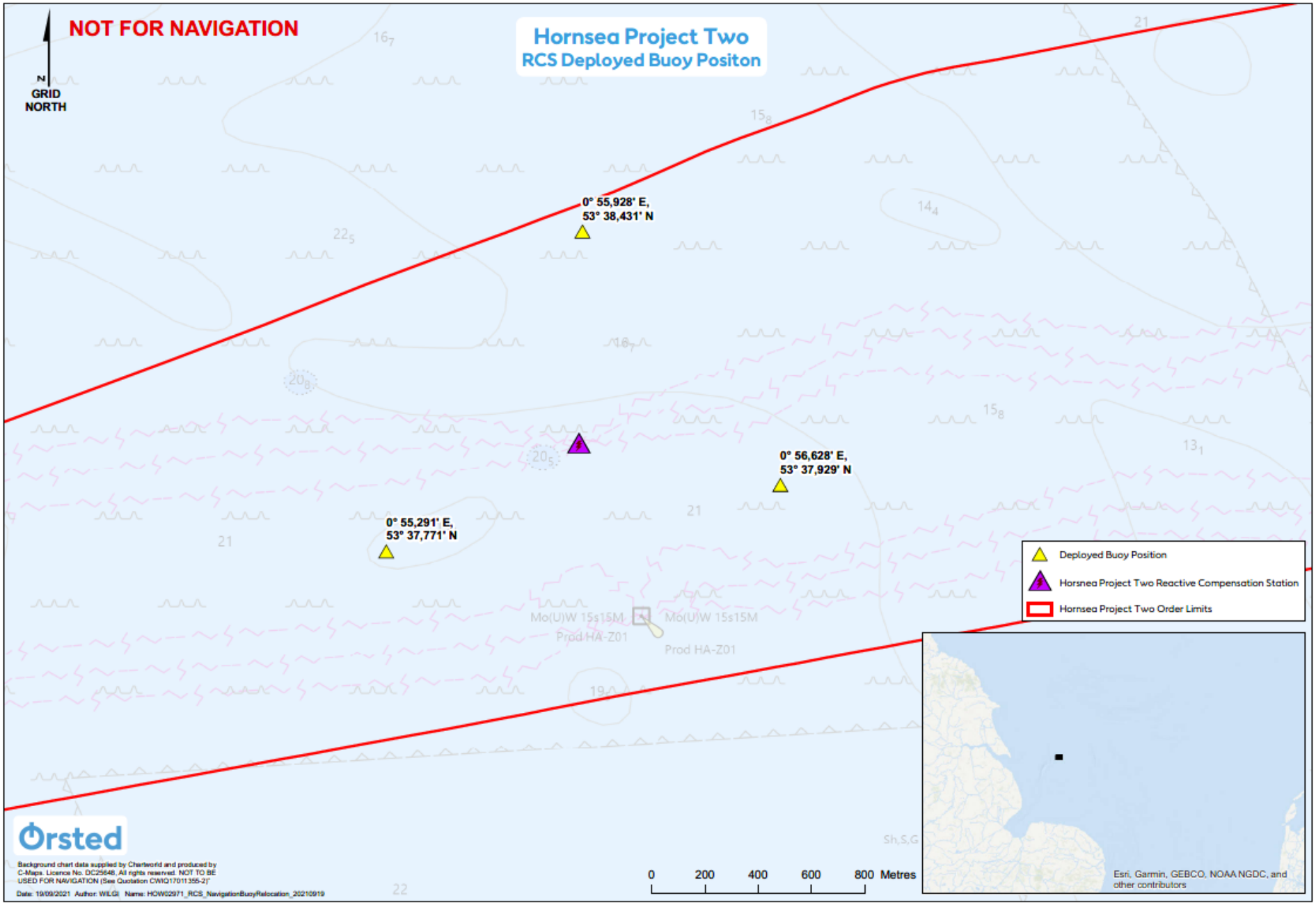
NOT FOR NAVIGATION
N
GRID
NORTH
Hornsea Project Two
RCS Deployed Buoy Positon
0° 55,928' E,
53° 38,431' N
0° 56,628' E,
53° 37,929' N
0° 55,291' E,
53° 37,771' N
Deployed Buoy Position
Horsnea Project Two Reactive Compensation Station
Hornsea Project Two Order Limits
Mo(U)W 15s15M
Prod HA-Z01
Mo(U)W 15s15M
Prod HA-Z01
Ørsted
Background chart data supplied by Chartworld and produced by C-Maps. Licence No. DC25648. All rights reserved. NOT TO BE USED FOR NAVIGATION (See Quotation CWIQ17011355-2)'
Date: 19/09/2021 Author: WILGI Name: HOW02971_RCS_NavigationBuoyRelocation_20210919
0 200 400 600 800 Metres
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



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# 4. HOW02 Vessels Operations and Activities

| Operations / Package | Vessel(s) | Comments |
|---|---|---|
| Construction | MHO Esbjerg<br>M/V Energizer<br>MHO Apollo<br>MHO Asgard<br>Emswind<br>Deep Cygnus<br>GMS Endeavour<br>Wind Innovation | Personnel Transfer<br>Personnel Transfer<br>Personnel Transfer<br>Personnel Transfer<br>Guard Vessel<br>W2W SOV<br>Jack-up Accommodation<br>W2W SOV |
| Array Cable Installation | Simar Esperanca<br>Simon Stevin<br>EDT Hercules | Trenching vessel<br>Survey Vessel<br>Trenching Vessel |
| WTG Commissioning | Manor Venture<br>Island Crown<br>Normand Fortress<br>Fob Swath 9<br>Fob Swath 4<br>MMS Supreme | Refuelling CTV<br>Commissioning SOV<br>Refuelling SOV<br>CTV<br>CTV<br>CTV |



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# 5. HOW02 Vessel Update

## Vessels Currently On Site

| Vessel Details | | | Vessel Communications | | | | Work Schedule | | VCC |
|---|---|---|---|---|---|---|---|---|---|
| Vessel Picture | Vessel Name | MMSI | Contact Number | Email | Type | Frequencies Monitored | Start / Arrival | Package | VCC Issued |
| | Emswind | 311000812 | +31 255 787 008 | emswind@DBconnect.nl | VHF | Ch. 16 & P1 @ 162.050 MHz | 01.10.2020 | Construction | 30.09.2020 |
| | MHO Esbjerg | 219023786 | +44 7869 303 667 | Mho-Esbjerg@mho-co.dk | VHF | Ch. 16 & P1 @ 162.050 MHz | 28/07/2020 | Construction | 13.11.2020 |
| | M/V Energizer | 219029563 | +46738627605 | energizer@n-o-s.eu | VHF | Ch. 16 & P1 @ 162.050 MHz | 14.02.2022 | Construction | 17.02.2022 |
| | MHO Apollo | 219028351 | +4553894645 | mho-apollo@mho-co.dk | VHF | Ch. 16 & P1 @ 162.050 MHz | 20.09.2021 | Construction | 17.09.2021 |
| | MHO Asgard | 219028352 | +4553874645 | mho-asgard@mho-co.dk | VHF | Ch. 16 & P1 @ 162.050 MHz | 20.09.2021 | Construction | 17.09.2021 |
| | Wind Innovation | 235113838 | 00870773262105 | master.wi@c-bed.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 19.03.2021 | Construction | 13.03.2021 |
| | Deep Cygnus | 257205000 | +870 773 945 452 | master@deepcygnus.no | VHF | Ch. 16 & P1 @ 162.050 MHz | 25.05.2021 | Construction | 28.05.2021 |
| | GMS Endeavour | 370582000 | +442922402028 | endeavour.6102@fleet.gmsplc.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 15.08.2021 | Construction | 14.08.2021 |



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# HOW02 Vessel Update

## Vessels Currently On Site continued.....

| Vessel Details | | | Vessel Communications | | | | Work Schedule | | VCC |
|---|---|---|---|---|---|---|---|---|---|
| Vessel Picture | Vessel Name | MMSI | Contact Number | Email | Type | Frequencies Monitored | Start / Arrival | Package | VCC Issued |
| | Manor Venture | 232007444 | +44 740 734854 | venture@mreltd.co.uk | VHF | Ch. 16 & P1 @ 162.050 MHz | 01.06.2021 | WTG Commissioning | 06.06.2021 |
| | Island Crown | 257245000 | TBC | bridge@crown.islandoffshore.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 01.09.2021 | WTG Commissioning | 04.09.2021 |
| | Normand Fortress | 258537000 | TBC | bridge@fortress.solstad.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 08.10.2021 | WTG Commissioning | 07.10.2021 |
| | FOB Swath 4 | 219463000 | TBC | Fob4@outlook.dk | VHF | Ch. 16 & P1 @ 162.050 MHz | 08.11.2021 | WTG Commissioning | 08.11.2021 |
| | Simar Esperanca | 219027989 | +44 1224 568827 | SimarEsperanca.Bridge@Subsea7.com | VHF | Ch. 16 & P1 @ 162.050 MHz | 07.06.2021 | Array Cable Installation | 24.03.2021 |
| | Simon Stevin | 253309000 | +32 (0)56 94 61 26 / +32 (0)475 96 21 16 | captain@sv.jandenul.com | VHF | Ch. 16 & P1 @ 162.050 MHz | WK13 | ACI | 01/04/2022 |

# HOW02 Vessel Update
## Vessels Currently On Site continued.....

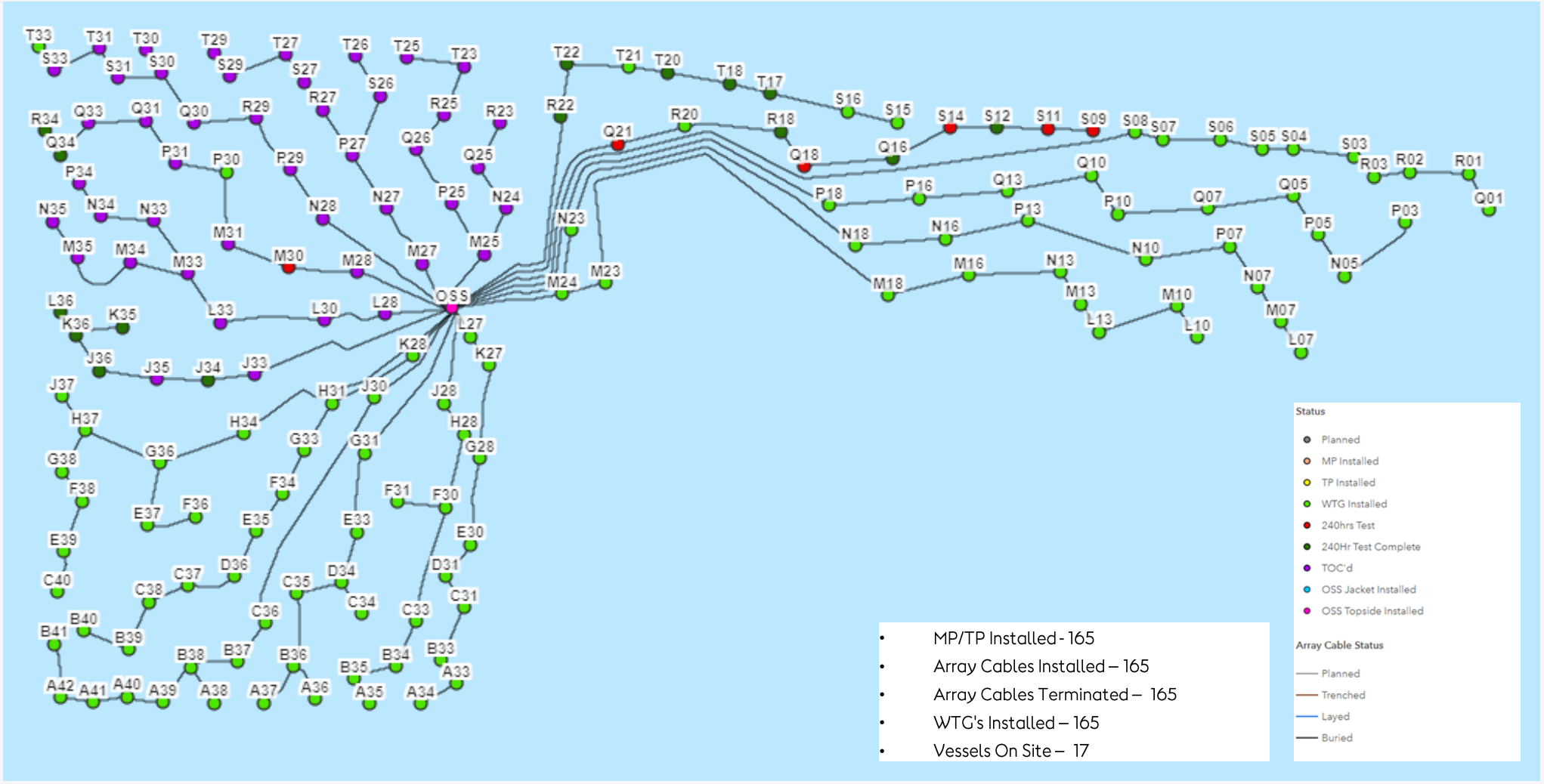
| Vessel Details | | | Vessel Communications | | | | Work Schedule | | VCC |
|---|---|---|---|---|---|---|---|---|---|
| Vessel Picture | Vessel Name | MMSI | Contact Number | Email | Type | Frequencies Monitored | Start / Arrival | Package | VCC Issued |
| | EDT Hercules | 21077600 | +44 2037 698560 | hercules.captain@edtoffshore.com | VHF | Ch. 16 & P1 @ 162.050 MHz | WK14 | ACI | 09.04.2022 |
| | MMS Supreme | 235103595 | +44 7741576452 | mmssupreme@mms-offshore.co.uk | VHF | Ch. 16 & P1 @ 162.050 MHz | WK14 | WTGC | 09.04.2022 |

# 6. HOW02 Vessel Update

## Vessels Due On Site

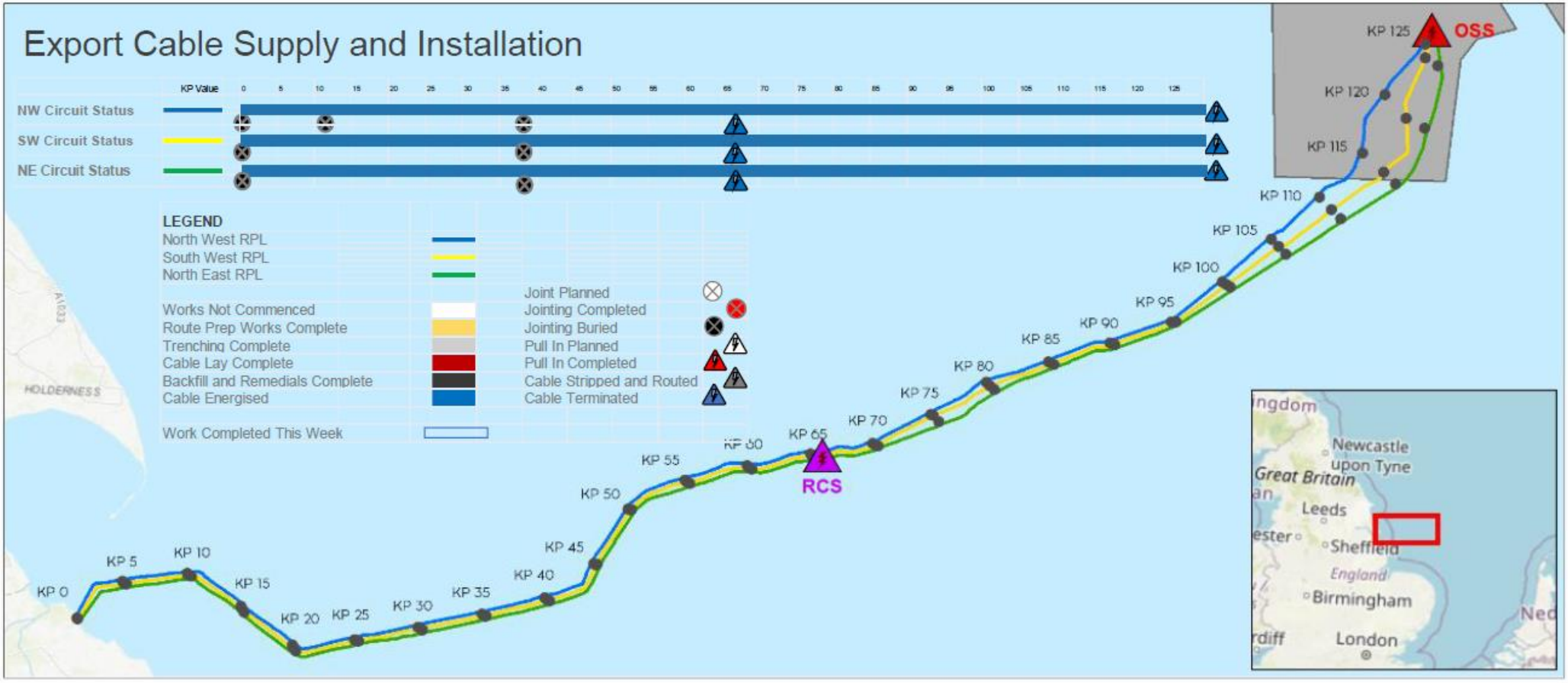
| Vessel Picture | Vessel Name | MMSI | Contact Number | Email | Type | Frequencies Monitored | Start / Arrival | Package |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

# 7. HOW02 Installation Status




- MP/TP Installed - 165
- Array Cables Installed – 165
- Array Cables Terminated – 165
- WTG's Installed – 165
- Vessels On Site – 17

# 7. HOW02 Installation Status continued

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## Dashboard: Export Cable Supply and Installation Progress Update

# 8. HOW02 Current Scope of Works

## Construction

- MHO Esbjerg – Personnel Transfer
- M/V Energizer – Personnel Transfer
- MHO Asgard – Personnel Transfer
- MHO Apollo – Personnel Transfer
- Emswind – HOW02 Guard Vessel
- Deep Cygnus – SOV W2W
- GMS Endeavour - Jack-up accommodation OSS
- Wind Innovation – SOV

## Array Cable Installations

- Simar Esperanca – Cable trenching vessel
- Simon Stevin – Survey Vessel
- EDT Hercules – Trenching Vessel

## WTG Commissioning

- Island Crown - SOV
- Manor Endurance – Refuelling CTV
- Normand Fortress – Refuelling SOV
- Fob Swath 9 – CTV
- Fob Swath 4 – CTV
- MMS Supreme - CTV

# 9. HOW02 Notice to Mariners currently open

| NtM Title | Document No | Description |
|---|---|---|
| HOW02_OFF_EX_NtM Notification of UXO | 06063171_I | Notice of Further cUXO Identified |
| HOW02_OFF_EX_NtM Transponder and Metocean Buoy Deployment | 06197107_I | Notice of measurement buoy deployment |
| HOW02_OFF_EX_NtM Commencement of Export Cable Works | 06196988_A | Notice of Export Cable Installation |
| HOW02_OFF_EX_NtM Export Cable Installation Works | 06239336_Y | Notice of Export Cable Installation Activities |
| HOW02_OFF_EX_NtM Deployment of Construction Buoys | 06230743_F | Construction Demarcation Buoy Deployment |
| HOW02_OFF_EX_NtM Array Cable Installation Works | 06478166_I | Notice of Array Cable Installation Works – Commencement of PLGR |
| HOW02_OFF_EX_NtM OSS RCS Installation | 06523452_G | Notice of Foundation Installation Activities – Commencement of OSS and RCS Jacket Installation |
| HOW02_OFF_EX NtM Construction Activities | 06833271_G | Notice of Construction Activities – Vessel Update |
| HOW02_OFF_EX_NtM WTG Installation Works | 07035285_J | Notice of Wind Turbine Generator (WTG) Installation Works |
| HOW02_OFF_EX NtM Cable Protection System Works | 07599353_B | Notice of Cable Protection System Rock Placement |

https://doreco.orsted.dk/share/service/doc-rev/revision/revision-linking?latestApproved=true&chronicleId=06512701

# 10. HOW02 Safety Zones

If there are any questions regarding safety zones please contact MHCC or HOW02 Ops Support

– **During Construction**

- 'Rolling' 500m Safety Zones (SZs) around each wind farm structure and / or their foundations when a construction vessel ***is*** present
- Pre-commissioning 50m SZs around any wind farm structure which is either partially constructed but not yet commissioned where a construction vessel ***is not*** present.

Current HOW02 Active Safety Zones

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| HB Z11 | 50m | Until further notice | T18 | 50m | Until further notice |
| HB Z01 | 50m | Until further notice | T20 | 50m | Until further notice |
| Innovation | 500m | Until further notice | S07 | 50m | Until further notice |
| S14 | 50m | Until further notice | T21 | 50m | Until further notice |
| S09 | 50m | Until further notice | T22 | 50m | Until further notice |
| P30 | 50m | Until further notice | S04 | 50m | Until further notice |
| R20 | 50m | Until further notice | S15 | 50m | Until further notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| J35 | 50m | Until further notice | T31 | 50m | Until further notice |
| S16 | 50m | Until further notice | S31 | 50m | Until further notice |
| L30 | 50m | Until further notice | R34 | 50m | Until further notice |
| M35 | 50m | Until further notice | T17 | 50m | Until further notice |
| J34 | 50m | Until further notice | R02 | 50m | Until further notice |
| M33 | 50m | Until further notice | P16 | 50m | Until further notice |
| M30 | 50m | Until further notice | T33 | 50m | Until further notice |
| Q16 | 50m | Until further notice | S11 | 50m | Until further notice |
| Q07 | 50m | Until further notice | T27 | 50m | Until further notice |
| S03 | 50m | Until further notice | S08 | 50m | Until further notice |
| S12 | 50m | Until further notice | S06 | 50m | Until further notice |
| S33 | 50m | Until further notice | S05 | 50m | Until further notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| S30 | 50m | Until further notice | R25 | 50m | Until further notice |
| S27 | 50m | Until further notice | P16 | 50m | Until further notice |
| R01 | 50m | Until further notice | N16 | 50m | Until further notice |
| Q13 | 50m | Until further notice | P10 | 50m | Until further notice |
| T29 | 50m | Until further notice | N10 | 50m | Until further notice |
| Q10 | 50m | Until further notice | R03 | 50m | Until further notice |
| S29 | 50m | Until further notice | T23 | 50m | Until further notice |
| S07 | 50m | Until further notice | Q25 | 50m | Until further notice |
| S04 | 50m | Until further notice | M16 | 50m | Until further notice |
| M25 | 50m | Until further notice | P13 | 50m | Until further notice |
| T30 | 50m | Until further notice | N13 | 50m | Until further notice |
| P25 | 50m | Until further notice | Q26 | 50m | Until further notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| R23 | 50m | Until further notice | S26 | 50m | Until further notice |
| R27 | 50m | Until further notice | N27 | 50m | Until further notice |
| P27 | 50m | Until further notice | M31 | 50m | Until further notice |
| N24 | 50m | Until further notice | Q30 | 50m | Until further notice |
| Q33 | 50m | Until further notice | R29 | 50m | Until further notice |
| T26 | 50m | Until further notice | P31 | 50m | Until further notice |
| R22 | 50m | Until further notice | Q31 | 50m | Until further notice |
| L28 | 50m | Until further notice | Q34 | 50m | Until further notice |
| M27 | 50m | Until further notice | L33 | 50m | Until Further Notice |
| N28 | 50m | Until further notice | N34 | 50m | Until Further Notice |
| N33 | 50m | Until further notice | M34 | 50m | Until Further Notice |
| P29 | 50m | Until further notice | N35 | 50m | Until Further Notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| J36 | 50m | Until Further Notice | P05 | 50m | Until Further Notice |
| P34 | 50m | Until Further Notice | N23 | 50m | Until Further Notice |
| J33 | 50m | Until Further Notice | P03 | 50m | Until Further Notice |
| K36 | 50m | Until Further Notice | P07 | 50m | Until Further Notice |
| L36 | 50m | Until Further Notice | M23 | 50m | Until Further Notice |
| K35 | 50m | Until Further Notice | N18 | 50m | Until Further Notice |
| Q21 | 50m | Until Further Notice | M07 | 50m | Until Further Notice |
| P18 | 50m | Until Further Notice | L07 | 50m | Until Further Notice |
| Q01 | 50m | Until Further Notice | M18 | 50m | Until Further Notice |
| R18 | 50m | Until Further Notice | M13 | 50m | Until Further Notice |
| Q05 | 50m | Until Further Notice | M24 | 50m | Until Further Notice |
| N05 | 50m | Until Further Notice | N07 | 50m | Until Further Notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| M10 | 50m | Until Further Notice | J28 | 50m | Until Further Notice |
| L10 | 50m | Until Further Notice | H28 | 50m | Until Further Notice |
| L13 | 50m | Until Further Notice | F30 | 50m | Until Further Notice |
| L27 | 50m | Until Further Notice | F31 | 50m | Until Further Notice |
| G28 | 50m | Until Further Notice | C33 | 50m | Until Further Notice |
| K27 | 50m | Until Further Notice | B34 | 50m | Until Further Notice |
| E30 | 50m | Until Further Notice | B35 | 50m | Until Further Notice |
| D31 | 50m | Until Further Notice | A35 | 50m | Until Further Notice |
| C31 | 50m | Until Further Notice | E33 | 50m | Until Further Notice |
| A33 | 50m | Until Further Notice | G31 | 50m | Until Further Notice |
| B33 | 50m | Until Further Notice | D34 | 50m | Until Further Notice |
| A34 | 50m | Until Further Notice | C34 | 50m | Until Further Notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| C35 | 50m | Until Further Notice | B41 | 50m | Until Further Notice |
| A37 | 50m | Until Further Notice | A42 | 50m | Until Further Notice |
| B36 | 50m | Until Further Notice | A38 | 50m | Until Further Notice |
| J30 | 50m | Until Further Notice | A41 | 50m | Until Further Notice |
| A36 | 50m | Until Further Notice | F34 | 50m | Until Further Notice |
| B37 | 50m | Until Further Notice | C38 | 50m | Until Further Notice |
| C36 | 50m | Until Further Notice | H32 | 50m | Until Further Notice |
| B38 | 50m | Until Further Notice | D36 | 50m | Until Further Notice |
| A39 | 50m | Until Further Notice | G33 | 50m | Until Further Notice |
| K28 | 50m | Until Further Notice | E35 | 50m | Until Further Notice |
| A40 | 50m | Until Further Notice | C37 | 50m | Until Further Notice |
| A41 | 50m | Until Further Notice | B39 | 50m | Until Further Notice |

# HOW02 Safety Zones Continued

| Asset | Size | Duration | Asset | Size | Duration |
|---|---|---|---|---|---|
| B40 | 50m | Until Further Notice | F38 | 50m | Until Further Notice |
| B41 | 50m | Until Further Notice | E39 | 50m | Until Further Notice |
| H34 | 50m | Until Further Notice | GMS Endeavour | 500m | Until Further Notice |
| G36 | 50m | Until Further Notice | Seafox 7 | 500m | Until Further Notice |
| E37 | 50m | Until Further Notice | | | |
| F36 | 50m | Until Further Notice | | | |
| J37 | 50m | Until Further Notice | | | |
| H37 | 50m | Until Further Notice | | | |
| G38 | 50m | Until Further Notice | | | |
| F38 | 50m | Until Further Notice | | | |
| E39 | 50m | Until Further Notice | | | |
| C40 | 50m | Until Further Notice | | | |