



**KINCARDINE OFFSHORE
WINDFARM PROJECT**

Memorandum

**Document Number
KOWL-MEM-0001-047**

Issue Date

08/12/2020

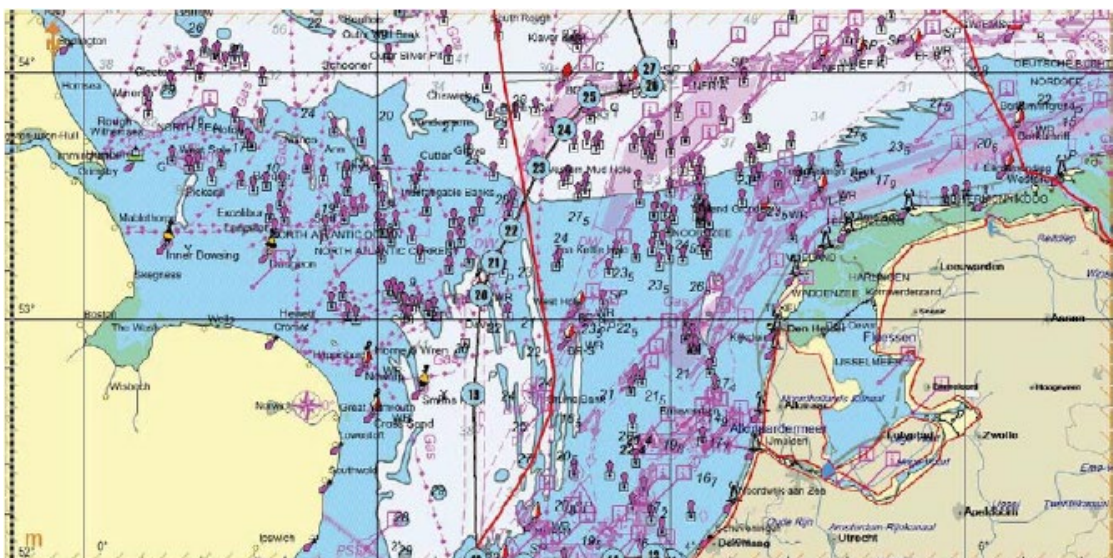
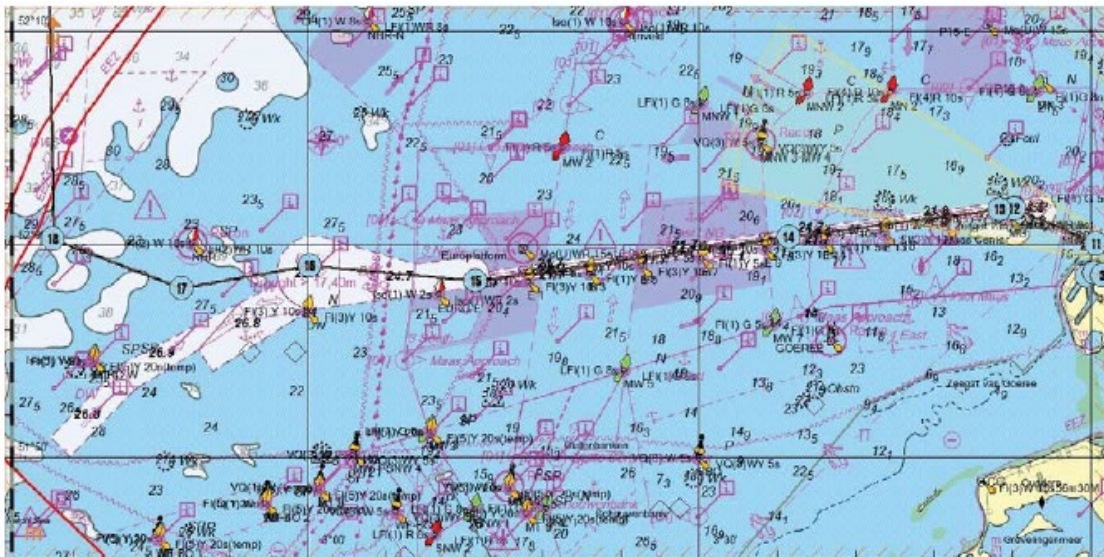
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**Notice to Mariners of Activities associated with the Development
of the Kincardine Offshore Windfarm
KIN-04 Tow to Site**

1) Summary

Please be advised that the floating turbine KIN-04 is under tow from its assembly port in Holland, to the wind farm site off Aberdeen. The expected date of arrival at the wind farm site is 15th December. The route is 480 nmi long, however this operation is very weather sensitive and may incur delays.

2) Route of the tow after clearing Holland





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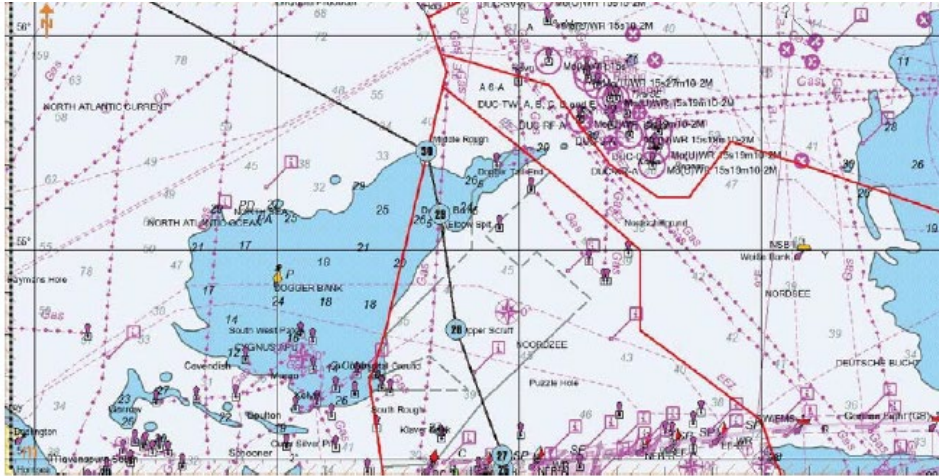
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| | |
|-----------------|--------------|
| Length of tow | 480 nmi |
| Speed of tow | 3kts maximum |
| Duration of tow | 9 to 10 days |

*assuming no hold up

| | | |
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3) Way points for the tow

| WP | Name: | Latitude | Longitude |
|----|-------------------------|-------------|--------------|
| 1 | Rotterdam | 51°58.543'N | 003°59.683'E |
| 2 | | 51°58.701'N | 004°00.276'E |
| 3 | | 51°58.576'N | 004°00.917'E |
| 4 | | 51°58.312'N | 004°02.108'E |
| 5 | | 51°57.928'N | 004°03.732'E |
| 6 | | 51°57.744'N | 004°04.637'E |
| 7 | | 51°57.776'N | 004°05.056'E |
| 8 | | 51°58.278'N | 004°05.295'E |
| 9 | | 51°58.638'N | 004°05.150'E |
| 10 | | 51°59.393'N | 004°02.626'E |
| 11 | | 52°00.076'N | 004°00.419'E |
| 12 | | 52°01.717'N | 003°54.137'E |
| 13 | | 52°01.683'N | 003°53.000'E |
| 14 | | 52°00.395'N | 003°36.837'E |
| 15 | | 51°58.321'N | 003°12.821'E |
| 16 | | 51°59.065'N | 003°00.122'E |
| 17 | | 51°57.977'N | 002°50.292'E |
| 18 | | 52°00.297'N | 002°40.412'E |
| 19 | | 52°41.441'N | 002°39.389'E |
| 20 | | 53°05.923'N | 002°42.414'E |
| 21 | | 53°13.927'N | 002°47.330'E |
| 22 | | 53°21.821'N | 002°54.642'E |
| 23 | | 53°37.107'N | 003°06.078'E |
| 24 | | 53°46.273'N | 003°16.734'E |
| 25 | | 53°54.177'N | 003°26.636'E |
| 26 | | 53°57.004'N | 003°52.272'E |
| 27 | | 54°01.048'N | 003°51.365'E |
| 28 | | 54°37.400'N | 003°28.826'E |
| 29 | | 55°10.216'N | 003°20.841'E |
| 30 | | 55°27.964'N | 003°14.132'E |
| 31 | At windfarm site | 57°17.602'N | 001°24.772'W |

| | | |
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4) Vessel performing the lead tug tow operation

| |
|---------------------------------------|
| Vessel Name MANTA |
| Call Sign: ORKJ |
| MMSI: 205340000 |
| IMO: 9261487 |
| Gross Tonnage: 3164 |
| Vessel dimensions 75.5 x 18m |
| Vsat No: +47 2367 4790 |
| Fleet No: +870 7731 68213 |
| Iridium No: +881 6318 30187 |
| E mail; manta-captain@boskalis.com |



5) Vessel performing the tow escort

| |
|---|
| Vessel Name: Princess |
| Call Sign: ORQU |
| MMSI: 205642000 |
| IMO: 9242766 |
| Vessel dimensions 67.4 x 16 m |
| Mobile: +31 6270 72837 |
| Bridge: +47 2367 0441 |
| Fleet: +870 7739 44187 |
| E mail: princess-bridge@boskalis.com |





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6) Consent Area

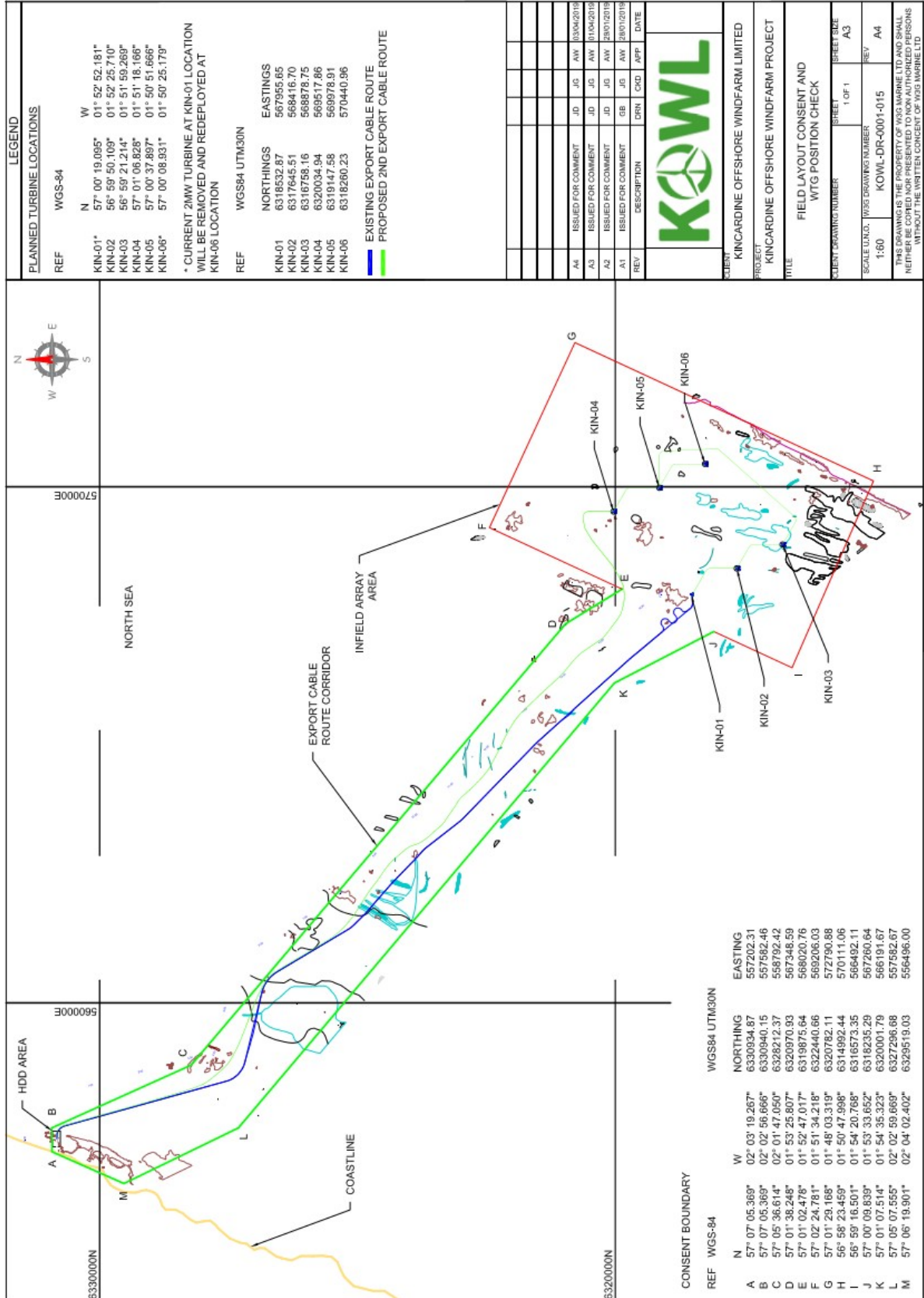



Figure 1: Project Site and Indicative Turbine Locations (NOT TO BE USED FOR NAVIGATION)

| | | |
|---|---|--|
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6 General Safety Advice

The length of the catenary is expected to be 1,000m long, and between 30 to 120t bollard pull depending on speed and weather.

Mariners are advised to navigate with caution and keep continued watch on VHF Channel 16 when navigating in the area.

For marine and aviation safety advice refer to document KOWL-PL-0004-001 – Lighting and Marking Plan which can be found on the Pilot-Renewables and Marine Scotland websites linked below:

<http://pilot-renewables.com/>

<https://www.gov.scot/Topics/marine/Licensing/marine/scoping/Kincardine>

5 Contact Details

| Name | Job Title | Telephone | Email |
|--------------------|--------------------------------------|---|--|
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| Michael Sutherland | KOWL Fisheries Liaison Officer (FLO) | 07928484343 | avoca61@gmail.com |