The shaded blocks below indicate the areas of activity published within this Bulletin.

This Bulletin, along with previous issues, can be viewed at: www.kingfishercharts.org. Alternatively you can receive the Bulletin via email, by contacting: kingfisher@seafish.co.uk

* Unless otherwise stated, all co-ordinates listed in this Bulletin refer to WGS84 datum
Brough Head Wave Farm Site—Survey Activities (New Entry 20-12-2011)

Mariners are advised that hydrographic surveys are currently taking place at the Brough Head Wave Farm Site. Due to the current weather conditions survey operations will intermittently be taking place during the next two months.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Submerged Depth</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centrica Energy Remote Sensor</td>
<td>59° 08.515 N 003° 10.167 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Sign: MQAM3</td>
<td>59° 11.040 N 003° 11.679 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>59° 09.729 N 003° 20.474 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>59° 09.197 N 003° 22.961 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>59° 07.708 N 003° 23.291 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>59° 06.604 N 003° 24.556 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>59° 03.962 N 003° 23.966 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>58° 58.953 N 003° 25.436 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>58° 58.939 N 003° 21.667 W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Andrew Stenson, RPS Energy, Tel: 01483 756 500. Email: stensona@rpsgroup.com
European Offshore Wind Farm – Survey Activities (New 03-01-2012)

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Submerged Depth</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eileen May</td>
<td>100m 5m</td>
<td>57° 24.583'N 001° 51.099'W Shore</td>
<td>5th January 2012 – 31st January 2012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>57° 23.540'N 001° 47.427'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>57° 15.195'N 001° 38.590'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>57° 12.008'N 001° 38.567'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>57° 11.987'N 001° 36.797'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>57° 01.439'N 002° 01.701'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>57° 02.364'N 002° 07.598'W Shore</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Claire Lacey, SMRU Limited, Tel: +44(0)1334 479100, email: cl@smru.co.uk

Inch Cape Offshore Wind Farm – Survey Activities (New 20-12-2011)

Please be advised that Canyon Offshore Limited will be conducting a Geotechnical investigation within the proposed Inch Cape Offshore Wind Farm site. The survey will consist of five bore holes with an option of a sixth. The vessel is planned to depart to site on Friday 23rd December and works will be in the order of several days (weather depending).

BH 1 56°26.651’N 002°14.488’W
BH 2 56°30.540’N 002°15.725’W
BH 3 56°28.587’N 002°12.699’W
BH 4 56°26.651’N 002°14.488’W
BH 5 56°30.540’N 002°15.725’W
BH 6 (Optional) 56°28.587’N 002°12.699’W

The ‘Stril Explorer’ (Call Sign: 2EBI9) a 76.4m DP2 Multipurpose Offshore Vessel will be used for the ROVDrill Mk2 operations to conduct the bore holes as specified.

For further information, please contact: SRV Bavenit, Tel: +47 51 406 100, Sat Phone: +873 32 73 33 610, Email: master@bavenit.com

Firth of Forth Offshore Wind Round 3 – Survey Activities (Update 13-12-2011)

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Towing Cable Length &amp; Submerged Depth</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2. 56°58.333’N 002°21.311’W</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Peter Wilson, Partrac Ltd, Tel:+44(0)141 552 3903  email:pwilson@partrac.com
Hornsea Offshore Wind Farm – Survey Activities (Update 04-01-2012)

Buoy
Meteorological buoys are located at locations 1, 2, 3, and 6. A directional wave rider (DWR) buoy is located at location 7a. All locations are detailed in Table 1. Lighting and navigational aspects of the meteorological buoys are to Trinity House and IALA standards; they are equipped with a St. Andrew’s cross, radar reflector and an amber navigation light set to flash 5 times at 1Hz every 20 seconds. The DWR buoy is painted to IALA standard and is equipped with a radar reflector and an amber navigation light set to flash 5 times at 1Hz every 20 seconds. The DWR buoy is moored to the seabed through a series of rubber compliant sections at the sea surface and a stainless steel riser line throughout the water column. The result of this mooring configuration is a large excursion of the buoy about its mooring; we ask that passing vessels give the buoy a wide berth of approximately 300m.

A visit is scheduled to the Inner Well Bank Rough (location 2) and Chiswick Field (location 3) buoys for the 7th -10th Jan or the 12th-16th Jan on the vessel THV Alert (weather dependant).

<table>
<thead>
<tr>
<th>Location</th>
<th>Suggested Name</th>
<th>Equipment</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Well Bank Flat</td>
<td>Met. buoy + AWAC</td>
<td>53° 58.200’N</td>
<td>1° 23.580’E</td>
</tr>
<tr>
<td>2</td>
<td>Inner Well Bank Rough</td>
<td>Met. buoy</td>
<td>53° 52.950’N</td>
<td>1° 59.190’E</td>
</tr>
<tr>
<td>3</td>
<td>Chiswick Field</td>
<td>Met. buoy</td>
<td>53° 54.250’N</td>
<td>2° 25.900’E</td>
</tr>
<tr>
<td>6</td>
<td>Ravenspurn Field</td>
<td>Met. buoy</td>
<td>54° 09.580’N</td>
<td>0° 49.350’E</td>
</tr>
<tr>
<td>7a</td>
<td>Schooner Field</td>
<td>DWR buoy</td>
<td>53° 53.367’N</td>
<td>1° 59.100’E</td>
</tr>
</tbody>
</table>

Surveys
The MV Southern Star (call sign C6DZ8), a 36 m survey vessel will be conducting a bird and marine mammal survey within the Hornsea Zone, running predetermined transect lines spaced 6 km (3.2 Nm) and 2 km (1.08 Nm) apart at a speed of 10 kts. These surveys will be undertaken monthly during daylight hours – dawn until dusk. The vessel will be towing a hydrophone astern, on approximately 200m of cable towed at ~7 m depth or less, during daylight hours only.

A meteorological mast is located at the coordinates below. Lighting and navigational aspects of the meteorological mast are to Trinity House and IALA standards. The mast is marked by 4 cardinal buoys located 1km north, south, east, and west from the coordinates. Further commission works on the met mast are due to commence in 15th January, the vessel to be used for the works will be the Noordhoek Pathfinder.

Met Mast Location:  | 53°53.499’N 001°59.497’E

For a copy of the Kingfisher Awareness Flyer for the proposed Hornsea Offshore Wind Farm, please click on the link below, or visit www.kingfishercharts.org

London Array Offshore Wind Farm – Pre-Construction Works (Update 01-01-2012)

The London Array Offshore Wind Farm will be constructed in the Outer Thames Estuary, it will be situated midway between the Kent and Essex coastlines, more than 20km (12 miles) from each shore. Phase one consists of 175 wind turbines, installed on two sandbanks; Long Sand and Kentish Knock and in the Knock Deep channel that lies between, in water depths ranging from 0 to 25 m. The project will be connected by subsea cables to a new onshore substation at Cleve Hill on the North Kent coast.

- A 500m radius around each wind farm structure within the construction zones while construction work is ongoing;
- A 50m radius around each wind farm structure, complete or incomplete (until commissioned as part of the Wind Farm);
- A 500m radius around all major maintenance works of wind farm structures.

Work Schedule
Foundation installation vessel MPI Adventure will install foundations at C10, B12 & C12. Whilst construction is taking place at these positions a 500m safety zone is established, and vessels are to keep clear. The Wind Turbine installation barge Sea Worker is scheduled to arrive in Harwich during week 1 or 2 depending on weather. The WTG installation sequence to be confirmed.

Export cable installation vessel Stemat Spirit has completed laying of the first export cable from the Eastern Swale to offshore Substation #1, and is presently in Norway preparing to load the second (of four) export cable. The rock dumping vessel Ham 601 is due to commence rock dumping at the Kentish Flats and BritNed crossings during week 01. The Ham 601 will be supplied with rock by the bulk carriers Emidy and Helene.

Continued over page...
The two Cable crossings between the London Array export cable and the Kentish Flats export cable and the Britnet cable, where the cable has been surface laid, are guarded by guard vessel “Our Pride”. The vessel Coastal Worker assisted by Sara Maatje VI will be undertaking cable burial and diving operation close to the offshore Substation 1. During these operations a 500m safety zone is established, and vessels are to keep clear.

The vessel ‘Neptune’ will be undertaking Marine Mammal Observation duties, prior to and during piling operations. Construction site guard vessel duties will be covered by the Mary Ann 1.

**Installations**
91 Foundation monopiles and transition pieces and two substations have been installed (Please view the Kingfisher Flyer for installation coordinates).

All Foundations are installed with Lights : Fl(Y) 2.5sec 2Nm. Two wave rider buoys installed as listed below. The wave rider buoys are protected by 2 guard buoys (Lt. Fl (5) Y 20sec 2nm) approx 50m to the North and South of each wave rider buoy.

Knock Deep (North) - 51°36.960’N 01°30.310’E (Fl (5) Y 20s 2nm) | Knock Deep (South) - 51°35.000’N 01°29.930’E (Fl (5) Y 20s 2nm)

For a copy of the Kingfisher Awareness Flyer for the London Array Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

**Kingfisher Awareness Flyer: London Array Offshore Wind Farm**

For further information, please contact: Anker Lauritsen, Email: londonarraytraffic@dongenergy.dk, Tel: +44(0)7909414690 or +45 31727585

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**Humber Gateway Offshore Wind Farm – Geotechnical Survey (Update 28-12-2011)**

Located 8km off the Holderness coast of East Yorkshire, near the Humber Estuary, the Humber Gateway Offshore Wind Farm will comprise of up to 77 wind turbines of 3MW, for a total capacity up to 230MW.

Please be advised that Osiris Projects will be carrying out marine survey operations approximately 10miles offshore from Spurn Head, on the Yorkshire coastline.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Coordinates</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.On MV Chartwell MHGV6</td>
<td>1. 53°40.107’N 000°14.809’E</td>
<td>5th January 2012</td>
</tr>
<tr>
<td>2. 53°41.035’N 000°19.978’E</td>
<td>For 4 weeks</td>
<td></td>
</tr>
<tr>
<td>3. 53°38.021’N 000°19.882’E</td>
<td>4. 53°35.830’N 000°16.893’E</td>
<td></td>
</tr>
<tr>
<td>5. 53°35.280’N 000°16.197’E</td>
<td>6. 53°36.784’N 000°16.277’E</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Osiris Projects, Tel: 0151 328 1120 Fax: 0151 343 1057.

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**Lincs Offshore Wind Farm – Construction Activity & Survey (Update 23-12-2011)**

**Cable Installation**
Mariners are advised to note that construction works within the Lincs site are fully underway, with the first 42 foundations and transition pieces installed.

**Construction Activity**
Secondary works at some of these locations will continue this week. 500m safety zones will re-apply around any structure where secondary works are underway, since diving operations are taking place. Mariners are advised to maintain a safe working distance from the Sound Prospector vessel. In the absence of any installation activity, 50m Safety Zones will exist around completed foundation structures. Temporary navigation lights (Fl Y 2.5s with 2nm range) are in place on all installed foundations.

Installation of the Transition Piece at LS46, LS40 and LS39 will take place this week, 500m Safety Zones will exist around these foundation structures during installation, reverting to a 50m Safety Zone once the initial works are completed. Special mark and cardinal buoys remain in place along the northern, eastern and southern edge of the site to define the boundary of the Lincs OWF site.

**Continued over page...**
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50m Safety Zones

<table>
<thead>
<tr>
<th>Coordinates of Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>The position and type of these buoys is shown below:</td>
</tr>
<tr>
<td>1. East Cardinal (VQ (3) 5s) - 53°07.540'N 00°29.790'E</td>
</tr>
<tr>
<td>2. East Cardinal (VQ (3) 5s) - 53°09.070'N 00°31.490'E</td>
</tr>
<tr>
<td>3. Special Mark (Fl Y 2.5s) - 53°10.970'N 00°31.500'E</td>
</tr>
<tr>
<td>4. East Cardinal (VQ (3) 5s) - 53°12.440'N 00°31.460'E</td>
</tr>
<tr>
<td>5. Special Mark (Fl Y 2.5s) - 53°13.800'N 00°30.940'E</td>
</tr>
<tr>
<td>6. North Cardinal (VQ) - 53°15.170'N 00°30.350'E</td>
</tr>
<tr>
<td>7. West Cardinal (VQ (9) 10s) - 53°14.670'N 00°27.020'E</td>
</tr>
<tr>
<td>8. West Cardinal (VQ (9) 10s) - 53°09.450'N 00°28.050'E</td>
</tr>
</tbody>
</table>

500m Safety Zones

Substation, LS46, LS40, LS39.

Coordinates of Operations

Sheringham Shoal – Installation, Survey, Deployment of Buoys (Update 20-12-2011)

During the night between 19 and 20 December SEA JACK lost one midline Buoy. The buoy is round and yellow approximately 2 meters wide and 1.5 meter high. The buoy should still be floating, and no wires are attached to the buoy.

SEA JACK was jacked up at location J2 in the Sheringham Shoals Windfarm (53°08.648’N 001°10.555’E)

Cable Installation

Please be advised that Jet Trenching Operations will be starting in the area designated as part of the Sheringham Shoal windfarm, Export and Infield using vessel Toisa Warrior and Survey vessel Discovery Rose. These are expected to commence from the 5th September 2011 to end of March 2012.

Installation

The Jack up Installation Barge (J.I.B.) SEA JACK will be working in the Sheringham Shoal Wind Farm Construction Zone. In the zone she will install the two Tower modules, followed by Nacelle and three separate rotor blades.

Boundaries of this zone are identified by 4 cardinal buoys in the below listed positions:

- North Cardinal – 53°09.913’N 001°10.766’E – (VQ)
- South Cardinal – 53°06.361’N 001°10.000’E – (VQ(6) + LFl 10 sec)
- East Cardinal – 53°07.318’N 001°12.287’E – (VQ(3) 5 sec)
- West Cardinal – 53°08.956’N 001°05.413’E – (VQ(9) 10 sec)

The SEA JACK will be positioned using four anchors, placed by Anchor Handling tugs. The anchors will be marked by yellow buoys. The installation will then take place using the vessels crane, when the vessel is fully jacked out of the water.

The operation will start from 1st September 2001 and it will last until mid-January 2012. In this period the vessel will be in transit between Great Yarmouth and the construction zone. During these passages the vessel will be towed and the tow will exceed 200m.

Lynn Offshore Wind Farm – Maintenance Operations (New 19-12-2011)

Mariners are advised that the wind turbine maintenance works at the Lynn Wind Farm site will be continuing until 31 August 2012. The activities will be undertaken by the vessel ‘MS Wind’.

For further information, please contact: Simon Prince, Tel: 07920 273866, email:sprince@dsml.co.uk
Greater Gabbard Offshore Wind Farm – Installation Activities (Update 08-12-2011)

Export Cable
The third and final export cable is now due to be installed shortly (subject to any weather delays). The cable will be laid using the cable lay barge ASV Pioneer and will be attended by 3 support tugs. The cable barge will be using a minimum 3 point anchor mooring arrangement which will extend up to 500m from the barge.

Site Update (Inner Gabbard Field and Galloper Field)
These site areas are considered to be active construction zones with significant sub-sea cable installation operations and vessel movements and all non construction traffic (fishing and recreational) are requested to remain outside the consented boundaries of the site due to:

- Free Laid Exposed Cables on the seabed exist within both arrays (Inner Gabbard Array and Galloper Array) in locations between turbine locations. The vessel, Deep Cygnus will be joining the project from the 6th November 2011 (weather depending) and will be trenching in inter array cables.
- Exposed cable ends exist on all Turbine locations/Transition pieces where array cabling has been installed (see attached chart denoting installed cabling). These exposed ends are located between the Turbine Locations and up to 150 metres from them. Many of these cables are now live.
- Trenching and Diving Operations
- The Sia, Topaz Commander & Deep Cygnus will be engaged in trenching inter-array cables within the Gabbard and Galloper fields. The OSV Relume will be working close to turbines in both fields performing diving operations.
- Construction vessel traffic for the array cabling programme and turbine installation for both fields is considerable and involves many support vessels including the primary vessels: Polar Prince, Topaz Commander, Deep Cygnus, Sia, OSV Relume and Sea Jacks Leviathan.

Please be advised of the cable crossing points below:
1. Concerto North Cable Crossing Point 52°11.723’N 001°40.876’E
2. Concerto South Cable Crossing Point 52°10.607’N 001°41.405’E
3. Farland Cable Crossing Point 52°05.084’N 001°46.746’E

All fishing operations are requested to observe an advisory safety zone of 500m around the cable crossing points above and fishing vessels should exercise caution when engaged in fishing operations near these locations and the cable route.

For further information, please contact: Danbrit Ship Management Ltd, Onshore mobile Simon Prince 07920 273866, Simon Calden 07825 382896.

Inner Dowsing Offshore Wind Farm – Maintenance (Update 07-12-2011)
Mariners are advised that maintenance work is continuing within the Inner Dowsing Offshore Wind Farm site. This Notice to Mariners details the location of the new Exclusion Zones, and also details which of the Exclusion Zones previously notified in relation to these works have been removed. This notification replaces the equivalent maintenance notification issued in August 2011 for the period from 3 September 2011.

Activity: Wind Turbine Maintenance Works: Planned start date: 17 December 2011 Approx. end date: 17 February 2012
Vessel Name: MS Wind

For further information, please contact: Alexandra Bowers, RPS Energy, Tel: +44 (0) 1483 746 500, Email: bowersa@rpsgroup.com.

Dogger Bank Creyke Beck Wind Farm – Consultation / Survey (New 21-11-2011)
Consultation
Forewind would like to invite those with an interest in the Dogger Bank Creyke Beck offshore wind farm development to attend community consultation events and provide their feedback on the proposals and site selection process to date. Members of the Forewind team will be available at the events to discuss the proposals.

The first round of public exhibitions on Dogger Bank Creyke Beck has been completed. For further information and to view consultation documents please visit www.forewind.co.uk or visit your local library. Comments must be received by Forewind by Friday 20th January 2012 to ensure that they are considered.

For further information, please contact: Nikki Smith, Forewind Ltd, Tel: +44(0)7818 597850, email: nikki.smith@forewind.co.uk
Navitus Bay Offshore Wind Farm – Survey Activity (New 09-12-2011)

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titan Environmental Surveys Ltd</td>
<td>A - Seabed frame, ground line, Clump weight and Surface Marker Buoy 50°33.197'N 01°43.144'W</td>
<td>1st November 2011</td>
</tr>
<tr>
<td></td>
<td>B - Seabed frame, ground line, Clump Weight, no Surface Buoy 50°30.989'N 01°44.170'W</td>
<td>1st November 2012</td>
</tr>
<tr>
<td></td>
<td>C - Seabed frame, ground line, Clump Weight, no Surface Buoy 50°28.421'N 01°45.823'W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D - Seabed frame, ground line, Clump weight and Surface Marker Buoy 50°26.020'N 01°48.594'W</td>
<td></td>
</tr>
</tbody>
</table>

For further information, please contact: Rob Millar, Titan Environmental Survey Ltd, Tel: +44(0)1656 673673
North Hoyle Offshore Wind Farm – Survey Activities (New 04-01-2012)

Please be advised that Osiris Projects will be carrying out marine survey operations in and around North Hoyle wind farm, situated off the North Wales coast.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWE SV Bibby Tethra Call Sign: 2EGF8</td>
<td>Wind Farm Site: 53°24.09’N 003°28.37’W Export Cable: 53°20.45’N 003°29.57’W</td>
<td>19th January 2012 For 2/3 days.</td>
</tr>
</tbody>
</table>

Rhyd Flats Offshore Wind Farm – Survey Activities (New 04-01-2012)

Please be advised that Osiris Projects will be carrying out marine survey operations in and around North Hoyle wind farm, situated off the North Wales coast.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWE SV Bibby Tethra Call Sign: 2EGF8</td>
<td>Wind Farm Site: 53°23.4186’N, 003°41.2247’W Export Cable: 53°22.274’N 003°39.023’W</td>
<td>16th January 2012 For 2/3 days.</td>
</tr>
<tr>
<td>RWE SV Bibby Tethra Call Sign: 2EGF8</td>
<td>Wind Farm Site: 53°22.9361’N, 003°39.2351’W Export Cable: 53°18.373’N 003°33.693’W</td>
<td>16th January 2012 For 2/3 days.</td>
</tr>
</tbody>
</table>

Irish Sea Offshore Wind Farm – Deployment of Buoys (Update 04-01-2012)

Metocean equipment is currently deployed at locations 1, 8, 12 & 13 in the Irish Sea Zone. All equipment is marked with surface marker buoys with compliant flashing lights.

The following activities will be occurring (Subject to weather):
  • Removal of ADP from Location 8 & 13.
  • Deploy ADPs at location 7 & 9.
  • Due to weather, Centrica has been unable to redeploy equipment to date..

Bird and marine mammal surveys are due to take place between the 15th and 21st of January 2012. The Prince Madog vessel will be used for this survey work.

Gwynt y Môr Offshore Wind Farm – Construction / Safety Zone (Update 03-01-2012)

Construction

The Gwynt y Môr Offshore Wind Farm Project is located between 15km to 20km off the coast of North Wales in the Liverpool Bay area of the Irish Sea. It is adjacent to RWE Innogy’s North Hoyle and Rhyd Flats offshore wind farms. The consented site covers an area of 124km2. The water depth ranges from 12m to 26m LAT with a tidal range of 8.5m.

The Gwynt y Môr Offshore Wind Farm Project comprises an array of 160 WTGs, supported on foundations, and connected to offshore substation platforms by subsea array cables. The offshore substation platforms are connected via a 20km offshore export cable route to landfall and a 12km onshore export cable route to an onshore substation at St Asaph in North Wales.

Continued over page...
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where the Project will be connected to the National Grid at 400kV. The first stage WTG foundations will cover 92 locations with a maximum water depth of 21m LAT. The second stage of WTG foundations will cover 68 locations with a maximum water depth of 28m LAT.

**Scour Protection Works**

Please be advised that Scour Protection Works is now expected to commence on or around the 15th January 2012. The works are expected to take approx 10 days. Due to uncertainty in the actual commencement date, this notice will remain in force until 31st January 2012. A further update will be given then or upon completion.

The works will be carried out by the “DP Fall Pipe Vessel – Tideway Rollingstone”. The vessel will be operating at 11 locations within the Gwynt y Mor Offshore Wind Farm placing filter layer stones in the respective locations. The vessel will be operated under Dynamic Positioning and all other traffic is advised to keep at least 500m clear of Tideway Rollingstone. VHF 16 will be monitored at all times.

**Wind Farm Perimeter**

Please be advised that the demarcation of the Gwynt y Mor Offshore Wind Farm has been completed. There are 9 navigation buoys installed by the Trinity House Vessel “Galatea”. All coordinates are below. At the same time, Galatea removed the “North Hoyle” North Cardinal Buoy from position 53°26.70’N 003°37.080W.

1) GYM S  Red Can  Fl R 2.5s   53°24.900’N 003°37.080W
2) GYM SW Special Mark Fl Y 2.5s   53°25.870N 003°39.600W
3) GYM W West Cardinal VQ(9) 10s   53°26.832N 003°42.129W
4) GYM NW West Cardinal Q(9) 15s   53°28.303N 003°40.772W
5) GYM NWW North Cardinal Q   53°29.870N 003°36.857W
6) GYM N North Cardinal VQ   53°29.735N 003°31.710W
7) GYM NE Special Mark Fl Y 2.5s   53°28.390N 003°29.340W
8) GYM E East Cardinal VQ(3) 5s   53°27.130N 003°27.078W
9) GYM SE Special Mark Fl Y 2.5s   53°26.015’N 003°32.080W

**Safety Zones**

An application for safety zone scheme during construction, major maintenance, decommissioning periods has been sought for the Gwynt Y Môr Offshore Wind Farm.

Consent from the Secretary of State for Energy and Climate Change as set out in the Energy Act 2004 and the Electricity Regulations 2007 for a Safety Zone scheme to be placed around structures during the construction, major maintenance, decommissioning periods of the previously consented offshore renewable energy installation known as Gwynt Y Môr.

A copy of the Safety Zone scheme explaining the company’s proposal in more details available upon request using the following methods: Tel: 01793 474288, Email: gemma.couzens@rwe.com, Postal Address: Auckland House, Lydiard Fields, Great Western Way, Swindon, SN5 8ZT.

Any person wishing to make representation to the Secretary of State about the application should do so in writing to the Secretary of State, Department for Energy and Climate Change, c/o the offshore renewables main box: offshore.renewables@dtecc.gsi.gov.uk or to the ORCU, Area A, 3rd Floor, 2 Whitehall Place, London SW1A 2HD stating the name of the proposal and nature of their representation not later than 31st January 2012.

For further information, please contact: Lee Cornwell, RWE npower renewables, Mob: +44 (0) 7557 319473, Email: leecornwell@rwe.com

**Walney 1 & 2 Offshore Wind Farms – Construction Activity (Update 23-12-2011)**

**Walney 1**

All 51 turbines in the Walney phase 1 have been erected, all cables buried and most scour protection around turbines has been completed. Two Dive Support Vessels ‘HBC PERFORMER’ and ‘HBC SUPPORTER’ are on site and carrying out DIVING and other operations at installed positions as required and when weather permits.

Further Rock Dumping will be carried out at selected Turbine positions during January by the Rock Dump Vessel ‘ROLLING STONE’.

**Walney 2**

The Sub-Station as well as all 51 Wind Turbine Generators (WTGs) are installed. Each Turbine, as well as the Sub-Station, is fitted with...
...continued from previous page

a solar powered temporary light Fl Y 2.5s (visibility approx. 2ml.) and these will remain in position until the Wind Farm is fully commissioned.

**Export Cable Survey**
The survey vessel ‘COASTAL ENTERPRISE’ has completed the remaining part of the survey of the Walney 2 Export Cable. ‘COASTAL ENTERPRISE’ is now carrying out the Geotechnical Survey along the Export Cable Route for the West of Duddon Sands Wind Farm as and when weather permits.

**Infield Or Inter-Array Cables**
SWIBER ELSE-MARIE will continue with the burial of the INFIELD or INTER-ARRAY CABLES as well as surveying the Mattress Lay at the BT Telephone Cable crossings as weather and conditions allow. It should be noted that there will be EXPOSED CABLE on the seabed between the Turbine positions within the Wind Farm perimeter from now until you have been informed that all the cables have been safely buried.

**Site Boundary for Walney 2:**

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1. 54° 04.92’ N  3° 32.15’ W
2. 54° 02.23’ N  3° 34.12’ W
3. 54° 03.67’ N  3° 39.71’ W
4. 54° 06.23’ N  3° 39.74’ W
5. 54° 07.89’ N  3° 37.85’ W
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If any fishermen have any gear down on or close to the export cable route as indicated on the flyer you are advised to move it now – please contact me if you are in any doubt.

For a copy of the Kingfisher Awareness Flyers for the Walney Offshore Wind Farms, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

![Kingfisher Awareness Flyer: Walney 2 Offshore Wind Farm](https://www.kingfishercharts.org)

![Kingfisher Awareness Flyer: Walney 1 Offshore Wind Farm](https://www.kingfishercharts.org)

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

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**West of Duddon Sands Offshore Wind Farm – Survey Activity (Update 22-12-2011)**
The survey vessel ‘COASTAL ENTERPRISE’ has now completed the Walney 2 Export Cable Survey and will now carry out the Geotechnical Site Investigation of the Export Cable Routes for the proposed West of Duddon Sands Wind Farm (WoDS)as and when weather permitting.

The (WoDS) survey is expected to last for approx. 4 weeks, again depending on weather, and will involve seabed samplings, PCPT and Vibrocoring, at 30 or more locations along the 4 alternative Export Cable Routes.

While sampling the vessel will be required to remain stationary for periods of 1-2 hours and it is requested that all passing vessels, or other vessels working in the area, keep a wide berth and if possible reduce speed when passing.

During survey ‘COASTAL ENTERPRISE’ will operate from Barrow or Heysham and will keep a listening watch on VHF Channels 16 & 12 as well as monitoring VHF Channel 14 and can be contacted for information relating to vessel movements only.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

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**Ormonde Offshore Wind Farm – Construction Activities (Update 20-12-2011)**
All mariners should note that although the continuing poor weather is causing delays and disruption to all work and sailing schedules this is still a construction site and unless you have specific business or that circumstances relating to your safety make it necessary to transit the site you are advised to keep well clear and keep outside of the buoyed area until the Wind Farm is fully constructed and commissioned and you have been notified.

**Construction**
All 30 Turbines including Tower Sections, Nacelles and Blades have now been installed. Each erected Turbine, as well as the Sub-Station, is fitted with a solar powered temporary light Fl Y 2.5s (visibility approx. 2ml.) and these lights will remain in position until the Wind Farm is fully commissioned.

Most of these Turbines have now been energised with several producing electricity to the National Grid, progress is being

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severely hampered by the poor weather and conditions but whenever possible (dependant on weather) small vessels will engaged in a variety of tasks inside the Wind Farm including the transfer of technicians to work on energizing the remaining Turbines, installation of the cable into the J-Tubes and cable burial. These operations will continue over the Christmas and New Year period whenever the weather and conditions permit and will at times involve DIVERS, and there will continue to be a constant movement of traffic between the Wind Farm and Barrow until all the Turbines have been energized and all the cables have been buried and the Wind Farm is fully commissioned.

Export Cable Installation
It should be noted that there is the possibility of EXPOSED CABLE on the seabed between the Turbine positions within the Wind Farm perimeter until you have been officially informed that all the cables have been safely connected and buried.

Export Cable – Advisory Anchor Exclusion Zone
All mariners should note that there is an advisory anchor exclusion zone that extends for 200 meters either side of the laid export power cable and you are requested to avoid anchoring in this area, this also includes anchors that are attached to static fishing gear. All vessels working at this Wind Farm site can be contacted on VHF Channels 16 & 12 for information relating to vessel movements only.

For a copy of the Kingfisher Awareness Flyer for the Ormonde Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: Ormonde Offshore Wind Farm
For further information, please contact: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

Robin Rigg Offshore Wind Farm – Hazard / Plotter Files / Operations (Update 19-12-2011)
An anchor has been lost within the Wind Farm at position: 54°44.52’N 003°42.84’W. Several unsuccessful attempts have been made to retrieve this anchor and therefore it is likely that it will remain at this position for some time. It will be charted during the Bathymetric Survey for the exact position but fishermen are requested to note the above position, mark it on their charts / plotters and keep clear.

Bathymetric Survey
The continuing poor weather has caused this survey to be further delayed. The small survey vessel ‘FREJA’ will now remain in Workington over the Christmas and New Year period and start the survey at the first available opportunity in January.

This survey is expected to last for a period of approx. 10 days (depending on weather) and is not expected to interfere with any other vessel but as highly sensitive sonar and multi beam echo sounder devices will be in operation all mariners are requested to give a wide berth to ‘FREJA’ when on site and if possible reduce speed when passing.

Diver Assisted Survey
The survey / maintenance programme that was being carried out by the DIVE SUPPORT vessel ‘TERRAMARE 1’ has now completed and ‘TERRAMARE’ has de-mobilised from this project.

All of the Turbines are operational and switched to automatic.

A CD of the Robin Rigg layout including Inter-Array or Infield Cables as well as the Export Cable Route is now available. The disk contains fishing plotter files and is compatible with the following plotters: Litton Fish master, Sodena Turbo, Maxsea, TRAX, Transas Navi-Fish, SIS Microplot, Quodfish, TM Planner and Penta plotters.

If anybody else feels that they would like a copy or if they know of anybody who would require a copy please contact me. The data is also available for download from the Kingfisher Website with a link below.

For a copy of the Kingfisher Awareness Flyer for the Robin Rigg Offshore Wind Farm or Fishing Plotter CD, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: Robin Rigg Offshore Wind Farm
Kingfisher Fishing Plotter CD: Robin Rigg Offshore Wind Farm
For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

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Barrow Offshore Wind Farm – Operations (Update 22-11-2011)

All of the Turbines Barrow Offshore Wind Farm are operational and switched to automatic. The only vessels engaged on any work inside the Wind Farm at this time are small service vessels operating as and when required, depending on weather. Any vessel engaged on any kind of work at this Wind Farm can be contacted on VHF Channels 16 & 12 for information relating to vessel movements only.

If any fishermen have pots set, or are considering setting any pots, within the Wind Farm Perimeter they are advised to make sure that their gear is properly marked and weighted and is clear of any of the Turbines. They are advised to lay their gear up and down the lanes rather than across the Inter-Array or Infield Cables and are advised to use weights rather than anchors.

Any gear found to be inside the 50 meter Advisory Safety Zone will be moved to the shore by the service craft in order to stop it fouling on the J-Tubes or on the underwater fittings of the Turbine. Please contact me with the position of the gear so that I can pass this on to the service craft and they can monitor it and also keep clear of it when carrying out their maintenance routines.

PLEASE NOTE THESE POSITIONS OF EXPOSED EXPORT CABLE AND MARK THEM ON YOUR CHARTS

<table>
<thead>
<tr>
<th>HEYSHAM LAKE / LUNE DEEP AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>53°58.60’N  003°01.00’W</td>
</tr>
<tr>
<td>53°58.30’N  003°02.80’W</td>
</tr>
<tr>
<td>53°57.90’N  003°04.80’W</td>
</tr>
<tr>
<td>53°57.70’N  003°06.40’W</td>
</tr>
</tbody>
</table>

In the interests of safety mariners are requested not to anchor within at least 500 meters of the wind farm perimeter and, because there is a danger of exposed power cable on the seabed close to some of the turbine structures, fishermen are requested to observe the agreed extended safety zone of 100 meters around each turbine and the need to exercise extreme caution when operating in the vicinity of any of the wind farm turbines.

Deployment – Waverider Buoys / Guard Buoys (New 07-11-2011)

Please be advised that Partrac will deploy Waverider Buoys/ guard buoys at the locations below between 01/12/11.

Deployment Position 1: 55°45.725’N 006°43.194’W
Deployment Position 2: 55°50.657’N 006°41.371’W
Deployment Position 3: 55°46.573’N 006°51.379’W

Guard Buoy 1: 55°45.847’N 006°43.352’W
Guard Buoy 2: 55°50.787’N 006°41.528’W
Guard Buoy 3: 55°46.706’N 006°51.529’W

The vessel Margaret Sinclair will be used. The Waverider buoys are 0.9 m in diameter and bright yellow in colour. They will transmit a light sequence as FI Y (5) 20s from a 2m whip antenna and are each moored using a single point compliant mooring with a scope of up to 200m. The guard buoys are 1.5 m in diameter, 3 m high, yellow, with a St Andrews cross topmark and transmit a light sequence Fl (5) Y 20s.

Burbo Bank Offshore Wind Farm – Maintenance / Survey Activity (Update 15-08-2011)

All of the Turbines at the Burbo Bank Wind Farm are operational and switched over to automatic. Small service vessels will be engaged on routine maintenance within the Wind Farm as and when required.

If anybody requires a copy of the Kingfisher 'Flyer' which shows the Wind Farm position, Turbine locations, Export and Infield or Inter-Array cable routes and Cardinal Buoy positions please contact me.

A minimum 50 meter Advisory Safety Exclusion Zone is requested around each Turbine at all times, but all mariners are requested to keep well clear of the Wind Farm Site during any period when they can see that maintenance work is being carried out.

In the interests of safety mariners are requested not to anchor within at least 500 meters of the wind farm perimeter and because there is a danger of exposed power cable on the seabed close to some of the turbine structures fishermen are requested to observe the advisory safety zone of 50 meters around each turbine and the need to exercise extreme caution when operating in the vicinity of any of the wind farm turbines.

If any fishermen are considering setting any pots within the Wind Farm Perimeter they are advised to make sure that their gear is properly marked and weighted and is clear of any of the Turbines. They are advised to lay their gear up and down the lanes rather than across the Inter-Array or Infield Cables and are advised to use weights rather than anchors.

For further information, please contact: Judy McKay, Partrac Ltd, Tel: +44(0)141 552 3903 , email: jmckay@partrac.com