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
Deployment of Buoy – Moray Offshore Renewables (Update 25-10-2011)

The Waverider which was deployed by Partrac Ltd will remain in place for a further 12 months.

Co-ordinates: 58°09.948’N 02°38.052’W

The Waverider is 0.9m in diameter and a bright yellow in colour. It transmits a light sequence as Fl Y (5)20s from its antenna and is moored using a single point compliant mooring with a scope of about 150m.

For further information, please contact: Judy McKay, Partrac Ltd, Tel +44(0)141 552 3903 email: JMcKay@Partrac.com
### European Offshore Wind Deployment – Survey Activities (New 06-12-2011)

<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>SMRU Ltd Eileen May Call Sign:</td>
<td>100m 5m</td>
<td>57° 24.583' N 001° 51.999' W Shore 57° 23.540' N 001° 47.427' W 57° 15.195' N 001° 55.747' W 57° 15.216' N 001° 38.590' W 57° 12.008' N 001° 38.576' W 57° 11.987' N 001° 56.797' W 57° 01.439' N 002° 01.767' W 57° 02.364' N 002° 07.598' W Shore</td>
<td>8th December 2011 – 31st December 2011</td>
</tr>
</tbody>
</table>

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

### Firth of Forth Offshore Wind Round 3 – Survey Activities (New 08-11-2011)

<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>Partrac Ltd Vessel: Princess Royal Call Sign:</td>
<td></td>
<td>1. 56°31.69'N 002°34.16'W 2. 56°58.33'N 002°21.31'W</td>
<td>19th November – 19th May 2012</td>
</tr>
</tbody>
</table>

For further information, please contact: Peter Wilson, Partrac Ltd, Tel:+44(0)141 552 3903 email:pwilson@partrac.com

### Inch Cape Offshore Wind Farm – Sampling Survey Activities (New 13-09-2011)

The survey area is located at Inch Cape in the outer Firth of Tay region. The site is located approximately 15 -22 km to the east of the Angus coast in Scotland. The geotechnical site investigation being conducted at this stage will consist of three boreholes.


SRV Bavenit (call sign UAIO) an 86m dynamically-positioned survey vessel, will be conducting three geotechnical boreholes. She will mobilise from Montrose on about September 15th.

For further information, please contact: SRV Bavenit, Tel: +47 51 406 100, Sat Phone: +873 32 73 33 610, Email:master@bavenit.com
Hornsea Offshore Wind Farm – Survey Activities (Update 07-12-2011)

**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. All of the AWAC profilers have now been recovered. A clearance distance of 200m is kept to allow for safe passage. 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.

The AWAC profiler from Well Bank Flat (location 1) has now been recovered and the remaining met buoy serviced. The met buoy at Inner Well Bank Rough (location 2) has also been serviced and the decommissioning of the meteorological buoy at Off Ground (location 5).

<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>5</td>
<td>Off Ground</td>
<td>Met. buoy</td>
<td>53° 52.540’N</td>
<td>0° 47.880’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 200 m of cable towed at ~7 m depth or less, during daylight hours only.

A local commercial fishing vessel will be conducting a potting survey at three sites within the cable route corridor in November. During bad weather the vessel will return to Grimsby. The vessel will have a Fisheries Liaison officer onboard throughout the survey operations. The survey areas will be: west of Silver Pit; north-east of Sole Pit; and within the six nm limit off Horseshoe Point.

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 mid December, the vessel to be used for the works is TBA.

| Met Mast Location | 53°53.149’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

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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.
Lincs Offshore Wind Farm – Construction Activity & Survey (Update 05-12-2011)

Cable Installation

Mariners are advised to note that construction works within the Lincs site are fully underway, with the first 39 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 these foundation structures during drilling / 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.

Deployment of new Aids to Navigation to mark the boundary of new Anchorages in the Inner Wash via the Trinity House Buoy Laying Vessel, Patricia. These anchorages have been re-designated to maintain a minimum of 500m distance between anchorage areas and the Lincs export cable once installed. The buoys will be yellow special marks, with high visibility daymarks and a yellow St Andrews Cross topmark. Positions are listed below.


Mariners are advised to note that construction works within the Lincs site are fully underway, with the first 27 foundations and transition pieces installed (see locations below). 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.

50m Safety Zones


500m Safety Zones

Substation, LS71, LS72, LS06.

Coordinates of Operations

The position and type of these buoys is shown below:

1. East Cardinal (VQ (3) 5s) - 53°07.540’N 00°29.790’E
2. East Cardinal (VQ (3) 5s) - 53°09.070’N 00°31.490’E
3. Special Mark (FI Y 2.5s) - 53°10.970’N 00°31.500’E
4. East Cardinal (VQ (3) 5s) - 53°12.440’N 00°31.460’E
5. Special Mark (FI Y 2.5s) - 53°13.800’N 00°30.940’E
7. West Cardinal (VQ (9) 10s) - 53°14.670’N 00°27.020’E
8. West Cardinal (VQ (9) 10s) - 53°09.450’N 00°28.050’E

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

Kingfisher Awareness Flyer: Lincs Offshore Wind Farm

For further information, please contact: Email: Renewables@Centrica.com OR a Fisheries Liaison Officer (FLO) will be aboard the survey vessel for the duration of the proposed works – Mob: 07831705192.

London Array Offshore Wind Farm – Pre-Construction Works (Update 04-12-2011)

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 consist 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 25m. 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 50m radius around all major maintenance works of wind farm structures.

Work Schedule

Foundation installation vessel MPI Adventure will load and install foundations at D10 and C10. Whilst construction is taking

Continued over page...
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place at these positions a 500m safety zone is established, and vessels are to keep clear.

The Wind Turbine installation barge Sea Worker is presently mobilising in the port of Esbjerg, and is scheduled to arrive in Harwich at the end of week 49. The WTG installation sequence to be confirmed.

The array cable installation vessel ‘Jan Steen’ on site to complete burial of cable 58 (SS1 to E19). Further cable installation sequence #59 (E19 to F20). The Jan Steen shall be supported by the vessel MCS Alisa plus crew-boats. The array cable installation vessel ‘Atlantis’ will commence installation of array cables, sequence yet to be determined. The Atlantis will be supported by the vessel ‘MCS Anneke’ plus crew-boats. The Array cable installation vessel CS Sovereign, is presently loading cable in Sunderland, on completion she will undertake a trial cable installation, then commence array cable installation, sequence to be determined.

Export cable installation vessel Stemat Spirit has commenced laying the export cable from the Eastern Swale towards offshore Substation #1 and will complete the installation at the beginning of this week. Whilst engaged in cable laying operations The Stemat Spirit will operate a 6 anchor pattern, and a 500m safety zone is established, and vessels are to keep clear. The Stemat Spirit will be assisted by the vessels Yvonne W and the Coastal Vanguard. At the cable crossings of the Kentish Flats Wind farm and the Britned cables, the cable has been surface laid. Stemat Spirit is expected to reach the offshore substation December 5th.

The two Cable crossings between the London Array export cable and the Kentish Flats export cable and the Britnet cable are guarded by guard vessel “Our Pride” The Cable crossings will be rock dumped by rock dumping vessel Ham 601. This operation is expected to commence in the week to come.

The vessel Wiltango and will continue operations in the intertidal zone of the Swale Channel Other vessels operating in the Swale channel will be the ‘Coastal Explorer’, and ‘Sara Maatje VI’. The Dive support vessel OMS Pollux is standing by in Chatham for future site diving operations. Construction site guard vessel duties will be covered by the Mary Ann 1.

Installations
        Foundation monopiles and transition pieces installed as listed below (Please view the Kingfisher Flyer for installation coordinates):

Sub station 1 & Sub station 2
K17, G20, E15, C14, D19, B17, C19, I17, L20, M20, I18, H18, H17, G14, G15, H16.
C17, F18, G19, F16, H15, L17, H20, D14, A13, M18, B13, E18, D15, B15.

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) - 51º36.960’N 01º30.310’E (Fl (5) Y 20s 2nm) | Knock Deep (South) - 51º35.000’N 01º29.930’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

Sheringham Shoal – Installation, Survey, Deployment of Buoys (Update 30-11-2011)

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

Continued over page...
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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°07.686’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)

Turbine on location J2 – 53°08.633’N 001°10.550’E
Turbine on location I7 – 53°06.600’N 001°11.367’E

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 vessel’s crane, when the vessel is fully jacked out of the water.

The operation will start from 1st September 2011 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.

For further information, please contact: HLV Oleg Strashnov, Tel +870 7650550118, Email: OS-Bridge@SHL.com.cy

Humber Gateway Offshore Wind Farm – Geotechnical Survey (Update 11-11-2011)

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.

Existing offshore site investigation works to acquire geotechnical information for the design of the wind turbine foundations are in the process of being carried out by GeoSea on their self-elevating platform ‘Vagrant’ which is supported by an anchor handling tug ‘Dutch Pearl’ and by the survey vessel Flatholm. Details of these work-scales were detailed in the Kingfisher Bulletins Issues 16-21/2011.

The geotechnical surveys will be undertaken within the following boundary, in water depths ranging from 14 to 21m LAT:

1. 53°40.107’N 000°14.809’E
2. 53°41.035’N 000°19.978’E
3. 53°38.021’N 000°19.882’E
4. 53°35.830’N 000°16.893’E
5. 53°35.280’N 000°16.197’E
6. 53°36.784’N 000°16.277’E

The base-case field works will comprise 15 No. cone penetration tests to 35m below seabed. In addition to the base case work scope there may be a requirement to carry out additional cone penetration tests and sampling boreholes to depths up to 50m below seabed level.

For further information, please contact: Michael Cowie, Canyon Offshore Tel: +44 1224 351978.

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 will be held in various locations in the East Riding of Yorkshire from 5th to 10th December 2011. 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
<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>—</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>1st November 2012</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
Rhyl Offshore Wind Farm – Development Area (New 06-12-2011)
Centrica Energy Upstream are returning to their Rhyl Development area to perform one geotechnical borehole over each of their Rhyl and Whitehaven well locations:

113/27b-K Whitehaven  54° 03.635 'N 003° 42.330 'W
113/27b-L Rhyl Development  54° 04.455 'N 003° 40.482 'W

The survey vessel is Gardline’s M/V ‘OCEAN DISCOVERY’ (spec sheet attached). She is currently expected to mobilise in Aberdeen on Wednesday 7th December with an ETA in the EIS of Saturday 10th Dec.

The boreholes are required to establish soil conditions for jack-up drilling rig emplacement at the planned well locations. The ‘OCEAN DISCOVERY’ will not be required to be within, or near the boundary of the Walney 1&2 Wind Farm.

Unlike the previous survey, where the vessel was sailing up and down run lines with towed equipment, this geotechnical vessel will be stationed over the well locations (by DP1 and 4 point mooring, length~200m).

‘OCEAN DISCOVERY’ will maintain a listening watch on VHF Channels 16 and 12, there will be two client representatives onboard and they can be contacted for information relating to the vessels movements only.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173 624

Irish Sea Offshore Wind Farm – Deployment of Buoys (Update 06-12-2011)
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 as per the recent NTM for November.

1.  53°39.596'N 004°52.976'W
2.  53°37.040'N 004°03.040'W
3.  53°38.787'N 004°11.390'W
4.  53°44.600'N 004°08.600'W
5.  53°49.735'N 004°08.061'W
6.  53°53.166'N 004°04.786'W
7.  53°30.506'N 004°52.976'W
8.  53°37.040'N 004°11.390'W
9.  53°44.600'N 004°08.600'W
10. 53°49.735'N 004°08.061'W
11. 53°53.166'N 004°04.786'W
12. 53°44.600'N 004°08.600'W
13. 53°49.735'N 004°08.061'W
14. 53°53.166'N 004°04.786'W
15. 53°44.600'N 004°08.600'W
16. 53°49.735'N 004°08.061'W
17. 53°53.166'N 004°04.786'W
18. 53°44.600'N 004°08.600'W
19. 53°49.735'N 004°08.061'W
20. 53°53.166'N 004°04.786'W

For further information, please contact: Simon Calden: 07825 382896 or Simon Prince: 07920 273866

Ormonde Offshore Wind Farm – Construction Activities (Update 04-12-2011)
All mariners should note that this is 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 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 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
The Cable Lay Barge ‘PONTRA MARIS’ accompanied by the AHTs ‘CLAUDIA B’ and ‘NEPTUNE MARINER’ are engaged in burial work on the Inter-Array or Infield Cables and it should be noted that there will be EXPOSED CABLE on the seabed between the Turbine positions within the Wind Farm perimeter until you have been informed that all the cables have been safely connected and buried

Continued over page...
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

Walney 1 & 2 Offshore Wind Farms – Construction Activity (Update 04-12-2011)

Walney Extension
Several ‘Community Consultation Events’ are planned at the times and venues listed below and you are advised to attend if you feel that there are any issues concerning this development that might affect you. These events will provide an opportunity to discuss the project plans and timescales.

If you require any further details about the project please go to www.walneyextension.com or email the team on walneyextension@dongenergy.co.uk

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. The remaining scour protection for Walney 1, and scour protection around Walney 2 turbines, will be commenced mid January, using Tideway Rollingstone operating from Barrow.

The crew boats Wind Transporter, Wind Transfer, ECC Topaz, EMS Vulcan, ECC Opal, Wildcat 1, Colwyn Bay, Llandudno Bay, Gardian 3, Gaillion, Vanishing Point, Windcat 4, and Waterfall make trips for personnel transfers as required from Barrow. Cathrin is used on an occasional basis. Styrbjoern has now left the project. Offshore Phantom supports turbine cable connection teams working out of Whitehaven and Eviva supports turbine cable connection teams working from Barrow. Offshore Phantom may relocate to Barrow soon. 2 Dive support vessels the HBC Performer and HBC Supporter are working out of Barrow assisting in the farm where required.

Walney 2
Operations in general have been hampered by the deep lows tracking north of the UK. This tendency seems to continue this week with continuous Westerly gales, causing delays to the operations.

Cable operations:
The export cable is now fully trenched, and inter-array cables are all laid. Stemat 82 has completed her work scope, and will depart Barrow once weather moderates. Swiber Else-Marie is tasked to trench the array cables as required. She currently has 11 array cables left to bury and will continue as weather permits. Multicat MPR 3 is assisting Tekmar activation and cable operations in farm working from Barrow and will continue when weather permits.

Guard Vessel Sanrene is on station at Walney 2 farm announcing safety related information, apart from when she is sheltering in Barrow in extreme weather (as at present). Survey vessel M/S Line continues surveying the export cables working from Barrow as weather permits.

Wilendeavour has now left the project. There is some remaining survey at Walney 2 and also a survey for West of Duddon Sands Cable Route still to be completed and that will be completed by the larger multicat Coastal Enterprise once present weather moderates

Site Boundary for Walney 2:

<table>
<thead>
<tr>
<th>Area 1</th>
<th>Area 2</th>
<th>Area 3</th>
<th>Area 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 54° 04.92' N 3° 32.15' W</td>
<td>2. 54° 02.23' N 3° 34.12' W</td>
<td>3. 54° 03.67' N 3° 39.71' W</td>
<td>4. 54° 06.23' N 3° 39.74' W</td>
</tr>
</tbody>
</table>

Export Cable Burial
The multicat survey vessel ‘WILLENDEAVOUR’ is continuing with the GEOTECHNICAL SITE INVESTIGATION of the EXPORT CABLE ROUTE for the WALNEY 2 OFFSHORE WIND FARM. The poor weather and conditions caused serious delays but this survey
...continued from previous page

will end shortly. This survey involves seabed samplings along the EXPORT CABLE ROUTE and while sampling the vessel will be required to remain stationary for periods of 1-2 hours, therefore 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 ‘WILLENDEAVOUR’ will operate on a 12hr. basis and will keep a listening watch on VHF Channels 16 & 12 and can be contacted for information relating to vessel movements only.

1) Walney 1 Export Cable: 53°57.40'N 003°17.00'W to 54°00.30'N 003°16.50'W
2) Walney 1 Export Cable: 54°01.20'N 003°22.20'W to 54°01.50'N 003°22.20'W
3) Walney 2 Export Cable: 53°58.30'N 003°18.60'W to 54°01.10'N 003°24.50'W

The two Guard boats ‘Isadale’ and Headway’ will remain on site until 30th September.

Infield Or Inter-Array Cables
STEMAT 82’ and support tugs ‘NEPTUNE MARINER’ and ‘NOVA K’ are continuing with laying the Infield Cables as well as laying Mattresses at the BT cable crossing where required. 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.

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

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Kingfisher Awareness Flyer: Walney 2 Offshore Wind Farm
Kingfisher Awareness Flyer: Walney 1 Offshore Wind Farm

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

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Robin Rigg Offshore Wind Farm – Plotter Files & Operations (Update 02-12-2011)

In the interests of safety, mariners are requested not to anchor within at least 500 meters of the wind farm perimeter 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 at least 50 meters around each turbine and the need to exercise extreme caution when operating in the vicinity of any of the wind farm turbines. All mariners should be aware that there is mandatory anchor exclusion zone that extends for 200 meters either side of the laid export power cable and this includes anchors that are attached to static fishing gear.

A Bathymetric survey is scheduled start on Thursday 8th December and will be carried out by the small survey vessel ‘FREJA’ for a period of approx. 8 days. This survey 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 current survey / maintenance programme being carried out by the DIVE SUPPORT vessel ‘TERRAMARE 1’ is continuing, as weather permits. Fishermen are requested not to set any gear in the vicinity where they can see ‘TERRAMARE 1’ working.

Prior to Diving operations ‘TERRAMARE 1’ will issue a ‘SECURITE’ message on VHF Channel 16 and the vessels can be contacted for information regarding vessel movement only on VHF Channels 16 &14.

All of the Turbines, except where ‘TERRAMARE 1’ is working will be operational and switched to automatic. The only other activity inside the Wind Farm is by small service craft on routine maintenance.

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.

Continued over page...
West of Duddon Sands Offshore Wind Farm – Survey Activity (Update 02-12-2011)

This survey which will now be carried out by the larger vessel ‘Coastal Enterprise’ and is expected to last for approx. 4 weeks (depending on weather) and will involve seabed samplings, PCPT and Vibrocores, at 30 or more locations along the 4 alternative EXPORT CABLE ROUTES as defined on the attached chartlet.

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 on a 12hr. basis and will keep a listening watch on VHF Channels 16 & 12 and can be contacted for information relating to vessel movements only. PLEASE NOTE – ‘Coastal Enterprise’ is currently engaged on the WALNEY 2 EXPORT CABLE SURVEY and being delayed by weather, I will issue a further notice once that work is finished and this survey is due to start.

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

Gwynt y Môr Offshore Wind Farm – Construction / Safety Zone (Update 22-11-2011)

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 Rhyl Flats offshore wind farms. The consented site covers an area of 124km². The water depth ranges from 12m to 28m LAT with a tidal range of 8.5m.

The Gwynt y Môr Offshore Wind Farm Project comprises an array of WTGs, supported on foundations, and connected to offshore substations by subsea array cables. The offshore substations 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 where the Project will be connected to the National Grid at 400kV.

The site will be made up of 160 WTGs, each with a rated capacity of 3.6MW and a rotor diameter of 107m. The turbine hub height will be 84.4m LAT and the tip height 137.9m LAT. The first stage of WTG foundations will be steel monopiles up to 6m diameter. The first stage WTG foundations will cover 92 locations with a maximum water depth of 21m LAT. The second stage WTG foundations will cover 68 locations with a maximum water depth of 28m LAT. The concept for the second stage WTG foundations has not yet been fixed, however, the base case assumes steel monopiles. Transition pieces (TPs) will be used to connect the WTG tower to the foundation by means of a grouted joint or a flanged connection.

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°30.60’W.

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.

Continued over page...
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: 01753 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@decc.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: lee.cornwell@rwe.com

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

**HEYSHAM LAKE / LUNE DEEP AREA**

<table>
<thead>
<tr>
<th>Positions</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deployment Position 1</td>
<td>53°58.00‘N 003°01.00‘W</td>
</tr>
<tr>
<td>Guard Buoy 1</td>
<td>53°57.90‘N 003°04.80‘W</td>
</tr>
<tr>
<td>Deployment Position 2</td>
<td>53°58.30‘N 003°02.80‘W</td>
</tr>
<tr>
<td>Guard Buoy 2</td>
<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.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

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.

<table>
<thead>
<tr>
<th>Positions</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deployment Position 1</td>
<td>55°45.725’N 006°43.194‘W</td>
</tr>
<tr>
<td>Deployment Position 2</td>
<td>55°50.657’N 006°41.371‘W</td>
</tr>
<tr>
<td>Deployment Position 3</td>
<td>55°46.573’N 006°51.379‘W</td>
</tr>
<tr>
<td>Guard Buoy 1</td>
<td>55°45.847’N 006°43.352‘W</td>
</tr>
<tr>
<td>Guard Buoy 2</td>
<td>55°50.787’N 006°41.528‘W</td>
</tr>
<tr>
<td>Guard Buoy 3</td>
<td>55°46.706’N 006°51.529‘W</td>
</tr>
</tbody>
</table>

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 FI (5) Y 20s.

For further information, please contact: Judy McKay, Partrac Ltd, Tel: +44(0)141 552 3903, Email: jmckay@partrac.com
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: Tom Watson, Tel: 01253 875565, Mobile: 07903 173 624