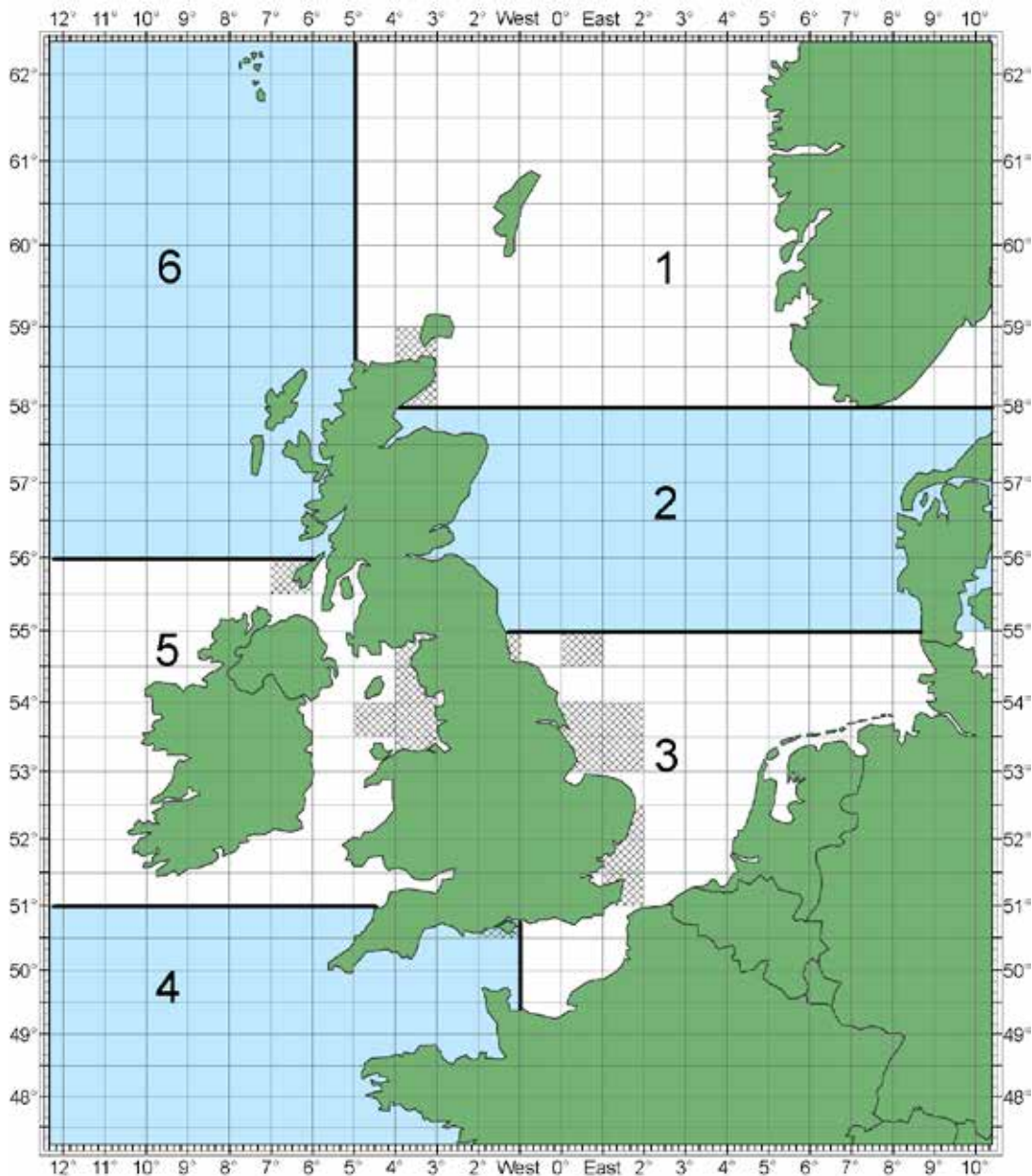




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This Bulletin, along with previous issues, can be viewed at: www.kingfishercharts.org, or you can register for an email alert by contacting: kingfisher@seafish.co.uk

All co-ordinates listed in this Bulletin refer to WGS84 datum



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Area 1

First Published: 24 October 2012 | **Latest New: 24 October 2012**

West of St. Ninian's Isle – Scientific Deployment

Aegir Wave Power has redeployed a waverider buoy around 4km off the coast of St. Ninian's Isle, southwest Shetland.

The buoy is yellow, 0.7m in diameter and fitted with a yellow flashing light. The buoy is moored by a slack line with underwater floats with allows the buoy to move around a 200m watch circle. Mariners are asked to keep a distance from the buoy. 59°58.560'N 001° 26.500'W



The buoy will remain onsite for between 1-3 years. NAFC Marine Centre will monitor and maintain the buoy while it's onsite.

For further information, please contact: R.Hart, Aegir Wave Power, Tel: 0131 5612555, Email: enquiries@aegirwave.com

First Published: 27 June 2012 | **Latest Update: 22 October 2012**

Cantick Head (Orkney) – Waverider Deployments

Partrac recovered three bottom-mounted ADCPs (BMADCPs) frames. Site ST015 frame is still in place. There is no surface marker at these location.

Station	Latitude	Longitude	Type
ST015	58° 45.672 'N	003° 14.685 'W	Recovery Planned 23/10/12
ST018	58° 45.333 'N	003° 13.751 'W	Not Yet Deployment
ST019	58° 45.278 'N	003° 14.517 'W	Recovered 30/06/12
ST021	58° 45.292 'N	003° 15.551 'W	Recovery Planned 23/10/12
ST022	58° 45.319 'N	003° 17.164 'W	Recovered 30/06/12
ST023	58° 45.790 'N	003° 17.438 'W	Recovered 30/06/12



For further information, please contact: Judy McKay, Partrac, Tel: 0141 552 3903, email: jmkcay@partrac.com



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Area 3

First Published: 03 July 2012 | **Latest Update: 24 October 2012**

Hornsea Offshore Wind Farm – Survey Activities

Buoys

A directional wave rider (DWR) buoy is located at Schooner Field (location 7a) and will be serviced at 6 monthly intervals, and remain in place until further notice.

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 plaited rope 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.



Location	Name	Equipment	Latitude	Longitude
7a	Schooner Field	DWR buoy	53° 53.367'N	01° 59.100'E

Lost Object on Seabed

During geotechnical investigations, a Sea Bed Frame has become detached from the operating vessel. Efforts have been made to recover the object prior to the decreasing weather forecast, however it has not been possible to make a recovery

53°51.143'N 001°56.082'E

It is 3m wide x 3m long x 3.8m tall in size. The frame itself is not considered a hazard to shipping for safe navigation, but may be considered an obstruction on the sea bed for fishing vessels.

Met Mast

A meteorological mast is located at the position: 53°53.143'N 001°59.497'E

The primary and emergency fog horns on the Hornsea Met Mast are not functioning, be extra vigilant when navigating in adverse foggy conditions in the met mast area. SMart Wind is currently experiencing problems communicating electronically with the Hornsea Met Mast. However we can confirm that the Marine Navigation Aids are working correctly but the aviation lights are not. We would therefore like to keep the precautionary notice broadcasted on the 11/7/2012 in place until this issue is resolved.

Surveys

The MV Southern Star (call sign C6DZ8), a 36 m survey vessel will be conducting the bird and marine mammal survey running predetermined Zone wide transect lines spaced 6 km (3.2 Nm) apart at a speed of 10 kts and also predetermined Subzone 1 and Subzone 2 transect lines spaced 2 km (1.08 Nm) apart at a speed of 10 kts. The surveys will be undertaken monthly during daylight hours – dawn until dusk.

The vessel will also be undertaking an acoustic survey for marine mammals on both sets of predetermined transect lines (north of 53° 50'N only) and will be towing a hydrophone astern, on approximately 200m of cable (again, only during daylight hours). The hydrophone is towed at ~7m depth or less and is deployed at first light and recovered before dark on each survey day. The hydrophone is deployed before the first line is started each day so as to get the gear out and streaming before getting onto the survey line to begin the survey. The hydrophone will be retrieved before the vessel goes south of 53° 50'N on each transect line and will not be deployed or operated south of this latitude.

The direction at which the survey vessel will travel along each transect lines will vary, as will the order in which the transect lines are surveyed. At the beginning and end of each transect line, the vessel will be required to leave these fixed lines and passage to the beginning of the next line. The vessel will not recover the hydrophone at the northern end of each line; instead it will be towed to the next line to continue the survey. Where possible the vessel will remain north of 53° 50'N when waiting for daylight.

CPTs and Vibrocores, both to depths of up to 6m, will be carried out at around along the cable route. The Atlantic Surveyor (call sign: A8 AE9) has arrived on site and has begun carrying out this work.

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

[Kingfisher Awareness Flyer: Hornsea Offshore Wind Farm](#)

For further information, please contact: Chris Jenner, Tel: 07889410553, Email: Chris.Jenner@mainstreamrp.com, OR Hornsea Zone Onshore Fisheries Liaison Officer: Nick Garside, NFFO Services Ltd, Tel: 01904 635 432, Email: nick.garside@live.co.uk




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First Published: 24 October 2012 | **Latest Update: 24 October 2012**

Greater Gabbard Offshore Wind Farm – Geophysical Survey

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Emu Ltd RV Discovery 2AEL8	51° 42.955'N 001° 54.861'E 51° 45.173'N 002° 01.762'E 52° 04.699'N 002° 16.224'E 52° 04.530'N 001° 54.339'E	17/10/12 – 16/11/12 30 Days	

For further information, please contact: Emu Ltd, Tel: 01489 860050 , email: thomas.harris@emulimited.com

First Published: 27 June 2012 | **Latest Update: 22 October 2012**

Lincs Offshore Wind Farm – Construction Activity & Survey

Ongoing wind turbine erection is being undertaken at selected locations by the “Resolution”. 500m safety zones will apply around these locations during wind turbine erections, reverting to 50m safety zones once complete. Temporary navigation lights (FI Y 2.5s with 2nm range) are in place on all installed foundations.

The “Wind Solution” is anchored to the east of the site providing accommodation for personnel working on wind turbine erection. Continuation of secondary foundation and commissioning works at selected locations via various vessels. The “UR101” and support vessels, are continuing inter-array cable installation and ongoing trenching operations are underway via the “Bourbon Enterprise”. The following Guard Vessels will be on-site and along the export cable route; “Edlel”, “Huntress of Grimsby” and “Fruitful Harvest”.

Coordinates of Operations

The position and type of these buoys is shown below:

Buoy	Latitude	Longitude	Buoy	Latitude	Longitude
East Cardinal (VQ (3) 5s)	53°07.540'N	00°29.790'E	Special Mark (FI Y 2.5s)	53°13.800'N	00°30.940'E
East Cardinal (VQ (3) 5s)	53°09.070'N	00°31.490'E	North Cardinal (VQ)	53°15.170'N	00°30.350'E
Special Mark (FI Y 2.5s)	53°10.970'N	00°31.500'E	West Cardinal (VQ (9) 10s)	53°14.670'N	00°27.020'E
East Cardinal (VQ (3) 5s)	53°12.440'N	00°31.460'E	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



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First Published: 01 July 2012 | **Latest Update: 22 October 2012**

London Array Wind Farm – Construction Works

The London Array Offshore Wind Farm is being 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.



The Wind Turbine installation jack-up Sea Worker and assist tugs Sea Alfa and Sea Echo, will install her 2 final turbines F02 & G03. Once these two are installed she will demobilize in Ijmuiden. The Sea Jack will take over her role installing WTG's. Whilst construction is taking place at these positions a 500m safety zone is established, and all vessels are to keep clear. The Wind Turbine installation vessel MPI Discovery has returned to Esbjerg to load K14, J13, G10, G09, G08, F05. On her return, whilst construction is taking place at these positions a 500m safety zone is established, and all vessels are to keep clear.

Foundation installation vessel Sea Jack assisted by tugs Sea Golf and Bever, has installed the final TP at E12 and has sailed to Ijmuiden to demobilize. She will return to site to install WTG's once mobilization complete (early November). Whilst construction is taking place at these positions a 500m safety zone is established, and all vessels are to keep clear.

The Array cable installation vessel Pontra Maris and assist tugs Amstelstroom and Nova K will install cable G03-H04 & H04-H05. Whilst construction is taking place, a 900m safety zone is established and all vessels are to keep clear.

Dive support vessel Dalby Humber will carry out diver operations infield during the week during which a 500m safety zone is established and vessels are to keep clear.

The Array cable DP installation ship Normand Flower will install cable G05-G04. Whilst construction is taking place, a 500m safety zone is established and vessels are to keep clear.

The two Cable crossings between the London Array export cable and the Kentish Flats export cable and the Britned cable, are guarded by the guard vessel Sorrento. The vessel Coastal Worker and Sara Maatje 6 are working from Whitstable. They will continue cable burial in the Swale. Whilst this construction is taking place there is a 500m safety zone is established, and all vessels are to keep clear.

Construction site guard vessel duties will be covered by the Mary Ann 1.

Crew boats Marian Array, Smeaton Array, Ellida Array, Conwy Bay, Towyn Bay, Svend T, MPI Rucio, Cwind Alliance, Cwind Athenia, Cwind Asherah, Transporter, Distributor, Bayard 1, Bayard 2, Bayard 3, Bayard 4, Windcat 4, Windcat 6, Gardian 1, Gardian 3, Gardian 7, Dalby Humber, Dalby Tees, Dalby Esk, Ocean Wind 5, Cardinal P, Sure Pride, Sea Rex, Aberffraw Bay, ASP Thames, Cwind Astute and Offshore Wandelaar will take offshore technicians to the installed foundations and construction vessels, and perform personnel transfer duties.

The Hotel ship Wind Ambition situated to the NE of the construction site, acting as accommodation for offshore technicians working on the WTG's.

The vessels 'Waterfall and Geofocus to undertake site survey work.

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: Email: londonarraytraffic@dongenergy.dk, Tel: +44(0)7909414690 or +45 31727585




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First Published: 22 October 2012 | **Latest Update: 22 October 2012**

Lynn and Inner Dowsing Wind Farm – Geophysical Survey


Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
RPS Energy	1. 53° 12.819'N 000° 25.888'E	25/10/2012	
	2. 53° 12.819'N 000° 26.967'E		
	3. 53° 12.016'N 000° 26.969'E		
	4. 53° 12.016'N 000° 27.684'E		
	5. 53° 10.125'N 000° 27.687'E		
	6. 53° 10.124'N 000° 25.893'E		
	7. 53° 10.102'N 000° 25.884'E		
	8. 53° 09.658'N 000° 22.107'E		
	9. 53° 09.767'N 000° 22.100'E		
	10. 53° 10.214'N 000° 25.893'E		
	11. 53° 11.357'N 000° 25.891'E		
	12. 53° 09.990'N 000° 22.518'E		
	13. 53° 09.835'N 000° 22.094'E		
	14. 53° 10.066'N 000° 22.082'E		
	15. 53° 11.675'N 000° 25.890'E		
	16. 53° 08.851'N 000° 28.839'E		
	17. 53° 08.541'N 000° 28.858'E		
	18. 53° 08.267'N 000° 28.399'E		
	19. 53° 07.504'N 000° 28.355'E		
	20. 53° 07.505'N 000° 25.670'E		
	21. 53° 07.807'N 000° 25.687'E		
22. 53° 09.156'N 000° 22.137'E			
23. 53° 09.288'N 000° 22.129'E			
24. 53° 07.931'N 000° 25.694'E			
25. 53° 08.785'N 000° 25.742'E			
26. 53° 09.356'N 000° 22.125'E			
27. 53° 09.504'N 000° 22.116'E			
28. 53° 08.991'N 000° 25.767'E			
29. 53° 08.852'N 000° 25.989'E			
30. 53° 09.824'N 000° 21.248'E			
31. 53° 10.066'N 000° 22.082'E			
32. 53° 09.835'N 000° 22.094'E			
33. 53° 09.737'N 000° 21.801'E			
34. 53° 09.767'N 000° 22.100'E			
35. 53° 09.658'N 000° 22.107'E			
36. 53° 09.626'N 000° 21.594'E			
37. 53° 09.580'N 000° 21.597'E			
38. 53° 09.504'N 000° 22.116'E			
39. 53° 09.356'N 000° 22.125'E			
40. 53° 09.403'N 000° 21.851'E			
41. 53° 09.288'N 000° 22.129'E			
42. 53° 09.156'N 000° 22.137'E			
43. 53° 09.441'N 000° 21.257'E			

For further information, please contact: Alexandra Bowers, RPS Energy, Tel: +44(0)1483 746500 email: bowers@rpsgroup.com

First Published: 19 October 2012 | **Latest Update: 19 October 2012**

Galloper Wind Farm – Geotechnical Investigation

Fugro GeoConsulting Limited operating on behalf Galloper Wind Farm Limited, propose a Geotechnical Investigation within the UK Sector of the Central North Sea at the proposed location of the “Galloper Wind Farm” as identified by the Crown Estate in the Round 2 bidding process.

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Fugro GeoconsultingLtd MV Gargano VSMW5	51° 42.955'N 001° 54.861'E 51° 45.173'N 002° 01.762'E 52° 04.699'N 002° 16.224'E 52° 04.530'N 001° 54.339'E	19/10/2012 – 31/10/2012	

For further information, please contact: Lewis Entwistle, Tel: +44(0)7825 879223, email: l.entwistle@fugro.co.uk



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First Published: 18 October 2012 | **Latest Update: 18 October 2012**

Dogger Bank Wind Farm – Benthic Survey


MV Atlantic Surveyor shall shortly be performing servicing and replacement of the oceanographic equipment currently deployed at three locations within the Dogger Bank windfarm.

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Forwind Ltd MV Atlantic Surveyor A8AE9	55° 05.901'N 002°42.040'E 54° 51.683'N 001°59.747'E 55° 29.550'N 002°13.595'E	19/10/2012 – 31/10/2012	

For further information, please contact: David Warner, Forwind Ltd, Tel: 0705750520 email: david.warner@forewind.co.uk

First Published: 17 October 2012 | **Latest Update: 17 October 2012**

Spurn Head, Humber Gateway Offshore Wind Farm – Geophysical Survey

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Osiris Projecs Freja VSY07	53° 40.10'N 00° 14.81'E 53° 41.03'N 00° 19.88'E 53° 38.02'N 00° 19.88'E 53° 35.83'N 00° 16.90'E 53° 35.28'N 00° 16.24'E 53° 36.78'N 00° 16.28'E	Mid Oct for 3 Weeks 21 Days	

For further information, please contact: Nigel Proctor, Tel: +44(0)1964 624 423 email:n.proctor@precisionmarine.co.uk



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First Published: 27 June 2012 | **Latest Update: 10 October 2012**

Teesside Offshore Wind Farm – Construction Activities

Teesside Offshore Wind Farm is located within Tees Bay approximately 1.5km off the coast of Redcar in Cleveland. The site will consist of 27 Siemens 2.3 MW Turbines and is connected by two undersea export cables to an onshore sub-station based at Warrenby. Construction has commenced and is planned to be completed by November 2012.



Installation

Transition pieces are currently being installed at various locations and inter array cabling laying is also underway. All mariners please be aware that the South and West Cardinal Buoys are not in their correct position marking out the Safety zone and the East Cardinal Buoy light is not working correctly. A survey of the intertidal area for the Cable Route from Substation to South Gare is completed.

During the construction phase of the project, PD Teesport will implement a Safety Zone marked by four Cardinal Buoys around the construction zone. The cardinal buoys will mark the corners of an area designated by the Harbour Authority as a "Safety Zone" between the 1st February 2012 and November 2012.

For further information, please contact: Simon Prince / Richard Hart, RSS Marine, Tel: 01723 893930, Mob: 07920 273866, Email: sprince@rssmarine.co.uk

First Published: 09 August 2012 | **Latest Update: 10 October 2012**

Gunfleet Sands Demo Offshore Wind Farm – Survey

Gunfleet Sands Demo consist of two 6 MW Siemens Wind Turbines, high voltage submarine cable between the turbines and a high voltage export cable to the shore near Clacton on Sea. Gunfleet Sands Demo is situated in the Thames Estuary off the SW corner of the existing Gunfleet Sands Offshore Wind Farm.

Continued over the page

Company, Vessel & Call Sign	Area Covered		Start Timeframe & Duration	Area
Gunfleet Demo (UK) Ltd AMT Discoverer	1. 51°46.890'N 1°08.291'E 2. 51°46.944'N 1°08.718'E 3. 51°46.352'N 1°08.179'E 4. 51°44.899'N 1°08.313'E 5. 51°44.499'N 1°09.843'E 6. 51°43.705'N 1°09.952'E 7. 51°42.729'N 1°09.637'E	8. 51°42.532'N 1°09.341'E 9. 51°43.584'N 1°09.547'E 10. 51°44.384'N 1°09.437'E 11. 51°44.808'N 1°09.890'E 12. 51°45.852'N 1°11.839'E 13. 51°46.890'N 1°10.291'E	26/10/2012 – 15/02/2013	

For further information, please contact: Gunfleet Demo Marine, Tel: +44(0) 7880095048 email: Gfs03-mc@dongenergy.dk



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First Published: 10 October 2012 | **Latest Update: 10 October 2012**

Gunfleet Sands 1&2 Offshore Wind Farm – Maintenance Activity

DONG Energy Gunfleet Sands Ltd will be undertaking maintenance activity on all turbines except G07.

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Gunfleet Demo (UK) Ltd Wind OXSW2 Samson B 2DYY8	51° 43.724'N 001° 11.285'E	03/10/2012 – 01/03/2013	
	51° 43.980'N 001° 11.941'E		
	51° 44.236'N 001° 12.597'E		
	51° 44.491'N 001° 13.253'E		
	51° 44.747'N 001° 13.909'E		
	51° 45.003'N 001° 14.565'E		
	51° 43.517'N 001° 11.464'E		
	51° 43.773'N 001° 12.120'E		
	51° 44.029'N 001° 12.776'E		
	51° 44.285'N 001° 13.432'E		
	51° 44.541'N 001° 14.088'E		
	51° 44.797'N 001° 14.744'E		
	51° 43.310'N 001° 11.643'E		
	51° 43.566'N 001° 12.299'E		
	51° 43.822'N 001° 12.955'E		
	51° 44.078'N 001° 13.611'E		
	51° 44.334'N 001° 14.267'E		
	51° 44.590'N 001° 14.923'E		
	51° 43.103'N 001° 11.822'E		
	51° 43.359'N 001° 12.478'E		
	51° 43.615'N 001° 13.134'E		
	51° 43.876'N 001° 13.790'E		
	51° 44.127'N 001° 14.446'E		
	51° 44.383'N 001° 15.102'E		
51° 42.896'N 001° 12.001'E			
51° 43.152'N 001° 12.657'E			
51° 43.408'N 001° 13.313'E			
51° 43.664'N 001° 13.969'E			
51° 43.920'N 001° 14.625'E			
51° 44.176'N 001° 15.281'E			
51° 42.689'N 001° 12.180'E			
51° 42.945'N 001° 12.836'E			
51° 43.201'N 001° 13.492'E			
51° 43.457'N 001° 14.147'E			
51° 43.713'N 001° 14.804'E			
51° 43.969'N 001° 15.460'E			
51° 44.225'N 001° 16.116'E			
51° 44.481'N 001° 16.772'E			
51° 44.737'N 001° 17.428'E			
51° 42.483'N 001° 12.359'E			
51° 42.738'N 001° 13.015'E			
51° 42.995'N 001° 13.671'E			
51° 43.250'N 001° 14.327'E			
51° 43.506'N 001° 14.983'E			
51° 43.762'N 001° 15.639'E			
51° 44.274'N 001° 16.951'E			
51° 44.530'N 001° 17.607'E			

For further information, please contact: Dong Energy, Hans Jorgen Zaar +45 20 485586

First Published: 10 October 2012 | **Latest Update: 10 October 2012**

East Anglia Offshore Wind Farm – Bethnic Survey

EAOW will appoint a contractor to carry out benthic surveys offshore East Anglia at a date yet to be determined (likely to be in November or December 2012). The works are expected to take approximately 20 days to complete (weather dependent). An update to this notice will be provided detailing the start date for these works and the contractor/vessel to be used.

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Gardline Geo Survey Ltd MV Titan Endeavour 2ELT9	53° 14.783 N 003° 04.251 E	20 Days	
	52° 51.768 N 003° 10.775 E		
	51° 59.820 N 002° 27.194 E		
	52° 00.558 N 002° 06.941 E		
	52° 17.422 N 002° 08.504 E		
	52° 15.962 N 001° 52.115 E		
52° 24.126 N 001° 55.943 E			
52° 26.207 N 002° 13.544 E			
52° 36.033 N 002° 14.491 E			
52° 49.555 N 002° 02.675 E			

For further information, please contact: Martin Whyte, Scottish Power Renewables, Tel: +44(0) 1379 870181 email: Martin.Whyte@scottishpower.com




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First Published: 21 September 2012 | **Latest Update: 21 September 2012**

Race Bank Offshore Wind Farm – Benthic Ecology Survey


Company, Vessel & Call Sign	Area Covered		Start Timeframe & Duration	Area
Gardline Geosurvey Ltd MV Ivero	1. 53° 20.092'N 000° 44.820'E	27. 52° 50.655'N 000° 14.559'E	26/09/2012 - 30/11/2012 For 10 Weeks	
	2. 53° 20.176'N 000° 49.206'E	28. 52° 50.520'N 000° 14.448'E		
	3. 53° 17.547'N 000° 50.338'E	29. 52° 48.843'N 000° 17.731'E		
	4. 53° 15.720'N 000° 55.991'E	30. 52° 48.551'N 000° 16.517'E		
	5. 53° 13.226'N 000° 53.750'E	31. 52° 48.659'N 000° 16.442'E		
	6. 53° 12.711'N 000° 42.612'E	32. 52° 48.581'N 000° 15.718'E		
	7. 53° 09.165'N 000° 38.643'E	33. 52° 48.579'N 000° 15.469'E		
	8. 53° 08.962'N 000° 39.598'E	34. 52° 48.699'N 000° 15.016'E		
	9. 53° 07.259'N 000° 47.589'E	35. 52° 48.886'N 000° 14.324'E		
	10. 53° 07.832'N 000° 38.264'E	36. 52° 48.964'N 000° 13.884'E		
	11. 53° 04.503'N 000° 32.024'E	37. 52° 49.006'N 000° 13.406'E		
	12. 53° 02.903'N 000° 27.458'E	38. 52° 49.017'N 000° 13.126'E		
	13. 53° 01.642'N 000° 26.313'E	39. 52° 49.292'N 000° 13.301'E		
	14. 53° 00.695'N 000° 26.199'E	40. 52° 49.615'N 000° 13.313'E		
	15. 52° 59.566'N 000° 25.298'E	41. 52° 52.928'N 000° 14.355'E		
	16. 52° 59.012'N 000° 25.657'E	42. 52° 54.284'N 000° 14.699'E		
	17. 52° 56.536'N 000° 24.827'E	43. 52° 59.409'N 000° 19.616'E		
	18. 52° 56.527'N 000° 24.333'E	44. 53° 00.412'N 000° 21.825'E		
	19. 52° 57.842'N 000° 23.534'E	45. 53° 02.272'N 000° 23.495'E		
	20. 52° 57.988'N 000° 23.443'E	46. 53° 03.809'N 000° 25.582'E		
	21. 52° 58.296'N 000° 21.128'E	47. 53° 07.064'N 000° 31.754'E		
	22. 52° 57.741'N 000° 20.601'E	48. 53° 08.189'N 000° 34.337'E		
	23. 52° 54.686'N 000° 18.778'E	49. 53° 08.555'N 000° 36.985'E		
	24. 52° 53.858'N 000° 17.832'E	50. 53° 09.323'N 000° 37.894'E		
	25. 52° 53.370'N 000° 17.144'E	51. 53° 12.846'N 000° 41.838'E		
	26. 52° 52.516'N 000° 15.941'E			

For further information, please contact: Simon Prince, Tel: 07920 273866 email: Renewables@Centrica.com

First Published: 17 September 2012 | **Latest Update: 17 September 2012**

Dogger Bank Wind Farm – Benthic Survey

The M/V Vigilant shall begin an environmental benthic survey of the 'Teesside Cable Corridors', the boundary of which is defined by the coordinates

Company, Vessel & Call Sign	Area Covered		Start Timeframe & Duration	Area
Forwind Ltd MV Vigilant PBNX	1. 54°42.691'N 0°49.836'W	22. 55°03.694'N 1°23.328'E	10/09/2012 – 30/10/2012	
	2. 54°42.267'N 0°48.253'W	23. 54°52.854'N 1°19.899'E		
	3. 54°48.922'N 0°29.760'W	24. 54°52.016'N 1°19.635'E		
	4. 54°48.131'N 0°29.353'W	25. 54°50.753'N 0°54.823'E		
	5. 54°49.196'N 0°24.379'W	26. 54°49.904'N 0°54.755'E		
	6. 54°48.374'N 0°24.595'W	27. 54°48.245'N 0°37.887'E		
	7. 54°48.465'N 0°21.290'W	28. 54°47.440'N 0°38.093'E		
	8. 54°47.624'N 0°21.432'W	29. 54°48.229'N 0°29.003'E		
	9. 54°48.848'N 0°17.927'W	30. 54°47.431'N 0°29.320'E		
	10. 54°48.067'N 0°17.548'W	31. 54°44.640'N 0°13.814'E		
	11. 54°50.815'N 0°08.594'W	32. 54°43.862'N 0°14.216'E		
	12. 54°50.088'N 0°07.959'W	33. 54°43.347'N 0°02.186'E		
	13. 54°56.140'N 0°05.142'E	34. 54°42.543'N 0°02.351'E		
	14. 54°55.431'N 0°05.833'E	35. 54°43.062'N 0°09.794'W		
	15. 54°56.928'N 0°08.287'E	36. 54°42.355'N 0°08.682'W		
	16. 54°56.158'N 0°08.734'E	37. 54°41.941'N 0°13.134'W		
	17. 55°01.603'N 0°42.886'E	38. 54°41.163'N 0°12.666'W		
	18. 55°00.805'N 0°43.125'E	39. 54°40.224'N 0°33.294'W		
	19. 55°01.373'N 0°51.748'E	40. 54°39.470'N 0°32.546'W		
	20. 55°02.422'N 0°55.369'E	41. 54°38.902'N 0°35.101'W		
	21. 55°04.528'N 1°23.593'E	42. 54°38.459'N 0°33.929'W		

For further information, please contact: David Warner, Forwind Ltd, Tel: 0705750520 email: david.warner@forewind.co.uk



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Area 3

First Published: 14 June 2012 | **Latest Update: 13 September 2012**

Sheringham Shoal – Survey & Jet Trenching Operations

During the Survey Operations the wind-farm site is temporarily marked by four cardinal buoys (N, S, E and W) and four pillar buoys (SE, SW, NE and NW) at the following positions:-

Buoy	Latitude	Longitude
North Cardinal (VQ)	53°09.913'N	01°07.686'E
South Cardinal (VQ(6) + LFI 10 sec)	53°06.361'N	01°10.000'E
East Cardinal (VQ(3) 5 sec)	53°07.318'N	01°12.287'E
West Cardinal (VQ(9) 10 sec)	53°08.956'N	01°05.413'E
Pillar buoys (FI Y 2.5 sec light)	53°10.735'N	01°04.249'E
Pillar buoys (FI Y 2.5 sec light)	53°09.095'N	01°11.123'E
Pillar buoys (FI Y 2.5 sec light)	53°05.530'N	01°13.443'E
Pillar buoys (FI Y 2.5 sec light)	53°07.179'N	01°06.569'E

Approx Dates:- 23rd – 29th September 2012

All vessels are advised to keep clear of the windfarm construction area, marked by the four cardinal buoys, during the construction period. And the exclusion zone area from Weybourne beach out to the wind-farm.

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

First Published: 10 September 2012 | **Latest Update: 10 September 2012**

London Array Wind Farm – Export cable HV1/HV4 Trenching Work

There are a total of four 150kV power cables to be installed from a landfall in The Swale, north of Cleve Hill, Graveney out to the London array wind farm approximately 12 miles from the Kent and Essex coasts. The next cable to be trenching is HV1 (near Substation 1), after which the trenching work scope on HV4 shall commence.

The trenching of one section of the HV1 150kV submarine cable near the Offshore substation LA1. The trenching of four different sections along the route of the HV4 150kV submarine cable. The vessel carrying out the trenching works is the Coastal Worker. She will be supported by a smaller vessel the Sara Maatje VI

Trenching operations for HV1 will be carried out at, around or between the following location:

Location	From	To
Substation	51°37.41'N 001°26.10'E	51°37.41'N 001°26.10'E

Trenching operations for HV4 will be carried out at, around or between the following location:

Location	From	To
The Swale	51°21.40'N 000°56.62'E	51°21.90'N 000°57.00'E
Kentish Flats Crossing	51°25.12'N 001°05.82'E	51°25.20'N 001°06.25'E
BritNed Crossing	51°28.59'N 001°17.45'E	51°28.59'N 001°17.58'E
Substation	51°36.05'N 001°32.05'E	51°36.15'N 001°32.08'E

The Coastal Worker will move on anchors during trenching operations. The Coastal Worker will commence trenching operations at the Substation 1 around the 10th of September 2012, subject to weather. The Coastal Worker is expected to complete the entire trenching work scope work by the end of October 2012. Vessels Coastal Worker Sara Maatje 6 – VSTD4. The radio channels used are P1 and P2 at 158.1000MHz and 158.1500MHz respectively.

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: Email: londonarraytraffic@dongenergy.dk, Tel: +44(0)7909414690 or +45 31727585



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Area 3

First Published: 15 June 2012 | **Latest Update: 07 September 2012**

Gunfleet Offshore Wind – Construction

Gunfleet Sands Demo consist of two 6 MW Siemens Wind Turbines, high voltage submarine cable between the turbines and a high voltage export cable to the shore near Clacton on Sea. Gunfleet Sands Demo is situated in the Thames Estuary off the SW corner of the existing Gunfleet Sands Offshore Wind Farm.



The two turbines will be installed in the following positions: F00 51°42.433'N 01°11.524'E G00 51°42.2'N 01°11.703'E

Gunfleet Sands Demo Offshore Wind Farm, marine works will commence for the installation of the landfall pipe PE sleeve. An 800m long PE pipe will be manoeuvred offshore and inserted into a previously drilled hole in the sea bed. The PE pipe will then be pulled ashore through the hole. The work is planned to commence 15th September 2012, duration is expected to be up to two weeks. The position of the drill hole: 51°46.62'N 01°08.770'E

Vessels carrying out work: The work will primarily be carried out by the MPV Tessa W call sign PHNC. There will be an attending RIB for dive support and personnel transfers to the shore. Two assisting tugs will also be in attendance whilst the landfall pipe is positioned. All vessels will exhibit lights and shapes according to the ColRegs.

The vessels will maintain a continuous listening watch on Ch. 16, and can be contacted at any time.

The construction work will commence July 1st 2012 and expected to be completed in February 2013. All vessels engaged in the construction project will exhibit correct lights and shape acc to the ColRegs, all vessels will maintain a constant listening watch on VHF Ch. 16, and other VHF channels. First vessel on site will be the Fall Pipe Rock Placement vessel "Flintstone" Expected on site early July 2012 to install a layer of "filter stones" to approximately 1 meter above seabed around the two turbine locations. Please note these positions of exposed cable and mark them on your charts:

Start	51°44.593'N	001°13.455'E
Centre	52°16.941'N	001°12.169'E
End	51°44.587'N	001°13.460'E
Start	51°48.153'N	001°12.717'E
Centre	51°48.150'N	001°12.721'E
End	51°48.147'N	001°12.725'E

All mariners should note that there is an advisory anchor exclusion zone that extends for 200 meters either side of the exposed sections of the export cable and you are requested to avoid anchoring in this area, this also includes anchors that are attached to static fishing gear.

The Construction Area	From the construction site to the cable corridor to shore	From the construction site to the cable corridor to shore
51°42.429'N 01°10.966'E	51°46.890'N 01°08.291'E	51°42.532'N 01°11.341'E
51°42.162'N 01°11.676'E	51°46.944'N 01°08.718'E	51°43.584'N 01°09.547'E
51°42.415'N 01°12.321'E	51°47.352'N 01°09.179'E	51°44.385'N 01°09.437'E
51°42.820'N 01°11.967'E	51°44.899'N 01°09.313'E	51°44.808'N 01°08.890'E
51°42.429'N 01°10.966'E	51°44.498'N 01°09.843'E	51°45.853'N 01°08.839'E
	51°43.705'N 01°09.953'E	51°46.893'N 01°08.291'E
	51°42.729'N 01°11.637'E	

For further information, please contact: Judy McKay, Partrac, Tel: 0141 552 3903, email: jmckay@partrac.com



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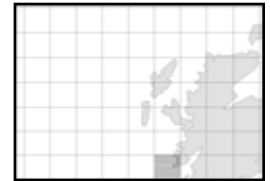
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Area 5

First Published: 10 October 2012 | **Latest Update: 25 October 2012**

West Duddon Windfarm – Survey Operations

Osiris Projects will be carrying out marine geophysical survey operations on the site of the West of Duddon Sands Windfarm and along the proposed export cable routes to Heysham. The windfarm is located in the East Irish Sea approximately 14 km from the nearest coast on Walney Island, Cumbria.



Survey operations are expected to take place between mid-October to mid-November 2012. The survey vessel Chartwell and MV Lia will be working within the following area.

Latitude	Latitude	Latitude	Latitude
54° 03.4 'N	003° 36.6 'W	54° 03.4 'N	002° 55.4 'W
53° 55.4 'N	003° 36.6 'W	53° 55.4 'N	002° 55.4 'W

For further information, please contact: Mick Slater, Osiris Projects, Tel: 0151 328 1120 email: mick.slater@osirisprojects.co.uk

First Published: 03 July 2012 | **Latest Update: 17 October 2012**

Irish Sea Offshore Wind Farm – Survey Activities

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Centrica MV Clupea MZFS9	<ol style="list-style-type: none"> 53° 25.693'N 004° 28.507'W 53° 33.994'N 004° 25.665'W 53° 34.467'N 004° 00.084'W 53° 26.301'N 003° 59.991'W 53° 20.524'N 004° 06.328'W 	17 th JOct – End Jan 2013	

For further information, please contact: RSS Marine Ltd, Tel: +44(0)1723 893930, email: info@celticarray.com

First Published: 12 October 2012 | **Latest Update: 12 October 2012**

Irish Sea Offshore Wind Farm – Survey Activities

Company, Vessel & Call Sign	Area Covered	Start Timeframe & Duration	Area
Centrica MV Clupea MZFS9	<ol style="list-style-type: none"> 53° 33.994'N 04° 25.665'W 53° 34.467'N 04° 00.084'W 53° 43.186'N 04° 00.082'W 53° 46.603'N 04° 25.546'W 53° 39.744'N 04° 29.277'W 53° 36.017'N 04° 24.122'W 	22 nd Oct – End Nov 2012	

For further information, please contact: RSS Marine Ltd, Tel: +44(0)1723 893930, email: info@celticarray.com



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Area 5

First Published: 01 July 2012 | **Latest Update: 12 October 2012**

Ormonde Wind Farm – Construction / Activities

All of the turbines are now energised and are producing electricity to the National Grid. Small crew and workboat vessels will continue to be employed in the transfer of technicians to work on routine maintenance and small fault corrections as and when weather permits.



All of the Turbines at the Ormonde Wind Farm are operational and producing electricity to the National Grid.

Export Cable Survey Installation

All of the Inter-Array / Infield Cables are now 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

First Published: 10 October 2012 | **Latest Update: 10 October 2012**

Argyll – Survey Operations

Partrac will undertake survey work at the following approximate locations. Scientific equipment will be deployed over the side of the vessel, suspended on a rope.

The survey vessel Venture West will also be using an ADCP instrument and will be limited in speed until this is lifted out of the water.

Name	Latitude	Longitude	Date
Cuan Sound (Luinng)	55° 50.492 'N	006° 05.456 'W	12/10/12
Sound of Islay	56° 09.108 'N	005° 42.482 'W	13/10/12
Corryvreckan	56° 09.108 'N	005° 42.482 'W	14/10/12



For further information, please contact: Judy McKay, Partrac, Tel: 0141 552 3903, email: jmckay@partrac.com

First Published: 20 June 2012 | **Latest Update: 10 October 2012**

Burbo Bank Offshore Wind Farm – Extension

DONG Energy Walney Extension (UK) Limited intends to develop and construct the Walney Extension Offshore Wind Farm - a new offshore wind farm west of Walney Island, being an extension to the existing Walney 1 & 2. The wind farm will be located approximately 19km West of Walney Island and 31km south east of the Isle of Man.



The Geotechnical Ground Investigation at the proposed EXTENSION to the BURBO BANK WIND FARM has now completed.

The Jack-up Rig 'EXCALIBUR' accompanied by the support tug 'MTS VALIANT' has now left the area to carry out the GEOTECHNICAL GROUND INVESTIGATION at the proposed WALNEY EXTENSION.

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



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Area 5

First Published: 30 June 2012 | **Latest Update: 10 October 2012**

Shell Flats Bank – Malfunction to Navigation and Aviation Lighting

The two Metrological Masts that are situated on the Shell Flats Bank still have a problem with the Navigation and Aviation lighting.

The navigation and aviation warning lights on the 80m mast (No. 1) are not working and it has also been recorded that the aviation lights on the 50m mast (No.2) are not working. The two Metrological Masts are situated at the following positions :

Latitude	Longitude	Mast
53°52.423'N	003°12.133'W	80m
53°51.600'N	003°17.663'W	50m



Until this fault is corrected two temporary marker buoys are to be deployed at the 80m Mast (NO.1) until the Navigation Lights are repaired.

Positions of the two buoys :

Latitude	Longitude	Buoy
53°52.477'N	003°12.133'W	North Mast Special Mark
53°52.369'N	003°12.133'W	South Mast Special Mark

Characteristics of the Special Marker Buoys - Flashing sequence: 0.5s ON & 2s OFF. Flash colour: Yellow

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

First Published: 19 June 2012 | **Latest Update: 10 October 2012**

Robin Rigg Offshore Wind Farm – Hazard / Plotter Files / Operations

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.

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.



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, Mob: 07903 173 624



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Area 5

First Published: 29 June 2012 | **Latest Update: 24 September 2012**

Gwynt y Môr Offshore Wind Farm – Construction Activities

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.



A Navigation Warning advising of a navigation hazard has been issued for the Gwynt y Môr Offshore Windfarm 10th September 2012.

The notice advises that the cable laying barge Cable Enterprise has had to abandon the cable laying plough along with some umbilical approximately 4.2 nautical miles north of Pensarn beach and 2 nautical miles west of the middle patch spit port hand lateral buoy. This location is shown on the map here. The precise location of the obstruction is:- 53° 21.87'N 3° 35.79'W

The water depths at is approximately 5m. The plough is 10m in length and 4.5m in height.

All vessels are advised to keep at least 1000m clear of this location. The location of the plough and umbilical has been marked with buoys (pictured in the Navigation Warning).

Holyhead MRCC is issuing a local navigation warning every 3 hours, and the RWE npower renewables guard vessel MV Choice is on location and also broadcasting a navigation warning. Both Holyhead MRCC and MV Choice can be contacted on VHF Channel 16.

Wind Farm Perimeter

Location	Buoy Type	Position	Location	Buoy Type	Position
GYM S	Red Can FIR 2.5s	53°24.900'N 003°37.080'W	GYM N	North Cardinal VQ	53°29.735'N 003°31.710'W
GYM SW	Special Mark FI Y 2.5s	53°25.870'N 003°39.600'W	GYM NE	Special Mark FI Y 2.5s	53°28.390'N 003°29.340'W
GYM W	West Cardinal VQ(9) 10s	53°26.832'N 003°42.129'W	GYM E	East Cardinal VQ(3) 5s	53°27.130'N 003°27.078'W
GYM NW	West Cardinal Q(9) 15s	53°28.303'N 003°40.772'W	GYM SE	Special Mark FI Y 2.5s	53°26.015'N 003°32.080'W
GYM NNW	North Cardinal Q	53°29.670'N 003°36.857'W			

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

[Kingfisher Awareness Flyer: Gwynt Y Mor Offshore Wind Farm](#)

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

First Published: 02 July 2012 | **Latest Update: 21 September 2012**

Walney 1 & 2 Offshore Wind Farm – Construction Activity / Community Consultation

There are to be a number of 'Second Round Community Consultation Events' to discuss the project plans and timescales for the Walney Extension project. These will take place between the 3 - 13 September 2012. If you feel that there are any issues concerning this development that might affect you, please contact the undersigned for dates and times of these events.



Rockdumping

There has been Rock Armour (Rock Dumping) placed around each Turbine base to help with scour protection and you are advised to keep a distance of at least 50 / 80 meters from each Turbine to avoid damaging your gear and also to avoid damaging the J Tubes or the underwater fittings of the Turbine.

The Rock Dump Vessel 'HAM602' has now completed all ROCK DUMPING activities along the EXPORT CABLES ROUTES of both WALNEY 1 and WALNEY 2 including the two short sections of the WALNEY 2 INTER-ARRAY CABLE where it crosses the BT Cable and has de-mobbed from this project and left the area.

The Guard Vessel 'Sanrene' has now left the project as the rock dumping over the BT cable is now complete. Walney 1 (Export Cable)



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Rock dumping Start Latitude	Rock dumping Start Longitude	Rock dumping Finish Latitude	Rock dumping Finish Longitude	Length Metres
53° 59.314'N	003° 13.515'W	53° 59.320'N	003° 13.560'W	50
53° 59.352'N	003° 13.800'W	53° 59.646'N	003° 15.191'W	1630
53° 59.646'N	003° 15.191'W	53° 59.746'N	003° 15.407'W	300
54° 00.097'N	003° 16.100'W	54° 00.301'N	003° 16.526'W	600

Walney 2 (Export Cable)

Rock dumping Start Latitude	Rock dumping Start Longitude	Rock dumping Finish Latitude	Rock dumping Finish Longitude	Length Metres
53° 54.745'N	003° 12.377'W	53° 54.752'N	003° 12.388'W	140
53° 54.752'N	003° 12.388'W	53° 54.752'N	003° 12.388'W	245
53° 55.077'N	003° 13.022'W	53° 55.129'N	003° 13.118'W	140
54° 00.804'N	003° 23.821'W	54° 00.908'N	003° 24.031'W	300
54° 01.092'N	003° 24.486'W	54° 01.155'N	003° 24.517'W	100
53° 59.152'N	003° 20.470'W	53° 59.204'N	003° 20.586'W	160
53° 59.340'N	003° 20.894'W	53° 59.398'N	003° 21.026'W	180
54° 01.586'N	003° 25.397'W	54° 01.643'N	003° 25.508'W	160
54° 03.187'N	003° 29.234'W	54° 03.217'N	003° 29.297'W	90

Walney 2 (Array Cable)

Rock dumping Start Latitude	Rock dumping Start Longitude	Rock dumping Finish Latitude	Rock dumping Finish Longitude	Length Metres
54° 05.492'N	003° 36.791'W	54° 05.546'N	003° 36.867'W	130
54° 05.776'N	003° 36.189'W	54° 05.827'N	003° 36.271'W	130

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](#)

[Kingfisher Awareness Flyer: Walney 1 Offshore Wind Farm](#)

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

First Published: 14 August 2012 | Latest Update: 14 August 2012

West of Duddon Sands Offshore Wind Farm – Datawell Waverider Buoy

The Waverider Buoy is spherical, 90cm in diameter, yellow with a FL.Y (5) 20secs light. Nominal range 1 nm. The Guard Buoy is spherical, 2m in diameter, yellow with a FL.Y (5) 20secs light. Nominal range 4 nm.

The Buoys are expected to remain in position until late 2012 or until otherwise notified.

The Position of the buoy: 54°00.000'N 003°26.000'W



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