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Description

Walney Offshore Wind Farm project is located approximately 14km west of Walney Island in the East Irish Sea. The project consists of Walney 1 with 51 turbines, each with a capacity of 3.6MW, giving a total capacity of 183.6MW, and an extension, Walney 2, with 51 turbines of 3.6 MW adding 183.6MW to a combined total of up to 367.2MW. Walney 1 will be connected to shore and the national grid through an export cable from the offshore substation landing at Heysham, while Walney 2 is connected to shore through an export cable landing at Thornton-Cleveleys. Both export cables are managed and maintained by Blue Transmission Ltd.

Reducing the Risks whilst Fishing

To reduce the risks of fishing near offshore structures, it is essential to be up to date with KIS-ORCA information. KIS-ORCA information is easy to install on your vessel's fishing plotter and ensures skippers are able to make informed decisions for their safety.

The closer to the surface a subsea cable is lifted when fouled by fishing gear, the more danger there is to the fishing vessel. In the interests of fishing safety and to prevent damage to subsea structures, fishermen are advised to exercise caution when fishing in the vicinity of subsea cables and renewable energy structures. Loss of gear, fishing time and catch can result if a trawler snags a subsea structure and there is serious risk of loss of life.

Emergency Procedures

1. If you suspect you have snagged a subsea cable, **DO NOT** endanger your vessel and crew by attempting to recover your gear.
2. Carefully plot your vessel's position as accurately as possible.
3. Advise the Coastguard of your situation, and call the 24 hour Emergency Number and state that an incident is occurring concerning a subsea cable.

Advisory Safety Zones

An Advisory Safety Zone of 50m around each turbine and substation structure is requested. An 200m anchorage exclusion zone around the export cable is requested. All vessels are asked to respect the Advisory Safety Zones, which as well as reducing the risk of collision damage, will provide protection to vessels, the export cable, and wind turbine structures.

If any major maintenance works are planned, Notices to Mariners will be promulgated in advance as required. During such works a Mandatory Safety Zone of 500m is likely to apply to certain turbines and/or vessels.

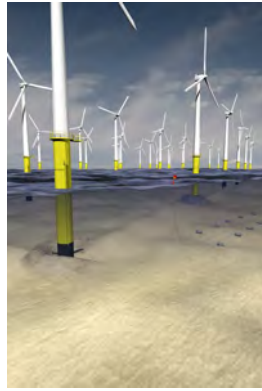
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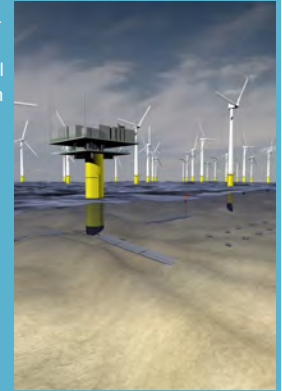
Wind Turbines and Foundations

As wind turbines get larger and are deployed in deeper waters, a range of different foundation types may be encountered such as monopole, jacket, gravity base and suction bucket. In some cases multiple foundation types may be used within a single site. In all cases it is likely that scour holes will form around the foundation base, the depth and extent being dependent upon a range of factors including seabed type and current strength and direction. Scour protection in the form of rock dumping or cable mattresses is often used around the base of the foundations which may present a snagging risk. During the operational phase of a wind farm, an operator may request a 50m advisory safety zone around each structure.



Inter Array Wind Farm Cabling

The inter array cables interconnect the turbines typically in radial strings going to the offshore substation platform. The issues associated with these are largely the same as per cable burial. Each turbine will usually have up to two cables entering the foundation structure at the seabed through a protective tube. Typically the tube end has a bellmouth at the seabed to aid alignment and pulling in of the cables. Whilst the cables may have been jetted in or ploughed as close as practical to the foundation, cables may not be fully buried and may also become exposed by scour holes forming. In these circumstances scour protection in the form of rock dumping or cable mattresses may be used. Cables, albeit close to the foundation, may present a snagging risk to anchors and/or trawled gear.



Wind Farm Coordinates

WALNEY 1 TURBINE POSITIONS			WALNEY 2 TURBINE POSITIONS			WALNEY 1		WALNEY 2	
No.	COORDINATES		No.	COORDINATES		WINDFARM BOUNDARY		WINDFARM BOUNDARY	
A01	54°01.796'N	003°26.839'W	A12	54°04.741'N	003°32.506'W	54°00.737'N	003°31.555'W	54°02.300'N	003°33.804'W
A02	54°02.064'N	003°27.353'W	A13	54°05.017'N	003°33.039'W	54°01.140'N	003°31.977'W	54°02.802'N	003°35.038'W
A03	54°02.332'N	003°27.868'W	A14	54°05.294'N	003°33.572'W	54°01.780'N	003°32.853'W	54°03.128'N	003°36.105'W
A04	54°02.599'N	003°28.383'W	A15	54°05.570'N	003°34.106'W	54°02.300'N	003°33.804'W	54°03.441'N	003°37.478'W
A05	54°02.867'N	003°28.898'W	A16	54°05.846'N	003°34.639'W	54°04.583'N	003°32.061'W	54°03.572'N	003°38.579'W
A06	54°03.135'N	003°29.413'W	A17	54°06.675'N	003°36.240'W	54°01.776'N	003°26.667'W	54°04.441'N	003°39.341'W
A07	54°03.403'N	003°29.928'W	A18	54°06.951'N	003°36.774'W	54°00.737'N	003°31.555'W	54°05.597'N	003°40.170'W
A08	54°03.670'N	003°30.444'W	A19	54°07.227'N	003°37.308'W			54°07.603'N	003°37.894'W
A09	54°03.938'N	003°30.959'W	A20	54°07.522'N	003°37.877'W			54°04.583'N	003°32.061'W
A10	54°04.206'N	003°31.474'W	B11	54°04.307'N	003°32.823'W			54°02.300'N	003°33.804'W
A11	54°04.473'N	003°31.990'W	B12	54°04.570'N	003°33.376'W				
B01	54°01.630'N	003°27.670'W	B13	54°04.832'N	003°33.929'W	SUBSTATION COORDINATES		SUBSTATION COORDINATES	
B02	54°01.898'N	003°28.185'W	B14	54°05.094'N	003°34.483'W	54°02.682'N	003°30.153'W	54°04.771'N	003°34.507'W
B03	54°02.166'N	003°28.700'W	B15	54°05.389'N	003°35.106'W	BUOYS COORDINATES		BUOY COORDINATES	
B04	54°02.434'N	003°29.215'W	B16	54°06.311'N	003°37.057'W	54°01.690'N	003°25.920'W	54°07.890'N	003°37.850'W
B05	54°02.702'N	003°29.730'W	B17	54°06.593'N	003°37.652'W				
B06	54°02.969'N	003°30.245'W	B18	54°06.995'N	003°38.503'W	WALNEY 1 EXPORT CABLE		WALNEY 2 EXPORT CABLE	
B07	54°03.237'N	003°30.760'W	C10	54°04.102'N	003°33.734'W	54°01.457'N	002°54.676'W	53°53.254'N	003°03.118'W
B08	54°03.504'N	003°31.276'W	C11	54°04.331'N	003°34.329'W	54°01.389'N	002°54.897'W	53°53.510'N	003°05.871'W
B09	54°03.772'N	003°31.792'W	C12	54°04.559'N	003°34.924'W	54°01.515'N	002°56.292'W	53°53.699'N	003°07.645'W
B10	54°04.040'N	003°32.307'W	C13	54°04.788'N	003°35.518'W	54°01.510'N	002°56.533'W	53°53.844'N	003°09.091'W
C01	54°01.465'N	003°28.502'W	C14	54°05.016'N	003°36.114'W	54°00.960'N	002°57.332'W	53°54.054'N	003°10.365'W
C02	54°01.732'N	003°29.017'W	C15	54°06.043'N	003°37.574'W	54°00.624'N	002°57.785'W	53°54.430'N	003°11.573'W
C03	54°02.000'N	003°29.532'W	C16	54°06.612'N	003°38.890'W	54°00.453'N	002°58.376'W	53°54.716'N	003°12.318'W
C04	54°02.268'N	003°30.047'W	D09	54°03.440'N	003°33.455'W	54°00.352'N	002°59.238'W	53°55.962'N	003°14.732'W
C05	54°02.536'N	003°30.562'W	D10	54°03.694'N	003°34.055'W	54°00.000'N	003°01.031'W	53°56.811'N	003°15.944'W
C06	54°02.803'N	003°31.077'W	D11	54°03.948'N	003°34.655'W	53°59.993'N	003°01.061'W	53°58.251'N	003°18.443'W
C07	54°03.071'N	003°31.593'W	D12	54°04.160'N	003°35.302'W	53°58.547'N	003°04.665'W	53°59.466'N	003°21.166'W
C08	54°03.338'N	003°32.108'W	D13	54°04.378'N	003°36.057'W	53°58.210'N	003°06.288'W	53°59.617'N	003°21.413'W
C09	54°03.606'N	003°32.624'W	D14	54°04.596'N	003°36.812'W	53°58.162'N	003°07.252'W	53°59.937'N	003°22.008'W
D01	54°01.299'N	003°29.333'W	D15	54°05.776'N	003°38.096'W	53°58.503'N	003°08.999'W	53°59.999'N	003°22.138'W
D02	54°01.567'N	003°29.848'W	D16	54°06.018'N	003°38.682'W	53°59.115'N	003°12.048'W	54°00.003'N	003°22.144'W
D03	54°01.835'N	003°30.364'W	D17	54°06.228'N	003°39.276'W	53°59.500'N	003°14.723'W	54°00.912'N	003°24.040'W
D04	54°02.102'N	003°30.879'W	E08	54°03.006'N	003°33.772'W	53°59.726'N	003°15.368'W	54°01.346'N	003°24.911'W
D05	54°02.370'N	003°31.394'W	E09	54°03.285'N	003°34.377'W	53°59.999'N	003°15.912'W	54°01.811'N	003°25.870'W
D06	54°02.637'N	003°31.909'W	E10	54°03.573'N	003°35.002'W	54°00.013'N	003°15.940'W	54°02.820'N	003°28.491'W
D07	54°02.905'N	003°32.424'W	E11	54°03.778'N	003°35.703'W	54°00.696'N	003°17.214'W	54°03.171'N	003°29.215'W
D08	54°03.173'N	003°32.940'W	E12	54°03.870'N	003°36.522'W	54°01.056'N	003°17.859'W	54°03.558'N	003°29.962'W
E01	54°01.133'N	003°30.165'W	E13	54°03.962'N	003°37.341'W	54°01.410'N	003°18.629'W	54°05.212'N	003°33.111'W
E02	54°01.401'N	003°30.680'W	E14	54°04.054'N	003°38.161'W	54°01.389'N	003°18.995'W	54°05.336'N	003°33.294'W
E03	54°01.669'N	003°31.195'W	E15	54°05.522'N	003°38.618'W	54°01.225'N	003°20.355'W	54°05.375'N	003°33.390'W
E04	54°01.936'N	003°31.710'W	F07	54°02.508'N	003°34.135'W	54°01.242'N	003°22.536'W	54°05.393'N	003°33.531'W
E05	54°02.204'N	003°32.225'W	F08	54°02.762'N	003°34.770'W	54°01.492'N	003°24.885'W	54°05.374'N	003°33.663'W
E06	54°02.471'N	003°32.741'W	F09	54°02.988'N	003°35.435'W	54°02.044'N	003°26.149'W	54°05.328'N	003°33.761'W
E07	54°02.739'N	003°33.256'W	F10	54°03.185'N	003°36.125'W	54°03.051'N	003°28.824'W	54°05.240'N	003°33.852'W
F01	54°00.968'N	003°30.996'W	F11	54°03.353'N	003°36.838'W	54°03.192'N	003°29.267'W	54°04.943'N	003°34.081'W
F02	54°01.235'N	003°31.512'W	F12	54°03.490'N	003°37.570'W	54°03.107'N	003°29.618'W	54°04.878'N	003°34.180'W
F03	54°01.503'N	003°32.026'W	F13	54°03.595'N	003°38.316'W	54°02.721'N	003°30.011'W	54°04.804'N	003°34.396'W
F04	54°01.770'N	003°32.541'W	F14	54°03.885'N	003°38.787'W	54°02.681'N	003°30.137'W	54°04.774'N	003°34.485'W
F05	54°02.038'N	003°33.057'W	F15	54°05.268'N	003°39.140'W				
F06	54°02.305'N	003°33.572'W							

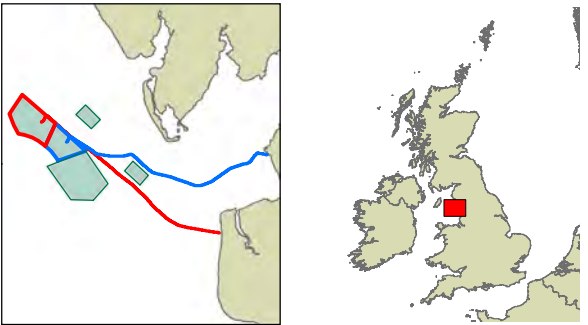
Kingfisher Awareness Chart

3°44'W 3°42'W 3°40'W 3°38'W 3°36'W 3°34'W 3°32'W 3°30'W 3°28'W 3°26'W



DONG energy
Walney 1 & 2 Offshore Wind Farms

- Legend**
- Walney 1 Wind Turbine
 - Walney 2 Wind Turbine
 - Fog Singal
 - Turbine with Marine Lighting Fl.Y5s - 5nm
 - SubStation - Walney 1
 - SubStation - Walney 2
 - Buoy
 - Cable - Electricity Walney 1 & 2
 - Cable - Electricity Walney 1 & 2
 - Cable - Electricity Other
 - Oil & Gas Pipeline
 - Offshore Wind Farm Boundary



Date: July 2015
 Projection: WGS_1984_World_Mercator
 Spheroid: GCS_WGS_1984
 Datum: D_WGS_1984
 Scale: 1:100,000

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EXTENT COORDINATES WALNEY 2		EXTENT COORDINATES WALNEY 1	
54°02.300'N	003°33.804'W	54°00.737'N	003°31.555'W
54°02.802'N	003°35.038'W	54°01.140'N	003°31.977'W
54°03.128'N	003°36.105'W	54°01.780'N	003°32.853'W
54°03.441'N	003°37.478'W	54°02.300'N	003°33.804'W
54°03.572'N	003°38.579'W	54°04.583'N	003°32.061'W
54°04.441'N	003°39.341'W	54°01.776'N	003°26.667'W
54°05.597'N	003°40.170'W	54°00.737'N	003°31.555'W
54°07.603'N	003°37.894'W		
54°04.583'N	003°32.061'W		
54°02.300'N	003°33.804'W		

TURBINE	COORDINATES WALNEY 2	
A12	54°04.741'N	003°32.506'W
A13	54°05.017'N	003°33.039'W
A14	54°05.294'N	003°33.572'W
A15	54°05.570'N	003°34.106'W
A16	54°05.846'N	003°34.639'W
A17	54°06.675'N	003°36.240'W
A18	54°06.951'N	003°36.774'W
A19	54°07.227'N	003°37.308'W
A20	54°07.522'N	003°37.877'W
B11	54°04.307'N	003°32.823'W
B12	54°04.570'N	003°33.376'W
B13	54°04.832'N	003°33.929'W
B14	54°05.094'N	003°34.483'W
B15	54°05.389'N	003°35.106'W
B16	54°06.311'N	003°37.057'W
B17	54°06.593'N	003°37.652'W
B18	54°06.995'N	003°38.503'W
C10	54°04.102'N	003°33.734'W
C11	54°04.331'N	003°34.329'W
C12	54°04.559'N	003°34.924'W
C13	54°04.788'N	003°35.518'W
C14	54°05.016'N	003°36.114'W
C15	54°06.043'N	003°37.574'W
C16	54°06.612'N	003°38.890'W
D09	54°03.440'N	003°33.455'W
D10	54°03.694'N	003°34.055'W
D11	54°03.948'N	003°34.655'W
D12	54°04.160'N	003°35.302'W
D13	54°04.378'N	003°36.057'W
D14	54°04.596'N	003°36.812'W
D15	54°05.776'N	003°38.096'W
D16	54°06.018'N	003°38.682'W
D17	54°06.228'N	003°39.276'W
E08	54°03.006'N	003°33.772'W
E09	54°03.285'N	003°34.377'W
E10	54°03.573'N	003°35.002'W
E11	54°03.778'N	003°35.703'W
E12	54°03.870'N	003°36.522'W
E13	54°03.962'N	003°37.341'W
E14	54°04.054'N	003°38.161'W
E15	54°05.522'N	003°38.618'W
E16	54°05.748'N	003°39.208'W
F07	54°02.508'N	003°34.135'W
F08	54°02.762'N	003°34.770'W
F09	54°02.988'N	003°35.435'W
F10	54°03.185'N	003°36.125'W
F11	54°03.353'N	003°36.838'W
F12	54°03.490'N	003°37.570'W
F13	54°03.595'N	003°38.316'W
F14	54°03.885'N	003°38.787'W
F15	54°05.268'N	003°39.140'W



TURBINE	COORDINATES WALNEY 1	
A01	54°01.796'N	003°26.839'W
A02	54°02.064'N	003°27.353'W
A03	54°02.332'N	003°27.868'W
A04	54°02.599'N	003°28.383'W
A05	54°02.867'N	003°28.898'W
A06	54°03.135'N	003°29.413'W
A07	54°03.403'N	003°29.928'W
A08	54°03.670'N	003°30.444'W
A09	54°03.938'N	003°30.959'W
A10	54°04.206'N	003°31.474'W
A11	54°04.473'N	003°31.990'W
B01	54°01.630'N	003°27.670'W
B02	54°01.898'N	003°28.185'W
B03	54°02.166'N	003°28.700'W
B04	54°02.434'N	003°29.215'W
B05	54°02.702'N	003°29.730'W
B06	54°02.969'N	003°30.245'W
B07	54°03.237'N	003°30.760'W
B08	54°03.504'N	003°31.276'W
B09	54°03.772'N	003°31.792'W
B10	54°04.040'N	003°32.307'W
C01	54°01.465'N	003°28.502'W
C02	54°01.732'N	003°29.017'W
C03	54°02.000'N	003°29.532'W
C04	54°02.268'N	003°30.047'W
C05	54°02.536'N	003°30.562'W
C06	54°02.803'N	003°31.077'W
C07	54°03.071'N	003°31.593'W
C08	54°03.338'N	003°32.108'W
C09	54°03.606'N	003°32.624'W
D01	54°01.299'N	003°29.333'W
D02	54°01.567'N	003°29.848'W
D03	54°01.835'N	003°30.364'W
D04	54°02.102'N	003°30.879'W
D05	54°02.370'N	003°31.394'W
D06	54°02.637'N	003°31.909'W
D07	54°02.905'N	003°32.424'W
D08	54°03.173'N	003°32.940'W
E01	54°01.133'N	003°30.165'W
E02	54°01.401'N	003°30.680'W
E03	54°01.669'N	003°31.195'W
E04	54°01.936'N	003°31.710'W
E05	54°02.204'N	003°32.225'W
E06	54°02.471'N	003°32.741'W
E07	54°02.739'N	003°33.256'W
F01	54°00.968'N	003°30.996'W
F02	54°01.235'N	003°31.512'W
F03	54°01.503'N	003°32.026'W
F04	54°01.770'N	003°32.541'W
F05	54°02.038'N	003°33.057'W
F06	54°02.305'N	003°33.572'W

EMERGENCY CONTACT NUMBER:
08455 441037

NOT TO BE USED FOR NAVIGATION

3°44'W 3°42'W 3°40'W 3°38'W 3°36'W 3°34'W 3°32'W 3°30'W 3°28'W 3°26'W