

### Construction Activities

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 constructed during 2010, then 'Walney 2' will be constructed. 'Walney 1' will be connected to shore and the national grid through an export cable from the offshore substation landing at Heysham.

### Key Programme Dates

Dates	Activity	Vessels
March / April 2010	Scour protection Work	Rolling Stone
April - September 2010	Foundation Installation	Goliath, Taklift, Vagant
May - July 2010	Export Cable Installation	Stemat Spirit
August - December 2010	Interarray Cable installation	Stemat 82
June - December 2010	Turbine Installation	Seajacks Kraken

*Plus numerous tugboats, crew boats, barges and other vessels*

### Advisory Safety Zones

At all times during construction an Advisory Safety Zone of 500m is requested around all installation vessels and a 50m Advisory Safety Zone around each turbine and substation structure after installation. After the installation of the export cable a 200m anchorage exclusion zone is requested. All vessels are requested to respect the Advisory Safety Zones, which as well as reducing the risk of collision damage will provide protection to the installation vessels, the export cables and the wind turbine structures.

### Buoyage

During construction of 'Walney 1', the wind farm perimeter will be marked by four cardinal buoys (positions of all buoys are overleaf). When the construction of 'Walney 2' commences, the buoyage will be revised.

### Vessels

Construction vessels will exhibit the appropriate signals for day and night. Some vessels may have anchors and cables extending out to 500m, and possibly be using diving services. Various tugs and barges will be in the vicinity of the construction site and may be restricted in their ability to manoeuvre. Crew and workboats will also be transporting members of the workforce to and from Barrow, with other construction vessels transiting between the wind farm site and the port of Mostyn.

### Examples of Vessels Involved

<b>'Vagant'</b> <i>Jack Up Vessel</i>	<b>'Stemat Spirit'</b> <i>Export cable lay vessel</i>	<b>'Vulcan'</b> <i>Offshore support vessel</i>	<b>'Seajacks Kraken'</b> <i>Wind turbine installation vessel</i>
			

### Contact Details

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Long 3° 37' West 36' 35' 34' 33' 32' 31' 30' 29' 28' 27' 26' 25' 24' Long 3° 23' West



**BUOY CO-ORDINATES**

**Temporary (Construction Period)**

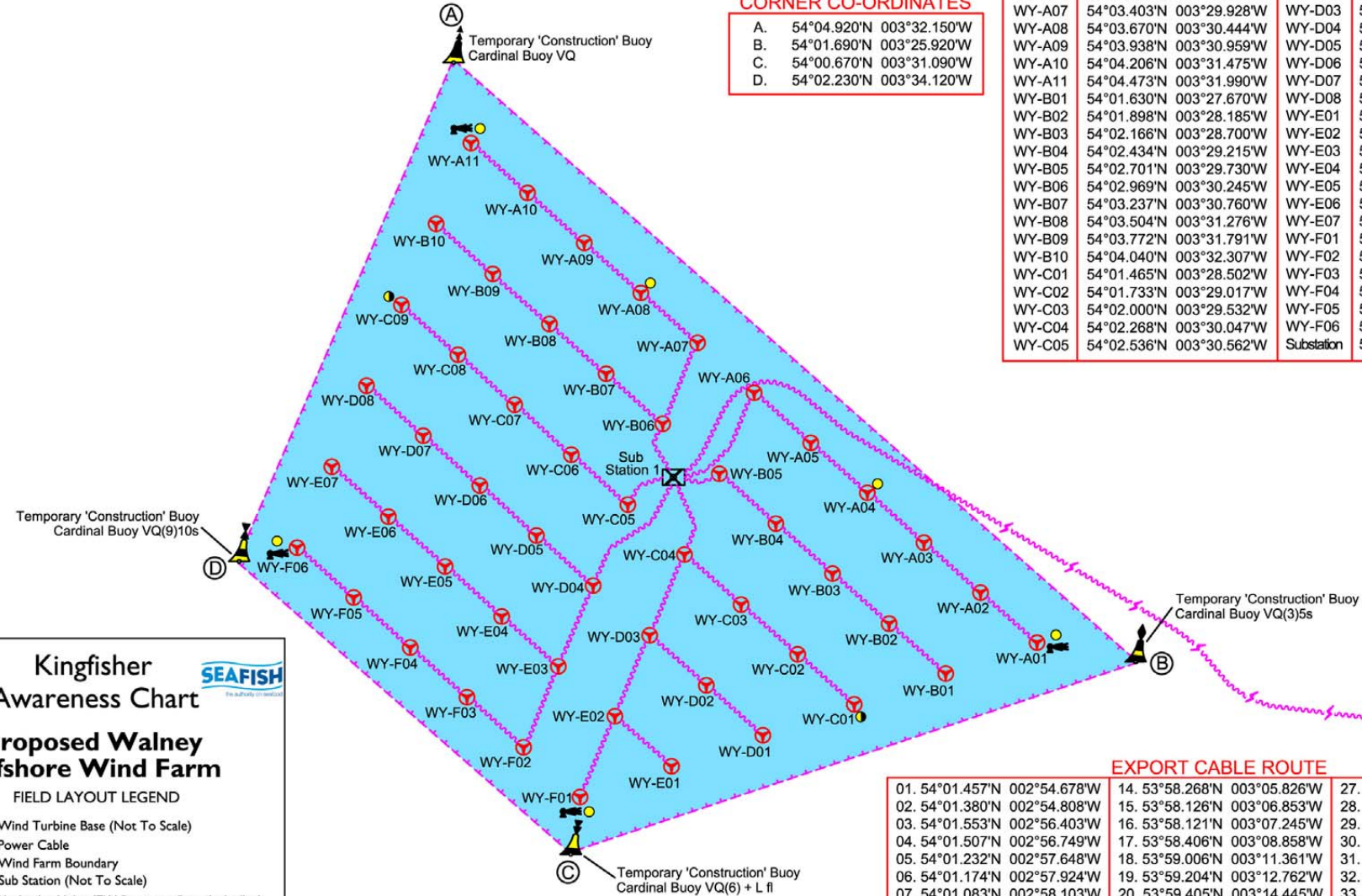
'North' 54°04.920'N 003°32.150'W  
 'East' 54°01.690'N 003°25.920'W  
 'South' 54°00.670'N 003°31.090'W  
 'West' 54°02.230'N 003°34.120'W

**CORNER CO-ORDINATES**

A. 54°04.920'N 003°32.150'W  
 B. 54°01.690'N 003°25.920'W  
 C. 54°00.670'N 003°31.090'W  
 D. 54°02.230'N 003°34.120'W

**TURBINE CO-ORDINATES**

N°	CO-ORDINATES	N°	CO-ORDINATES
WY-A01	54°01.796'N 003°26.839'W	WY-C06	54°02.803'N 003°31.077'W
WY-A02	54°02.064'N 003°27.353'W	WY-C07	54°03.071'N 003°31.592'W
WY-A03	54°02.332'N 003°27.868'W	WY-C08	54°03.339'N 003°32.108'W
WY-A04	54°02.599'N 003°28.383'W	WY-C09	54°03.606'N 003°32.623'W
WY-A05	54°02.867'N 003°28.898'W	WY-D01	54°01.299'N 003°29.334'W
WY-A06	54°03.135'N 003°29.413'W	WY-D02	54°01.567'N 003°29.848'W
WY-A07	54°03.403'N 003°29.928'W	WY-D03	54°01.835'N 003°30.364'W
WY-A08	54°03.670'N 003°30.444'W	WY-D04	54°02.102'N 003°30.878'W
WY-A09	54°03.938'N 003°30.959'W	WY-D05	54°02.370'N 003°31.394'W
WY-A10	54°04.206'N 003°31.475'W	WY-D06	54°02.638'N 003°31.909'W
WY-A11	54°04.473'N 003°31.990'W	WY-D07	54°02.905'N 003°32.424'W
WY-B01	54°01.630'N 003°27.670'W	WY-D08	54°03.173'N 003°32.940'W
WY-B02	54°01.898'N 003°28.185'W	WY-E01	54°01.133'N 003°30.165'W
WY-B03	54°02.166'N 003°28.700'W	WY-E02	54°01.401'N 003°30.680'W
WY-B04	54°02.434'N 003°29.215'W	WY-E03	54°01.669'N 003°31.195'W
WY-B05	54°02.701'N 003°29.730'W	WY-E04	54°01.936'N 003°31.710'W
WY-B06	54°02.969'N 003°30.245'W	WY-E05	54°02.204'N 003°32.225'W
WY-B07	54°03.237'N 003°30.760'W	WY-E06	54°02.471'N 003°32.741'W
WY-B08	54°03.504'N 003°31.276'W	WY-E07	54°02.739'N 003°33.256'W
WY-B09	54°03.772'N 003°31.791'W	WY-F01	54°00.968'N 003°30.997'W
WY-B10	54°04.040'N 003°32.307'W	WY-F02	54°01.235'N 003°31.511'W
WY-C01	54°01.465'N 003°28.502'W	WY-F03	54°01.503'N 003°32.026'W
WY-C02	54°01.733'N 003°29.017'W	WY-F04	54°01.770'N 003°32.542'W
WY-C03	54°02.000'N 003°29.532'W	WY-F05	54°02.038'N 003°33.057'W
WY-C04	54°02.268'N 003°30.047'W	WY-F06	54°02.305'N 003°33.572'W
WY-C05	54°02.536'N 003°30.562'W	Substation	54°02.682'N 003°30.148'W



**Kingfisher Awareness Chart**

**Proposed Walney Offshore Wind Farm**

FIELD LAYOUT LEGEND

- Wind Turbine Base (Not To Scale)
- Power Cable
- Wind Farm Boundary
- Sub Station (Not To Scale)
- Navigation Lights (Fl Y 5s - range 5 nautical miles)
- Navigation Lights (Fl Y 2.5s - range 2 nautical miles)
- Omni Directional Fog Signal

WGS 84 Spheroid - Satellite Datum  
 WOULD SKIPPERS PLEASE PLOT COORDINATES INTO THEIR FISHING PLOTTERS OR ELECTRONIC CHARTS  
 COORDINATE COMPATIBLE WITH GPS SYSTEMS

**EXPORT CABLE ROUTE**

01. 54°01.457'N 002°54.678'W	14. 53°58.268'N 003°05.826'W	27. 54°01.329'N 003°19.369'W
02. 54°01.380'N 002°54.808'W	15. 53°58.126'N 003°06.853'W	28. 54°01.223'N 003°21.045'W
03. 54°01.553'N 002°56.403'W	16. 53°58.121'N 003°07.245'W	29. 54°01.227'N 003°21.394'W
04. 54°01.507'N 002°56.749'W	17. 53°58.406'N 003°08.858'W	30. 54°01.457'N 003°24.724'W
05. 54°01.232'N 002°57.648'W	18. 53°59.006'N 003°11.361'W	31. 54°01.571'N 003°25.092'W
06. 54°01.174'N 002°57.924'W	19. 53°59.204'N 003°12.762'W	32. 54°01.782'N 003°25.394'W
07. 54°01.083'N 002°58.103'W	20. 53°59.405'N 003°14.445'W	33. 54°02.934'N 003°28.589'W
08. 54°00.431'N 002°58.947'W	21. 53°59.488'N 003°14.949'W	34. 54°03.169'N 003°29.102'W
09. 54°00.351'N 002°59.182'W	22. 53°59.551'N 003°15.155'W	35. 54°03.194'N 003°29.337'W
10. 54°00.029'N 003°00.904'W	23. 54°00.165'N 003°16.307'W	36. 54°03.152'N 003°29.534'W
11. 53°59.922'N 003°01.293'W	24. 54°00.935'N 003°17.691'W	37. 54°03.045'N 003°29.692'W
12. 53°58.569'N 003°04.590'W	25. 54°01.412'N 003°18.587'W	38. 54°02.761'N 003°29.942'W
13. 53°58.549'N 003°04.761'W	26. 54°01.417'N 003°18.880'W	39. 54°02.682'N 003°30.137'W

**NOT TO BE USED FOR NAVIGATION**

Lat 54° North

Lat 54° North

Long 3° 37' West 36' 35' 34' 33' 32' 31' 30' 29' 28' 27' 26' 25' 24' Long 3° 23' West