

Description

Thanet Offshore Wind Farm ("TOW") is located approximately 12 km off Foreness Point, Margate, and the most eastern part of Kent.

The wind farm has been operational since 2010 and consists of 100 Vestas V90 3MW wind turbines, with a combined capacity of 300MW. Two export cables are installed and come ashore at Pegwell Bay, Ramsgate.

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.

Contact Details

EMERGENCY CONTACT NUMBER:
+44 (0) 1843 572 136

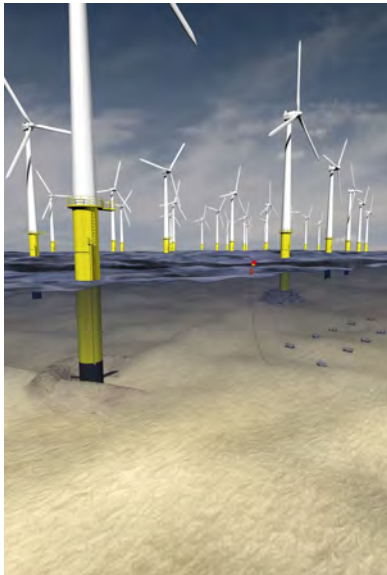
Dangers of Renewable Energy Structures & Cables to Fishing

Renewable Energy Structures and Subsea Cables are a hazard and fishing over them should be avoided at all times. Heavily armoured cables used within the subsea cable and renewable energy industry are very strong and have high breaking strains, sometimes over 70 tonnes and can do extensive damage before they give way. Most modern subsea cables carry high voltages which could prove lethal if attempts are made to cut them.

Fibre Optic cable consists of an inner optical core encased within a copper clad high tensile steel wire rope insulated with polythene. In water less than 1500 meters deep, protection is added against fishing and anchor damage in the form of external steel wire armour. Due to the severe environmental demands placed on submarine cables, a lead-alloy sheath is often specified because of its compressibility, flexibility and resistance to moisture and corrosion. The sheath is usually covered by a number of outer layers, comprising a PE or PVC jacket and metal wire armouring.

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.



The KIS-ORCA Project

The Kingfisher Information Service - Offshore Renewable & Cable Awareness project (KIS-ORCA) is a joint initiative between Subsea Cables UK and RenewableUK and is being managed by the Kingfisher Information Service of Seafish.

Offshore wind farms, renewable energy structures and subsea cables are increasing in number around the shores of the UK. The potential risks these structures may cause to fishermen is significant and the KIS-ORCA project aims to ensure these are managed in a responsible way.

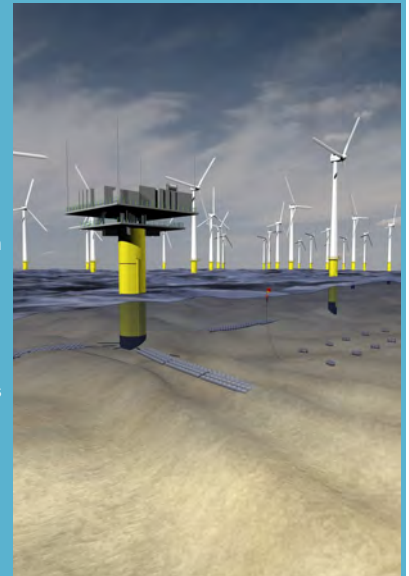
It is against the law to wilfully damage a subsea cable. To enable fishermen to continue to work safely in the

vicinity of subsea cables and renewable energy structures, KIS-ORCA provides fishermen with information and accurate positions of all these offshore structures.

KIS-ORCA information is made available as fishing plotter files and awareness charts for use on vessels and on www.kis-orca.eu, where information may be viewed and downloaded.

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.



Reducing the Risks whilst Fishing

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If it is thought prudent to slip, or cut your fishing gear in an attempt to clear a subsea structure, always lower the gear to the seabed first. Never attempt to slip anything bearing excessive weight.

Claims for loss of gear should be made to the appropriate authority within 24 hours of arrival in port. Full particulars of the incident should be given and full details recorded in the vessel's official log, date and exact time, the vessel's position (VMS if suitable), depth of water and a description of the cable if sighted.

Claims for loss will only be considered if current KIS-ORCA data is installed on your vessel's fishing plotter.

Kingfisher Awareness Chart

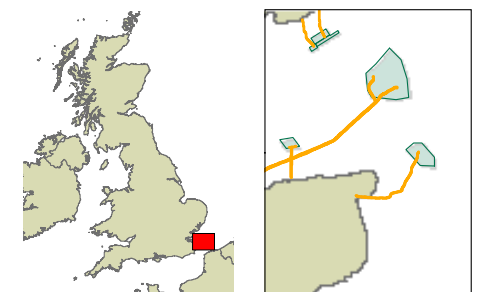
1°32'E 1°33'E 1°34'E 1°35'E 1°36'E 1°37'E 1°38'E 1°39'E 1°40'E 1°41'E 1°42'E 1°43'E 1°44'E



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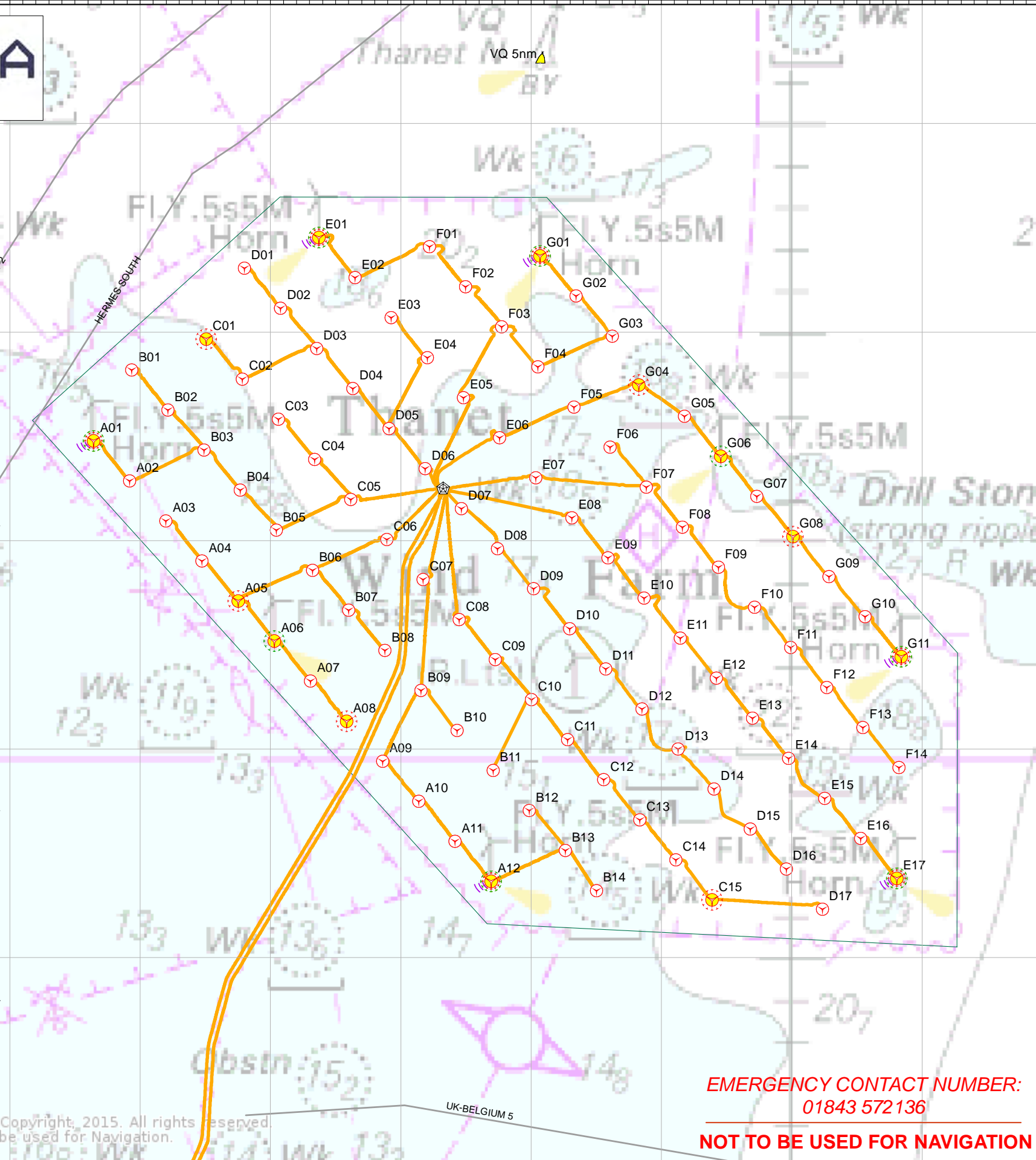
Thanet Offshore Wind Farm

- Legend**
- Fog Signal
 - Wind Turbine with Marine Lighting FLY5s
 - Wind Turbine with Marine & Aviation Light
 - Wind Turbine with Aviation Light
 - Wind Turbine
 - SubStation
 - Buoy
 - Out of Service Subsea Cable
 - Cable - Electricity
 - Offshore Wind Farm Boundary



Date: January 2015
 Projection: WGS_1984_World_Mercator
 Spheroid: GCS_WGS_1984
 Datum: D_WGS_1984
 Scale: 1:65,000

This data is issued as a guide only. Seafish, cable / structure owners and Distributors accept no responsibility for any inaccuracies however caused. Please be aware that other structures & cables may exist in addition to those shown on this chart.
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BUOY COORDINATE	
51°28.290'N	001°38.070'E

EXTENT COORDINATES	
51°24.051'N	001°41.267'E
51°24.162'N	001°37.662'E
51°26.577'N	001°34.174'E
51°27.647'N	001°36.072'E
51°27.647'N	001°38.121'E
51°25.461'N	001°41.274'E
51°24.051'N	001°41.267'E

TURBINE	COORDINATES	TURBINE	COORDINATES
A01	51°26.479'N 001°34.642'E	D10	51°25.578'N 001°38.296'E
A02	51°26.287'N 001°34.919'E	D11	51°25.385'N 001°38.573'E
A03	51°26.095'N 001°35.197'E	D12	51°25.193'N 001°38.851'E
A04	51°25.903'N 001°35.474'E	D13	51°25.001'N 001°39.128'E
A05	51°25.711'N 001°35.752'E	D14	51°24.809'N 001°39.404'E
A06	51°25.519'N 001°36.029'E	D15	51°24.617'N 001°39.682'E
A07	51°25.327'N 001°36.307'E	D16	51°24.425'N 001°39.959'E
A08	51°25.134'N 001°36.584'E	D17	51°24.232'N 001°40.236'E
A09	51°24.942'N 001°36.861'E	E01	51°27.454'N 001°36.371'E
A10	51°24.750'N 001°37.138'E	E02	51°27.262'N 001°36.649'E
A11	51°24.558'N 001°37.416'E	E03	51°27.070'N 001°36.926'E
A12	51°24.366'N 001°37.693'E	E04	51°26.878'N 001°37.204'E
B01	51°26.819'N 001°34.935'E	E05	51°26.686'N 001°37.481'E
B02	51°26.627'N 001°35.213'E	E06	51°26.494'N 001°37.758'E
B03	51°26.435'N 001°35.490'E	E07	51°26.302'N 001°38.036'E
B04	51°26.243'N 001°35.768'E	E08	51°26.110'N 001°38.313'E
B05	51°26.051'N 001°36.045'E	E09	51°25.918'N 001°38.590'E
B06	51°25.858'N 001°36.323'E	E10	51°25.725'N 001°38.867'E
B07	51°25.667'N 001°36.600'E	E11	51°25.533'N 001°39.145'E
B08	51°25.474'N 001°36.878'E	E12	51°25.341'N 001°39.422'E
B09	51°25.282'N 001°37.155'E	E13	51°25.149'N 001°39.699'E
B10	51°25.090'N 001°37.432'E	E14	51°24.956'N 001°39.976'E
B11	51°24.898'N 001°37.709'E	E15	51°24.764'N 001°40.253'E
B12	51°24.706'N 001°37.986'E	E16	51°24.572'N 001°40.529'E
B13	51°24.514'N 001°38.263'E	E17	51°24.380'N 001°40.806'E
B14	51°24.321'N 001°38.540'E	F01	51°27.410'N 001°37.220'E
C01	51°26.967'N 001°35.506'E	F02	51°27.218'N 001°37.497'E
C02	51°26.775'N 001°35.784'E	F03	51°27.026'N 001°37.774'E
C03	51°26.583'N 001°36.061'E	F04	51°26.834'N 001°38.052'E
C04	51°26.390'N 001°36.339'E	F05	51°26.641'N 001°38.329'E
C05	51°26.198'N 001°36.616'E	F06	51°26.449'N 001°38.606'E
C06	51°26.006'N 001°36.893'E	F07	51°26.257'N 001°38.884'E
C07	51°25.814'N 001°37.171'E	F08	51°26.065'N 001°39.161'E
C08	51°25.622'N 001°37.448'E	F09	51°25.873'N 001°39.438'E
C09	51°25.430'N 001°37.725'E	F10	51°25.681'N 001°39.715'E
C10	51°25.238'N 001°38.003'E	F11	51°25.488'N 001°39.992'E
C11	51°25.046'N 001°38.280'E	F12	51°25.296'N 001°40.269'E
C12	51°24.854'N 001°38.557'E	F13	51°25.104'N 001°40.546'E
C13	51°24.661'N 001°38.834'E	F14	51°24.912'N 001°40.823'E
C14	51°24.469'N 001°39.111'E	G01	51°27.366'N 001°38.068'E
C15	51°24.277'N 001°39.388'E	G02	51°27.174'N 001°38.345'E
D01	51°27.307'N 001°35.800'E	G03	51°26.981'N 001°38.623'E
D02	51°27.115'N 001°36.077'E	G04	51°26.789'N 001°38.899'E
D03	51°26.922'N 001°36.355'E	G05	51°26.597'N 001°39.177'E
D04	51°26.730'N 001°36.632'E	G06	51°26.405'N 001°39.455'E
D05	51°26.538'N 001°36.910'E	G07	51°26.213'N 001°39.732'E
D06	51°26.346'N 001°37.187'E	G08	51°26.020'N 001°40.009'E
D07	51°26.154'N 001°37.465'E	G09	51°25.828'N 001°40.286'E
D08	51°25.962'N 001°37.742'E	G10	51°25.636'N 001°40.563'E
D09	51°25.770'N 001°38.019'E	G11	51°25.444'N 001°40.840'E

EMERGENCY CONTACT NUMBER:
01843 572136

NOT TO BE USED FOR NAVIGATION

1°32'E 1°33'E 1°34'E 1°35'E 1°36'E 1°37'E 1°38'E 1°39'E 1°40'E 1°41'E 1°42'E 1°43'E 1°44'E

PLEASE KEEP CLEAR OF AND DO NOT DAMAGE SUBSEA CABLES THESE CABLES CARRY HIGH VOLTAGES AND CAN BE DANGEROUS TO LIFE IT IS AN OFFENCE TO WILFULLY DAMAGE SUBSEA CABLES