

# Renewable Energy



**P2 Offshore Consulting** is an acknowledged industry leader in the field of submarine cables and has been actively involved in many of the world's major projects in the telecommunications, power and renewable energy sectors. **P2 Offshore Consulting** provides its customers with a unique insight into the complexities of operating in the offshore environment based on over 20 years of hands on industry knowledge and experience.

## **Experienced Personnel**

**P2 Offshore Consulting's** team of consultants have many years of experience within the offshore survey, cable laying and oil & gas industries. Using that expertise, we provide technical and commercial consultancy services and project management to our customers worldwide.

Our team has contributed to high profile projects in the renewable energy sector over the last 10 years. Our representatives have been an integral part in the design, survey, installation and ongoing maintenance of many of Europe's wind farm projects. **P2 Offshore Consulting** provides multi-disciplinary consultants to advise the customer on all aspects of marine operations, from cable manufacture and testing to marine survey and installation, through to system commissioning and ongoing operations and maintenance.

## **Feasibility Studies**

We are industry leaders in conducting feasibility studies for submarine cable projects. We have written desk top studies for a number of cables from simple point to point systems through to large multi-country networks. Our experience covers the detailed risk analysis of natural and man-made marine hazards; route selection based on environmental and regulatory assessment and de-confliction with existing cable systems and subsea plant. Our expertise includes terrestrial landing point site selection and detailed subsea route engineering to ensure that the customer benefits from a safe, cost effective and fully optimized route that will be able to withstand the rigours of subsea placement over the life cycle of the project. We have produced high quality documentation for many of the major cable installers and manufacturers and our knowledge has a worldwide focus.

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## Wind Farm Layout Design

**P2 Offshore Consulting's** consultants have played an active role in the design of offshore wind farms, creating a detailed layout plan of the wind turbine positions; associated interconnectors and export cables. Our consultants are highly experienced surveyors, geologists, engineers and oceanographers with a deep understanding of the marine environment and the related risks to offshore construction. The framework of the design process is a Geographical Information System (GIS), which graphically displays a wide variety of databases including Admiralty charts, existing seabed construction, detailed seabed surveys, marine archaeology and shipwrecks, UXO, fishing grounds and metocean (wind and wave). **P2 Offshore Consulting** uses the industry standard MakaiPlan software for engineering the cable routes, computing cable quantities and managing the survey and installation of the windfarm export and interconnector cables.

## An Experienced Track Record

- Walney Extension Offshore Wind Farm
- Galloper
- Rampion Offshore Wind Farm
- Tidal Energy concept proof project
- West of Duddon Sands
- Baltic 2
- Sakhalin III Kirinskoye
- Gwynt-Y-Mor
- Ormonde and Walney
- London Array
- Dogger Bank
- Hohe See
- Humber
- Teesside
- Dan Tysk
- BARD 1 ROV
- North Delta I & II
- Arkona
- Arklow Bank
- Lid & Lincs
- Scroby Sands
- Robin Rigg
- BRITNED ROV
- Rhyl Flats
- Sheringham Shoal
- Greater Gabbard



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