

Desk Top Studies



P2 Offshore Consulting's desk top studies provide a valuable resource of information for use in the planning, route selection and pre-installation engineering of submarine cable systems. Our consultants use their in-depth industry knowledge to enable the development of economically viable and objectively safe cable routes, by investigating the potential effects of man-made and natural hazards to the life cycle of the cable system.

P2 Offshore Consulting applies a holistic approach to cable system planning, taking into consideration the proposed cable system's interaction with the seabed and existing infrastructure. Our desk top study process begins with an assessment of the initial route provided by the customer and the identification of possible sources of risk (both natural and man-made).

Using worldwide databases, our consultants plan the cable route to de-conflict with other cable systems and marine hazards, providing a safe yet economic solution to achieving system diversity and safety. We adhere to the recommendations of the International Cable Protection Committee (ICPC) to ensure that cables can be installed, repaired and maintained without compromise.

Desk top study information is obtained by consulting on a variety of commercially available databases, academic papers and industry guidelines including seabed bathymetry, seafloor and shallow seabed geomorphology, ocean currents, meteorology, tides and maritime activity. This information is supplemented by **P2 Offshore Consulting's** comprehensive practical knowledge of the survey and installation of existing cable systems over the last 20 years.



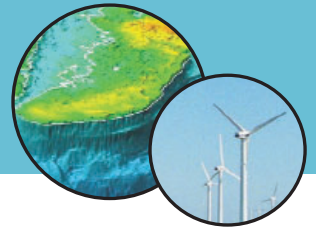
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Desk Top Studies



Desk top studies typically include:

- Marine Physiography and Geology
- Maritime Meteorology and Oceanography
- Offshore Activities and Hazards
Fishing, Oil/Gas Activity, Shipping Activity, Shipwrecks and Seabed Obstructions, Marine Tourist Activity, Flora and Fauna and Marine Migrations
- Cable Landing Sites
- Permitting and Environmental Law
- Route Engineering and Cable Armor Selection
- Assessment of Burial Potential
- Route Planning Charts and GIS Data

Site Visits

As part of the desk top study, **P2 Offshore Consulting** undertakes site visits to the proposed countries to identify potential locations close to the customers' point of presence. The site visit investigates suitable beach landings, suitability of terrestrial infrastructure and the proximity of existing cable landing stations. During this phase of the study, up to date information is gathered from a variety of sources including:

- Local Authorities and Government Agencies
- Port Authorities and Harbor Masters
- Academic and commercial research specialists
- Marine Stakeholders
Fishing companies and fishermen, Oil/Gas operators, Dredging companies, Shipping agents and vessel owners

Permits

We are acknowledged experts in marine permitting and can provide detailed up to date information on the full range of permits required for the project, from Operator's Licenses, Permits in Principle, Environmental requirements and permits for marine operations.

An Experienced Track Record

P2 Offshore Consulting has undertaken several desk top study projects for our customers. Our track record covers all parts of the world and a variety of submarine cable systems for the telecom and power sectors. We have conducted studies for small point to point cable systems through to complex transoceanic networks.

- Red Sea
- North Atlantic (UK to USA)
- Australia
- Caribbean
- Gulf of Oman area
- Japan to USA
- UK/Portugal/Mediterranean Basin/Egypt
- France to Egypt
- Cyprus to Egypt

