

# Power Stations

## About

Power stations pose particular challenges to designers, engineers and managers due to their coastal locations, high development cost and long life cycle.

ABPmer is a leading marine environmental consultancy and a recognised provider of specialist services to the energy sector, including coal, oil and gas power stations. These services are also transferable to power stations reliant on less conventional fuel sources, including biomass plants.

Our long standing experience and associated portfolio mean we can offer our clients a wide range of services tailored to meet their needs.



South Humber Bank Power Station



Roosecote Power Station

## Our Services

With over 60 years experience in coastal and marine development, ABPmer combines expert knowledge with practical understanding to offer a suite of tailor-made services and skills to assist the power station industry in meeting their objectives.

### Coastal and Flood Risk Management

Managing the risk posed by flooding or erosion both now and in the future requires the application of sound science throughout a development's lifecycle. ABPmer has considerable experience in supporting flood risk management through a combination of strategic coastal process investigations coupled with local hydrodynamic, wave and tidal modelling.

## Consents and Licensing Support

Planning decisions demand a high level of expert information. ABPmer offers services and skills to assist developers through the process and obtain the necessary marine consents and licenses; from scheme concept and design to its implementation and impact monitoring.

## Sediment Movement and Coastal Change

Understanding how the coastal zone will evolve with a changing climate is fundamental to effectively managing risk. ABPmer's experienced modelling team uses a number of evolution modelling techniques to determine the response of estuaries and coasts to environmental and physical change.

## Plume Dispersion & Water Quality

Understanding the evolution of discharge plumes in the marine environment is fundamental when undertaking environmental impact assessments associated with industrial cooling water discharges. Enhanced by data visualisation tools including animations and graphical representation, ABPmer can provide a range of 2D and 3D modelling services that take account of potential influencing factors such as plume momentum and nearfield mixing processes to assess different intake/outfall configurations, under a range of scenarios.



Great Yarmouth Power Station

All photos by Skyscan and courtesy of Industcards

## Further Information

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