

# Natural Power Offshore Ecology Services



Our team provides all elements of offshore ecology and environmental consultancy services, including surveys, ecological advice, Environmental Impact Assessment (EIA) and Marine Licence compliance. The team includes dedicated experts in the fields of benthic and intertidal habitats, fish ecology, offshore ornithology and marine mammals.

## Our services include:

- Feasibility and scoping studies
- Desk-based literature review
- Ecological surveys
- Data management, statistical analysis and modelling
- GIS (geographic information system) services
- Production of technical reports
- EIA and Environmental Statement (ES) chapter production
- Habitats Regulations Appraisal/Assessment (HRA)
- Cumulative Impacts Assessment (CIA)
- Marine Licence applications, compliance advice and documentation
- Provision of expert advice for consenting and discharge of planning conditions
- Industry, government, stakeholder, and developer group representation
- Production of survey/monitoring plans and negotiation with statutory nature conservation bodies and regulators
- Expert technical review and quality assurance
- Provision of environmental training for contractors

- Providing ad hoc reports and species/habitat specific assessments
- Ecological due diligence
- Expert witness

## Benthic and Fish Services

- Surveys:
  - Habitat prediction and discrimination from geophysical survey data
  - Survey design – for characterisation, mapping and monitoring of habitats
  - Benthic grab and epibenthic beam trawl surveys
  - Commercial fishing surveys (trawling, set nets, potting)
- Intertidal shellfish surveys/biomass assessments
- Fish and shellfish identification
- Electro-sensitive fish surveying
  - Drop Down Video and ROV surveys (for habitat surveys and offshore infrastructure inspection)
  - Contaminated sediment surveys
  - Suspended sediment surveys
  - Intertidal biotope mapping
  - Sabellaria reef mapping, monitoring and assessment
  - Annex I reef survey and assessment



**50+**

in-house  
ecologists

**15yrs**

offshore ecology  
experience

**13**

offices  
worldwide

# Natural Power Offshore Ecology Services



- Seagrass and macro-algal surveys
- Data analysis/assessments:
  - Detailed statistical analysis of benthic and natural fish data using PRIMER
  - Water Framework Directive classification for marine benthic habitats
  - Habitat mapping using statistical outputs, geophysical data interpretation and GIS
  - Sandeel habitat assessment
  - Herring larvae/spawning assessment
  - Migratory fish assessments
- Specific documentation/additional licensing requirements:
  - Electro-magnetic field studies
  - Biodiversity risk assessments / biosecurity plans
  - Suspended sediment reports

## Ornithological and Marine Mammal Services

- Surveys:
  - Aerial surveys
  - Shore and boat based visual bird and marine mammal surveys
  - Radar surveys
  - Integrated Ornithological Monitoring Plans (IOMPs)
  - Design of static acoustic monitoring (C-POD) arrays
  - Collection and analysis of marine mammal acoustic data
  - Provision of Marine Mammal Observers (MMO) and Passive Acoustic Monitoring (PAM) operators
- Data analysis
  - Collision Risk Modelling (CRM)
  - Displacement assessment
  - Population modelling including PBR and PVA
  - Analysis of post-construction data
- Specific documentation/additional licensing requirements:
  - Marine Mammal Protection Plans, and Species Protection Plans
  - European Protected Species (EPS) risk assessment and derogation licence application

## Our Clients

- Energy companies
- Central government/government agencies
- Statutory nature conservation bodies
- Marine cable companies
- Ports and harbours
- Environmental consultancies and survey companies



For more information contact:

**Jane Lancaster**

Principal Marine Ecologist

[janel@naturalpower.com](mailto:janel@naturalpower.com)

