

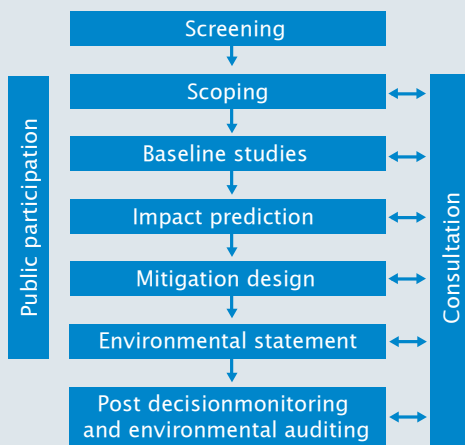
Mott MacDonald is a global management, engineering and development consultancy. With an annual turnover exceeding US\$1.5 billion, we combine the skills of 13 000 staff with work in over 120 countries. Our in-house resource of over 300 environmental consultants, scientists and planners work with designers and project managers in all engineering disciplines to provide a truly multi-disciplinary service.



## Energy sector environmental impact assessment

### Project environmental impact assessment (EIA)

EIA is an integral part of the planning and design of new developments that can adversely affect the physical and social environment. EIA is a pre-requisite to obtaining planning permission or funding for major developments world-wide, whether driven by national legislation and regulations and/or by the policy of a major lending institution (eg Equator Principles). At Mott MacDonald, helping our clients achieve the highest possible standards of environmental assessment and responsibility is intrinsic to everything we do.



### Our services

With over 20 years' experience in the field of EIA, Mott MacDonald is a world-wide industry leader. Over the last two decades we have undertaken more than 100 EIAs and environmental reviews across the conventional generation (coal, oil, gas), energy from waste and renewable energy (wind, wave, biomass) sectors.

Our resources are readily available from over 30 centres across the UK and in some 50 countries world-wide, meaning we can respond quickly and effectively to all your project demands.



Our global portfolio of work incorporates all aspects of environmental assessment including:

- Scoping studies
- Environmental statements
- Environmental modelling
- Development planning
- Lender's advisory services
- Environmental surveys
- Strategic environmental assessment
- Public consultation
- Environmental management planning
- Public inquiries



#### Contact us

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MacDonald

#### Specific capabilities

As a totally independent multi-disciplinary consultant, we have a wealth of expertise in all environmental services. Our in-house capabilities extend to:

- EIA project management
- Air quality analysis
- Noise modelling
- Ecological and ornithological surveys
- Landscape and visual analysis
- Traffic, access and transportation surveys
- Hydrological, hydrogeological and geological analysis
- Environmental risk assessments
- Environmental audits and site inspections
- Socio-economic impact analysis
- Planning and consents work
- Wind resource assessments
- Flood risk mapping
- Contaminated land investigations
- Waste management assessments

Our staff work with planners to identify the environmental constraints and potential impacts at the outset of a project. We then work alongside designers to identify opportunities for environmental enhancement and mitigation and build them into the scheme from the bottom up.

#### Recent project experience

EIAs for energy and infrastructure developments include:

##### Hare Hill wind farm extension, UK

A 33 MW extension to the existing Hare Hill wind farm in Scotland. This included assessing the cumulative impact of 50 proposed, planned and operational wind farms.

##### Bacton to Balgzad gas pipeline, UK

Undertook the EIA and licensing of a proposed 36" treated gas pipeline delivering gas from the Netherlands to England. Coastal defence and noise proved to be key issues for the development of the project.

##### Umm al Nar independent power and water project, United Arab Emirates

An EIA was undertaken for the proposed redevelopment of the Umm Al Nar power and desalination plant. The issues addressed included air quality, water quality, site investigation and noise.

##### Tilbury biomass plant, UK

EIA including scoping, carbon assessment and sustainability appraisal for a 60 MW biomass and biomass processing plant. Key issues included air quality, transport and visual impacts.

##### Khartoum North power station extension, Sudan

EIA to extend a 180 MW oil-fired power station to 380 MW and address impacts to ambient air quality, discharges to the River Nile and the effects on local residents of noise and construction.

##### St Louis Power Station, Mauritius

EIA for redevelopment of a 36 MW diesel power plant to replace life expired engines. Location of the plant near residential areas focussed the assessment on the impact on local air quality and noise.

##### Immingham combined heat and power (CHP) plant, UK

EIA including the production of a scoping report, environmental statement, non-technical summary and planning benefits statement to support Section 36, Section 14 and pollution prevention and control permits for plant development.