

Marine Services

Aquatera uses its specialist knowledge and understanding of complex marine environments, supporting clients to harness marine resources from around the world.

Aquatera employs a dedicated and highly skilled team of staff and associates to deliver support for a variety of projects on a local, national and international level. We also work with a number of closely allied delivery partners to provide key expertise and added capacity. Aquatera's experienced team also have core skills in marine science and offshore/maritime engineering and can therefore provide expert input across a wide range of technical areas.

As a result of an expansive portfolio of marine projects, Aquatera is:

- A leading global service provider to the wave and tidal energy sectors.



- Recognised for its international experience of offshore oil and gas operations spanning a number of continents.
- Prominent in Scotland and the wider UK, in terms of marine licensing and wider marine spatial planning activities.
- Widely respected as an authoritative source of information, ideas and solutions to marine resource management issues.

Our approach:

- Our broad environmental perspective covers the full spread of environmental interactions including how these may impact on proposed and existing developments.
- We consider the environment broadly to include physical, ecological, heritage, social, economic and infrastructure issues.
- We always establish a clear understanding of all the issues, evaluate the full range of possible solutions and articulate these clearly and consistently to all stakeholders and clients.

Sectors we work in:

- Wave and tidal energy
- Offshore wind
- Oil and gas (exploration, production and decommissioning)
- Cables and pipelines (array cabling, distribution cables, AC and DC transmission cables, oil pipelines, gas pipelines)
- Fishing and aquaculture (demersal and pelagic, salmon and shellfish)
- Shipping (merchant, ferries, military etc)
- Ports and dredging
- Heritage management (ecological, archaeological, cultural)

Services we provide:

- Strategic assessment and planning
 - Strategic Environmental Assessment (SEA)
 - Cumulative impact assessment
 - Marine spatial planning
 - Resource assessment
 - Site and route selection
- Environmental and technical surveys
 - Bathymetry and seabed conditions
 - Hydrography and resource characterisation
 - Protected habitats and species
 - European Seabirds At Sea (ESAS) bird surveys and marine mammal observations
 - Wrecks and submerged archaeology
 - Seascape, Landscape and Visual Impact Assessment (SLVIA) Seascape analysis
 - Sea user activity / vessel traffic (AIS/VMS)



- Project assessment and licensing
 - Development planning and design
 - Regulator and stakeholder liaison
 - Option evaluation and scoping
 - Public and community engagement
 - Environmental Impact Assessment (EIA), Environmental Issue Identification (ENVID), Environmental Risk Assessment (ERA) and Habitats Regulations Appraisal processes (HRA)
 - Mitigation, management and monitoring plans
 - License application and negotiation
- Technology development and operations management
 - Technology readiness assessment
 - Technology due diligence
 - Hazard Identification and Risk Assessment (HIRA)/ HAZID and risk assessment
 - Project risk management
 - Health and Safety management
 - Construction Design and Management Regulations (CDM) co-ordination role
 - Reputation management

Key projects:

EIA for offshore pipelines associated with the Magnus EOR project (BP, 2000-2002)

EIA for STS operations in Firth of Forth (Melbourne shipping/Forth Ports, 2004-2005)

Highland Renewable Energy strategy and resource assessment, including offshore wind, wave & tidal energy (The Highland Council, 2006)

Ecological impact scoping tool for marine energy projects (Scottish Government, 2008-present)

EIA for tidal energy projects in the Pentland Firth and Orkney Waters (PFOW) round (SSER/Open Hydro/Scotrenewables, 2009 - present)

Support for tidal turbine installation (Voith Hydro, 2009-present)

Oregon wave energy: cumulative impact assessment tool (Oregon Wave Energy Trust (OWET), 2010)

EIAs to support marine license applications for subsea HVDC cables, Caithness to Moray, Shetland to Caithness (SHETL, 2010-present)

EIA for dredging operations and port development for Future Growth Project, Tengiz, Kazakhstan (TCO, 2011 and ongoing)

Evaluation of support vessel performance for marine energy projects (Scottish Government, 2013)

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