



The Marine Energy cluster at UHI
is a multi-disciplinary grouping of
international researchers.



an estimated
206
gigawatts (GW)

of offshore wind,
wave and tidal
resource in Scottish
waters; almost 40%
of the UK total¹.

*"Linking natural and social sciences with the key
development challenges of marine energy."*

Resource and risk:

- Tidal resource assessment
- Wave climate assessment
- Device-environment interaction (including turbulence and array effect)
- Weather windowing
- Wave forecasting
- Sensor deployment.

- Acoustic footprint of devices
- Bio fouling, smothering and burial
- Reef effects of offshore structures
- Ecosystem impacts of devices
- Survey techniques for wave and tidal sites.

**Understanding the effects
of marine renewable energy
devices on the environment
and ecology:**

- Interaction of fish with devices
- Migratory species (focus on salmon)
- Seabird ecology
- Collision risks with marine life

**Understanding the social,
economic and policy dimensions
of marine renewable energy:**

- Marine spatial planning
- Ecosystem services
- Environmental monitoring
- Social capital and the resilience of remote maritime communities
- Evaluating energy policies.

MARINE ENERGY: Research themes

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University of the
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Oilthigh na Gàidhealtachd
agus nan Eilean



Highlands and Islands Enterprise
Iomairt na Gàidhealtachd 's nan Eilean

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