

Prioritisation of marine renewables research



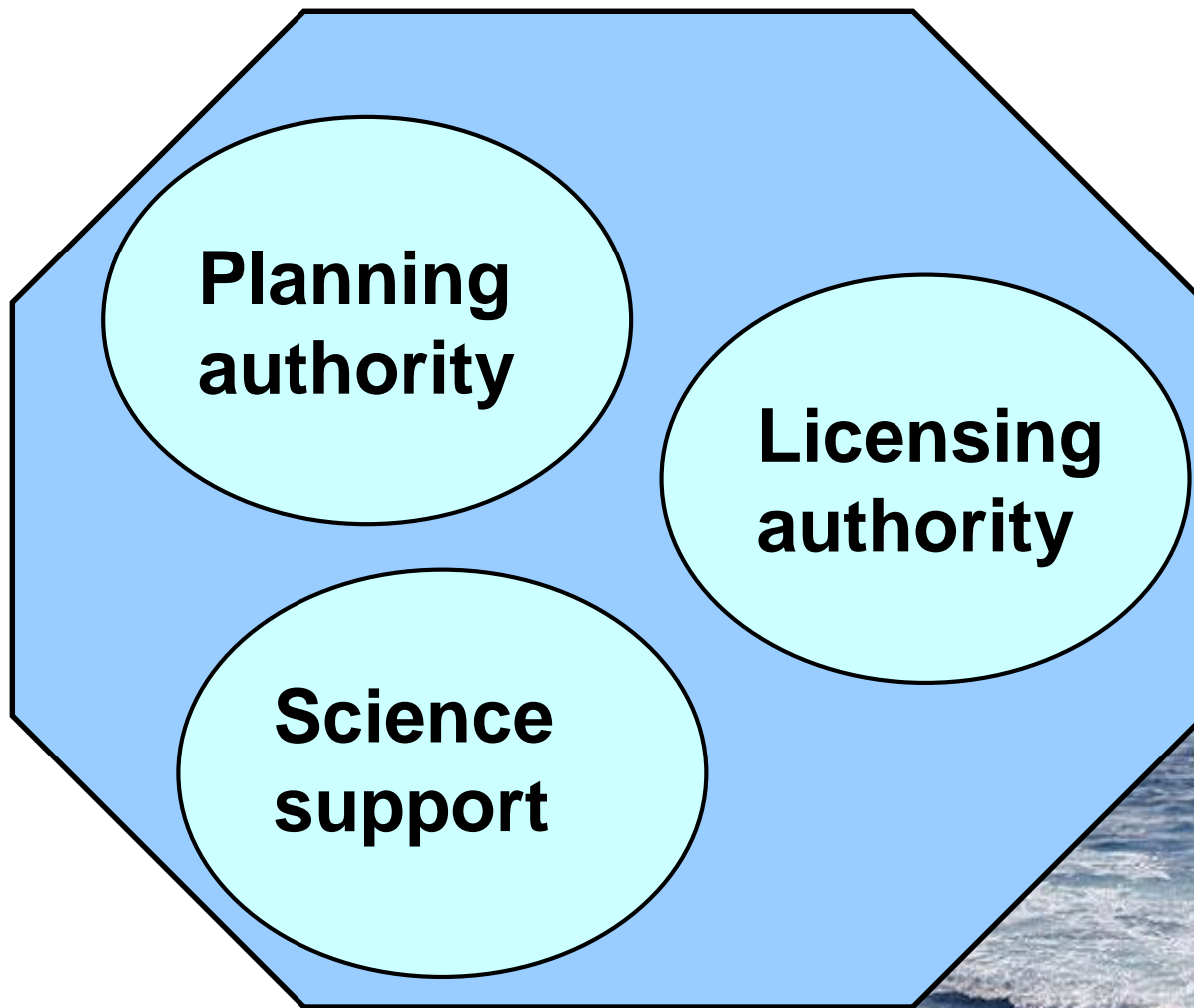
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marinescotland
science

Marine Scotland's roles in renewable energy



History

COWRIE

DEFRA Research Advisory Group

Strategic Ornithological Support Services

NERC

FLOWBEC, RESPONSE, 2 others

Need access to, or drive towards, funding

Need clear steer from stakeholders

Need wide stakeholder buy-in

Needs continuity

ORJIP wind

Initially funded by TCE, DECC and MS

Industry to define priorities and develop projects

Transferred management to Carbon Trust

One large project funded on bird collision

Smaller project on acoustic deterrents

Developing a project on porpoise response to piling

ORJIP Ocean Energy

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science

Contracted to experienced renewables consultancy

Wide engagement with stakeholders, very open to ideas

Seeking consensus

Very active leadership, using initiative

Developing international links

Basis for additional funding (small) to do useful things

No significant practical project funding

SPORRAN

Marine Scotland initiative

Developing evidence maps to support marine renewables

Process includes MS scientists, MS licensing, academics, developers, consultants, SNCBs,

Ornithology

Marine Mammals

Benthic ecology

Social and economics

Fish and fisheries

Diadromous fish

Physical processes

SPORRAN outputs

Theme 1. Increasing baseline understanding of marine ecosystems.

Reduce uncertainty and increase baseline understanding of marine ecosystems in relation to marine planning and licencing of offshore renewables through innovative monitoring / modelling solutions and data sharing initiatives.

Theme 2. Detecting impacts and avoidance behaviour

Methods to monitor and detect impacts and avoidance behaviour of marine species in response to offshore renewables development including the consideration of cumulative impacts.

SPORRAN outputs

Theme 3. Assessing population level impacts

Assessing/monitoring the population level consequences of marine renewables development on marine species.

Theme 4. Understanding Mitigation Options

Understanding and monitoring the efficacy of mitigation measures in areas of marine renewable development.

Is it working?

Basis for interaction with Research Councils

2 Innovation internships

Support for academic project proposals

Basis for internal bids for funding for external commissioning

Ornithology

Acoustic impacts on mammals

Acoustics of tidal stream areas

Helps to steer internal research project development

Attracted co-funding

Lessons

Lead organisation with a clear driver to advance the process

Have clear funding and enthusiasm for the coordination role

Engage with as full a range of stakeholders as possible

Strive for consensus

Have some associated research funding

Welcome co-funding

Try to keep internal project relations simple

Engage actively with potential funders

Seek new funding opportunities