



SuperGen Marine Energy Research

Phase 1

Partners



EPSRC-funded 4 year collaborative project

- University of Edinburgh
- The Robert Gordon University
- Heriot Watt University
- University of Strathclyde
- Lancaster University



Collaborators



Aberdeen City Council

AEA Technologies Ltd

Aquatera

Aquamarine Power Ltd

Artemis Intelligent Power Ltd

Black and Veitch

The Carbon Trust

The Crown Estates

DTI

Entec

ECN Nantes (Fr)

EMEC

The Engineering Business

The University of Exeter

HIE

HMRC (RoI)

The Met Office

Marine Current Turbines

NaREC

Newage AvK

Ocean Power Delivery

Orcina

Orkney Island Council

Scottish Power

Scottish Enterprise

Scottish and Southern Energy

SEPA

SNH

Teamwork Technologies (NL)

TU Delft (NL)

Wavegen



Aims and objectives

Generic research with long-term objectives to:

1. Increase knowledge and understanding of the extraction of energy from the sea;
2. Reduce risk and uncertainty for stakeholders in the development and deployment of technology;
3. Enable progression of marine technology and energy into true positions in future energy portfolios.



Work Packages

- WP1 Appraisal of Energy Resource & Converters: Environmental Interaction
- WP2 Development of Methodologies for Device Evaluation and Optimisation
- WP3 Engineering Guidance
- WP4 Offshore Energy Conversion and Power Conditioning
- WP5 Chemical Conversion and Storage
- WP6 Network Interaction of Marine Energy
- WP7 Lifetime Economics
- WP8 Moorings and Foundations
- WP9 Novel Control Systems for Marine Energy Converters
- WP10 Full-scale Field Validation
- WP11 Assessment of Testing Procedures for Tidal Current Devices
- WP12 Economic, Environmental and Social Impact of New Marine Technologies
- WP13 Dissemination and Outreach