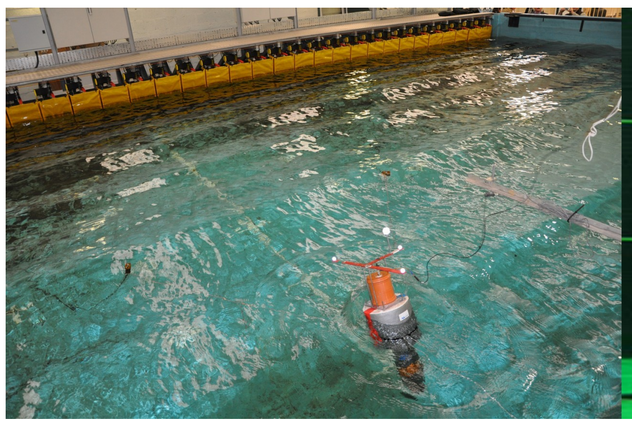
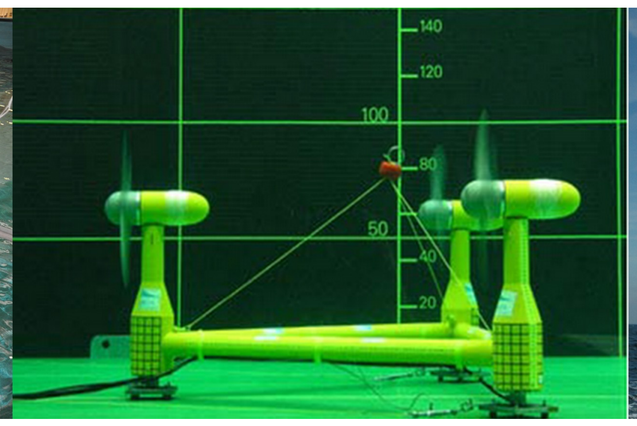
MARINET

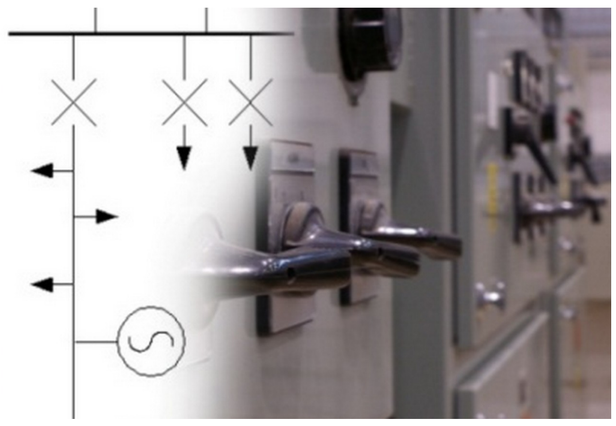
Marine Renewables Infrastructure Network

www.fp7-marinet.eu

SEVENTH FRAMEWORK PROGRAMME







What is MARINET?

EC-funded marine renewable energy infrastructure initiative offering free-of-charge access to world-class test facilities and a streamlined approach to the testing process.

29 partners

12 countries

44 marine testing facilities available

4 year duration: April 2011—March 2015

€11m budget

Why the need for MARINET?

- Coordinated approach is needed to streamline access, avoid research duplication and increase pace of development.
- Alleviate increasing facility access costs and cross-border access issues.
- Address technology failures by following structured technology development plans.

What does MARINET offer?

- **Free-of-charge access to infrastructures & expertise**
  - ⇒ **44 state-of-the-art facilities, world experts**
  - ⇒ **contribution towards travel costs**
  - ⇒ **workshops & networking to enhance subsequent development**
- **Joint-activity by partners in parallel to:**
  - ⇒ **adopt common test standards**
  - ⇒ **conduct research to improve testing capabilities**
  - ⇒ **staff exchange and free-of-charge industry training**

Free-of-charge access to 44 facilities & associated expertise!

APPLY at www.fp7-marinet.eu

to access test facilities for:

- **Wave Energy**
- **Tidal Energy**
- **Offshore-Wind Energy & Environmental Data**
- **Common Aspects** e.g. Electrical, PTO, Materials etc.

  - ⇒ Facility costs are paid by the EC
  - ⇒ All scales available, from lab to sea
  - ⇒ Open to companies of any size, research groups etc.

What are the access conditions?

- Visiting leader and majority of visiting-group members must be based in the EC or an FP7-associated country
- Facility must be outside the country where the group leader and majority of group are based
- Testing results may be published (allowing for IP restrictions)

Further information

Web: www.fp7-marinet.eu
Email: info@fp7-marinet.eu
Coordinator: Hydraulics & Maritime Research Centre, UCC, Ireland

University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

HYDRAULICS & MARITIME RESEARCH CENTRE

MARINET Group LinkedIn

MARINETfp7 Follow Us On twitter

FP7MARINET Find us on Facebook

Poster developed by HMRC, 2012, V3

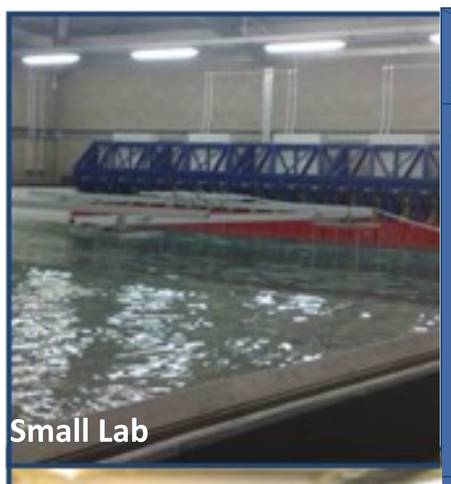
MARINET

Marine Renewables Infrastructure Network

www.fp7-marinet.eu

SEVENTH FRAMEWORK PROGRAMME

Facilities Available


Small Lab


Large Lab


Medium-Scale Site


Large-Scale Site

Scale \ Area	Wave Energy	Tidal Energy	Offshore Wind Energy & Environmental Data	Cross-Cutting Areas e.g. Electrical /PTO/Materials etc
Small Lab	• AAU – Deep Water Wave Basin • QUB – Shallow Water Wave Tank • UCC-HMRC – Ocean Wave Basin • UEDIN – Curved Wave Tank • UNI-STRATH – Kelvin Hydrodynamics Lab • UNIFI-CRIACIV Wave-Current Flume	• DTU – Current Flume with Carriage • UNI-STRATH – Kelvin Hydrodynamics Lab • USTUTT – Laminar Wind Tunnel • UNIFI-CRIACIV – Boundary Layer Wind Tunnel • UNIFI-CRIACIV Wave-Current Flume	• UNIFI-CRIACIV – Boundary Layer Wind Tunnel • UNI-STRATH – Kelvin Hydrodynamics Lab • USTUTT - Laminar Wind Tunnel	• SINTEF – Renewable Energy Lab SmartGrids • TECNALIA – Electrical PTO Lab • UCC-HMRC – Rotary Test Rig • USTUTT – Turbine Test Rigs
Large Lab	• CNR-INSEAN – Wave Tank • ECN – Hydrodynamic and Ocean Engineering Tank • IFREMER – Deep Seawater Wave Tank • IFREMER – Wave-Current Circulation Tank • NAREC – Wave Flume • PU - COaST Coastal Ocean and Sediment Transport Laboratories	• CNR-INSEAN – Circulating Water Channel • IFREMER – Wave-Current Circulation Tank • PU - COaST Coastal Ocean and Sediment Transport Laboratories	• CNR-INSEAN – Wave Tank • ECN – Hydrodynamic and Ocean Engineering Tank • PU - COaST Coastal Ocean and Sediment Transport Laboratories	• DTU – Mechanical Test Facilities • DTU – PowerLabDK • IFREMER – Materials in Marine Environment Lab • NAREC – CPTC Energy Link Labs • NAREC – Nautilus Rotary Rig • UNEXE – Dynamic Marine Component Test Facility
Medium-Scale Site	• AAU – Nissum Bredning • EMEC – Real Sea Test Sites Orkney • SEAI-OEDU – Galway Bay	• EMEC – Real Sea Test Sites Orkney • QUB – Portaferry Tidal Test Centre • TTC – Den Oever Tidal Site	• AAU – Nissum Bredning • QUB – Portaferry Tidal Test Centre Data • SEAI-OEDU – Wave Site Data Galway	• UNEXE – South West Mooring Test Facility
Large-Scale Site	• EVE – Biscay Marine Energy Platform • SEAI-OEDU – Belmullet Test Site	• No Infrastructure Currently Available	• DTU - Database of Wind Characteristics • DTU – Mobile Offshore Wind Measuring • DTU – National Wind Test Site • ECNETH – Database of Measurements on OWEZ • NTNU – Full-scale wind measurement station • PU – HF Radar Environmental Monitoring Facility • SEAI-OEDU – Wave Site Data Belmullet • USTUTT – Offshore Nacelle LiDAR	• EVE – Mutriku OWC Plant • FH-IWES – Offshore Field Test Facilities • WAVEC – OWC Pico

Partners

Ireland
University College Cork, HMRC (UCC-HMRC) *Coordinator*

Sustainable Energy Authority of Ireland (SEAI-OEDU)

Denmark
Aalborg Universitet (AAU)

Danmarks Tekniske Universitet (DTU)

Portugal
Wave Energy Centre (WAVEC)

United Kingdom
National Renewable Energy Centre Ltd. (NAREC)

The University of Exeter (UNEXE)

European Marine Energy Centre Ltd (EMEC)

University of Strathclyde (UNI-STRATH)

The University of Edinburgh (UEDIN)

Queen's University Belfast (QUB)

Plymouth University (PU)

Spain
Ente Vasco de la Energía (EVE)

Tecnalia Research & Innovation Foundation (TECNALIA)

Belgium
1-Tech (1-TECH)

Netherlands
Stichting Tidal Testing Centre (TTC)

Stichting Energieonderzoek Centrum Nederland (ECNETH)

Germany
Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung E.V (FH-IWES)

Gottfried Wilhelm Leibniz Universität Hannover (LUH)

Universitaet Stuttgart (USTUTT)

France
Ecole Centrale de Nantes (ECN)

Institut Français de Recherche Pour l'Exploitation de la Mer (IFREMER)

Italy
Università Degli Studi Di Firenze (UNIFI-CRIACIV)

PIN S.c.r.l. Università Di Firenze (UNIFI-PIN)

Università degli Studi della Tuscia (UNITUS)

Consiglio Nazionale delle Ricerche (CNR-INSEAN)

Brazil
Instituto de Pesquisas Tecnológicas do Estado de São Paulo S.A. (IPT)

Norway
Sintef Energi AS (SINTEF)

Norges Teknisk-Naturvitenskapelige Universitet (NTNU)