

# Projects

Four European projects have recently been approved, in which the WavEC participates with monitoring component. Other projects of the WavEC:

- WAVETRAIN2: 7FP EU People ITN; 2008-2011 (Coordenador): [www.wavetrain2.eu](http://www.wavetrain2.eu)
- CORES, Components for Renewable Ocean Energy Systems: 7FP EU-RTD; 2008-2011: <http://hmrc.ucc.ie/FP7/cores.html>
- EQUIMAR, Equitable testing and Evaluation of Marine energy extraction Devices in terms of Performance, Cost and Environmental Impact - 7FP EU-RTD; 2008-2011: [www.equimar.org](http://www.equimar.org)
- WEAM, Wave Energy Acoustic Monitoring - National Funding: FCT - Science and Technology Foundation; 2007-2010 (Coordenador): [www.siplab.fct.ualg.pt/proj/weam.shtml](http://www.siplab.fct.ualg.pt/proj/weam.shtml)
- WAVEPLAM, WAVE energy PLAnning and Marketing: EU IEEA; 2007-2010: [www.waveplam.eu](http://www.waveplam.eu)
- Aqua-RET, Aquatic Renewable Energy Technologies: 6FP EU Leonardo da Vinci II; 2006-2008: [www.aquaret.com](http://www.aquaret.com)
- Refurbishment and monitoring of the OWC Pilot Plant in the Pico Island in the Azores. National Funding: PRIME-DEMTEC; 2004-2006 (Coordenador): [www.pico-owc.net](http://www.pico-owc.net)
- WAVETRAIN: 6FP EU MCRTN; 2004-2008 (Coordenador): [www.wavetrain.info](http://www.wavetrain.info)
- CA-OE, Co-ordination Action on Ocean Energy - 6FP EU; 2004-2007: [www.wave-energy.net](http://www.wave-energy.net)
- Foz do Douro Breakwater OWC - National funding PRIME/IDEIA and own resources; 2004-2007



Wavetrain project short course: wave energy realities  
Pico Island, Azores, Portugal, 2007

## Rendering Services

- Collaboration research for safety design and optimal operation of OWC-WEC pilot plant (2009)
- Pico II project - Phase 1 - Diagnostic, Inspection and Planning (2008)
- Participation in marine energy evaluation proposals (2008)
- Due diligence on new wave energy concept and development (2008)
- Wind Offshore: Status and Opportunities - report and workshop (2008)
- Wave energy technology developers & relevant support systems in key markets (2007)
- Actual and comprehensive perspective of the wave energy sector (2007)
- Due diligence on a specific wave energy technology (2007)
- Wave Park Location Study (2005-2007)
- Wave Energy: State of Art - report and organization of workshop (2006, 2007)
- Archimedes Wave Swing (AWS): participation in field testing of 2MW pilot plant (2004)
- Potential and Strategy of Wave Energy Exploitation in Portugal (2003-2004)

# Our Associates



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## WAVE ENERGY CENTRE

The Wave Energy Centre (WavEC) is a private non-profit association founded in 2003 with the mission to promote the development of wave energy through services to companies and public bodies, as well as R&D projects and international collaboration.

The major fields of intervention of WavEC are monitoring and dissemination of technological progress, contribution to relevant R&D and engineering activities, promotion of public policies favouring wave energy implementation, as well as training of researchers specialised in this technology branch.

## Clients / Funding Sources

Korea Ocean Research & Development Institute (KORDI) (2009)

Iberdrola / Spain (2008)

AW-Energy / Finland (2008)

Companhia Energia Oceânica / Portugal (2008)

ETI - Energy Technologies Institute / UK (2008)

Arthur D. Little / Portugal (2008)

GALP Power / Portugal (2007-2008)

Enersis / Portugal (2007-2008)

EDP – Energias de Portugal (2005-2008)

3 Large multinational energy companies - non-disclosable (2005, 2007)

Wave Dragon ApS / Denmark (2005)

AWS II BW (Archimedes Wave Swing) / The Netherlands (2004)

DGGE – Portuguese Directorate General for Geology and Energy / Portugal (2003-2004)

European Commission / via DG-RTD, Intelligent Energy Europe, Marie-Curie, People ITN and Leonardo funding (2004-2009)

FCT- Science and Technology Foundation (2004-2009)

Portuguese Ministry of Economy / via PRIME programme (2004-2006)

## Activities

WavEC renders its services to entities and companies interested in the development of wave energy in Portugal and in other countries, mainly through different studies as wave park site selection, environmental impacts, prototype monitoring, numerical modelling, model testing, technology assessment, business opportunities and public policies.

The Centre also recognised the importance to train specialised researchers in the field of wave energy, having developed the European project Marie Curie Research Training Networks WAVETRAIN, where a total of 20 young research professionals were trained in this area. The project WAVETRAIN2 will continue and expand this network, aiming towards a new group of wave energy specialists.

A significant part of the Centre's activities is developed in the frame of R&D projects, technological and non-technological, national and European, both as coordinator and partner. However, the rendering of services to associates and non-associates has been increasing, mainly in the context of strategic studies supported by technical consultancy.

A major objective of WavEC is to promote the collaboration between companies, R&D institutes and public administration by identifying business opportunities in the field of wave energy through dissemination activities. The Centre also aims to promote other entities, both European and international, namely the European Ocean Energy Association (EU-OEA) and the Implementing Agreement on Ocean Energy Systems of the International Energy Agency (IEA-OES).

## The Team

The WavEC is composed of a young and dynamic team that has been increasing over the years with specialisations as numerical modelling, monitoring, environmental assessment, public policies and strategic studies, management, training and dissemination. The Board of Directors is composed of one member of the following entities: Instituto Superior Técnico (IST), EDP – Energias de Portugal / Electricity of Portugal, MARTIFER, CEO – Companhia da Energia Oceânica, S.A. and Consulmar. Prof. António Sarmiento has been the director from the beginning and has more than three decades of experience in the field of wave energy.

## Dissemination Activities

- Publication of R&D work and representation in national and international technical meetings
- Numerous presentations in education institutions, local and regional bodies and other organisations
- Frequent organisation of site visits to the Pico OWC (schools, technicians, companies and media)
- Permanent representation in international interest groups and pre-normative discussions
- Seminar “Wave Energy in Portugal in the International Context” (2009)
- Seminar “Environmental Impacts of Wave Energy workshop” (2009)
- Seminar “Marine Renewable Energy in Portugal Technology State of the Art and Business Opportunities” (2008)
- Seminar “Utilization of Wave Energy” (2005)