

Technical Committee 18 Marine Energy



Annual Report 2011
December 2011

Scope

The committee follows and contributes to the work of IEC TC 114 Marine energy - Wave, tidal and other water current converters

To prepare international standards for marine energy conversion systems. The primary focus will be on conversion of wave, tidal and other water current energy into electrical energy, although other conversion methods, systems and products are included. Tidal barrage and dam installations, as covered by TC 4, are excluded.

The standards produced by TC 114 will address:

- ° system definition
- ° performance measurement of wave, tidal and water current energy converters
- ° resource assessment requirements, design and survivability
- ° safety requirements
- ° power quality
- ° manufacturing and factory testing
- ° evaluation and mitigation of environmental impacts

International TCs Shadowed by this TC

IEC TC114 Marine energy - Wave, tidal and other water current converters

Irish Industry/Sector Served by this TC

All parties who have an interest in Marine Energy

Technical Committee 18 Marine Energy

1. Review of the Year 2011

The Committee meets twice a year and a number of the committee members attended both the PT meetings and the IEC TC114 plenary meeting in Boston in May. We are also represented by nominated experts from our committee at all the current Project Teams/Working Group of TC114. It should be noted that the committee is extensively represented on these PT's resulting in Ireland having a strong influence on the development and content of the standards being produced. This continued representation is vital in maintaining Ireland's position as one of the leaders in Wave and Tidal Power development.

The Project Teams/WG and Irish Experts are as follows

PT/WG	Subject	Irish Expert
PT 62600-101 Wave resource PT 62600-201 Tidal Resource	Wave & Tidal Resource Characterisation & Assessment	Brian Holmes Jochem Weber Cuan Boake
PT62600-1	Terminology	Tony Lewis
PT62600-2	Design Requirements	John Fitzgerald Ray Alcorn Michael O'Cathain
PT62600-100	Performance Assessment of Wave Energy Converters	Dara O'Sullivan James Tedd Jochem Weber
PT62600-200	Performance Assessment of Tidal Energy Converters	Ray Alcorn Joe MacEnri Paul Brewster
AHG-1	Ad Hoc Group: Power Quality	Dara O'Sullivan

To facilitate this level of contribution we have set up consultative groups for each of the groups above. One member of the each group has been nominated as convenor and arranges ad hoc meetings as necessary.

2 Membership

As the work of IEC TC114 has expanded significantly we have added to the membership in order that we can contribute in a meaningful way to all PT's and WG's.

Chairman John Fitzgerald ESBi

Joe MacEnri	ESBi
Brian Holmes	UCC
Jochem Weber	Wavebob
Cuan Boake	QUB
Tony Lewis	UCC
John Fitzgerald	ESBi
Ray Alcorn	UCC
Michael O'Cathain	SSE Renewables
Dara O'Sullivan	UCC
James Tedd	ESBi
Paul Brewster	Pure Marine
Brian O'Mahoney	SEAI
Garth Bryans	Aquamarine
Sue Barr	Open Hydro
Conleth O'Loughlin	Sligo IT
Charlotte O'Kelly	TechWorks Marine Ltd

Circulation

Peter Coyle	MRIA
Colm deBurca	ESBi
John Ringwood	NUIM
Eugene Doogan	Wavebob
John Keating	Ocean Energy
Eoin Sweeney	SEAI

3 International Meetings 2011

The IEC TC114 Plenary was held in May in Boston. The following members attended meetings of their PT's before the plenary TC meeting itself:

Joe MacEnri, James Tedd, Dara O'Sullivan, Paul Brewster,

Ireland was represented by Joe MacEnri at the plenary meeting

Attendance at other PT/WG meetings during the year included the following;

PT 62600-100

13th and 14th of January in Cork.

2nd and 3rd May Boston

This meeting was hosted by and held in HMRC.

D O'Sullivan and J Tedd

Ten other webex meetings were held during the year

PT 62600-101

3rd and 4th of October in Canada

B Holmes

Webex meetings also held

PT 62600-200

3rd and 4th of May Boston

J MacEnri and P Brewster

10 webex meetings also held

The next meeting will be held in Dublin on the 24th and 25th of January 2012.

PT 62600-2

3rd of May Boston (via webex)

6th and 7th of November Aalborg

J Fitzgerald

PT 62600-201
24th and 25th of October London
Cuan Boake

Programme for Coming Year

It is intended to hold at least two committee meetings and the IEC TC114 plenary meeting is due to take place in Norway in the first week of October 2012. Nominated experts will continue to work through the PT's and WG and meet when necessary, including the consultative groups