



NSAI

ANNUAL REPORT 2020

NSAI TECHNICAL COMMITTEES
(NSAI ETC TC18 – MARINE
ENERGY - WAVE, TIDAL AND
OTHER WATER CURRENT
CONVERTERS)

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1 Chairman's Statement

The IEC TC 114 Group was formed to prepare international standards for marine energy conversion systems. The group has grown from an initial small number to now having 18 Participating members and 11 Observers spread all around the globe. From its very inception Ireland and its experts have played a pivotal role in the development of the standards either leading or contributing to almost every document produced to date.

As Chairman I would like to acknowledge the work done by previous Chairs in creating this dynamic grouping of Irish experts and I hope to continue the stewardship in the same fashion. I would also like to acknowledge the incredible work done by our Secretary without whom our contributions would be much less timely or impactful.

Dr Ray Alcorn

CEO Exceedance

Chairperson NSAI ETC TC 18

2 Introduction

NSAI ETC TC18 is Ireland's National Mirror Committee of the IEC/TC 114 - Marine energy - Wave, tidal and other water current converters.

3 Scope of TC

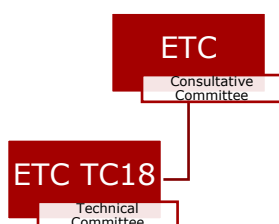
To support the preparation of international Technical Specifications for marine energy conversion systems. The primary focus is on the conversion of wave, tidal and other water current energy into electrical energy, although other conversion methods, systems and products are included. Tidal barrage, dam installations and Off-shore wind energy, as covered by IEC TC 4 and TC 88, respectively are excluded. The committee mirrors the following international committees:

Committee Name	Committee Title
IEC/TC 114	Marine energy - Wave, tidal and other water current converters

4 Structure and Membership

4.1 Structure

The Figure below illustrates the structure of the Committee:



4.2 Members

The table below identifies the organisations represented on the committee:

Organisation	Role
Exceedence	Chairperson
NSAI	National Secretary
DP Energy	Committee Member
BME Consulting	Committee Member
ARR Ltd	Committee Member
Pure Marine	Committee Member
SEAI	Committee Member
Wave Venture	Committee Member
Open Ocean Energy	Committee Member
UCC	Committee Member
Techworks	Committee Member
Rockall Research	Committee Member
UCC	Committee Member
UCC	Committee Member
XOCEAN	Committee Member
UCC	Committee Member
CEI	Committee Member
G-Kinetic	Committee Member
NUI Galway	Committee Member
WaveRam	Committee Member
UCC	Committee Member
PO Maritime	Committee Member
TUD	Observer

Note: Independent experts participate in ETC TC 18 are not listed above. For more information contact NSAI.

5 Summary of 2020 Activities

5.1 National

5.1.1 Meetings

Committee members attended the following national meetings in NSAI as follows:

Meeting No.	Date	Minutes Reference
1	21 November 2020	N0527

5.1.2 National Work

NSAI ETC TC18 were not involved in any National deliverables in 2019. ETC TC18 supports all National parties who have an interest in Marine Energy in benefitting from Standards being developed at IEC level.

5.2 International/Regional

5.2.1 Meetings

The IEC TC114 Plenary meeting for 2020 was due to take place in Singapore in April 2020. This was postponed initially and then eventually cancelled due to COVID-19.

Members of the national committee continued to partake in technical body meetings throughout the year in a virtual capacity.

5.2.2 International/Regional Work

International work in IEC TC114 was significantly curtailed by the impact of COVID-19 in Q2 and Q3 of 2020, but bounced back in Q4. There were 3 no. of international technical specifications published in 2020. Ireland was represented on 2 out of 3 of the technical bodies responsible for delivery of these documents.

5.2.3 International/Regional Voting Results

IEC/TC 114: Ireland voted on a total no. of 1 document open in 2020 with a 100% overall voting record.

The relatively low number of documents open for vote in 2020 was a result of the COVID-19 pandemic. IEC TC114 did not adopt remote working for a number of months following the postponement and eventual cancellation of the 2020 Plenary.

5.3 Regulatory Development/Update

IEC TC114 is a relatively young Technical Committee and currently develops Technical Specifications to reflect an industry that is still involved in what is an emerging technology. Nevertheless, long-term consideration require members to remain aware of European Regulations and Directives.

The 2020 Programme for Government continues to recognise the important role Marine Energy will play in Ireland's ambitions to decarbonise the energy system.

6 Irish Publications/Reviews

6.1 Publications

The Committee did not publish any national deliverables in 2020.

6.2 Reviews

There are no existing national publications so no reviews were carried out in 2020.

7 Work programme for 2021 onwards

The number of ETC TC 18 experts engaged with IEC Standards development and active in IEC TC 114, is the highest within the ETC. The change in access to government funding in 2019 coincides with a change in participation internationally. Ireland was ranked 3, behind only the U.S. and U.K., for number of active members in 2019. In 2020 the UK, U.S., Canada and China out ranked Ireland. However, the work programme for 2021 will see Irish experts continue to play a pivotal role in the development of International Standards for Marine Energy and the committee will seek to maintain the influence already established.



Members of the IEC TC114 (Ray Alcorn; First row, second from right and James Clarke; Front row, first from right) attending the 2019 IEC TC114 plenary meeting.