



NSAI

ANNUAL REPORT 2022

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

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1 Introduction

NSAI ETC TC18 is Ireland's National Mirror Committee of the [IEC/TC 114 - Marine energy - Wave, tidal and other water current converters](#). The IEC TC 114 was formed to prepare international standards for marine energy conversion systems. The group has grown from an initial small number to now having 17 Participating members and 12 Observing members spread across the globe.

2 Scope of TC

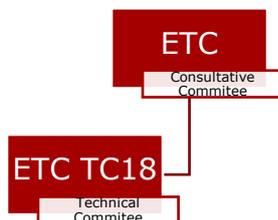
To support the preparation of international Technical Specifications for marine energy conversion systems. The primary focus is on the conversion of wave, tidal and other water current energy into electrical energy, although other conversion methods, systems and products are included. Tidal barrage, dam installations and off-shore wind energy 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

3 Structure and Membership

3.1 Structure

The Figure below illustrates the structure of the Committee:



3.2 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
ORPC	Committee Member
Bluewise Marine	Committee Member
Tidal Flyer	Committee Member

Organisation	Role
Open Ocean Energy	Committee Member
UCC	Committee Member
Techworks	Committee Member
Rockall Solutions	Committee Member
XOCEAN	Committee Member
UCC	Committee Member
CEI	Committee Member
G-Kinetic	Committee Member
NUI Galway	Committee Member
WaveRam	Committee Member
SSE	Committee Member
Techworks	Committee Member
PO Maritime	Committee Member

4 Summary of 2022 Activities

4.1 National

4.1.1 Meetings

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

Meeting No.	Date	Minutes Reference
1	21 March 2022	N0558

4.1.2 National Work

NSAI ETC TC18 were not involved in any National deliverables in 2022. NSAI ETC TC18 supports all National stakeholders who have an interest in Marine Energy in benefitting from Standards being developed at IEC level.

4.2 International/Regional

4.2.1 Meetings

The IEC TC114 Plenary meeting for 2022 was held remotely from the 28th to 31st of March 2022. 4 no. of NSAI delegates participate in proceedings.

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

The next meeting of IEC TC114 was provisionally scheduled to take place in April in Edinburgh, UK.

4.2.2 International/Regional Work

There was 1 no. of international technical specifications published in 2022;

IEC TS 62600-202:2022 - Marine energy - Wave, tidal and other water current converters - Part 202: Early stage development of tidal energy converters - Best practices and recommended procedures for the testing of pre-prototype scale devices

Ireland was represented on the technical body responsible for delivery of this document.

4.2.3 International/Regional Voting Results

IEC/TC 114: Ireland voted on a total no. of 1 new proposals open in 2022 and maintained a 100% overall voting record.

The relatively low number of documents open for vote in 2022 reflects the development stages that were underway during 2022. A number of stability dates due to be reached in 2022 were extended at the 2022 plenary. A higher number of formal ballots is anticipated for 2023.

5 Irish Publications/Reviews

5.1 Publications

The Committee did not publish any national deliverables in 2022.

5.2 Reviews

There are no existing national publications. No reviews were carried out in 2022.

6 Work programme for 2023 onwards

The number of NSAI ETC TC 18 experts engaged with IEC Standards development and active in IEC TC 114, is the highest within the ETC. Ireland is ranked joint 4th, behind only the U.S., U.K., and China for number of active members in 2022. The work programme for 2023 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.