



**NSAI**

# ANNUAL REPORT 2025

**NSAI TECHNICAL COMMITTEES  
(NSAI/ETC/TC 18 – MARINE  
ENERGY - WAVE, TIDAL AND  
OTHER WATER CURRENT  
CONVERTERS)**

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## 1 Introduction

NSAI/ETC/TC 18 is Ireland's National Mirror Committee of the [IEC/TC 114 - Marine energy conversion systems](#). 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 18 Participating members and 12 Observing members spread across the globe.

## 2 Scope of TC

To support IEC/TC 114 in the preparation of international standards for marine energy conversion systems and interaction with connected systems, consistent with the IEC systems approach.

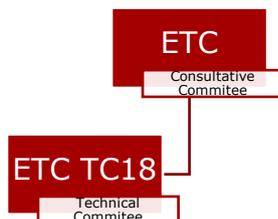
The standards produced by IEC/TC 114 and in liaison with other TCs and SCs address:

- terminology
- management plans for technology and project development
- performance measurements of marine energy converters
- resource assessments
- design and safety including reliability and survivability
- deployment, commissioning, operation, maintenance, retrieval and decommissioning
- electrical interfaces, including array integration and/or grid integration
- laboratory testing, manufacturing and factory acceptance
- additional measurement methodologies and processes as required

## 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
<b>Exceedence</b>	Chairperson
<b>NSAI</b>	National Secretary
<b>DP Energy</b>	Committee Member
<b>BME Consulting</b>	Committee Member
<b>ARR Ltd</b>	Committee Member
<b>Pure Marine</b>	Committee Member
<b>Wave Venture</b>	Committee Member
<b>ORPC</b>	Committee Member
<b>Bluewise Marine</b>	Committee Member
<b>Tidal Flyer</b>	Committee Member
<b>Open Ocean Energy</b>	Committee Member
<b>UCC</b>	Committee Member
<b>Techworks</b>	Committee Member
<b>Rockall Solutions</b>	Committee Member
<b>XOCEAN</b>	Committee Member
<b>UCC</b>	Committee Member
<b>G-Kinetic</b>	Committee Member
<b>UoG</b>	Committee Member
<b>SSE</b>	Committee Member
<b>Techworks</b>	Committee Member
<b>DCU</b>	Committee Member
<b>Ocean Energy</b>	Committee Member
<b>ESB</b>	National observer

## 4 Summary of 2025 Activities

### 4.1 National

#### 4.1.1 Meetings

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

Meeting No.	Date	Reference
1	13 March 2025	N-603

#### 4.1.2 National Work

NSAI/ETC/TC 18 was not involved in any national deliverables in 2025. NSAI/ETC/TC 18 supports all national stakeholders who have an interest in marine energy benefitting from standards being developed at IEC level.

## 4.2 International/Regional

### 4.2.1 Meetings

The IEC/TC 114 plenary meeting for 2025 was held in Dublin, IE and was co-hosted between NSAI and Dublin City University (DCU). National delegations from over a dozen countries, met in NSAI offices and on the DCU campus from the 14<sup>th</sup> – 17<sup>th</sup> of April 2025 (See photo overleaf).

Members of Ireland's national committee took part in project team and maintenance team meetings throughout the week. Further engagement was sustained throughout the year in a virtual capacity.

The next meeting of IEC TC114 is provisionally scheduled to take place in April 2026 in Oregon, US.

### 4.2.2 International/Regional Work

The following technical specification were published in 2025:

- IEC TS 62600-201:2025 - Marine energy - Wave, tidal and other water current converters - Part 201: Tidal energy resource assessment and characterization

### 4.2.3 International/Regional Voting Results

Results for ballots opened in 2025 can be found on the [IEC/TC 114 committee homepage](#). In 2025 there were 4 votes consisting of three new proposals and one new draft technical specifications for approval. Ireland voted in 100% of these ballots.

## 5 Irish Publications/Reviews

### 5.1 Publications

The Committee did not publish any national deliverables in 2025.

### 5.2 Reviews

There are no existing national publications. No reviews of national documents were carried out in 2025.

## 6 Work programme for 2026 onwards

The number of NSAI/ETC/TC 18 experts engaged with IEC Standards development and active in IEC TC 114, remains the highest within the ETC sector. Ireland is ranked 5<sup>th</sup>, behind only the U.S., Great Britain, China, and Korea for number of active members in 2025. The IEC work programme for 2026 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 build upon its influence.



# NSAI ETC TC18 - Marine energy - Wave, tidal and other water current converters

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(Photo: International delegates attending the 2025 IEC/TC 114 Spring Plenary held in Dublin City University on 16+17 April 2025)