



Advance Marine Energy

Develop consensus-based standards trusted by the marine energy industry. Collaborate with experts. Join International Electrotechnical Commission's (IEC's) Technical Committee (TC) 114.

IEC Standards Reach



99.1%
World Population

99.2%
Electricity Generation

20%
World Trade

Global Reach

Collaborate on TC 114



200+
Subject Matter Experts

29
Countries

23
Working Groups

Committees and Working Groups

Certification Development



4
Global Systems

>1 Million
Certificates Issued

>20
Seperate Schemes and Programs

Conformity Assessment



About IEC

What is IEC TC 114?

- IEC develops international standards for all electrical, electronic, and related technologies.
- The United States National Committee of the IEC (USNC/IEC) is managed by the American National Standards Institute (ANSI).
- The U.S. Technical Advisory Group (TAG) is organized under and works closely with the USNC/IEC and serves as the convening body for U.S. experts to participate in the creation of international standards through IEC TC 114.
- In the United States alone, nearly 100 experts participate in U.S. TAG as members and/or observers, 40 of which serve as either U.S. subject matter experts or conveners on IEC TC 114 working groups with key assistance provided by the National Laboratory of the Rockies.
- IEC TC 114, Marine energy - Wave, tidal, and other water current converters, was established in 2007 to develop international, consensus-based standards for the marine energy industry.
- 29 countries, including more than 200 experts participating in 23 working groups, represent the largest marine energy industries globally. Outreach is ongoing to engage additional participation.

Current Publications

Technical Specifications (TS)

- IEC TS 62600-1 (Ed. 2.0, 2020): Terminology
- IEC TS 62600-2 (Ed. 2.0, 2019): Design
- IEC TS 62600-3 (Ed. 1.0, 2020): Loads Measurement
- IEC TS 62600-4 (Ed. 1.0, 2020): Technology Qualification
- IEC TS 62600-10 (Ed. 2.0, 2021): Moorings
- IEC TS 62600-20 (Ed. 1.0, 2019): Ocean Thermal Energy Conversion (OTEC) Design
- IEC TS 62600-30 (Ed. 1.0, 2018): Power Quality
- IEC TS 62600-40 (Ed. 1.0, 2019): Acoustic Characterization
- IEC TS 62600-100 (Ed. 2.0: 2024): Wave Energy Converter (WEC) Power Performance (PP) Assessment
- IEC TS 62600-101 (Ed. 2.0, 2024): WEC Resource Assessment (RA)
- IEC TS 62600-102 (Ed. 1.0, 2016): WEC PP Assessment at a Second Location
- IEC TS 62600-103 (Ed. 2.0, 2024): Testing of Scaled-WECs
- IEC TS 62600-200 (Ed. 1.0, 2013): Tidal Energy Converter (TEC) PP Assessment

- IEC TS 62600-201 (Ed. 1.0, 2015): TEC RA
- IEC TS 62600-202 (Ed. 1.0, 2022): Testing of Scaled-Tidal Energy Converters
- IEC TS 62600-300 (Ed. 1.0, 2019): River Energy Converters Power Performance
- IEC TS 62600-301 (Ed. 1.0, 2019): River Energy Converters Resource Assessment

Current Activities

Project Teams (PT)

- PT 62600-21: OTEC PPA
- PT 62660-41: Biofouling
- PT 62600-22: OTEC Resource Assessment
- PT 62600-50: Measurement and Characterization
- PT 62600-104: Small/Tiny WEC Guidelines

Ad Hoc Groups (AHG)

- AHG 10: Information Collection on 62600-30 (Power Quality)
- AHG 12: Information Collection on 62600-300 (River PP)
- AHG 13: Information Collection on 62600-301 (River RA)
- AHG 15: Information Collection on 62600-3 (Loads Measurements)
- AHG 17: Information Collection on 62600-4 (Technology Qualification)
- AHG 18: Information Collection on 62600-202 (Testing of Scaled-Tidal Energy Converters)
- AHG 19: Strategic Business Plan

Maintenance Teams (MT)

- MT 62600-2: Design
- MT 62600-4: Technology Qualification
- MT 62600-10: Moorings
- MT 62600-20: OTEC Design
- MT 62600-40: Acoustic Characterization
- MT 62600-100: WEC PP
- MT 62600-101: WEC RA
- MT 62600-103: WEC Scale Testing
- MT 62600-200: TEC PP
- MT 62600-201: TEC RA

Advisory Groups (AG)

- AG 1: Chair's Advisory Group
- AG 2: Publication Alignment Support

Participating in the work of the U.S. TAG will provide you with personal benefits that include a deep knowledge about all the standards under development by IEC TC 114—not just the standard your team is working on—and new relationships with marine energy professionals in all 29 of the countries that participate.

IEC TC 114 U.S. Technical Advisor



Learn More

IEC TC 114 Website
iec.ch/tc114

IEC Website
iec.ch

U.S. TAG Website
openi.org/wiki/PR/IMRE/Telesto/IEC_TC-114

ANSI Website
ansi.org

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