

Advance Marine Renewable 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 Access



Global Reach

99.1%
World Population

99.2%
Electricity Generation

20%
World Trade

Collaborate on TC114



Committees and Working Groups

192
Subject Matter Experts

27
Countries

18
Working Groups

Certification Development



Conformity Assessment

4
Global Systems

>1 Million
Certificates Issued

>20
Separate Schemes and Programmes



INTERNATIONAL
ELECTROTECHNICAL
COMMISSION



About IEC

What is IEC TC 114?

- IEC is an international organization that 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, 35 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 Renewable Energy Laboratory.
- 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.
- Twenty-seven countries, including over 190 experts participating in over 18 working groups, represent the largest marine energy industries globally. Outreach is ongoing to engage additional participation.

Current Publications

Technical Specifications (TSs)

- IEC TS 62600-1 (Ed. 1, 2011): Terminology
- IEC TS 62600-2 (Ed. 1, 2016): Design
- IEC TS 62600-10 (Ed. 1, 2015): Moorings
- IEC TS 62600-30 (Ed. 1, 2018): Power Quality
- IEC TS 62600-100 (Ed. 1, 2012): Wave Energy Converter (WEC) Power Performance (PP) Assessment
- IEC TS 62600-101 (Ed. 1, 2015): WEC Resource Assessment (RA)
- IEC TS 62600-102 (Ed. 1, 2016): WEC PP Assessment at a second Location

- IEC TS 62600-103 (Ed. 1, 2018): Testing of Scale-WECs
- IEC TS 62600-200 (Ed. 1, 2013): Tidal Energy Converter (TEC) PP Assessment
- IEC TS 62600-201 (Ed. 1, 2015): TEC RA

Current Activities

Project Teams (PTs)

- PT 62600-3: Measurement of Loads
- PT62600-4: Technology Qualification
- PT 62600-20: Ocean Thermal Energy Conversion [Publication Pending]
- PT 62600-40: Acoustic Characterization [Publication Pending]
- PT 62600-202: Testing of Scale-TECs
- PT 62600-300: REC Power Performance [Publication Pending]
- PT 62600-301: REC Resource Assessment [Publication Pending]

Ad-hoc Groups (AHGs)

- AHG 3; Information Collection on 62600-102 (WEC PP at a second Location)
- AHG 8: IEC TC 114 Alignment
- AHG 9: Information Collection on 62600-103 (Testing of Scale-WECs)
- AHG 10: Information Collection on 62600-30 (Power Quality)

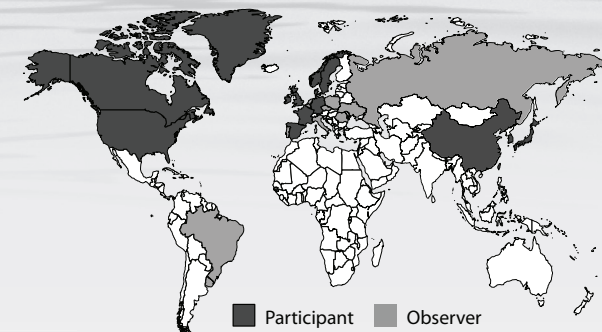
Maintenance Teams (MTs)

- MT 62600-1: Terminology
- MT 62600-2: Design
- MT 62600-10: Moorings
- MT 62600-100: WEC PP
- MT 62600-101: WEC RA
- MT 62600-200: TEC PP
- MT 62600-201: TEC RA

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Participation 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 27 of the countries that participate.

IEC TC 114 U.S. Technical Advisor



Learn More

IEC TC 114 Website

www.iec.ch/tc114

IEC Website

www.iec.ch

U.S. TAG Website

www.tc114.us

ANSI Website

www.ansi.org

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