



## IECRE PUBLICATION

**IEC System for Certification to Standards relating to Equipment for use in Renewable Energy applications (IECRE System)**

**IECRE 01-S Ed. 1 Supplement to IEC CA 01**





## **THIS PUBLICATION IS COPYRIGHT PROTECTED**

**Copyright © 2017 IEC, Geneva, Switzerland**

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester.

If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
info@iec.ch  
www.iec.ch

### **About the IEC**

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

### **About IEC publications**

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

#### **Useful links:**

IEC publications search - [www.iec.ch/searchpub](http://www.iec.ch/searchpub)

The advanced search enables you to find IEC publications by a variety of criteria (reference number, text, technical committee,...).

It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Stay up to date on all new IEC publications. Just Published details all new publications released. Available on-line and also once a month by email.

Electropedia - [www.electropedia.org](http://www.electropedia.org)

The world's leading online dictionary of electronic and electrical terms containing more than 30 000 terms and definitions in English and French, with equivalent terms in additional languages. Also known as the International Electrotechnical Vocabulary (IEV) on-line.

Customer Service Centre - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: [csc@iec.ch](mailto:csc@iec.ch).



# IECRE Supplement

---

Edition 1.0 2017-04-04

## IECRE PUBLICATION

**IEC System for Certification to Standards relating to Equipment for use in  
Renewable Energy applications (IECRE System)**

---

**IECRE 01-S Ed. 1 Supplement to IEC CA 01**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

**ZZ**

---

## CONTENTS

CONTENTS .....	2
FOREWORD.....	3
INTRODUCTION.....	4

INTERNATIONAL ELECTROTECHNICAL COMMISSION

---

**IEC Conformity Assessment Systems –**

**IEC CA 01 Ed. 1.0 – IECRE Supplement**

FOREWORD

This draft has been prepared by WG001 of IECRE

The text of this publication is based on the following documents:

Document	Report on Voting

## INTRODUCTION

### IECRE System Objective

The objective of the IECRE System is to facilitate international trade in equipment and services for use in Renewable Energy Sectors while maintaining the required level of safety:

- Operate a single, global certification System
- Consistent understanding of what a certificate means, which certificates exist and how they are related
- The System must be effective (avoid double work, which information must be given when and to whom) and will include mechanisms to solve disagreements between stakeholders both on the content of the System as well as its correct application
- The System aims for a harmonized application around the globe to ensure a uniform implementation and mutual recognition between certification bodies and test labs
- The System will make use of high quality international standards and will allow for continuous improvement of the System
- The System aims for harmonized application around the globe to ensure a uniform implementation and delivery of information by suppliers, sub-suppliers, end users and others providing documentation for certification
- The System aims for harmonized application around the globe to ensure a uniform implementation and clear understanding of all suppliers, sub-suppliers, end users and other applicants for the elements and modules as well as reports, statements and certificates of the certification processes
- The System aims for acceptance by local/national authorities or other bodies requiring and benefiting from certification

### Reason

The following key points have given rise to the need for a single International Renewable Energy Conformity Assessment System

- The RE systems are composed of a number of differing component sub-systems which form indispensable parts of the systems, e.g. electrical generation and power electronics, electrical prime movers, civil structures, mechanical structures, composite components, electronic sensors, processing and signalling
- The installation process of the system is complex and effective performance requires safe and reliable processes in manufacture, installation and maintenance
- The equipment is directly subject to the natural environment and cannot be protected by any secondary protection system

### RE Sector

RE (Renewable Energy) Sectors can be known by different names such as “Solar PV Energy”, “Wind Energy”, “Marine Energy”, and the like and relate to areas characterized by systems which generate electricity from renewable natural sources, which consist of complex arrangements of sub-systems including structures, which are installed outside of any protective environment and whose reliability and performance is affected by direct interaction with the natural environment. These areas may include the equipment and processes to produce energy, as well as the equipment to manufacture, transport and service the energy-producing equipment. Relevant standards exist for specific industry sectors to which the conformity assessment and certification of the IECRE System is done.

Governing documents (IEC CA 01 Clause 4)

[ADD A NEW BULLET]

h) The Rules of Procedure for each Sector which define the working procedures of the respective IECRE Sector.

Organization (IEC CA 01 Clause 6)

[ADD A NEW BULLET]

e) Sector Operational Management Committees (OMCs)

Management Committee (IEC CA 01 Clause 7)

[ADD NEW BULLETS IN CLAUSE 7.1]

j) the Chair or designated representative of IEC TC 82: Solar photovoltaic energy systems (without vote);

k) the Chair or designated representative of IEC TC 88: Wind turbines (without vote);

l) the Chair or designated representative of IEC TC 114: Marine energy – Wave, tidal and other water current converters (without vote);

[ADD NEW PARAGRAPHS TO CLAUSE 7.7]

Committees established by the IECRE REMC may also establish Working Groups with clearly defined terms of reference, to advise it on matters related to the management of the Sector or to enhance the efficiency of its operation.

NOTE Working Groups may be established for the purpose of dealing with matters relating to, for example:

– Rules of Procedure for the Sector

– Stakeholder Groups

**INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION**

3, rue de Varembé  
PO Box 131  
CH-1211 Geneva 20  
Switzerland

Tel: + 41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

**IEC SYSTEM FOR CERTIFICATION TO STANDARDS  
RELATING TO EQUIPMENT FOR USE IN RENEWABLE  
ENERGY APPLICATIONS (IECRE SYSTEM)**

IECRE Secretariat c/o IEC  
3, rue de Varembé  
PO Box 131  
CH-1211 Geneva 20  
Switzerland

Tel: + 41 22 919 02 11  
[secretariat@iecre.org](mailto:secretariat@iecre.org)  
[www.iecre.org](http://www.iecre.org)