SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CERTIFICATION ENTITY FOR RENEWABLE ENERGIES USA, LLC
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ELECTRICAL

Valid To: February 28, 2022 Certificate Number: 5314.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests:

| **Test Technology:** | **Test Method(s):** |
|---|---|
| Photovoltaics and other power conversion systems including PPC – Power Generating Units[1] | Norma técnica de supervisión de la conformidad de los módulos de generación de electricidad según el Reglamento UE 2016/631.<br><br>Procedimiento de verificación, validación y certificación de los requisitos del PO 12.3 sobre la respuesta de las instalaciones eólicas y fotovoltaicas ante huecos de tensión" versión 11;<br><br>UNE 206007-1 IN;<br>VDE-AR-N 4105;<br>CEI 0-16;<br>CEI 0-21;<br>UNE 217001 IN;<br>RD 244/2019;<br>UNE 206007-2 IN;<br>VDE-AR-N4110;<br>VDE-AR-N-4120;<br><br>FGW TG3, Determination of electrical characteristics of power generating units and systems connected to MV, HV and EHV grids.;<br><br>FGWTR4, Demands on modelling and validating. Simulation models of the electrical characteristics of Power Generating Untis and Systems, storage systems as well as their compenents; |

| **Test Technology:** | **Test Method(s):** |
|---|---|
| Photovoltaics and other power conversion systems including PPC – Power Generating Units[1] (*cont.*) | VDE-ARN4130;<br>ENA-EREC G98;<br>ENA-EREC-G99<br>EN 50549-1;<br>EN 50549-2<br><br>VDE-V 0126-1-1;<br>EN 50438;<br>UTE C 15-712-1;<br>C10/11;<br>NDU-013;<br>NDU-015;<br>ABNT NBR 16149;<br>ABNT NBR 16150;<br>INMETRO ordinances 004/2011;<br>INMETRO ordinances 357/2014;<br><br>Regulation 2016/631 of 14 of April 2016 establishing a network code on requirements for grid connection of generators;<br><br>COES SINAC, Procedimiento Técnico del Comité de Operación Económica del SEIN. Aprobado mediante Resolución OSINERGMIN Nº 035-2013-OS/CD;<br><br>EN 50530;<br>IEC 61683;<br>IEC 61727;<br>UL 1741;<br>IEC 62116;<br>IEEE 1547;<br>IEEE 929;<br><br>Norma Técnica de Conexión y Operación de PGMD en instalaciones de media tensión.<br>Norma Técnica de Seguridad y Calidad de Calidad de Servicio;<br><br>Grid Connection code for Renewable Power Plants (RPPS) connected to the electricity transmission system (TS) or the distribution system (DS) in South Africa;<br><br>NRS 097-2-1;<br>IRR-TIC;<br>IRR-DCC (MV);<br>CRE-3025; |

| **Test Technology:** | **Test Method(s):** |
| --- | --- |
| Photovoltaics and other power conversion systems including PPC – Power Generating Units[1] (*cont.*) | Electric Rule 21:<br><br>Metropolitan electricity Authority. Grid-connected inverter regulation;<br>Provincial Electricity Authority´s Regulation on the Power Network System Interconnection Code.<br>Arrêté Relatif aux prescriptions techniques de conception et de fonctionnement pour le raccordement à un réseau public de distribution d'électricité en basse tension ou en moyenne tension d'une installation de production d'énergie électrique;<br><br>DEWA. Standards for distributed renewable resources generators connected to the distribution network;<br><br>Malaysian Grid Code:2015<br>Código de Redes Fotovoltaico, Normas técnicas, operativas y de calidad, para la conexión de los sistemas de centrales solares y centrales solares con tecnología fotovoltaica al sistema interconectado nacional (SIN);<br><br>ORDER 30/2013;<br>AS 4777.2;<br>AS 4777.3;<br><br>Phillipine Grid code:2016;<br><br>Solar Energy Plants Grid Connection Code (Egypt);<br><br>Kenya Electricity Grid Code.;<br><br>Official Gazette Communique - Number 28783. Communique on implementation of the regulation related with unlicensed electricity generation in electricity market;<br><br>The Grid Code for the Nigeria Electricity transmission system;<br><br>Indian Electricity Grid Code:2010;<br><br>IEC 61439-1;<br>IEC 61439-2; |

| **Test Technology:** | **Test Method(s):** |
|---|---|
| Photovoltaics and other power conversion systems including PPC – Power Generating Units[1] (*cont.*) | Central Electricity Authority Notification, India;<br><br>IEC 61851-1;<br>UL 2202 ;<br>UL 2594 ;<br>UL 3703 ;<br>IEC 62817;<br>ISO 6858;<br>IEC 62909-1;<br>Portaria 73-2020;<br>TOR;<br>UNE 217001;<br>UNE 217002 |

[1] This laboratory meets A2LA R104 – General Requirements: Accreditation of Field testing and Field Calibration Laboratories for these tests

# Accredited Laboratory

A2LA has accredited

## CERTIFICATION ENTITY FOR RENEWABLE ENERGIES USA, LCC

*Miami, FL*

for technical competence in the field of

## Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 14th day of January 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5314.03
Valid to February 28, 2022

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*