



QUALITY INFRASTRUCTURE FOR RENEWABLE ENERGY SOURCES & ENERGY EFFICIENCY  
IN LATIN AMERICA AND THE CARIBBEAN

## Concept and Program

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### Workshop on „ Intercomparison on Harmonics “

28.11.2015. Bento Goncalvez, Rio Grande do Sul, Brasil.

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#### Background

The Organization of American States OAS, the Sistema Interamericano de Metrología (SIM), the Comisión Panamericana de Normas Técnicas (COPANT), the InterAmerican Accreditation Cooperation (IAAC), and the Physikalisch-Technische Bundesanstalt (PTB), have agreed to cooperate in the regional project Quality Infrastructure for Energy Efficiency and Renewable Energy Sources in Latin American and the Carriibbean. The objective is to strengthen the capabilities of the regional quality infrastructure organizations of SIM, COPANT and IAAC and of their national members in providing services for the fields of energy efficiency and renewable energy sources and to promote mutual coordination in order to support the implementation of the respective national energy policies.

In the subject of energy efficiency and renewable energy sources, the traceability of measurements of the quality of electrical power and the calibration of Power Quality Reference Standards is an issue.

During a technical seminar that took place in Rio de Janeiro Brasil in August 2014 on Calibration of Power Quality Reference Standards, the participating national institutes of metrology in SIM confirmed their need and interest in strengthening their technical competence in this area with the realization of an Intercomparison on Harmonics.

#### Target Group

Metrologists of SIM institutes which have the necessary equipment to perform the intercomparison on Harmonics and participated on the trainings: "Traceability for Quality Power Measurements" and "Calibration of Power Quality Reference Standards"

#### Expected Impact

Industry, users and different actors in the quality infrastructure of energy efficiency and renewable energies will benefit from support by SIM metrology institutes that have increased their competences in measuring methods of power quality.

#### Contribution to project goal (indicators)

The activity will contribute to increase the number of energy-related services from NMIs in the SIM region with leading technical capabilities (indicator 2).

#### Methodology

- Input lectures,



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- plenary discussions.

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**Implementing Partners** SIM, PTB International Technical Cooperation.

**Responsibilities and inputs of the implementing partners and/or target group**

Implementing partners	Responsibilities and inputs:
<b>SIM/Working Group</b>	<ul style="list-style-type: none"> <li>• Conceptual input</li> <li>• Coordinate selection of participants</li> <li>• Organization of the event</li> </ul>
<b>Hosting NMI</b>	<ul style="list-style-type: none"> <li>• Logistic support at workshop destination to participants travel</li> <li>• Provide venue</li> </ul>
<b>National NMIs</b>	<ul style="list-style-type: none"> <li>• Active participation</li> <li>• Provision of necessary information</li> </ul>
<b>PTB International Technical Cooperation</b>	<ul style="list-style-type: none"> <li>• Conceptual input</li> <li>• Financial support for the program (e.g. costs of the workshops, travel costs for participants from developing countries, travel costs for the technical experts)</li> <li>• Support to moderation of the event</li> </ul>