



Renewable Energy and Climate Science: Metrology and Technology Challenges in the Americas

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Organization of
American States



The Project





General objectives

This effort seeks to increase collaboration among members of the SIM and that aligns with the regional vision and shared among member states of the OAS, where technological progress is motivated by the need to:

- A sustainable economy based on low GHG emissions
- The scientific discovery, innovation and R & D to promote growth (intensive-growth) - do more with less or circular production
- The welfare and safety of the citizens of the Americas



General Objectives

The effort to address energy and Climate challenges by improving measurement science capabilities in the Americas region is vital to support a sustained economic growth.

Climate Change can be addressed by the deployment of RE technologies and related policies with climate change. However those efforts will require access to measurements and precise internationally recognized standards.

So it is necessary that the National Institutes of Metrology in each country, are aware of the challenge to overcome, but also the opportunities that this provides. In particular, regarding the skills required in standards and measures necessary for the implementation of these policies, is an important step to guarantee the quality and international acceptance of the measured data *i.e.* air quality, greenhouse gases (GHG), RE Technologies standards and characterization of renewable energy sources, among many others.

"International technical cooperation and partnership between the National Metrology Institutions in the Americas is vital to advance this tremendous effort."

Objective

To contribute to advancing deployment of RE technologies and low carbon economic growth in the context of the Energy and Climate Change Partnership of the Americas, and to reduce the region's potential contribution to Climate Change, while promoting its overall economic development.

Specific Objective

Development and deployment of the technology, measurements and associated standards needed in the Americas to provide effective and efficient implementation of RE technologies that sustain a low-carbon economy and energy independence.



NMIs' Needs

What are the needs?



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- Greenhouse Gas (GHG) Measurements
- Climate data control
- Climate data trasability
- Instrument calibration
- Airborne Particulate Measurements
- Biofuels Standards/Biorefineries
- Renewable Energy (Bio, Wind, Solar, etc.)
- Energy Efficiency for Buildings
- Energy Distribution Infrastructure/Smart Grid
- Natural Gas Distribution Infrastructure
- Sustainability/Life Cycle Analysis
- Other?



Muchas Gracias

Thanks

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