



Workshop on

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

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Organization of
American States



NIST
National Institute of
Standards and Technology
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Renewable Energy and Climate Science

- Implementation of renewable energy and climate change related policies around the globe will require access to accurate, internationally recognized measurements and standards.
- These will be critical for both policy-making purposes as well as evaluating the impact of mitigation efforts.
- Such capabilities will be equally important for assessing the impact of energy and climate change policies on the economic development of each country.
- National Metrology Institutes (NMI) in each country need to be aware of the measurement and standards capabilities necessary for implementation of such policies.

Energy and Climate Partnership of the Americas (ECPA)

- ECPA was established in 2009 in recognition of “the fact that energy and climate change are among the most important issues confronting our future, and it reaffirmed the commitment of the countries of the Americas to work together towards a clean energy future”.
- ECPA established seven principles as its pillars, including energy efficiency, renewable energy, energy infrastructure, etc.

Objective of This Workshop

- Identify technology and metrology areas where training and sharing of best practices would be most beneficial for countries of the Americas;
- Start planning of workshops to improve local and regional measurement and standards infrastructure for renewable energy and climate science;
- Explore ways to promote regional and international partnerships to share approaches and best practices for expanded utilization of renewable energy, measurement of air quality, GHGs and other pollutants, and efficient energy use and distribution systems; and
- Develop an initial **Action Plan for the Americas**.

Agenda

- Plenary Session – Overview of Metrology and Technology Challenges
- Presentations from SIM Regions
- Panel Discussion – Needs and Priorities
- Wrap-up Session – Future Activities?

Outcome : ***An Action Plan for the Americas!***

Panel Discussion - Needs and Priorities

Objective: To identify common themes, needs and priorities!

Possible Topics of Discussion:

- Greenhouse Gas (GHG) Measurements
- 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
- Quality Infrastructure
- Other?