

Energy Resilience for the Americas: Frameworks, Tools, Applications, and Experiences in Reinforcing Energy Systems

29 August 2017

Some Housekeeping Items

Two Options for Audio (select audio mode):

1. *Listen through your computer.*

- Please select the “mic and speakers” radio button on the right hand audio pane display

2. *Listen by telephone.*

- Please select the “telephone” option in the right-hand display, and a phone number and PIN will display.

3. *Panelists - Please mute your audio device when not presenting*

4. *Technical Difficulties:*

- *Contact the GoToWebinars Help Desk: 888.259.3826*

Some Housekeeping Items (continued)

- **To ask a question**
 - Select the 'Questions' pane on your screen and type in your question
- **Having trouble viewing the webinar?**
 - PDFs of the presentations can be accessed at <https://cleanenergysolutions.org/training>
- **Share with others or watch it again**
 - A video/audio recording of this Webinar and the slide decks will be made available at: <https://cleanenergysolutions.org/training>
- **Recordings are also available on our YouTube channel**
 - <http://www.youtube.com/user/cleanenergypolicy>

Disclaimer

- *The Clean Energy Solutions Center does not endorse or recommend specific products or services. Information provided in this webinar is featured in the Solutions Center's resource library as one of many best practice resources reviewed and selected by technical experts*

Agenda

1

**Welcome &
Introductory
Remarks**

2

**Overview of the
Clean Energy
Solutions Center**

- **Stephanie Hernandez**, Clean Energy Solutions Center

3

Presentations

- **Abraham Ellis** - Sandia National Laboratory
- **Guenter Conzelmann** – Argonne National Laboratory
- **Domingo Mateo** – Ministry of Energy and Mines in Dominican Republic
- **Mauricio Cuellar** - The National Energy Control Center in Mexico

4

**Question and
Answer Session**

Solutions Center: Background & Vision

- Multilateral initiative, of the Clean Energy Ministerial, has been co-led by the Australian Department of the Environment and Energy, and the U.S. Department of Energy. Additional funding support from Sweden's Ministry of the Environment and Energy, and Power Africa
- In-kind support from Canada and Mexico
- The Solutions Center is a unique CEM initiative assisting countries in all regions of the world in strengthening clean energy policies and finance measures
- Supporting transition of clean energy markets and technologies



*US participation & leadership are under review.

Solutions Center: Goals and Audience

Programs and Services

- **Team of 50+ experts from around the globe responded to 350+ requests for policy support from more than 80 countries**
 - Extensive support across Africa, Asia, and LAC
 - Launched support for finance measures in 2015
- **Trained over 15,000 officials through more than 225 webinars and training events with others**
- **Strong & growing partnerships with development agencies and regional and global organizations in delivery of support**
- **Over 5500 resources in curated library for policy makers**

Target Audiences

- **Primary**
 - Government Policy Makers and Advisors
- **Secondary**
 - Private-Sector Companies
 - Energy Entrepreneurs and Investors
 - Non-Governmental Organizations
 - Civil Society
 - Others Engaged in Clean Energy

Solutions Center: Partnerships

More than 35 international partners:

- Climate Technology Center and Network (CTCN)
- ECOWAS Center for Renewable Energy and Energy Efficiency (ECREEE)
- Inter-American Development Bank (IDB)
- International Energy Agency (IEA)
- International Partnership for Energy Efficiency Cooperation (IPEEC)
- International Renewable Energy Agency (IRENA)
- Low Emission Development Strategies Global Partnership (LEDS-GP)
- Renewable Energy Policy Network for the 21st Century (REN21)
- Sustainable Energy for All (SEforALL)
- United Nations Environment Programme (UN Environment)
- USAID Power Africa (USAID PA)

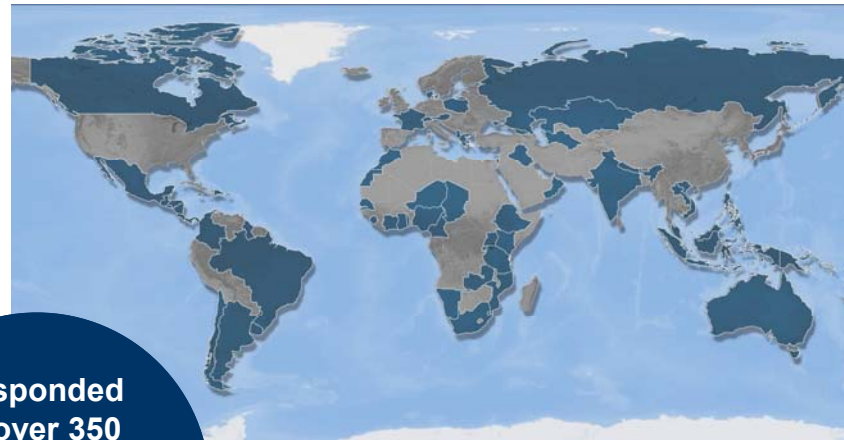


Ask an Expert: Our Experts in Action



We connect you to a global network of energy experts for personalized attention and quick response technical assistance on **strategies, regulations, standards, financial incentives, and energy transition programs** for a broad range of clean energy sectors and technologies including:

- Carbon Capture Utilization & Storage
- Energy Access
- Energy Efficiency
- Renewable Energy
- Smart Grid
- Transportation
- Utilities



Responded to over 350 requests for assistance from over 80 countries.

To request assistance, register on <http://cleanenergysolutions.org/expert>

Abraham Ellis, Photovoltaic and Distributed Systems Integration Department Sandia National Labs



Dr. Abraham Ellis leads the Photovoltaic (PV) and Distributed Systems Integrated Department at Sandia National Laboratories (SNL) in Albuquerque, New Mexico. He is involved in a wide range of activities including technology development, laboratory testing, demonstrations, simulation and analysis, technical standards and policy related to renewable energy integration in distribution and transmission systems. He has served as coordinator or chairman several technical working groups and renewable energy integration conference. Prior to Sandia, Dr. Ellis worked at Public Service Company of New Mexico. He has a doctoral degree from New Mexico State University, and is a registered professional Engineer in New Mexico.

Guenter Conzelmann, Energy, Environmental, and Economic Systems Analysis, Argonne National Laboratory



Guenter Conzelmann is the Director of the Center for Energy, Environmental, and Economic Systems Analysis at Argonne National Laboratory. He is a senior fellow with the EPIC Energy Policy Institute at the University of Chicago and the Northwestern University Argonne National Laboratory Institute of Science and Engineering. His research focuses on the development and application of modeling and simulation tools to study strategic energy and power sector issues, including renewable energy integration, smart grid and microgrid implementation, advanced grid modeling, energy sector resilience, and the environmental impacts of energy production. Mr. Conzelmann is the author or co-author of numerous publications, including journal articles, book contributions, conference papers, and sponsor reports in the energy and power systems field. He is frequently invited to speak on these subjects at conferences, workshops, and training courses around the world.

Domingo Antonio Mateo Urbáez, Ministry of Energy and Mines



Mr. Domingo Antonio Mateo Urbáez is the Director of Energy Security of the Vice-Ministry of Energy and Infrastructure at the Ministry of Energy and Mines of the Dominican Republic. He is responsible for proposing and evaluating the regulations, standards and good practices to ensure the efficient and safe performance of the National Electricity Sector, as well as the design of the Energy Matrix. He is an Electromechanical Engineer, with mention in Electricity, from the Universidad Autónoma de Santo Domingo (UASD), where he graduated in 1995. He worked for more than 14 years in important positions with the Metallurgical Consortium Dominican Republic (Consortio Metalúrgico Dominicano / METALDOM).

Mauricio Cuéllar Ahumada, The National Energy Control Center (CENACE)

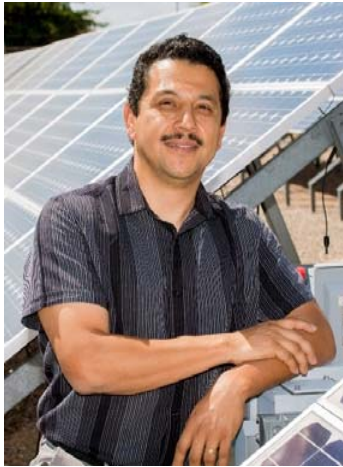


At CENACE, Mauricio joined as a manager with the responsibilities of reliability and Security for operation of the National Electric System, day ahead Market of the National Electric System, and real time Market of the National Interconnected System. He has participated in the improvement of the operation process for the National Electric System.

He is the coordinator for operative actions whit regional control centers for maintaining the integration of the electric national grid and the electric energy reliability supply and in the regional and National electric energy reliability supply comity.

He earned his Masters Degree in Electrical Engineering from IPN.

Question and Answer Session



**Abraham Ellis, Sandia
National Laboratory**



**Guenter Conzelmann,
Argonne National
Laboratory**



**Domingo Mateo, Ministry
of Energy and Mines**



**Mauricio Cuéllar,
CENACE**

Webinar recordings at the Clean Energy Solutions Center YouTube page:

<https://www.youtube.com/user/cleanenergypolicy>

Webinar recording, presentations, and information on upcoming and previously held webinars:

<https://cleanenergysolutions.org/training>

Your Participation is Appreciated!

THANK YOU!

Solutions Center home page to learn about our programs and resources

<https://cleanenergysolutions.org>

Webinar recordings, presentations, and information:

<https://cleanenergysolutions.org/training>

For more information on the **“Ask-an-Expert”** program:

<https://cleanenergysolutions.org/expert>