

Understanding the Impact of Distributed Photovoltaic on Utility Revenues and Retail Electricity Rates: Case Study on Thailand

14 December 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**

- **Katie Contos**, Clean Energy Solutions Center

3

Presentations

- **Alexandra Aznar**, Project Leader, National Renewable Energy Laboratory
- **Dr. Sopitsuda Tongsovit**, Independent Energy Consultant
- **Dr. Naïm Darghouth**, Senior Associate, Lawrence Berkeley National Laboratory

4

**Question and
Answer Session**

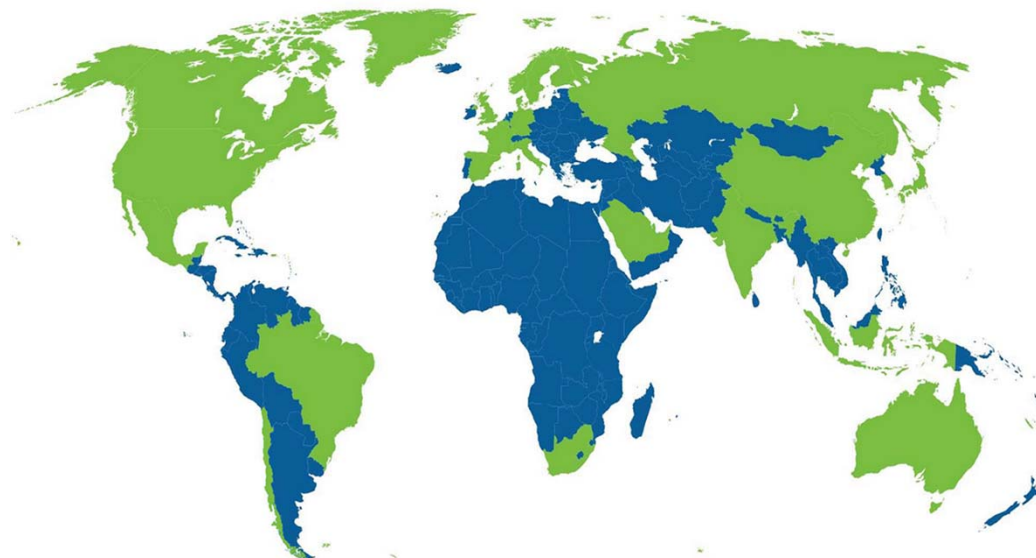
Clean Energy Ministerial

The Solutions Center:

- Launched under the Clean Energy Ministerial (CEM) in 2011

Clean Energy Ministerial:

- A high-level global forum to promote policies and programs that advance clean energy technology, to share lessons learned and best practices, and to encourage the transition to a global clean energy economy.



90%
of
Clean energy
investment

&

75%
of
Global CO₂
emissions

Solutions Center: Background & Vision

- Multilateral initiative, of the Clean Energy Ministerial, is co-led by the Australian Department of the Environment and Energy, Sweden's Ministry of the Environment and Energy, and the U.S. Department of Energy.
- Additional funding support from Power Africa
- In-kind support from Chile
- 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)

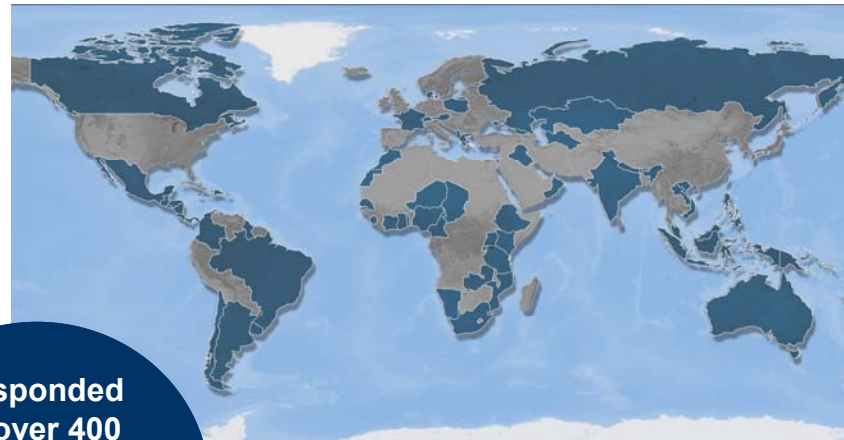


Ask an Expert: Our Experts in Action



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 400 requests for assistance from over 90 countries.

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

Alexandra Aznar, Project Leader, National Renewable Energy Laboratory



Alexandra Aznar is a project leader at the National Renewable Energy Laboratory (NREL) in Golden Colorado. She works on clean energy policies and provides solar technical assistance to local, state, and national-level policymakers. She leads the implementation of the USAID Distributed PV Toolkit. She holds a Masters of Public Affairs (M.P.A) with a concentration on energy and climate change policy from Indiana University and a B.A. in Government from Claremont McKenna College.

Dr. Sopitsuda Tongsovit, Independent Energy Consultant



Dr. Sopitsuda Tongsovit is an independent energy consultant with extensive experience in solar PV economics, distributed energy policy, regulation, and program design. Her research has supported government agencies, electric utilities, consumers, and private companies to make informed decisions about distributed energy options. Between 2016 and 2017, she received a grant from Thailand's Ministry of Energy to lead a research project that designed a national self-consumption support scheme for distributed solar PV. She has also worked with USAID Clean Power Asia to help build an enabling environment for the deployment of grid-connected renewable power systems in Southeast Asia.

Dr. Sopitsuda has a Ph.D. in Environmental Studies from the University of California Santa Cruz, and a B.A. in Chemistry from Dartmouth College.

Dr. Naïm Darghouth, Senior Associate, Lawrence Berkeley National Laboratory



Dr. Naïm Darghouth is a Senior Scientific and Engineering Associate in the Electricity Markets and Policy Group at the Lawrence Berkeley National Laboratory. Naïm conducts research and analysis on renewable energy policy, both US and international, including electricity rate design and its impact on the value of residential renewable energy systems, economics of renewable energy technologies, and federal and state energy policies. Naïm has a PhD in Energy and Resources from UC Berkeley, and holds a bachelor's and master's degree in Electrical and Computer Engineering from Cornell University and Georgia Tech, respectively, and a master's degree in Energy and Resources from UC Berkeley.

Question and Answer Session



**Alexandra Aznar,
Project Leader,
NREL**



**Dr. Sopitsuda Tongsovit,
Independent Energy
Consultant**



**Dr. Naïm Darghouth,
Senior Associate,
LBNL**

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>