

# **Accelerating Adoption of Energy-Efficient Lighting, Appliances and Equipment: An Introduction to Proven Technology and Policy Solutions**

25 July 2017

# Some Housekeeping Items

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# Disclaimer

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- *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

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## Welcome & Introductory Remarks

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## Overview of the Clean Energy Solutions Center

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

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## Presentations

- **Paul Kellett**, UN Environment
- **Rolf Smeets**, Philips Lighting
- **Nathan Mouw**, Whirlpool Corporation
- **David Manrique**, Mabe
- **Ajit Advani**, International Copper Association
- **Angelo Baggini**, University of Bergamo

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## Question and Answer Session

- **Giulia Dangiolini**, UN Environment

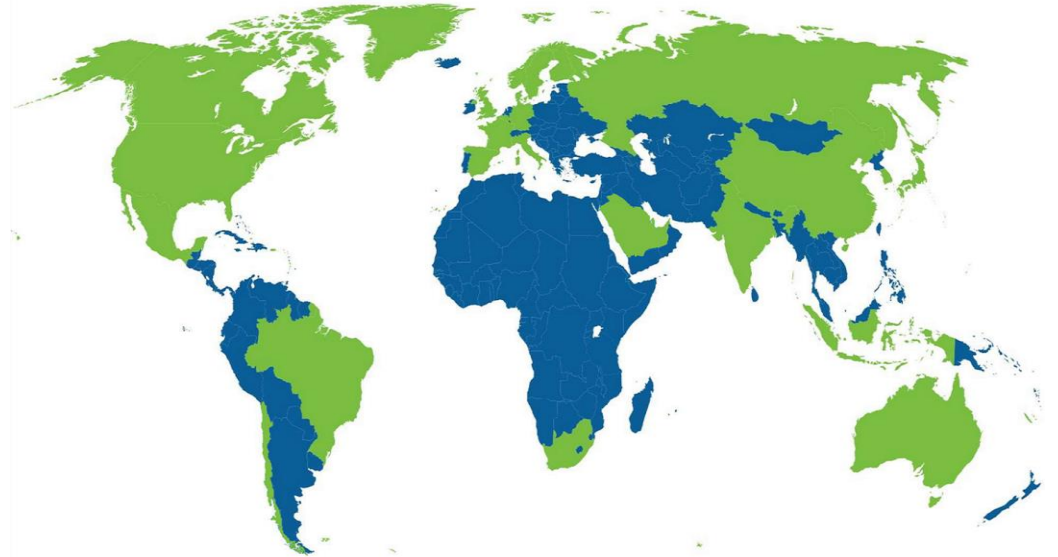
# Clean Energy Ministerial

## 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 CO<sub>2</sub>  
emissions

# 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 21<sup>st</sup> Century (REN21)
- Sustainable Energy for All (SEforALL)
- United Nations Environment Programme (UN Environment)
- USAID Power Africa ( USAID PA)

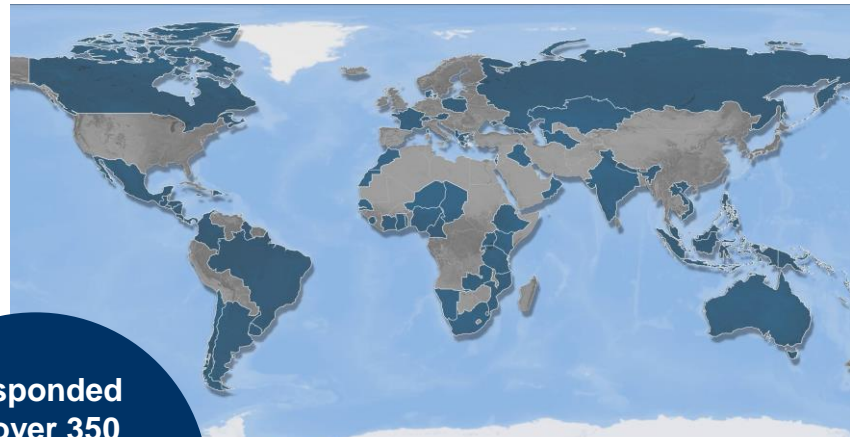


# Ask an Expert: Our Experts in Action



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>

# Paul Kellett, UN Environment's United for Efficiency Programme



Paul Kellett manages UN Environment's United for Efficiency programme, which is transforming developing and emerging markets with energy-efficient lighting, equipment and appliances. Mr. Kellett has been involved in energy efficiency and renewable energy activities over the past 20 years. This included 10 years managing Irish Energy Centre programmes on Industrial and Building Energy Efficiency and as the Manager of the Irish National Renewable Energy Programme. In 2003, he received the The European Energy Award for establishing the framework for 40% renewable electricity generation in Ireland from a base of zero.

Mr. Kellett has a degree in Mechanical Engineering from the National University of Ireland. He is a member of the Institute of Engineers of Ireland (IEI) and of the American Society of Heating, Ventilation, Refrigeration and Air Conditioning Engineers (ASHRAE).

# Rolf Smeets, Philips Lighting



Rolf Smeets has over 25 years of experience in several branches of the lighting industry, and is currently Director of Global Public & Government Affairs for Philips Lighting. He is responsible for designing and implementing strategies aiming to increase awareness and adoption of sustainable lighting solutions, through networking with governments and NGO's, with prime focus on the opportunities as created by the LED lighting revolution.

Mr. Smeets was responsible for the launch of the first Philips LED bulb range for the consumer market in 2006. He was also instrumental in mass marketing campaigns for compact fluorescent lamps, contributing to the Philips Lighting global leadership in the market transition towards affordable, energy-efficient light sources for households. He holds a MSc in Industrial Engineering from the Eindhoven University of Technology.

# Nathan Mouw, Whirlpool Corporation



Nathan Mouw has over 15 years of experience in the global home appliance industry working on technical and policy matters. He has served in various roles in increasing levels of leadership, and is currently the Senior Director of Global Product Safety and Regulatory Affairs at Whirlpool Corporation, the world's largest home appliance manufacturer. Mr. Mouw holds a Masters Degree in Mechanical Engineering and a Master of Business Administration Degree.

# David Manrique, Mabe



David Manrique has extensive experience in the sustainability field, with a particular focus on technology transfer programs in Mexico. Mr. Manrique has designed, developed and implemented strategies around energy efficiency and renewable energy in the appliances sector. He has a Bachelors degree in Chemical Engineering and a Masters in Sciences in Operational Research on Energy Efficiency and Renewable Energy. Mr. Manrique currently leads sustainability efforts at mabe, a leading appliance company in Mexico and Latin America.

# Ajit Advani, International Copper Association



Ajit Advani is an advisor to the International Copper Association (ICA) on topics related to energy efficiency, renewable energy and energy access. He is the lead author of the U4E Policy Guide on Electric Motors and Motor Systems. After earning a degree in Electrical Engineering from the Indian Institute of Technology - Bombay in 1978, he worked with Siemens in India and Germany over the next 27 years. Mr. Advani specialised in the design and execution of industrial automation solutions, and headed the Industry and Infrastructure Projects and Services businesses of Siemens in India.

In 2005, Mr. Advani joined ICA to serve as the lead for India and co-lead for Asia. Thereafter, he was tasked with the global leadership of ICA's Sustainable Energy Initiative. Mr. Advani currently serves as an advisor for sustainable energy activities around the world.

# Angelo Baggini, University of Bergamo



Angelo Baggini is an aggregate Professor of Electrical Engineering at the University of Bergamo. He is also an International Consultant on energy efficiency, transformers, power quality, and renewables. Dr. Baggini received his bachelors degree (cum laude) in 1993 and his PhD in 1997 in Electrical Engineering from the University of Pavia. His thesis research work in the CESI Metrological Lab was awarded with the "AEI Stefano e Flora Badoni" prize by the Italian Electrical Association.

Since 1997, Dr. Baggini has been a member of IEC Technical Committee 14 (Power Transformers). Since 2013, he has served as the chairman of CENELEC Technical Committee 14. He is the author of over 200 technical and scientific papers, and of "PQ Handbook" (2008) and "Electrical Energy Efficiency" (2012) published by Wiley and Sons.



# Question and Answer Session



**Paul Kellett,  
UN Environment**



**Rolf Smeets,  
Philips Lighting**



**Nathan Mouw,  
Whirlpool  
Corporation**



**David Manrique,  
Mabe**



**Ajit Advani,  
International  
Copper  
Association**



**Angelo Baggini,  
University of  
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