



**Asia-Pacific  
Economic Cooperation**

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**2017/EWG/EGNRET48/010**

## **Clean Energy Solutions Center Presentation**

Purpose: Information  
Submitted by: Clean Energy Solutions Center



**48<sup>th</sup> Expert Group on New and Renewable Energy  
Technologies Meeting  
Jeju, Korea  
29-30 March 2017**



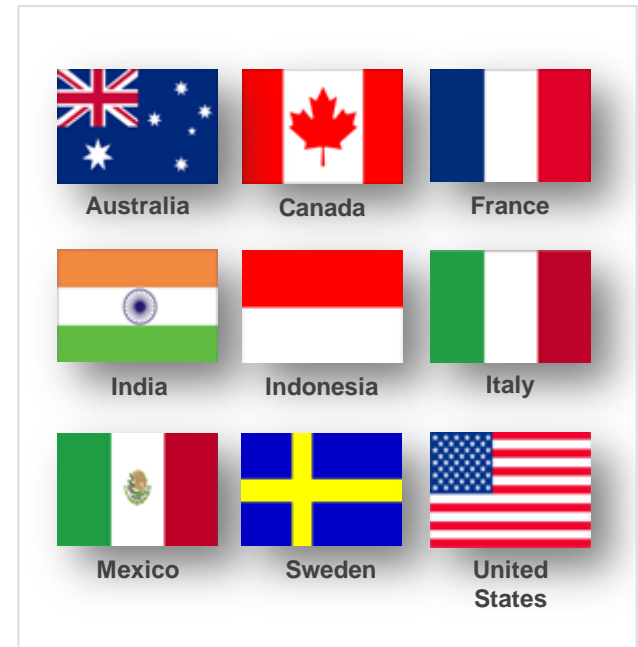
**CLEAN ENERGY SOLUTIONS CENTER**  
**APEC EGNRET 48**  
Jeju, Republic of Korea ♦ March 29, 2017

# Solutions Center Background and Vision

cleanenergysolutions.org

## Clean Energy Ministerial (CEM) launched the Clean Energy Solutions Center in April 2011

- Led by U.S. Department of Energy, Australian Department of the Environment and Energy, with support from Sweden's Ministry of the Environment and Energy, and other CEM partners
- Solutions Center is a unique CEM initiative assisting countries in all regions of the world in strengthening clean energy policies and finance measures
- Partnering with more than 35 organizations and initiatives to deliver high value policy & finance services, including:
  - Development agencies
  - Regional institutions
  - Global organizations



# Solutions Center Goals & Audiences

[cleanenergysolutions.org](http://cleanenergysolutions.org)

## Goals

- **Deliver** dynamic services that enable expert assistance, learning, and peer-to-peer sharing of experiences.
- **Serve** as a first-stop clearinghouse of clean energy policy and finance resources.
- **Share** policy and finance best practices, data, and analysis tools across countries.
- **Foster** dialogue on emerging policy and finance issues and innovation across the globe.

## Target Audiences

- Primary** Government policy makers & advisors
- Secondary** Private Sector Companies  
Energy Entrepreneurs and Investors  
Non-Governmental Organizations  
Civil Society  
Others Engaged in Clean Energy

# Major Accomplishments

- **Team of 60+ experts from around the globe delivered technical support for 350+ policy requests from more than 80 countries**
  - Extensive support across Africa, Asia, and LAC
  - Experts from over 15 countries, including CEM countries
  - Launched support for finance measures and finance portal 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**

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# CEM Secretariat Transition

# Ask an Expert: Our Experts in Action

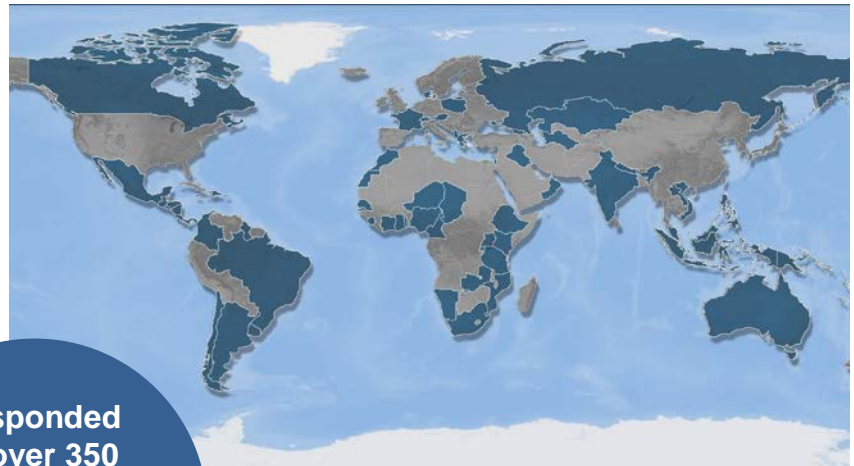
cleanenergysolutions.org

## Ask an Expert: Developing Solutions to Policy Barriers



We connect policymakers to a global network of 60+ energy experts for personalized and responsive technical assistance on **strategies, regulations, standards, financial incentives, and deployment programs** for a broad range of clean energy sectors and technologies:

- Energy Access
- Energy Efficiency
- Renewable Energy
- Finance
- Smart Grid
- Transportation
- Utilities



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

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

# Policy Support Levels

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## Various levels of support provided:

- Short turn-around support of 1-20 hours (10%)
- Higher level assistance of 20-40 hours (70%)
- More in depth support of over 40 to 120 hours (20%)
  - Potential opportunity to provide on-site support in country locations
  - On-site workshops where large number of policymakers are convened, including side events at conferences and events



# Examples of High-Impact Policy Requests



## ▪ Montserrat

- Assisted with development of clean energy awareness campaign for consumers



## ▪ South Africa

- Supported strategy to establish a net feed in tariff (NETFIT) policy for South Africa, stimulating market for small-scale generation



## ▪ Economic Community Of West African States (ECOWAS)

- Assisted with regional policy to mainstream gender into energy access with policy adopted at Ministerial level December 2016
- Supported development of regional renewable fuels standards
- Developed clean cookstove national action plans for 12 countries



## ▪ Mauritius

- Authored chapter on gender mainstreaming for Mauritius's Long-term Energy Strategy for the Ministry of Energy and Public Utilities

# Working with Partners on Ask an Expert Delivery



**VIETNAM.** Assistance with policies, regulations, and incentives to scale up investment in renewable energy and energy efficiency

- In partnership with APEC



**ANTIGUA & BARBUDA.** Assistance with developing business model for management of Sustainable Island Resource Framework Fund

- In partnership with Organization of American States



**SOUTH PACIFIC ISLANDS.** Provided assistance to islands in the South Pacific, building policymakers capacity to prepare financial proposals to successfully secure funding for clean projects

- In partnership with IRENA Lighthouse Initiative

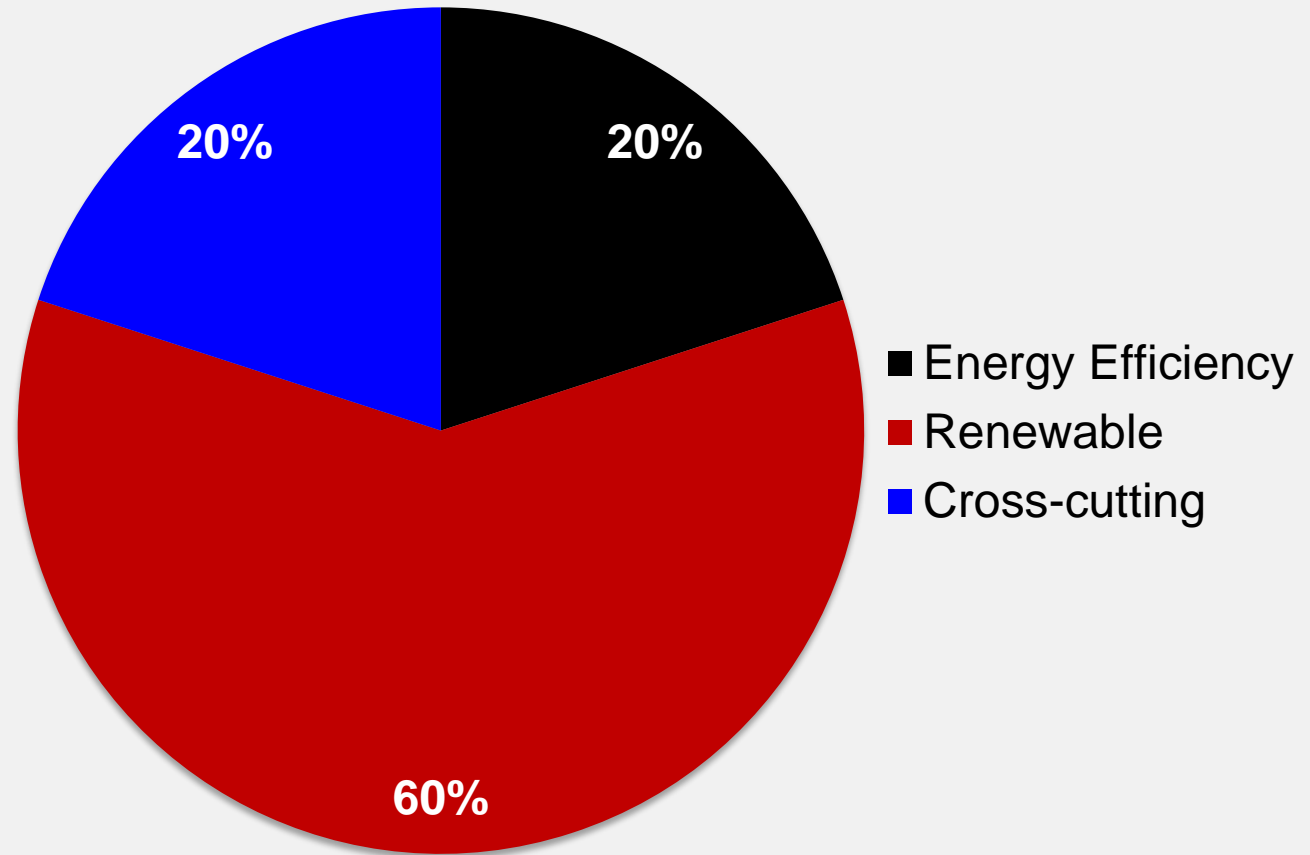


**MEXICO.** Assistance to SENER with structuring electricity markets that align with country's new energy reforms

- In partnership with IADB

# Requests by Sector

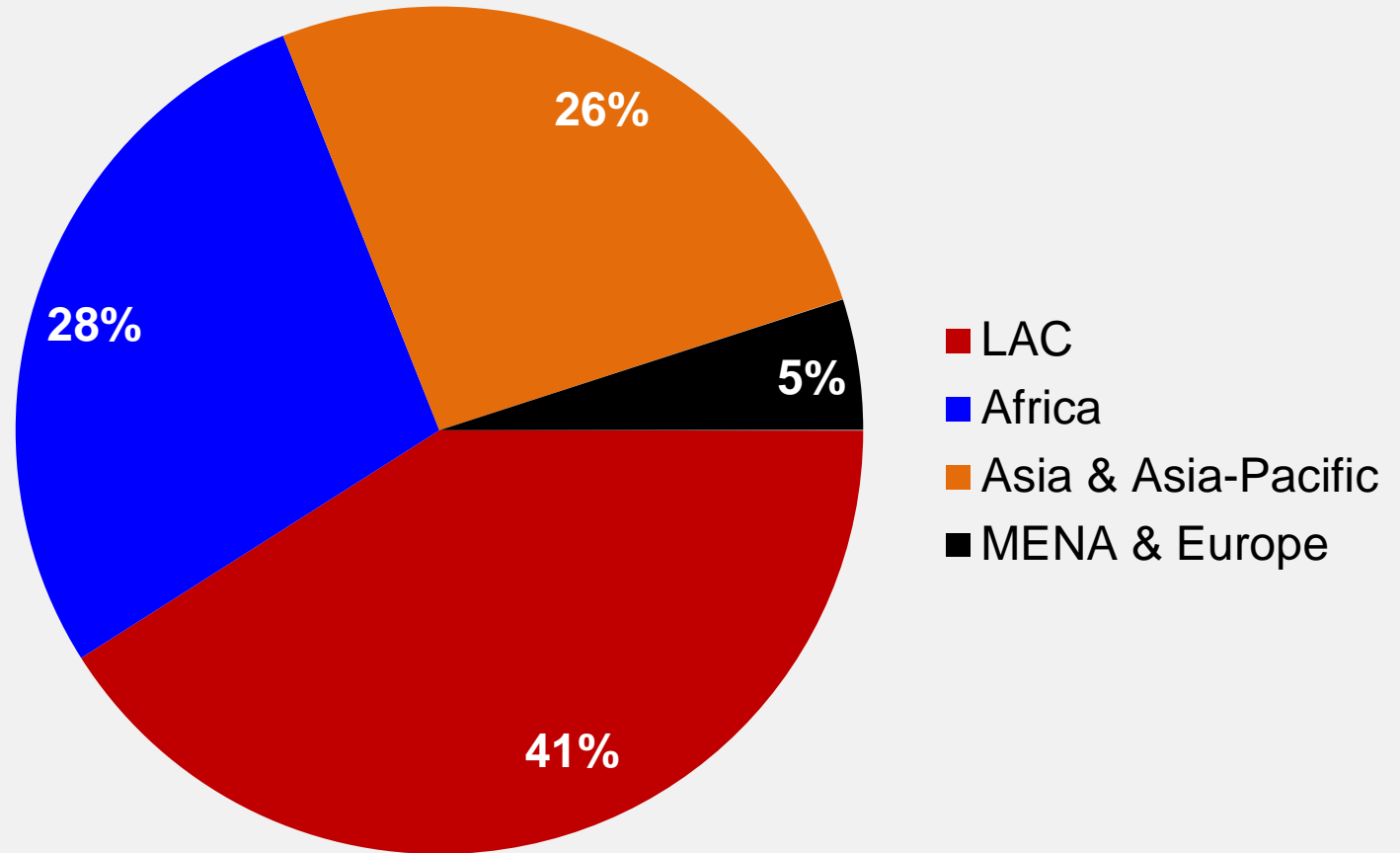
## Sector Distribution by Percentage



**\*\*Cross-cutting finance, transportation, overall clean energy strategies, etc.\*\***

# Requests by Region

## Regional Distribution



# Capacity Building: Webinars, E-learning, Training Workshops

To date, more than **225 web seminars** & events training more than **15,000** people

## Partnering on Regional & National Training Events

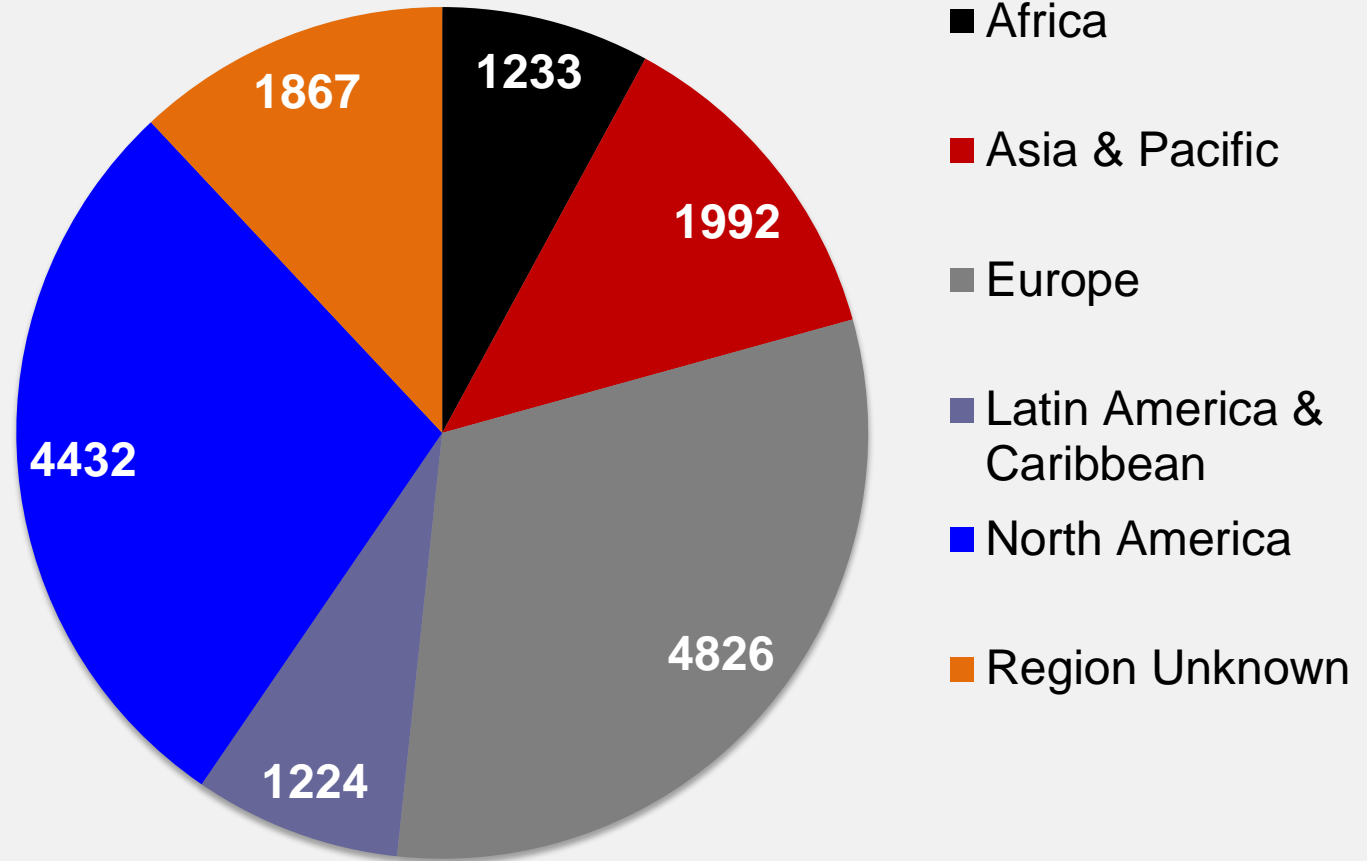
- **APEC:** Training on clean energy policies and measures for the public sector to drive private investment
- **ECREEE:** Training for member states on energy efficiency and renewable energy policies and plans, and web trainings on RETScreen with in-kind support from the **Canadian Government**
- **IRENA:** Collaborate on trainings for electricity market and utility regulators in west Africa and southern Africa
- **ADB:** Training workshop in Nepal on FIT design, reverse auctions, and business models for government, utilities, and finance community, focused on solar PV and clean energy grid integration training with Asia Clean Energy Forum in June
- **Malaysia:** Training workshop on net metering policies
- **ECREEE & EUEI PDF:** Training on mini-grids policies and Quality Assurance Framework (*March 2017*)

## Policy Specific Webinars Across Regions

- Held 50 webinars between March 2016 and February 2017 with over 3500 attendees, several in French and Spanish
- Adding all of webinar recordings to Solutions Center YouTube Channel
  - Over **33,000** video views
  - Over 200 clean energy videos available
  - Nearly 600 subscribers
- Webinar partners include SE4All, REN21, ISGAN, IPEEC, CLUB-ER, Mission Innovation, GIZ, Practical Action, and many more

# Webinar Attendees by Region

## Webinar Attendance by Region



# Improvements to Curated Library of Resources

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## Resource Library

- Ongoing technical improvements to enhance search functionality for users.
- More than **5,500** resources with ongoing updates and additions of new studies and tools.

## Webinars

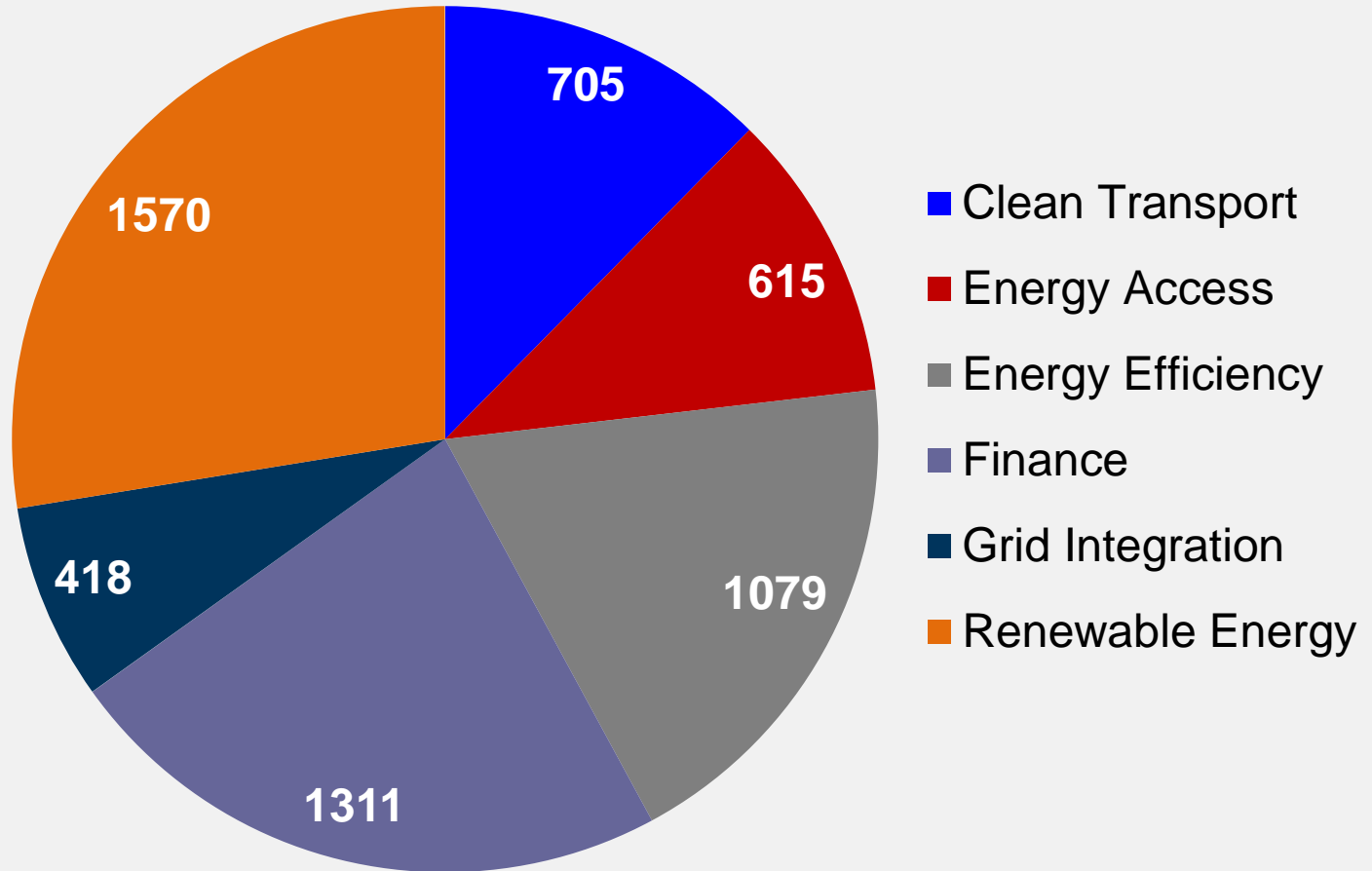
- Substantially increased the number of training webinars provided through the resource library and through Solutions Center YouTube channel.

## Non-English Language Resources

- Key documents translated into multiple languages.
- Added translation tool to key resource web pages allowing content to be available in multiple languages.

# Resource Library Collection

## Policy Reports and Tools by Sector





# Expanding and Improving Services

- **Integrated Finance Solutions Center**

- Providing Ask an Expert services and resources on finance mechanisms that advance clean energy deployment

- **Developing Dedicated Webpage and Content and Assistance on Energy – Water Nexus**

- **Expanded Services on Energy Efficiency for City Policymakers**

- Ask an Expert services, trainings, and resources for city policymakers
- Teaming with organizations focused on supporting subnational governments, including the members of the Building Efficiency Accelerator (BEA) and ICLEI

# Partnership & Outreach Approach

- **Topical, Regional, and Broader Global Elements**
  
- **Topical Collaboration**
  - ***Power System Transformation*** – 21CPP & ISGAN advisory support, World Bank ESMAP, IRENA
  - ***Mini-Grids*** – Global LEAP and Power Africa
  - ***Private Investment Mobilization*** – LEDS GP Investment Accelerator, PFAN, Climate Finance Innovation Lab
  - ***Sub-National*** – Building Efficiency Accelerator, ICLEI, Under 2 MOU, C-40, Copenhagen EE Center, R-20
  - ***Gender & Energy*** – UN Women, Power Africa, World Bank
  - ***Energy & Water*** – Florida A&M University
  - ***Appliance and Equipment Efficiency*** – SEAD

# Regional Partnership Examples

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## ▪ Africa

- AfDB, ECOWAS, EC-DEVCO, Power Africa, Africa LEDS Partnership, SACREEE

## ▪ Asia & Pacific

- ADB, APEC, ASEAN, Asia LEDS Partnership, USAID RDMA

## ▪ LAC

- CARICOM, CDB, IDB, OAS, OLADE, LEDS LAC Partnership

# Global Cross-Cutting Partnerships

- **CTCN** – coordinated assistance delivery
- **EC-DEVCO** – developing cooperation
- **GIZ** – linked help desk services
- **IRENA** – lighthouse initiative support
- **IPEEC** – outreach, webinars
- **Leonardo Energy & ICA** – webinars, outreach
- **REEEP** – outreach, webinars
- **REN21** – webinars, outreach
- **SE4All** – assistance delivery for action & investment plans
- **UNEP & UNIDO** – outreach and webinars
- **USAID** – joint regional activities
- **World Bank** – ESMAP collaboration

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# Structure and Sustainable Funding



**THANK YOU!**

**Terri Walters**  
**Clean Energy Solutions Center**  
terri@katevanconsulting.com  
+1 303-817-4733