

# Clean Energy Solutions Center Technical Assistance Support

**47<sup>th</sup> APEC EGNRET Meeting**  
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# Solutions Center Background & Vision

CleanEnergySolutions.org

*The Clean Energy Ministerial, an international forum that supports the transition to a global clean energy economy, launched the Clean Energy Solutions Center in 2011.*

## **The Clean Energy Solutions Center (CESC):**

- Is one of 9 CEM Initiatives — others include: 21st Century Power Partnership, International Smart Grid Action Network, Multilateral Solar & Wind Working Group
- Provides no-cost assistance to governments and their partner organizations
- Helps governments design, adopt and implement policies and programs & identify finance mechanisms that support the deployment of clean energy technologies
- Partners with 35+ international energy and finance organizations, including IEA, IPEEC, SE4All, CTCN, Bloomberg New Energy Finance, IRENA, REN21
- Is co-chaired by the U.S. Department of Energy and the Australian Department of Environment & Energy
- Is operated by the U.S. National Renewable Energy Laboratory (NREL)

# Services & Resources Offered

CleanEnergySolutions.org

- **Ask-an-Expert**
  - ✧ No-cost, on-demand expert assistance tailored to local needs
  - ✧ Global network of 60+ energy policy and finance experts
  - ✧ Technical assistance on policy barriers to clean energy deployment
  - ✧ Guidance on financing options for clean energy project development
- **Webinars and online training**
  - ✧ Frequent webinars on policy & finance topics in conjunction with partners
  - ✧ Online e-learning courses & training materials (videos, presentations, curriculum)
- **Clean energy policy resources**
  - ✧ Policy briefs, best practice reports, analysis, data and software tools on website
- **Customized assistance and training**
  - ✧ e.g. a week-long capacity-building training on Conducting Energy Efficiency Assessments and Audits delivered in West Africa for the ECOWAS Center for Renewable Energy and Energy Efficiency (ECREEE)

# Examples of Online Training & Webinars

- **Renewable Sources in Electricity Markets** - e-learning course prepared for the Asia-Pacific Economic Cooperation Energy Working Group
- **Financial Analysis with RETScreen**
- **Auctioning Renewable Energy Projects: Lessons Learned from Auction Design for Renewable Electricity**
- **Greening the Grid: Implementing Renewable Energy Zones for Integrated Transmission and Generation Planning**
- **Operating High Variable, Renewable Generation Power Systems: Lessons Learned from Ireland and Northern Ireland**
- **How Distribution Grids Can Integrate More Renewable Energy: Lessons Learned from the GRID4EU Project**
- **Smart Grid Demand-Side Management and Demand Forecasting for the Residential Sector**

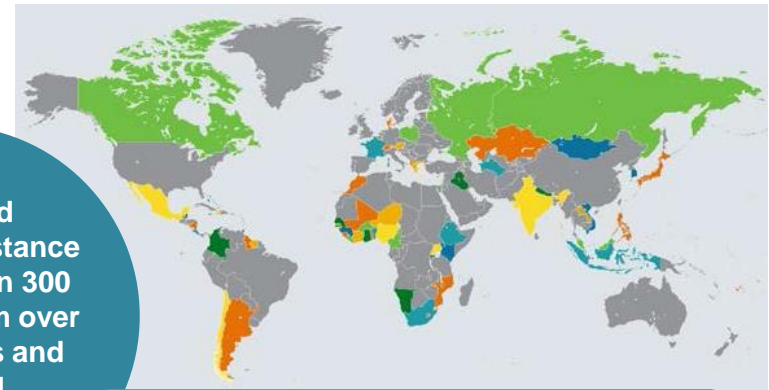
# Ask-an-Expert : Solutions to Policy Barriers



CESC connects you to a global network of energy experts for personalized attention and quick-response technical assistance on **strategies, regulations, standards, financial incentives, and deployment programs** for a broad range of clean energy sectors and topics, including: renewable energy, utilities/smart grid, energy access, clean transportation, energy efficiency, and micro-finance.

- Requests can come from staff or officials at **all levels of government** – national, regional, and local.

Delivered  
no-cost assistance  
for more than 300  
requests from over  
90 countries and  
regional  
organizations



To request assistance, go to  
[cleanenergysolutions.org/expert](https://cleanenergysolutions.org/expert)

- Service also supports organizations working with governments.

# Ask-an-Expert : Levels of Support

Solutions Center experts provide various levels of support depending on the complexity of the request:

1. Short turn-around requests : 1 - 20 hours
2. Higher-level support : 20 - 40 hours
3. In-depth support : 40 - 120 hours

- ✧ Potential opportunity to provide on-site support in country locations, especially when others cover travel costs
- ✧ Can include on-site workshops where large number of policymakers are convened, including side events at conferences and events

# Assistance Examples : Asia & the Pacific

- **Republic of Korea:** assisted with information on how to successfully meet and exceed renewable energy requirements subsequent to the recent implementation of a national renewable energy portfolio standard.
- **Viet Nam:** reviewed renewable energy regulatory/policy frameworks and offered recommendations for policy reforms and finance mechanisms in support of NDC action plan.
- Assisted with development of regulatory measures to meet energy targets in the **Federates States of Micronesia**.
- Hosted training, in partnership with IRENA, focused on setting renewable energy targets for small island states including **Fiji, Vanuatu, Kiribati, Samoa,** and the **Marshall Islands**.
- Supported FiT adoption in **Malaysia** by facilitating partnership between the Malaysian Sustainable Energy Development Authority (SEDA) and the Clean Energy Regulators Initiative (CERI).

# Assistance Examples : Asia & the Pacific

- Assisted **Indonesia**'s Ministry of Energy & Mineral Resources to develop approaches for engaging banks in offering energy efficiency financing.
  - ✧ CESC experts identified activities designed to engage banks in offering financing for energy efficiency projects and highlighted best practices regarding approaches to identifying financial partners.
- Assisted with development of roadmaps focused on energy efficiency policies and measures at an **Asian Regional Workshop** in Singapore.
  - ✧ Provided in collaboration with the Asian Development Bank (ADB) and the International partnership for Energy Efficiency and Cooperation (IPEEC).
- **India**: Web seminar training on policy best practices for industrial efficiency programs
- **APEC**: Workshop on enhancing the policy environment to promote SME participation in energy efficiency products markets - Viet Nam, Oct. 2016



# Examples of Regional Collaborations

- **Organization of American States (OAS)** - to support Caribbean countries with design and implementation of robust sustainable energy action plans and broader clean energy policy frameworks, resulting in:
  - ✧ Implementation and assessment of key renewable energy projects in Antigua & Barbuda
  - ✧ Launch of an energy efficiency standards and labeling program in Belize
  - ✧ Facilitation of power purchase agreement development in Trinidad & Tobago
- **Economic Community of West African States (ECOWAS)** - to assist 15 member countries with:
  - ✧ Developing national energy efficiency action plans
  - ✧ Gender mainstreaming in energy access policy and regulation

# Ask-an-Expert : Assistance Process

1. Government representative submits a request:
  - ✧ Use the Ask-an-Expert form provided on the CESC website
  - ✧ Email requests directly to [expert@cleanenergysolutions.org](mailto:expert@cleanenergysolutions.org)
  - ✧ Contact a Solutions Center policy expert directly
  - ✧ Approach a Solutions Center presenter attending an event
2. Requests are reviewed and an initial response is provided within 2 business days
3. Scoping call between NREL's Ask-an-Expert lead and the requestor is conducted to assess details and scope of policy/program needs
4. Matchmaking – NREL's Ask-an-Expert lead:
  - ✧ identifies the appropriate expert to provide support; matching expertise to policy needs
  - ✧ facilitates introductions and communications between expert and requestor



# Ask-an-Expert : Assistance Process

5. Expert works directly with requester and other stakeholders to assure needs are met and results are delivered
6. NREL's Ask-an-Expert project lead monitors progress throughout the assistance process to assure quality service is delivered
7. Details of expert support outcomes and findings are provided in report and/or presentation format (kept completely confidential if so desired)
8. Once completed, requestor completes a feedback survey on how the assistance will be utilized and provides quotes on value
9. NREL's Ask-an-Expert lead and/or expert follows up with requestor in ~6 months to assess progress and outcomes
10. More than one request from a country, region, or locality is permitted

# Thank You

## Questions?

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**<https://cleanenergysolutions.org>**

## Additional Slides

# The Clean Energy Ministerial (CEM)

*Promotes policies & programs to support the transition to a global clean energy economy.*

## **Participants (25):**

Australia, Brazil, Canada, Chile,  
China, Denmark, European  
Commission, Finland, France,  
Germany, India, Indonesia, Italy,  
Japan, Korea, Mexico, Norway,  
Russia, Saudi Arabia,  
South Africa, Spain, Sweden,  
United Arab Emirates,  
United Kingdom, United States

## **Initiatives (9):**

21st Century Power Partnership (21CPP)  
Clean Energy Education & Empowerment (C3E) - women  
Clean Energy Solutions Center (CESC) - policy  
Electric Vehicles Initiative (EVI)  
Energy Management Working Group (EMWG)  
Global Lighting & Energy Access Partnership (LEAP)  
International Smart Grid Action Network (ISGAN)  
Multilateral Solar & Wind Working Group  
Super-Efficient Equipment & Appliance Deployment (SEAD)



# The Clean Energy Ministerial (CEM)

## Participation in Clean Energy Ministerial Initiatives and Campaigns

August 2016

		AUSTRALIA	BRAZIL	CANADA	CHILE	CHINA	DENMARK	EUROPEAN COMMISSION	FINLAND	FRANCE	GERMANY	INDIA	INDONESIA	ITALY	JAPAN	KOREA	MEXICO	NORWAY	RUSSIA	SAUDI ARABIA	SOUTH AFRICA	SPAIN	SWEDEN	UNITED ARAB EMIRATES	UNITED KINGDOM	UNITED STATES	
Initiatives	APPLIANCES (SEAD)	●	●	●	●		●			●	■	●			●	●		●	●	●	●	●	●	●	●	■	
	ELECTRIC VEHICLES (EVI)			●	■					●	●				●	●		●			●	●	●	●	●	■	
	ENERGY MANAGEMENT (EMWG)	●		●	●			●		●	●	●			●	●	●			●	●	●	●	●	●	■	
	21 <sup>ST</sup> CENTURY POWER (21CPP)						●	●				■					●				●	●				■	
	ENERGY ACCESS (GLOBAL LEAP)													●						●	●				●	■	
	SMART GRIDS (ISGAN)	●		●		●	●	●	●	●	●	●		■	●	■	●	●	●	●		●	●	■			■
	SOLAR AND WIND						■			●	■	●	●		●	●	●	●		●	●	■				●	
	CLEAN ENERGY POLICY (SOLUTIONS CENTER)	■		●						●		●	●	●			●						●			■	
	WOMEN IN ENERGY (C3E)											●			●		●				●			●	●	■	
Campaigns	ADVANCED COOLING CHALLENGE		●		●						●									●						●	
	CORPORATE SOURCING OF RENEWABLES CHALLENGE				●	●	●			●							●						●		●	●	
	ENERGY MANAGEMENT CAMPAIGN		●	●				●		●		●			●	●	●							●		●	
	GLOBAL LIGHTING CHALLENGE				●		●		●	●	●	●				●	●		●		●		●	●	●	●	
	POWER SYSTEMS CHALLENGE					●	●	●	●	●	●	●			●	●	●	●			●		●	●		●	

Non-CEM countries, non-governmental organizations, and private businesses also participate in selected initiatives and campaigns.

■ Lead      ● Participant