

Technical Assistance Support to Cities on Energy Efficiency Measures

Ms. Bethany Speer
Energy Analyst, National Renewable Energy Laboratory

Sixth International Forum on Energy for Sustainable Development
Yerevan, Armenia



CLEAN ENERGY MINISTERIAL

Accelerating the Transition to Clean Energy Technologies



- High-level global forum
 - Major economies work together to achieve goal of transitioning to a global clean energy economy
- Focused on three goals
 - Improve energy efficiency
 - Enhance clean energy supply
 - Expand clean energy access
- Three part strategy
 - High level dialogue
 - Technical cooperation
 - Engagement with private sector and other stakeholders

Background



Australia



European Commission



Brazil



Canada



China



Denmark



Finland



France



Germany



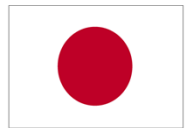
India



Indonesia



Italy



Japan



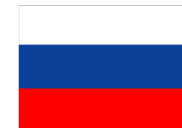
Korea



Mexico



Norway



Russia



South Africa



Sweden



Spain



United Arab Emirates



United Kingdom



United States

90% of global clean energy investment
80% of global CO₂ emissions

Solutions Center Background and Vision

CleanEnergySolutions.org

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

The Solutions Center:

- Is one of several CEM Initiatives, which include:
 - Global Superior Energy Performance Partnership
 - Super-Efficient Equipment and Appliance Deployment initiative
 - Global Lighting and Energy Access Partnership
- Helps governments design and adopt policies and programs that support the deployment of clean energy technologies
- Has more than 35 partners, including IRENA, IEA, IPEEC, Sustainable Energy for All, Bloomberg New Energy Finance and Leonardo Energy
- Is co-chaired by the U.S. Department of Energy



Clean Energy Solutions Center

CleanEnergySolutions.org

Goals

- **Serve** as a principal clearinghouse of clean energy policy and program resources.
- **Share** clean energy policy best practices, data, and analysis tools across countries
- **Deliver** dynamic, customized services that will enable expert assistance, learning, and peer-to-peer sharing of experiences .
- **Foster** dialogue on emerging policy issues and innovation across the globe.
- **Serve** as a primary resource for project financing options and information to expand markets for clean energy

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

Ask-an-Expert: Our Experts in Action

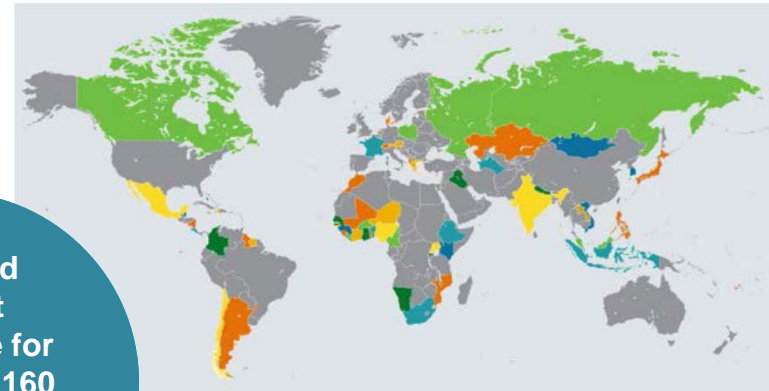
Ask an Expert: Developing Solutions to Policy Barriers



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 deployment programs** for a broad range of clean energy sectors and technologies including:

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

Delivered
no-cost
assistance for
more than 160
requests from
over 75
countries.



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

Ask an Expert Examples – Energy Efficiency

- ***Namibia:*** Provided assistance on developing a building certification program and an appliance labeling and standards program
- ***South Africa:*** Assisted with design of energy efficiency regulation for commercial building sector (adopted November 2014)
- ***Economic Community of West African States (ECOWAS):*** Assisted with developing national energy efficiency action plans for 15 member states
- ***Asian Regional Workshop (Singapore):*** assisted with development of roadmaps focused on energy efficiency policies and measure for application at the national and subnational levels
 - In collaboration with the ***Asian Development Bank (ADB)*** and the ***International Partnership for Energy Efficiency Cooperation (IPEEC)***

Ask an Expert Examples – Energy Efficiency

- ***Mexico:*** Assisted with appliance standards and labeling programs, cool surface policies, and building certification rating incentives
- ***India:*** Web seminar training on industrial efficiency programs
- ***Trinidad Tobago, Jamaica, and Barbados:*** Capacity building through delivery of trainings on conducting energy efficiency assessments and audits (Train the Trainer)
- ***St Vincent:*** Assisted with developing a public awareness campaign on the benefits of energy efficiency

Policy Assistance for Municipalities - Concept

- ***Urban Policies in Energy Efficiency:*** Decoupling economic and urban growth from energy consumption through:
 - Government policies
 - Changes in consumption and behavior patterns
 - Changes in corporate behavior patterns,
 - Innovation
- ***Public Policy Development and Institutional Capacity Building***
 - Building and strengthening local and national capacity
 - Identifying appropriate energy efficiency policy and program interventions
 - Strengthening the regulatory framework for energy efficiency markets, applying best practices that are aligned with sector and location needs
 - Collaborations with organizations and initiatives that have complimentary goals (UNECE, ICLEI Global, Regions 20 of Climate Action, etc.)

Thank You!

Contacts:

Bethany Speer
Bethany.speer@nrel.gov
+1 303-384-7421

Vickie Healey
victoria.healey@nrel.gov
+1 720-402-1107

<https://cleanenergysolutions.org/>

BACKGROUND SLIDES

The Following 3 slides are used to explain the Ask an Expert process

Ask an Expert Process

1. Government representatives submit requests by:
 - Utilizing the Ask an Expert form provided on website at <https://cleanenergysolutions.org/>
 - Email requests directly to victoria.healey@nrel.gov
 - Requests can be submitted to a Solutions Center policy expert
 - Requests can be submitted during Solutions Center events
2. Requests are reviewed & initial response provided within 2 working days
3. Scoping call between NREL's Ask an Expert lead and requester is conducted to assess details & scope of policy/program needs
4. Matchmaking – NREL's Ask an Expert lead identifies appropriate expert to provide support; matching expertise to policy needs
 - Ask an Expert lead facilitates introductions and communications between expert & requester



Ask an Expert 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 intervention process to assure quality service is delivered
7. Details of expert support outcomes and findings are provided in report and/or presentation format
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

Policy Support Levels

Various Levels of Support Provided

- Short turn-around support of 1-20 hours
- Higher level support of 20-40 hours
- In depth support of 40-120 hours
 - ✓ Potential opportunity to provide on-site support in country locations, especially when others support travel
 - ✓ On-site workshops where large number of policymakers are convened, including side events at conferences and events