

Clean Energy Solutions Center (Solutions Center)

Helping governments design and adopt policies and programs that support the deployment of clean energy technologies

Goals

The Solutions Center provides policy-makers with free resources and advisory support on clean energy policies, regulations, and financing mechanisms to help governments reach their clean energy and development objectives quickly and cost-effectively. The Solutions Center is a source of high-quality clean energy policy and deployment information, and provides expert assistance, peer forums, and training, bringing together a broad network of policy-makers to work on clean energy solutions.

Rationale for being included in the CEM

For clean energy technology to scale-up globally, governments need the capability to design effective policies and programs. This initiative was designed to provide needed support for capacity building for policy-makers, particularly in developing countries. The Solutions Center is a cost-effective way for CEM members to disseminate their knowledge and experience in policy and finance mechanism design. Robust energy policies and regulations offer the certainty, longevity, and transparency investors seek when financing projects, and are essential to driving the clean energy transformation.

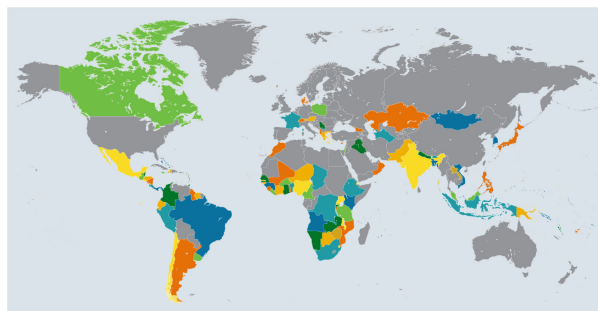
Key accomplishments

The Solutions Center assisted the *Government of Senegal* with **developing policy and regulatory frameworks** to inform the development of a NET-FIT model. The NET-FIT design enables customers to consume their own self-produced electricity onsite while offering a regulated rate at which the utility can purchase any net excess generation.

The Solutions Center provided **analytic and technical information** to inform the design of key components of a NET-FIT framework for PV, including a regulatory bulletin setting out the policy administrative and regulatory procedures, and the final tariff table outlining proposed purchase tariffs for net excess generation from distributed clean energy projects under 1 MW.

Additionally, the Solutions Center's support enabled the Electricity Regulatory Board (CRSE) to draw-up and submit draft power purchase agreements for public consultation and establish terms of reference to support its supervision of the pilot phase of the program. After the National Electricity Utility finalised its internal procedures for initiating the program, the **Government of Senegal launched its NET-FIT policy in October 2018.**

Along with serving to scale-up distributed solar power in Senegal, the policy will be critical in helping **unlock financing** for the country's renewable energy sector and could emerge as a role model for other countries to follow. Support for this request was provided by a Solutions Center expert based in Germany.



The Solutions Center supports countries around the globe, reaching more than 90 to date. Source: Solutions Center

The Solutions Center has responded to **455 requests** for policy assistance on energy efficiency, grid integration, renewable energy, finance, energy access, and clean transport from **over 90 countries**, municipalities, and regional organisations in **Africa, Asia and the Pacific, Latin America, the Caribbean, Europe, the Middle East, and North Africa.**

This year, the Solutions Center established a **satellite office in Canberra, Australia.** This new operation has led to increased engagement from Asia-Pacific and Oceania countries and territories and the ability to deliver Solutions Center services more effectively in the Asia Pacific region.

The Solutions Center is a proven model and invaluable resource for knowledge, training, and advisory support for national and sub-national governments in the design of successful policies for the accelerated deployment of cost-effective clean energy technologies.

Lead CEM Member(s)



Australia United States*

CEM Member Participant(s)



Canada China France India Indonesia Italy Mexico* Sweden United Arab Emirates

*Participation and leadership are under review.

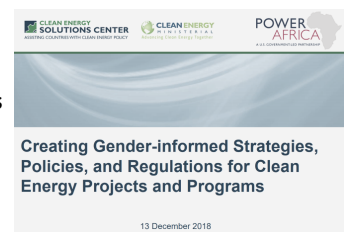
Key actions

The Solutions Center is an online portal which offers no-cost *expert policy assistance, training webinars, policy briefs* and a library of *published reports, data, and tools*. These are provided in partnership with leading international and regional clean energy organisations. Activities include:

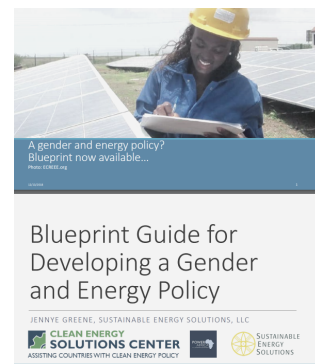
- **Ask an Expert Service:** delivering no-cost clean energy policy assistance through a global network of experts providing support to government agency representatives and supporting technical institutions.
- **Capacity Building:** through web-based training and peer learning, e-learning courses and more.
- **Teaming:** with other CEM initiatives to provide in-depth technical assistance and deliver capacity building activities.
- **Policy Briefs:** informing legislators, decision makers, analysts working for government agencies and utility executives on current best practices, lessons and success stories.
- **Resource Library:** features an extensive collection of clean energy resources, including reports on best-practice policies, data and analysis tools.
- **Unique Policy Resources:** provides current, relevant information on clean energy policies. They include emerging policy reports, enhanced policy data, and analysis tools.

Recent activities and deliverables since CEM9

- **New partnerships.** The Solutions Center launched a new partnership with the *International Solar Alliance (ISA)*. Under this collaboration, the Solutions Center is developing content for the ISA's *Solar Expert Training Course*, an online training focused on solar polices, markets and technologies. The Solutions Center also helps ISA member states through its Ask an Expert service. This assistance focuses on development and implementation of solar energy policies, regulations, and finance instruments. Additionally, the Solutions Center has forged new partnerships with the *U.S. Department of Energy's Energy Transitions Initiative, the Caribbean Center for Renewable Energy and Energy Efficiency, the Pacific Center for Renewable Energy and Energy Efficiency, the Pacific Region Infrastructure Facility*, and many others.
- **Ask an Expert service.** Since CEM 9, the Solutions Center has completed **22 Ask an Expert** requests supporting **17 countries** and **3 regional organisations** with clean energy policies, regulations, finance mechanisms, and programs.
- **Sub-national government support.** Assisted the **Department of Environment in West Bengal, India** with policy needs to establish a recycling and re-use program for lithium-ion and lead-acid batteries used in the transportation sector. Establishment of this program is a pro-active approach to accommodate the expansion of electric mobility and to minimise environmental and health damages related to batteries.
- **Webinars and training.** Since CEM9, the Solutions Center has hosted **22 webinars** with **1,389 attendees**. To date, **290 webinars** training **over 20,000 policymakers**. The Solutions Center continues to partner on webinars with other CEM initiatives, such as the *21st Century Power Partnership*.
- **New products.** Developed a **Blueprint Guide for Creating Gender-sensitive Energy Policies** that presents critical components for developing a policy on gender mainstreaming for energy access, including different considerations around design, development, implementation procedures, critical success factors, challenges, and integrated strategies.
- **Expanded resources and tools.** Since CEM9 the Solutions Center launched a web portal dedicated to the *Carbon Capture, Utilization, and Storage (CCUS) initiative*. Additionally, **more than 130 resources and tools** have been added to the curated library, bringing the **total number of resources to 3,535**.



Source: Clean Energy Solution Centre



Source: Clean Energy Solution Centre

Operating Agent(s) /
Coordinator(s)



National Renewable Energy Laboratory

Funding
Government(s)/
Organisation(s)

Australian Department of the Environment and Energy, The William and Flora Hewlett Foundation, Power Africa, and the United States Department of Energy.

Global and
In-Country Technical
Partner(s)

The Solutions Center has a broad range of partners, including regional institutions, international development agencies, multilateral development banks, global organisations, non-governmental organisations, and subnational networks. Visit <https://cleanenergysolutions.org/partner>.



Scan to access the
full partners list