

Clean Energy in Island Settings

March 11, 2015

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Welcome & Introductory Remarks

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Overview of the Clean Energy Solutions Center

- **Sean Esterly**, National Renewable Energy Laboratory

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Presentations

- **Yasemin Erboy Ruff**, Senior Associate, Energy and Climate, United Nations Foundation
- **Stéphane Tromilin**, Sustainable Energy and Transport Division, French Development Agency
- **Stewart Craine**, Founder and Managing Director, Village Infrastructure
- **Yao Zhao**, Junior Professional Associate and **Chitra Narayanswamy**, Program Officer, IRENA

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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 13 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 and the Australian Department of Industry.



Australia



Denmark



India



Indonesia



Italy



Japan



Mexico



South Africa



Sweden



United Arab Emirates



United States

Clean Energy Solutions Center

CleanEnergySolutions.org

Goals

- **Serve** as the primary resource for clean energy policy information, assistance and peer learning for governments and government-affiliated practitioners.
- **Share** policy best practices, data, and analysis tools across countries.
- **Deliver** dynamic services that enable expert assistance, learning, and peer-to-peer sharing of experiences.
- **Foster** dialogue on emerging policy issues and innovation across the globe.

Primary

- Government Policy Makers
- Advisors

Secondary

- Private Sector Companies
- Energy Entrepreneurs and Investors
- Non-Governmental Organizations
- Civil Society
- Others Engaged in Clean Energy

Target Audiences

Ask-an-Expert: Our Experts in Action

CleanEnergySolutions.org

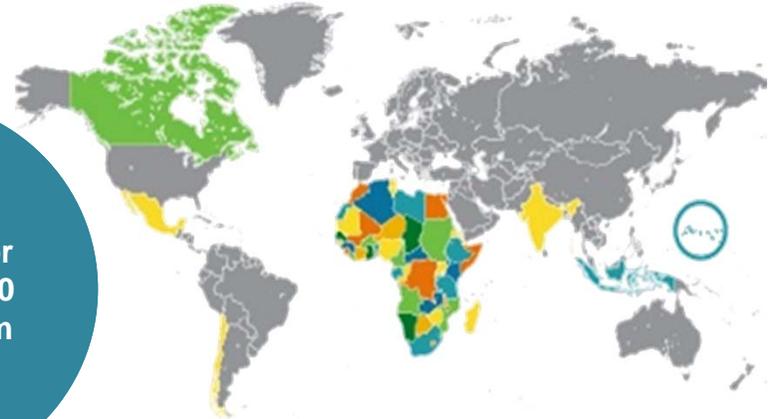


Connects policymakers to a global network of more than 30 energy experts for quick-response technical assistance on policies and programs relating to:

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



Delivered no-cost assistance for more than 120 requests from over 60 countries.



Please submit a question directly at cleanenergysolutions.org/expert
Or contact me directly to find out how the Ask-an-Expert program can benefit your work:

Sean.Esterly@nrel.gov | 303-384-7436

Yasemin Erboy Ruff, Senior Associate, Energy and Climate, United Nations Foundation



Yasemin Erboy is a Senior Associate with the UN Foundation's Energy Access team, primarily coordinating efforts to scale up energy access in developing countries. She manages member relations for the Energy Access Practitioner Network and leads research work within the Network. Yasemin majored in environmental science at Columbia University and gained her master's degree in environmental management at the Yale School of Forestry and Environmental Studies, with a focus on climate change and resource management.



ENERGY ACCESS
PRACTITIONER NETWORK

Stéphane Tromilin, Energy Project Manager, French Development Agency



After having obtained a mechanical engineering degree from ICAM and a master of science in sustainable development at HEC, **Stéphane Tromilin** joined the climate change division of the French Development Agency, a bilateral donor providing ODA loans, on energy related matters. He was then posted in Johannesburg where he covered AFD's energy portfolio for all of Southern Africa (€205 M) and thereafter in Mexico where he was in charge of AFD's climate change policy loan portfolio (€465 M). Stéphane has been project manager at AFD's headquarters in Paris for 3 years and is in charge of energy projects financing in India, Sri Lanka, Bangladesh, Lebanon, Burkina Faso, Dominican Republic and Ecuador.

Stewart Craine, Founder and Managing Director, Village Infrastructure Angels



Stewart Craine is the founder and Managing Director of Village Infrastructure Angels (VIA), and the engineering/technical manager. Stewart's experience includes project design and development in micro/mini hydropower design, large-scale wind farms, off-grid hybrid systems and engineering software development. Stewart spent 6 years as founder and CEO of Barefoot Power, as well as 4 years with Hydro Tasmania and 2 years as a volunteer project manager in Nepal. Stewart's current focus is to make solar energy affordable to everyone through assisting investors and entrepreneurs to lend energy assets to villagers for 3-10 years. Current VIA projects include long term energy lending with solar charging stations and mini-grids in countries like Ghana, Vanuatu, Indonesia, Nepal and Honduras, while other current projects are mapping energy access data from around the world including millions of off-grid household locations, using mapping for infrastructure planning and productive (non-lighting) uses of renewable energy for villages.

Yao Zhao, Junior Professional Associate, International Renewable Energy Agency



Yao Zhao works at the International Renewable Energy Agency (IRENA) as a Junior Professional Associate (JPA). His work primarily focuses on helping Small Island Developing States (SIDS) develop renewable energy projects under the Global Renewable Energy Islands Networks (GREIN). Prior to IRENA, Yao worked on financing of renewable mini-grids in rural India with Rockefeller Foundation. His professional interests lie in financing of renewable energy projects in emerging markets. Born and raised in China, he has work experience in China, India, Southeast Asia, the Middle East and the USA. Yao has a master's degree of Development Economics and Energy Policy from Johns Hopkins University School of Advanced International Studies (SAIS).

Chitra Narayanswamy, Programme Officer, International Renewable Energy Agency



Chitra Narayanswamy works with the International Renewable Energy Agency (IRENA), Abu Dhabi as Programme Officer, Technology Support and Partnerships. Her area of focus is on mini-grids as a solution for energy access through hybridized systems where renewable energy systems integrated with diesel gensets helps reduce diesel consumption and minigrids fully operated on RE systems. Prior to IRENA, Chitra has worked with United Nations Development Programme (UNDP), New Delhi on Climate Change Mitigation projects demonstrating energy efficiency and renewable energy approaches. She has freelanced in south of India, working with key NGOs and state governments on projects pertaining to use of clean energy for rural applications and energy consumption pattern in cities. Chitra has a Master's degree in Physics from the University of Toledo, Ohio, USA with research focus on thin film solar cells that she carried out at National Renewable Energy Laboratory (NREL), Golden, USA.

Question and Answer Session

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Questions



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THANK YOU!

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