

**CLEAN ENERGY
SOLUTIONS CENTER**

Energy Access in Central America

June 17, 2014



 **CLEAN ENERGY
SOLUTIONS CENTER**
ASSISTING COUNTRIES WITH CLEAN ENERGY POLICY

- *The Clean Energy Solutions Center does not endorse or recommend specific products or services. Information provided in this webinar is featured in the Solutions Center's resource library as one of many best practices resources reviewed and selected by technical experts*

Two Options for Audio (select audio mode):

1. *Listen through your computer.*

- Please select the “mic and speakers” radio button on the right hand audio pane display

2. *Listen by telephone.*

- Please select the “telephone” option in the right-hand display, and a phone number and PIN will display.

3. *Panelists - Please mute your audio device when not presenting*

4. *Technical Difficulties:*

- *Contact the GoToWebinars Help Desk: 888.259.3826*

- **To ask a question**
 - Select the 'Questions' pane on your screen and type in your question
- **Having trouble viewing the webinar?**
 - PDFs of the presentations can be accessed at <https://cleanenergysolutions.org/training>
- **Share with others or watch it again**
 - A video/audio recording of this Webinar and the slide decks will be made available at: <https://cleanenergysolutions.org/training>
- **Recordings are also available on our YouTube channel**
 - <http://www.youtube.com/user/cleanenergypolicy>

1

Welcome & Introductory Remarks

2

Overview of the Clean Energy Solutions Center

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

3

Presentations

- **Richenda Van Leeuwen**, Executive Director, Energy Access Initiative, United Nations Foundation
- **José María Figueres Olsen**, Former President of Costa Rica and Current President of Carbon War Room
- **Arnaldo Vieira de Carvalho**, Lead Sustainable Energy Specialist at the Energy Division of the Inter-American Development Bank (IDB)
- **Richard Hansen**, Founder and CEO of Soluz

4

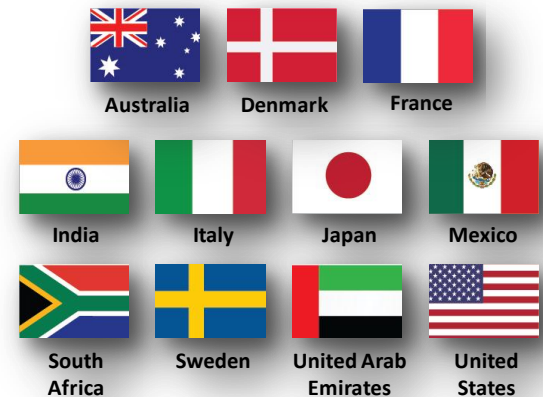
Question and Answer Session

5

Attendee Survey

The Clean Energy Ministerial (CEM) launched the Clean Energy Solutions Center in April 2011 for major-economy countries.

- One of 13 CEM Initiatives including:
 - Global Superior Energy Performance Partnership (GSEP),
 - Super-Efficient Equipment and Appliance Deployment (SEAD) initiative,
 - Global Lighting and Energy Access Partnership Global LEAP)
- Led by U.S. Department of Energy, Australia Department of Industry, International Copper Association, and other CEM partners
- Solutions Center is unique as a CEM initiative that delivers services to most countries.
- Has nearly 35 partners, including UN-Energy, IRENA, IEA, IPEEC, Sustainable Energy for All, Bloomberg New Energy Finance and Leonardo Energy



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

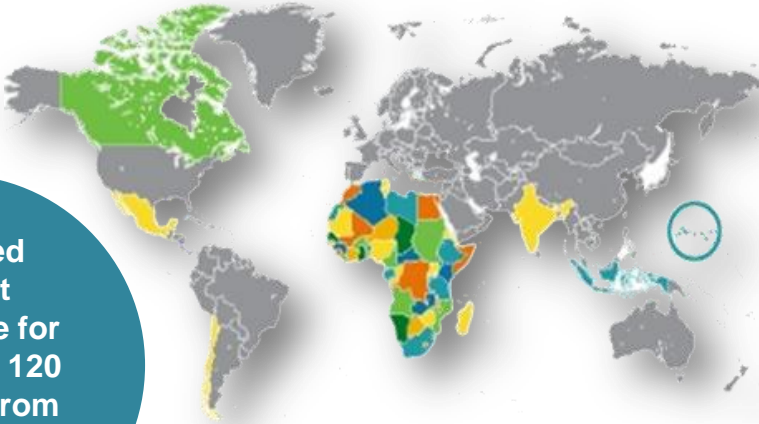


Connects policymakers to a global network of more than 30 energy experts for quick-response technical assistance on policies and programs relating to:

- Transportation
- Renewable Energy
- Energy Access
- Energy Efficiency
- Smart Grid
- Integrated Planning
- Regulators and Utilities



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



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



Ask-an-Expert

- Technical assistance from global experts on clean energy policy topics

Training/Peer-to-Peer Learning

- Webinars, videos and other resources

Resources

- Reports, data, and analysis tools related to clean energy policy

Stay Informed

- Subscribe to our newsletter for clean energy policy updates

Richenda Van Leeuwen, Executive Director, Energy Access Initiative

10



Richenda Van Leeuwen is Executive Director, Energy Access Initiative overseeing the UN Foundation's work on energy access and its engagement with the UN's Sustainable Energy for All Initiative. She founded and leads UNF's Energy Access Practitioner Network, a 900-strong global network catalyzing market-led solutions for energy access in developing countries. She joined the UN Foundation in 2010 from Good Energies, a global renewable energy private equity firm where she led its work both on commercial emerging markets transactions and as a founding board member of the Good Energies Foundation, on the application of renewable energy technologies for poverty alleviation in developing countries. Prior to this, she served as the Executive Director of Trickle Up, an international microenterprise development non-profit organization from 2001-2005. A sought-out speaker on energy access, gender equity and poverty issues, she has over 20 years of executive management experience with the UN, private sector and non-profits on several continents, in particular focusing on impact investing for micro- and small and medium sized enterprises as well as post-conflict reconstruction, refugee issues and economic empowerment. She currently serves on the board of SELCO India, a leading renewable energy social enterprise focusing on energy solutions for poor families in India. She gained both her BS and MBA degrees from Durham University, UK.

José María Figueres Olsen, former President of Costa Rica, and current President of the Carbon War Room

11



After a successful business career (1979-1987), **José María Figueres Olsen** served as Minister of State and was later elected President of Costa Rica (1994-1998) at the age of 39. As President he created a comprehensive national development strategy based on the tenets of sustainability: sound economics, investment in human development, and a strong alliance with nature. José María pioneered the linkage between sustainable development and technology, which he continued after government by helping create and then leading the United Nations ICT Task Force as its first Chairperson (1999). He was the first person to become CEO of the World Economic Forum (2003), where he strengthened global corporate ties to social and governmental sectors. Later he was named CEO of Concordia 21 (2006), dedicated to supporting organizations that promote development and democratic values around the world. Figueres joined the Carbon War Room in 2009, currently serving as its President. The organization accelerates the adoption of business solutions that reduce carbon emissions at gigaton scale and advance the low-carbon economy. In 2013 Figueres helped launch the Global Ocean Commission to formulate politically and technically feasible recommendations that address key issues facing the high seas. He serves as co-Chair.

José María holds an Engineering Degree from the U.S. Military Academy at West Point, and a Masters in Public Administration from the Kennedy School of Government at Harvard University.

Arnaldo Vieira de Carvalho, Lead Sustainable Energy Specialist, Energy Division of the Inter-American Development Bank

12



Mr. Arnaldo Vieira de Carvalho is Lead Sustainable Energy Specialist with the Energy Division of the Inter-American Development Bank (IDB) in Washington, DC, USA

Mr. Vieira de Carvalho has been working for the IDB since 1997 on financing and implementing sustainable energy projects throughout Latin America and the Caribbean (LAC), especially on energy efficiency, renewable energy and biofuels. He has been responsible for several emblematic IDB initiatives, such as the IDEAS energy innovation contest, the SE4ALL LAC Hub and the LAC Sustainable Biofuels for Aviation Program. Mr. Vieira de Carvalho was Director of the Latin American Energy Organization - OLADE in Quito, Ecuador and General Manager for Power Generation and New Energy Technologies of Promon Engenharia, a leading Brazilian consulting firm in Rio de Janeiro and São Paulo, acting internationally, where he worked for more than 15 years. He has also worked as independent energy consultant in several Latin American countries for power utilities and international organizations such as The World Bank, the Organization of American States – OAS and several UN agencies. Mr. Vieira de Carvalho holds a Mechanical Engineering degree from the Aeronautical Institute of Technology – ITA in São José dos Campos, Brazil and a M.S. degree in energy from Kansas State University – KSU in Manhattan, Kansas. He published more than a hundred articles, technical papers and books in his field of expertise.

Richard Hansen, Founder and CEO, Soluz, Inc.

13



Richard Hansen is an entrepreneur and consultant. Soluz, the company he founded in 1993 provides consulting services to organizations advancing energy access, and delivers PV systems in Honduras through Soluz Honduras.

In 1984 Hansen first pioneered the use of PV for rural electrification in the Dominican Republic where he developed small <50W PV systems installed by local enterprises combined with microfinance, creating a breakthrough that made PV systems affordable for many rural households and enterprises. This work was studied by the USDOE, USAID, World Bank, among other organizations to develop PV electrification projects worldwide. Hansen also introduced PV in Honduras, Central America (in 1989), where today he continues innovating through Soluz Honduras, a social enterprise that has installed tens of thousands of off-grid PV systems. At ExpoEnergia2009, the Honduran RE Industry Association honored Hansen for his “*outstanding participation in the introduction and development of solar energy in Honduras*”. In February 2012 at the national university, Soluz Honduras installed the 1st grid-tied PV system connected to the national utility. Today Soluz Honduras is advancing grid-tied PV applications in urban areas while maintaining its commitment to energy access in rural areas.

He holds a BSME from Worcester Polytechnic Institute and an MBA from Boston University.

Please submit any questions through the “Question Pane” of the GoToWebinar panel

Questions



How did we do?

Your feedback is important! Please complete the poll on your screen



THANK YOU!

An audio recording of this Webinar will be made available following the webinar.

- Please visit the following URL to access the recording, presentations, and information on upcoming and previously held webinars:
 - <https://cleanenergysolutions.org/training>
- You can also now access webinar recordings at the Clean Energy Solutions Center YouTube page:
 - <https://www.youtube.com/user/cleanenergypolicy>