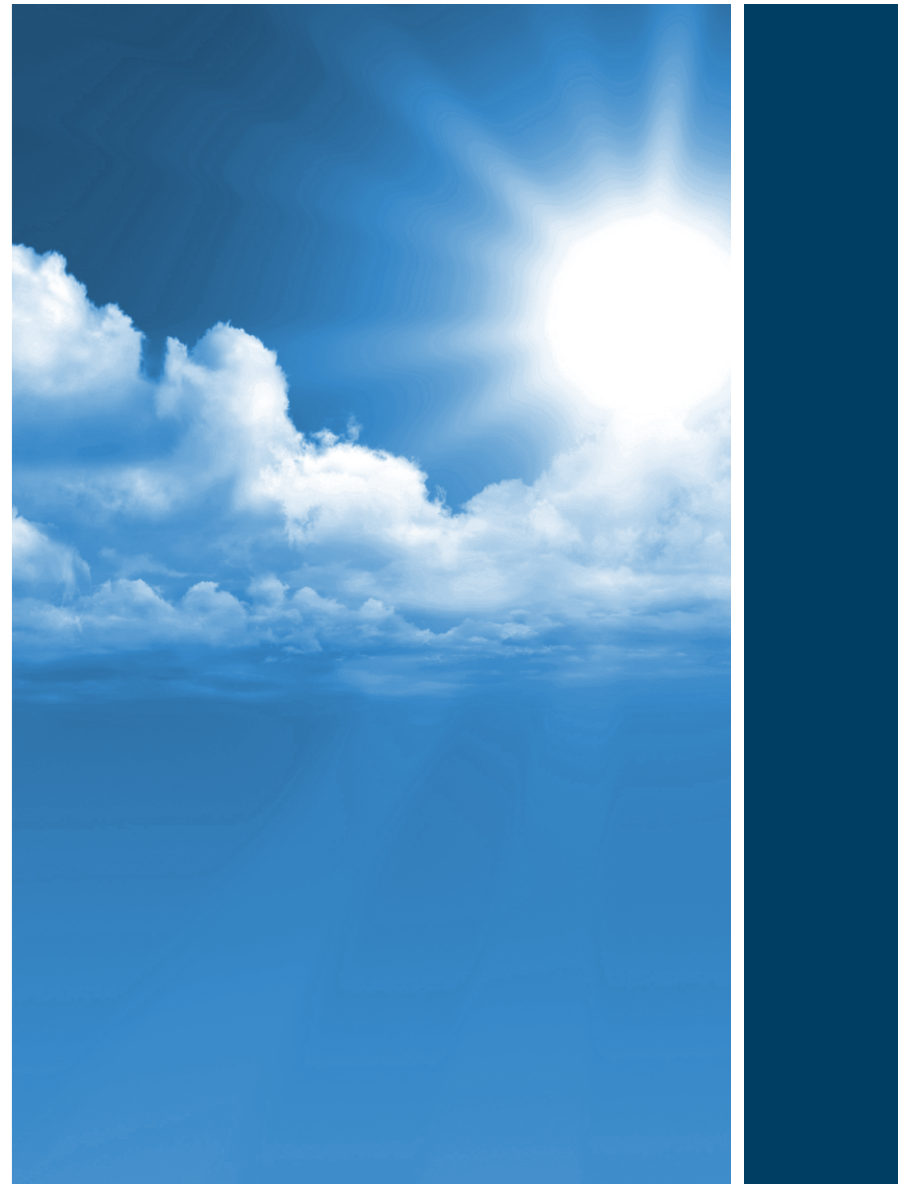


Clean Energy Solutions Center and the United Nations Foundation's Energy Access Practitioner Network

*International Electrotechnical
Commission's Discount Packages
to Access Sustainable Energy
Standards for Rural Electrification*
May 14, 2013

Vickie Healey – Moderator
Richenda Van Leeuwen – UN Foundation
Francisco Boshell – IRENA
Françoise Rauser – IEC Central Office- Geneva
Howard Barikmo – Sunset Technology, Inc.
Arne Jacobson – IEC Technical Committee 82
Guilaine Fournet – IEC Central Office - Geneva



- 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

Some housekeeping Items (continued)

4

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/rural-electrification-sustainable-standards>

A video/audio recording of this Webinar and the slide decks will be made available at:

- <https://cleanenergysolutions.org/training/rural-electrification-sustainable-standards>

Agenda

- ✓ Welcome and Introductory Remarks
- ✓ Overview of the [Clean Energy Solutions Center](#)
 - **Vickie Healey**: Project Leader, National Renewable Energy Laboratory
- ✓ Presentations - Panelists:
 - **Richenda Van Leeuwen**: Executive Director, Energy and Climate, Energy Access Initiative, UN Foundation
 - **Francisco Boshell**: Analyst, RE Technology Standards and Markets, IRENA
 - **Françoise Rauser**: Affiliate Country Program Executive Secretary and ILO / IEC Central Office- Geneva
 - **Howard Barikmo**: President, Sunset Technology, Inc.
 - **Arne Jacobson**: IEC Technical Committee 82/ JWG1 - Project Leader IEC 62257-9-5 - USA
 - **Guilaine Fournet**: Head of Sales and Business Development / IEC Central Office - Geneva
- ✓ Question & Answer
- ✓ Survey
- ✓ Discussion and Closing Remarks

Clean Energy Ministerial & UN Partnership Supporting the Solutions Center

- Clean Energy Ministerial (CEM) launched the Clean Energy Solutions Center in April, 2011 for major economy countries
 - One of eleven CEM Initiatives
 - Led by Australia and U.S. with other CEM partners
- Partnership with UN-Energy is extending scope to support all developing countries
 - Enhance resources on policies relating to energy access, small to medium enterprises (SMEs), and financing programs
 - Offer expert policy assistance to all countries
 - Expand peer to peer learning and training



Clean Energy Solutions Center

<http://www.CleanEnergySolutions.org>

Goals

- Serve as a first-stop clearinghouse of clean energy policy resources.
- Share policy best practices, data, and analysis tools across countries.
- Deliver dynamic 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.

Target Audiences

- Primary:
 - Energy policy makers and advisors
 - Analysts
- Secondary:
 - Private sector companies,
 - Energy entrepreneurs and investors
 - Non Governmental Organizations
 - Civil society
 - Others engaged in clean energy

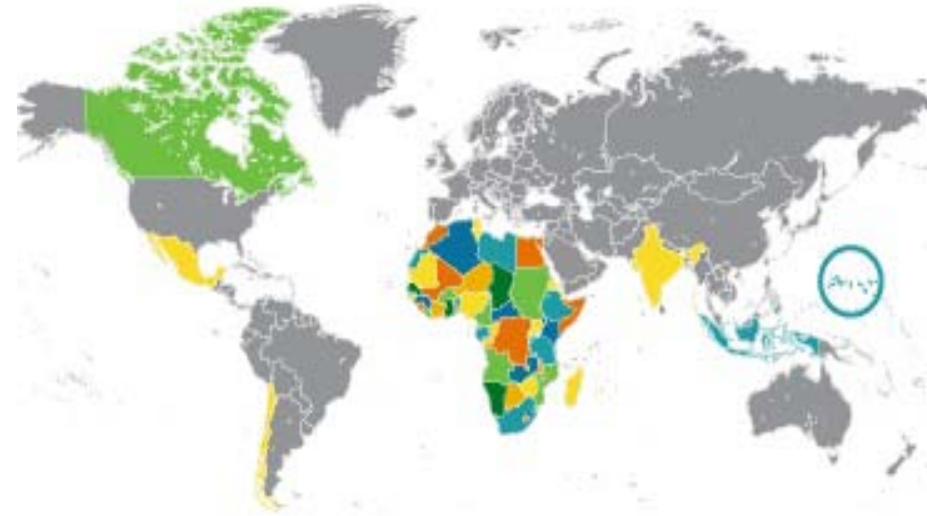


Ask an Expert: Our Experts in Action



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



Requesting Assistance:

Register on <http://cleanenergysolutions.org/expert>

How You Can Get Involved

- Request expert assistance or tailored technical resources for your country
- Participate in webinars, training activities, and policy networks
- Offer advice and suggest resources to share
- Sign up for the newsletter



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. A renowned expert 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.

Francisco Boshell: Analyst, International Renewable Energy Agency

11



Francisco Boshell is an analyst in markets and standards for renewable energy technologies at the International Renewable Energy Agency (IRENA). He supports IRENA's activities aimed at promoting strong and growing markets for renewables through a wider use of standards and quality assurance mechanisms. His background is in mechanical engineering and he holds a MSc. in Sustainable Energy Technology from the Eindhoven University of Technology, in the Netherlands. During his career, Mr. Boshell has developed technical standards for quantifying GHG emission reductions from CDM projects as an officer at UNFCCC; supported the climate change negotiations under UNFCCC; provided consultancy services for the development of renewable energy and energy efficiency projects in Latin America at KEMA Consulting; and designed and implemented infrastructure and energy related projects in the automotive manufacturing sector.

Françoise Rauser: Executive Secretary & ILO, IEC Affiliate Country Programme, International Electrotechnical Commission

12



Françoise Rauser: Before joining the IEC Affiliate Country Programme Secretariat in 2003, Françoise Rauser had been working at the IEC Central Office since 1987. She worked in IEC Technical Department as senior editor to ensure conformity between the French and the English versions of IEC bilingual International Standards. She collaborated directly with the Secretaries of IEC Technical Committees providing guidance to comply with ISO/IEC Directives. Françoise decided to bring her experience to developing countries to enhance their participation in IEC international standardization activities and technical work and is now in charge of the IEC Affiliate Country Programme. Since 2009, as to reflect her activities with numerous international organizations, Françoise is IEC International Liaison Officer and IEC focal point for the WTO and ITU-D

Howard O. Barikmo, Emeritus Secretary, IEC's Technical Committee 82: Solar Photovoltaic Energy Systems

13



Howard Barikmo lives in Scottsdale, Arizona and has been in various fields of the photovoltaic (PV) industry for over thirty years. His career in PV has included design and installation of various stand-alone systems and the manufacture of specialty PV modules. Later activities were as quality assurance manager of a photovoltaic testing laboratory, then as Secretary of the IEC's Technical Committee 82, Solar Photovoltaic Energy Systems, a position he held for approximately seven years. This committee is responsible for writing all standards relating to photovoltaics for the IEC. He is now emeritus Secretary of this organization.

Arne Jacobson, Director, Schatz Energy Research Center

14



Dr. Arne Jacobson is Director of the Schatz Energy Research Center and Associate Professor in the Environmental Resources Engineering department at Humboldt State University. Arne serves as the technical lead for product quality assurance for Lighting Global, which is associated with the IFC and World Bank's Lighting Africa and Lighting Asia programs. He is also an active member of Technical Committee 82 (photovoltaics) of the International Electrotechnical Commission (IEC). He has a Ph.D. from the Energy and Resources Group at the University of California, Berkeley, a master's degree focused on Environmental Resources Engineering (Humboldt State University), and a bachelor's degree in physics (Earlham College). His areas of research and work include renewable energy technologies, energy access for low income people in off-grid areas, and clean energy deployment policy. Arne's work is interdisciplinary, combining renewable energy engineering, energy policy, and a social geography based approach to international development studies. He has extensive international work experience in Africa, South Asia, and Latin America.

Guilaine Fournet, Head of Sales & Business Development, Electrotechnical Commission

15



Guilaine Fournet joined the International Electrotechnical Commission in 1998. First in the Information & Marketing Department, then in 2001 she became the Affiliate Country Programme's coordinator. In 2003, she was appointed Customer Service Centre Manager and in 2006 Sales Manager. Since 2008 she is Head of Sales & Business Development. Guilaine and her team are responsible for one third of the IEC annual budget

Time for Q&A

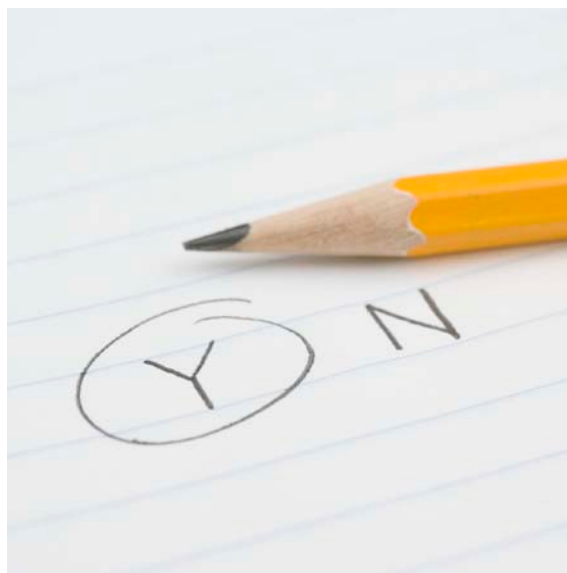
16

Questions



Survey

- How did we do?
- Your feedback is important!



Your participation is appreciated!

18

Thank you!

An audio recording of this Webinar and the PowerPoint presentations will be available following the webinar

Please visit:

<https://cleanenergysolutions.org/training/rural-electrification-sustainable-standards>