

Vocational Training for Energy Access: Impacts and Lessons Learned from Developing Countries

19 April 2016

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- **Stephanie Bechler**, National Renewable Energy Laboratory

Overview of the Energy Access Practitioner Network

- **Luc Severi**, Energy Access – United Nations Foundation

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- **Dr. Rim Razzouk**, Senior Instructional Designer, ASU
- **Carol Weis**, IREC Master PV Training & NABCEP PV Installer
- **Dr. Laura Stachel**, Co-Founder and Executive Director, We Care Solar
- **Rachel Mahmud**, Gender Associate, Global Alliance for Clean Cookstoves

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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.



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 160 requests from over 75 countries.



Please submit your question directly at cleanenergysolutions.org/expert

Luc Severi, Project Manager for Energy Access, United Nations Foundation



Luc Severi is currently working as a Project Manager on UN Foundation's energy access activities, in particular in the health sector under the High Impact Opportunity '*Energy for Women's and Children's Health*'. Luc's academic background is both commercial and social, holding a Master's in Commercial Engineering from KULeuven and an MSc Development Management from the London School of Economics.

Prior to starting his current work with UNF, Luc worked in Mozambique, Senegal, and Liberia, for several international NGOs and social enterprises, including SolarNow and Save the Children International. Throughout his career, Luc has been an active participant in the green & circular economy, working primarily with renewable energy solutions for off-grid and rural households, schools, and health centres.

Dr. Rim Razzouk, Senior Instructional Designer, ASU



Rim Razzouk is a Senior Instructional Designer at Arizona State University. In her current position, Rim leads the curriculum development and the assessment and evaluation processes for the VOCTEC (Vocational Training and Education for Clean Energy) project. She is also responsible for the data analyses and the write up of research reports for the purpose of continuous curriculum improvement. Rim has a PhD in Instructional Systems from the Florida State University (FSU). She also holds a M.Sc degree in Instructional Systems and a Certificate in Human Performance Technology from FSU, and a B.Sc in Information Technology from Notre Dame University, Lebanon. Prior to joining ASU, she was a director of assessment and evaluation and held various instructional design and teaching positions in academia and industry in the Middle East and the U.S.

Carol Weis, IREC Master PV Training & NABCEP PV Installer



Carol Weis has worked as a solar electric instructor and consultant in the US and internationally teaching coed and women-only classes since 1998. Her work has included projects in Asia, Africa, the Caribbean, and Central America. She also specializes in developing curriculum for solar manufacturers and training organizations to increase the number of qualified workforce technicians in a rapidly expanding solar industry. She is an IREC Certified Master Trainer TM, she has her PV Installer Certification in North America, and has worked as a licensed electrician and solar installer in the United States

Dr. Laura Stachel, Co-Founder and Executive Director, We Care Solar



Dr. Laura Stachel, co-founder and executive director of We Care Solar, is a board-certified obstetrician-gynecologist with fourteen years of clinical experience. She holds an M.D. from University of California, San Francisco and an M.P.H. in Maternal and Child Health from University of California, Berkeley. Her research on maternal mortality in Nigeria in 2008 alerted her to the deleterious effects of energy poverty on maternal health outcomes. Laura is a champion for sustainable energy solutions for women's health and speaks around the world on this topic. She has been active in the UN Foundation's Sustainable Energy for All Initiative and co-chairs a Working Group on Energy and Health. Laura was one of the Top 10 CNN Heroes of 2013. For her work with We Care Solar, Laura received the 2015 Haas International Business Development Alumni of the Year Award, the 2015 UCSF Alumni Excellence Award, the 2015 UBS Optimus Award, the 2014 Katerva Sustainability Gender Equity Award, the 2013 Oberlin Alumni Distinguished Service Award, the 2012 U.S. Department of Energy and MIT Clean Energy, Education and Empowerment Award, the 2012 United Nations Association Global Citizens Award, and the 2010 UC Berkeley Chancellor's Award for Civic Engagement. Most recently, Laura spoke at the United Nations when We Care Solar received the inaugural 2015 UN DESA "Powering the Future We Want" \$1,000,000 award, presented by General Ban Ki-Moon.

Rachel Mahmud, Gender Associate, Global Alliance for Clean Cookstoves



Rachel Mahmud is the Gender Associate for the Global Alliance for Clean Cookstoves, an initiative of the United Nations Foundation. She is responsible for managing \$500,000 in grants that support women's empowerment and youth awareness-raising in the clean cooking sector. She also supports the design and management of the Alliance's gender programming. Previously, she worked at ACDI/VOCA as a project coordinator for enterprise development programs in Sub-Saharan Africa and South Asia. She served as the coordinator for the gender community of practice, and supported the development and roll-out of a gender mainstreaming training program. Ms. Mahmud holds a B.A. in International Affairs from The George Washington University and speaks French and English.

Question and Answer Session

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Questions



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THANK YOU!

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