



U.S.-Africa Clean Energy Standards Program



West Africa Mini-grids Workshop: Technological Advances, Regulatory Framework, and Quality Assurance

November 13 – 14, 2018

08:30 AM – 5:00 PM

Radisson Blu

Dakar, Senegal

This program is sponsored by U.S. Trade and Development Agency (USTDA) through the U.S.-Africa Clean Energy Standards Program (CESP) and organized in cooperation with the ECOWAS Sustainable Energy Forum (ESEF2018).

OBJECTIVE

Solar mini-grids are an increasingly viable solution for providing remote populations with reliable electricity access. Across West Africa, and in countries like Senegal where only 34 percent of the rural population has access to electricity, mini-grids present a promising alternative to traditional grid infrastructure. This Workshop will feature presentations by U.S., Senegalese, and other African experts from both the public and private sectors to address quality assurance, system planning, energy storage systems, data management, metering, and other important aspects of mini-grid development.

PLEASE NOTE THAT THE FIRST TWO SESSIONS WILL BE DONE WITH THE ESEF FORUM.

AGENDA

9:00 – 10:45	<p>Welcome Remarks</p> <ul style="list-style-type: none"> • <i>Mr. Mahama Kappiah, ECREEE Executive</i> • <i>Cheryl Voisard, USAID Power Africa Director</i> • <i>Raihan Elahi, World Bank</i> • <i>Clare Sierawski, USTDA Power Africa West Africa Regional Manager</i> • <i>Sedika Douka, ECOWAS Commissioner for Energy and Mines</i> • <i>H.E. Ambassador J. Gonzalez Ducay, Head of the EU Delegation to Senegal</i> • <i>Mohamaed Juldeh Jalloh, Vice-president of Sierra Leone</i> • <i>Jean-Claude Brou, President of ECOWAS Commission</i> <p>Keynote Address and launch of 2018 Energizing Finance SE4All Report:</p> <ul style="list-style-type: none"> • <i>Rachel Kyte, SeforALL CEO</i> <p>Opening Speech</p> <ul style="list-style-type: none"> • <i>Elimane Kane, Minister of Petroleum and Energies, Senegal</i>
10:45 – 11:00	Group Picture
11:00 – 11:30	Tea/Coffee Break
11:30 – 13:30	<p>High-Level Panel Discussion: Sustainable Energy Market Development in West Africa</p>



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	<p><i>Moderator: Mohamaed Juldeh Jalloh, Vice-president of Sierra Leone</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Boubacar Mobodj, Special Advisor of the President of the Republic of Senegal</i> • <i>Sedika Douka, ECOWAS Commissioner for Energy and Mines</i> • <i>Dr. Bachir Ismael Ouedraogo, Minister of Energy, Burkina Faso</i> • <i>Alhaji Kanja Sesssay, Minister of Energy of Sierra Leone</i> • <i>H.E. Ambassador J. Gonzalez Ducay, Head of the EU Delegation to Senegal</i> • <i>Rachel Kyte, Special Representative to the Secretary General and CEO, SEforALL</i> • <i>Siengui Apollinaire Ki, Secretary General, WAPP</i> • <i>Prof. Honoré BOGLER, Chairman, ECOWAS Regional Electricity Regulatory Authority (ARREC)</i> • <i>Mahama Kappiah, Executive Director, ECREEE</i> <p>Discussion and Q&A</p>
13:30 – 14:30	LUNCH BREAK
14:30 – 15:00	<p align="center">FOCUS TOPIC 1: Senegal’s Solar Mini-Grid Market</p> <p align="center"><i>A background on the mini-grid sector in Senegal, including lessons learned.</i></p> <p align="center"><i>Moderator: Lamine Ndour, Millenium Challenge Corporation</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Ibrahima NIANE, Director of Electricity, Ministry of Energy & Petroleum</i> • <i>Baba DIALLO, Director General, ASER</i> <p>Discussion and Q&A</p>
15:00 – 16:00	<p>FOCUS TOPIC 2: Best Practices and Lessons Learned from Across Africa: Mini-grid Policies and Standards to Support Success</p> <p align="center"><i>Moderator: Aaron Leopold, Africa Mini-grid Developers Association</i></p> <p><i>Examples from regional governments on enabling policy to support mini-grid development.</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Dr. Sanusi Ohiare, Executive Director, Rural Electrification Fund (Nigeria)</i> • <i>Mamadou Ouattara, Managing Director, AMADER (Mali)</i> • <i>Marc NOUNAGNON, Decentralized Energy Project Manager, MCA-Benin II</i> • <i>Aminata Ba, Off-grid transaction advisors under the Power Africa Transactions and Reforms Program (PATPR)</i> <p>Discussion and Q&A</p>
16:00– 16:30	Tea/coffee break
16:30-17:30	<p>FOCUS TOPIC 2 Continued:</p> <p align="center"><i>Examples from the private sector on enabling policy to support mini-grid development</i></p> <p align="center"><i>Moderator: Clare Sierawski, USTDA</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Ibrahim Togola, Access Energy</i> • <i>Pam Onyanyo, Renewvia</i> • <i>Paul-Francois Cattier, Schneider</i> <p>Discussion and Q&A</p> <p>End of Day 1: Closing Remarks</p>
17:30	



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Day 2

8:45 – 9:30	<p>Welcome and Opening remarks:</p> <ul style="list-style-type: none"> • <i>Clare Sierawski, USTDA Power Africa West Africa Regional Manager</i> • <i>Cheryl Voisard, USAID Power Africa Director</i> • <i>ECREEE Representative</i>
09:30 – 10:30	<p style="text-align: center;">FOCUS TOPIC 3: Quality Assurance and Technical Standards for Mini-Grids <i>Experiences and insights from experts</i> <i>Moderator: David Jankowski, ANSI</i></p> <p>Presentation:</p> <ul style="list-style-type: none"> • <i>Tim Reber, National Renewable Energy Lab (NREL)</i> <p>Panel Discussion (30 min):</p> <ul style="list-style-type: none"> • <i>Ousmane Fall Sarr, ASER</i> • <i>Pr. Issakha Youm, CERER</i>
10:30 – 11:00	<p>Tea/coffee break</p>
11:00 – 12:30	<p style="text-align: center;">FOCUS TOPIC 4: Standardizing Mini-grid Modeling, Feasibility, & Financial Analyses <i>Moderator: Yann Tanvez, IFC</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Peter Lilienthal, HOMER Energy</i> • <i>Emily McAteer, Odyssey Energy Solutions</i> • <i>Ali Djire, FRAYM</i> <p>Discussion and Q&A</p>
12:30 – 14:00	<p>Lunch Break</p>
14:00 – 15:00	<p style="text-align: center;">FOCUS TOPIC 5: New Approaches to Minigrid Configurations - Batteries and Design <i>Moderator: Juan Garcia Montes, SUNKOFA Energy</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Gord Petroski, Alpha</i> • <i>Darren Hammell, Princeton Power</i> • <i>Yann Chauvelin, Sagemcom</i> <p>Discussion and Q&A</p>
15:00 – 16:30	<p style="text-align: center;">Focus topic 6: New Approaches to Minigrid Configurations: Metering to Ensure Data Quality, Quality Service and Customer Service <i>Moderator: John Kidenda, POWERGEN Renewable Energy</i></p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Sayan Chakraborti, MRIGlobal</i>



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	<ul style="list-style-type: none">• <i>Thibault Faninger, Elum</i>• <i>Stine Carlé, AMMP</i>• <i>Amadou Ly, AKILEE</i> <p>Discussion and Q&A</p>
16:30 – 17:30	<p>Bringing it all together: Panel Coordinating Quality and Best Practices <i>Moderator: Philippe Miquel – CEO, ENGIE - Western & Central Africa</i></p> <p>Panelists:</p> <ul style="list-style-type: none">• <i>Gord Petroski, Alpha</i>• <i>Peter Lilienthal, HOMER Energy</i>• <i>Pam Onyanyo, Renewvia</i>• <i>Ibrahim Togola, Access Energy</i>• <i>Ibrahima NIANE, Director of Electricity, Ministry of Energy & Petroleum</i>• <i>Ousmane Fall Sarr, ASER</i>
17:30	<p><i>End of Workshop Closing Remarks</i></p>