

MINI-GRID PLANNING INTEGRATED ENERGY PLANNING FOR RURAL ELECTRIFICATION

MINI GRIDS WEBINAR SERIES 2019

WEBINAR 4

10 DECEMBER 2019

MINI-GRID WEBINAR SERIES 2019

WEBINAR 1

MINI-GRID RELIABILITY: THE ROLE OF TRAINING CENTERS FOR MICRO/MINI HYDROPOWER

MARCH 2019

WEBINAR 2

MINI-GRID FINANCING: ENABLING THE ROLE OF LOCAL BANKS

JUNE 2019

WEBINAR 3

MINI-GRID SUSTAINABILITY: TRANSITIONING TO SOCIAL ENTERPRISE FOR ENERGY AND ECONOMIC DEVELOPMENT (SEEED)

SEPTEMBER 2019

WEBINAR 4

MINI-GRID PLANNING: INTEGRATED ENERGY PLANNING FOR RURAL

ELECTRIFICATION

DECEMBER 2019

PARTNERS



www.wisions.net

WISIONS promotes the transition to sustainable energy systems in the global South. Its mission is to empower individuals and communities to transform the production and use of energy so that it effectively enables sustainable development.

The initiative is run by the Wuppertal Institute, a German think tank, and has been supported by the Swiss-based foundation ProEvolution since its inception in 2004.

Wisions supports sustainable energy **projects**, energy **practitioner networks** and **research**, among other activity.

In addition to supporting HPNET, WISIONS has supported pico and micro hydro projects and knowledge exchanges.

More info here: http://wisions.net/pages/seps-energy-projects

PARTNERS



www.energypedia.info

Energypedia UG is a non-profit organization that runs and maintains the wiki-based platform, **ww.energypedia.info.**

It is an online platform for collaborative knowledge exchange on renewable energy, energy efficiency and energy access in the context of development cooperation.

You can access the following resources, developed in collaboration with HPNET, pertaining to small-scale hydropower:

<u>Micro/Mini Hydropower Library (MHL)</u> – A collaborative, searchable repository of publications and multimedia on micro/mini hydropower for energy access around the globe.

<u>Mini-grid Webinar Series 2017</u> – Prequel to this webinar series, the 2017 series featured mini-grid technology differentiation, grid-interconnection, and productive end use.

<u>Hydro Portal on energypedia</u> – A gateway to all hydropower information on energypedia.

HYDRO EMPOWERMENT NETWORK



KNOWLEDGE EXCHANGE

Capacity building events (online and in-person)
Knowledge exchange tools for multi-actors
South-South and peer-to-peer exchange



STRATEGY ADVOCACY

Platform for local practitioner voices Multi-stakeholder facilitation Data and mapping to quantify impact



THEMATIC FOCUS AREAS

Technology and skills advancement Socio-environmental sustainability Enabling financing and policy for scalability



Short Poll #1

Short Poll #2

SPEAKER 1

DR. CATHERINA CADER RESEARCH UNIT OFF-GRID SYSTEMS REINER LEMOINE INSTITUTE, GERMANY



DR. CATHERINA CADER is an expert in Geographic Information Systems (GIS) and rural electrification planning. She has been working at Reiner Lemoine Institute since 2012 and is part of the Research Unit Off-Grid Systems. She is particularly interested in rural electrification planning in countries of the Global South with consideration of renewable energy. Catherina holds a PhD in Geography from Justus Liebig University Giessen. For her dissertation she conducted research on rural electrification planning in Nigeria. Her PhD project was supported by a scholarship from the Reiner Lemoine-Foundation. She also holds a Master of Science in Geography from Philipps University Marburg and a Bachelor of Science in Environmental Management from Justus Liebig University Gießen. Through field visits and self-developed trainings on the use of GIS for rural electrification planning, Catherina has great expertise on the political, geographical, economic, and technical challenges of local energy supply situations. By developing and applying GIS-based methods, she brings the spatial component into RLI research using open source software. Catherina has experience as a project manager in several projects – her work has taken her to various places including Nigeria, Tanzania, Zambia, Nepal, Myanmar, and the Philippines.

SPEAKER 2

DR. VICTOR OSU
RURAL ELECTRIFICATION FUND
RURAL ELECTRIFICATION AGENCY, NIGERIA



DR. VICTOR OSU is presently the Senior Adviser (SA) to the Executive Director (Rural Electrification Funds in the Rural Electrification Agency; towards enabling and fostering investments in Rural Electrification Planning and Development, linking private developers with access to finance from the government and private investors. He is responsible towards the mobilization and operationalization of the Rural Electrification Fund (REF), with an objective of providing, promoting and supporting access to reliable electric power supply for rural economic development via the deployment of off-grid technologies (Mini-grids and SHS) within the context of Public Private Partnerships (PPP) delivery model. Victor is currently coordinating the implementation of over 10 mini-grids and 18,000 solar home systems installation for rural communities across the country with facility support from the rural electrification grant. He is currently administering the Mini-Grid Acceleration Scheme (MAS) and Interconnected-Mini-Grid Acceleration Scheme (I-MAS) programs, with 9.3 million Euros, funded by the European Union and the German government through Deutsche Gesellschaft fur Internationale Zusammenarbeil (GIZ) to provide energy access to 32,000 Nigerians. A key focus within the project is the facilitation of productive use of energy through backward integration and Key Maker Model to spur rural economic development. He received a B.Sc. in Computer Economics from the Obafemi Awolowo University in Nigeria, an M.Sc. in Energy Management from the Robert Gordon University, Aberdeen in Scotland and his Ph.D. in Sustainability Transition and Governance also from the Robert Gordon University, Aberdeen.

SPEAKER 3

CHRISTOPHER WESLEY AJAN

SARAWAK ALTERNATIVE RURAL ELECTRIFICATION SCHEME (SARES) SARAWAK ENERGY, MALAYSIA



MR. CHRISTOPHER WESLEY AJAN Mr. Christopher Wesley Ajan joined in 2012 Sarawak Energy, the utility responsible for the generation, transmission and distribution of electricity for the state of Sarawak in Malaysia. He currently serves as Manager in the Rural Electrification Department with focus on community based stand-alone solar power station. He holds a master's degree in electrical engineering from Universiti Teknologi, Malaysia and is a certified On-Grid and Off-Grid Photovoltaic Designer (SEDA-Malaysia). He presently leads the planning and implementation of the Sarawak Alternative Rural Electrification Scheme (SARES), a Sarawak State Government initiative to provide basic electricity supply to remote villages in Sarawak. To date, SARES has successfully completed 222 villages with total of 5,320 households. Awards received by SARES include: ASEAN Energy Awards 2019 – Offgrid Power Category; PowerGen Asia 2019 – Solar Power Project of the year; Alliance of Rural Electrification (ARE) Award 2018 – Winner RE project by Government in Africa, Asia and Latin America category.

Q/A with Audience



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