



SUSTAINABLE
ENERGY FOR ALL

ENERGY ACCESS
PRACTITIONER NETWORK

Promoting Clean Mini-Grid Public-Private Partnerships for Rural Electrification in Nigeria

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THE CHALLENGE

Energy is essential to development. Yet over 1.1 billion people around the world have no access to electricity and the many benefits it brings – improving health, generating income, enabling education, enhancing security and empowering women. A billion more people have electricity only some of the time. Without it, they are forced to rely on dirty, dangerous fuels that are harmful to their health and hinder their opportunities for social and economic advancement.

Photo Credit: SELCO

ENERGY ACCESS PRACTITIONER NETWORK

To help meet the energy access challenge, in 2011 the United Nations Foundation launched the Energy Access Practitioner Network. The Practitioner Network is the largest global network of small, medium, and large clean energy enterprises, joined up with participants from civil society, government and academia, to deliver modern energy services, particularly decentralized solutions for rural electrification.

The Network's mission is to contribute to the Sustainable Development Goal of universal energy access by 2030 by:

- Promoting innovation in policy, technology, business and financing
- Amplifying the voice of practitioners in high-level decision-making
- Facilitating increased funding and financing of decentralized energy solutions.



SHARING KNOWLEDGE



BUILDING PARTNERSHIPS

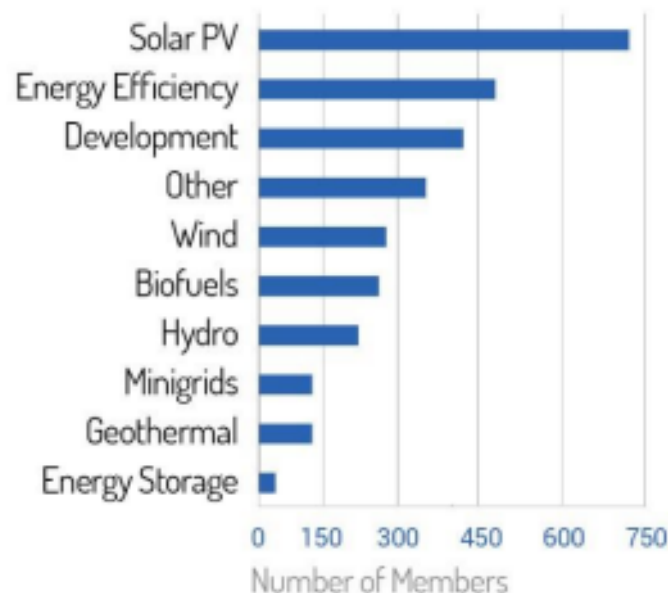


CATALYZING ACTION

MEMBERS



TECHNOLOGY FOCUS





This webinar provides an overview of the **mini-grids sector in Nigeria**, including several case studies. |

The webinar is the second in the UN Foundation's **new country-focused webinar series**, thanks to the generous support of the Mott Foundation.

Please follow live Tweets via [@energyaccessPN](#) & [@minigridsHIO](#) using [#PNwebinar!](#)

37% of individuals who responded to EAPN's 2016 annual survey were involved in ownership, design, installation, operation and/or maintenance of mini-/micro-grid systems in 2015.

The Energy Access Practitioner Network has over **50 members** headquartered in Nigeria, and close to 200 members have operations in the country.

The UN Foundation serves as the co-Secretariat of the **Clean Energy Mini-grids Partnership** (formerly HIO) under Sustainable Energy for All and prepares the quarterly **Clean Energy Mini-grids Newsletter**. For more info contact: Monica Dean at mdean@unfoundation.org



Sub-Saharan Africa key to achieving universal energy access

ELECTRIFICATION

HIGH-IMPACT COUNTRIES

ENSURE UNIVERSAL ACCESS TO MODERN ENERGY SERVICES

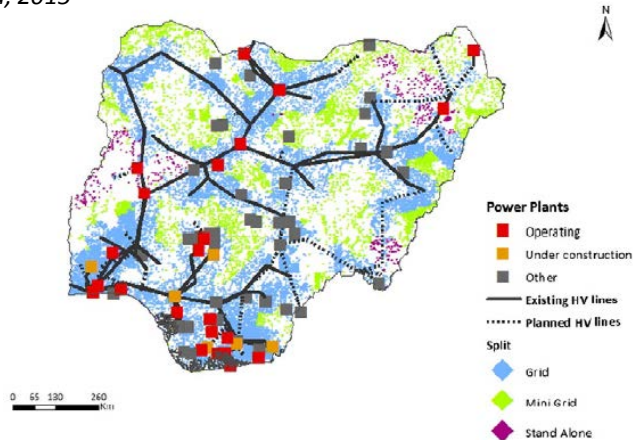
Access deficit of electricity in twenty high-impact countries, 2012
(millions of people)



The future of mini-grids in Nigeria?

“A total of 14.3 % of the population should be electrified by mini-grid solutions (depicted in green)...”

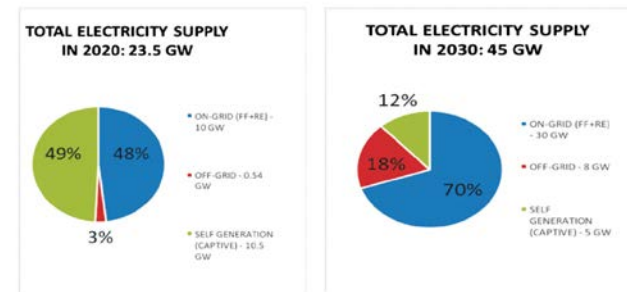
Source: *A GIS-based approach for electrification planning—A case study on Nigeria, 2015*



“...the overall supply from off-grid systems (mini-grid and solar home systems) to reach 3% and 12% in 2020 and 2030 respectively.”

Source: *SE4All Action Agenda, Nigeria, 2016*

Figure 4: Targets Contribution of Electricity Supply: % On-grid, Off-grid and Self Generation by 2020 and 2030



“The results further show that 98% of the households currently without access are to be electrified via grid expansion, while the remaining 2% will be electrified through mini-grid technology”

Source: *Expanding electricity access to all in Nigeria: a spatial planning and cost analysis, 2015*

Table 1 Cost estimates for rural electrification in Nigeria

	Total number of households electrified	Percentage of households electrified	System total initial cost (million US\$)	Initial cost per household (US\$)
Grid LV + transformer	27,833,318	98	23,041	828
Grid MV			1,991	72
Grid total			25,032	899
Mini-grid	645,644	2	500	775

“NERC to finalise mini-grid regulations

The Nigerian Electricity Regulatory Commission (NERC) has revealed its plans to finalise developments on the regulation of mini-grids to boost energy access.”

Source: *ESI-Africa, 2016*

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To join the Practitioner Network: Visit our website to fill out our membership registration form.
For questions: Please contact us by email at: info@energyaccess.org



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