

#StopGuessing by A2EI

Our data indicates more than 50% cost reduction for stand alone solar systems in Nigeria is possible.

A2EI

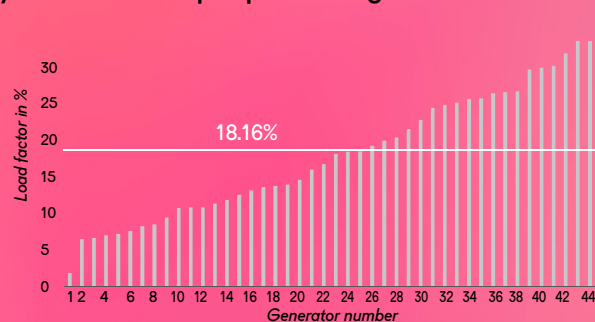
ACCESS TO ENERGY INSTITUTE

Data is lowering the cost of solar systems by more than 50% in Nigeria

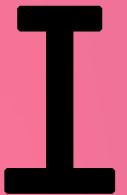
The A2EI is installing a wide range of smart sensor solutions that measure anything from fuel generators to productive use appliances and e-cooking devices. The data is shared freely and can be subscribed to here: www.a2ei.org/data

One of the first data points we shared last year was a simple percentage: 18%.

Which referred to the average load of small fuel generators in Nigeria. Which in turn means that adequate solar solutions can be much smaller than previously assumed and still replace a generator. One single data point turned out to be the biggest cost saving for a huge market.



Load of generators in % of maximum load and average



Data is key for scale and growth

As the solar offgrid industry is entering the decade in which SDG7 will need to be achieved, the Access to Energy Institute (A2EI) reinforces its belief that gathering and sharing data to inform successful electrification strategies for minigrids and standalone solar systems will be key.

In the past, many decisions were based on assumptions and often, demand patterns and customer needs were guesswork more so than robustly quantified. Granular and “real” data that objectively describes current energy consumption patterns and needs will allow the sector to #StopGuessing.

Building an A2EI data team for the sector

There is a growing data subscriber base (over 100 organisations and institutions) which is why we have expanded our data team. Clayton Violand joined the A2EI recently. He is a data expert who is at the disposition of the industry to discuss how data partnerships can develop and to guide our data strategy. We are very open to discussions pertaining to new data you think the A2EI should be gathering. Let us know!



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Endorsements for A2EI data

A series of partners actively using A2EI data and echoing the importance of data for the overall sector.



"The data provided by the A2EI is helping improve the predictive power and precision of our models."

— Prof. Rob Stoner
Deputy Director for Science and Technology MIT Energy Initiative,
Director of the Tata Center for Technology and Design



"The A2EI is creating unprecedented datasets that provide insight to crucial challenges in electricity and growth. Already, our team from the e-GUIDE Initiative has benefited from their invaluable data on backup generator consumption patterns in Nigeria."

— Jay Taneja
Assistant Professor, Director STIMA Lab,
University of Massachusetts



"I am obsessed with data. Data is the cornerstone to enable a sustainable, affordable and efficient universal electrification of Nigeria."

— Damilola Obunigyi
Chief Executive Officer & Special Representative of the UN Secretary-General for Sustainable Energy for All



"The data from the A2EI is providing us with quantitative insight into customer behaviour, allowing us to ensure our product is fully aligned with our customers' needs."

— Simon Bransfield-Garth
CEO Azuri Technologies



"We are using the metering and data capture capabilities of the Access to Energy Institute (A2EI) to ensure that atmosfair's upcoming projects involving electric cook stoves are based on the highest quality of data attainable."

— Annika Richter
Climate Project Manager Atmosfair with the University of Strathclyde and Mulanje Electricity Generation Agency (MEGA)