Uganda microgrid economics

Why is the mini-grid market so slow in Uganda?

Despite the opportunity for further mini-grid de-velopment in Uganda,the market has been slow to take off,largely due to a fragmented regulatory envi-ronment. Among other issues,the country's current policies fail to explicitly set an energy access target to be met through mini-grids.

Who owns a mini-grid in Uganda?

In Uganda, utilities, private companies, communi-ties, or some combination of the three operate mini-grids. Generally, a private-sector player develops and operates the mini-grid, owning the generating asset and bearing the cost of construction. Today, seven independent power producers (IPPs) operate -torial Power and Pamoja Energy.

How many mini-grids are there in Uganda?

Uganda has 34installed mini-grids that serve ap-proximately 20,000 households. That's less than 1 percent of the 7.3 million households in the country. Solar and hydro make up the vast majority of proj-ects in Uganda - 40 percent and 34 percent re-spectively (Figure 100).

Who regulates mini-grids in Uganda?

UEDCL also runs a small number of mini-grids (Anton Eberhard,2016). The Electricity Regulatory Authority (ERA)is the primary regulator of Uganda's mini-grids. It admin-isters licence approval,sets tariffs and maintains technical standards. The REA has no direct regu-latory authority over mini-grids,but ERA consults Source: BloombergNEF.

This work analyses load profiles for East African microgrids, and then investigates the integration of electric two-wheelers and portable storage into a solar PV with battery microgrid in ...

In the present work, a case study of a Ugandan microgrid was used to compare various battery technologies employed on their own and in a combination with a flywheel, in terms of their ...

The Uganda Ministry of Energy & Mineral Develop-ment (MEMD) leads the Promotion of Mini-Grids for with sup-port from the German Federal Ministry for Economic Cooperation & ...

Many African countries, like Uganda, have large rural populations, subsisting on basic agriculture with little connection to markets and further economic opportunities. Without having the ...

The introduction of solar microgrids in Uganda provides efficient and more affordable methods of increasing access to electricity.

The final results from Uganda"s Twaake Integrated Energy Minigrid pilot are in and they reveal that the Utilities 2.0 model works and could reshape how rural electrification is approached at ...

The existing political economy in Ugandan solar development at multiple spatial scales suggests numerous

barriers for such developments, but a firm move by the state to implement formal ...

ARTICLES Socio-economic analysis of solar photovoltaic-based mini-grids in rural communities: A Ugandan case study Richard CartlandI, *; AI-Mas SendegeyaII; Jean de Dieu Khan HakizimanaI I ...

This report is about the energy poverty hampering Uganda"s socioeconomic development. It explores the potential of mini-grids in Uganda, examining various aspects of mini ...

Electricity is vital for social-economic growth and development. However, over 80% of rural dwellers in Uganda do not have access to it due to the absence of the national electricity grid. Most rural ...

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