

Average microgrid storage price per 10kWh in Tanzania

How many mini-grids are there in Tanzania?

Note: Operating projects without a specified commissioning year are not included. Today, Tanzania has 209 known mini-grids installed. With an aggregate capacity of 231,7MW, these projects account for about 15 percent of the country's total capacity of 1,461MW. 17 Of these projects, almost one-third are either solar or solar hybrid mini-grids.

Are mini-grid electrification projects profitable in Tanzania?

Additionally, using an optimization technique, we assess the profitability of a mini-grid electrification project in Tanzania from a private investment perspective. We find that the approved standardized small power producers' tariffs and subsidy scheme in Tanzania still do not allow mini-grid for rural electrification projects to be profitable.

Are private-owned mini-grid systems financially feasible in Tanzania?

Our analysis shows that despite a well-structured mini-grid tariff system and subsidies initiatives in Tanzania, operating privately-owned mini-grid systems in rural communities is not financially feasible. Further, we describe some of the challenges with the effective deployment of mini-grid systems in Tanzania.

What are the challenges facing the deployment of mini-grid systems in Tanzania?

Further, we describe some of the challenges with the effective deployment of mini-grid systems in Tanzania. Specifically, we highlight non-cost-reflective tariff for mini-grid projects and the commercial risk of mini-grid projects as significant challenges facing the commercial deployment of mini-grid systems in Tanzania.

Can a mini-grid extend electricity access to rural communities in Tanzania?

Given the dispersed type of settlement in rural Tanzania, grid extension is not a cost-effective option for extending electricity access to rural consumers. Therefore, TANESCO, the national utility company, uses standalone mini-grid systems powered by diesel and natural gas to extend electricity access to isolated communities.

Where can I get a loan for a mini-grid project in Tanzania?

The loan facility is accessible through the Tanzania Investment Bank with 15 years payback period. Additionally, the World Bank has also made available \$75 million under the Renewable Energy Rural Electrification Program to support the development of mini-grid projects between 2015 and 2019 (Org et al. 2016).



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