

Off-grid hybrid power systems with renewable energy as the primary resource remain the best option to electrify rural/remote areas in developing countries to help attain universal electricity access by 2030.

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This thesis aims to explore how some of the findings from behavioural economics and the social capital literature can apply in the case of electricity access in developing countries with a focus on solar off-grid electrification. And specifically on solar home systems and solar hybrid mini-grid electrification in rural Guinea-Bissau.

In addition, Guinea-Bissau is eligible for technical assistance and a line of credit to develop its market of off-grid solar home systems pursuant to the Regional Off-Grid Electricity Access Project (ROGEAP, P160708).

In terms of trends, the studies show mature development of PV and wind-power technology for off-grid hybrid systems independent of the latitude, which is preferred for being proven and accessible ...

The issue in Guinea Bissau lies in the lack of reliable and recent data points on energy mix. As of late 2018/early 2019, data on power plants, off grid and on-grid systems as well as the mix of energy sources were still limited (see West African Power Pool (WAPP) GIS database, for evidence).

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Off grid hybrid power system Guinea-Bissau

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