

[JAMAICA]



GREEN
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Project title	Electrification of Marginalized Off-Grid communities using Solar PV Home System Kits			
Result areas	Sector	Total financing, USD	GCF financing, USD	Financial instrument
Energy access and power generation	Public	USD 30 - 38 M	TBD	Grant
Description of specific climate change problem and how the project will address it	<p>Jamaica’s electrification penetration is approximately 98 per cent. An estimated 14K of the poorest Jamaican households remain outside of the national grid system, many in remote areas more than three kilometers from the grid. The Petroleum Corporation of Jamaica (PCJ) has decided to embark upon an off-grid renewable energy approach in meeting the electrification needs of these communities. The target households are within communities that have depended mainly on candles, kerosene lamps, coal and other biomass, for their daily needs. The systems are expected to be able to power a few bulbs, a fan, and possibly a small television. Increasing the renewable energy penetration through this project will contribute towards Jamaica’s conditional emission reduction target of 10% below BAU by 2030 or 13,043 kT CO₂ eq.</p>			
Alignment with key country priorities and stakeholders engaged	<p>The Electrification of Marginalized off-grid communities using Solar PV fits under Goal 3 of the National Energy Plan: Jamaica realizes its energy resource potential through the development of renewable energy sources and enhances its international competitiveness, energy security whilst reducing its carbon footprint. The project is also responsive to Jamaica’s NDC and Climate Change Policy. Key stakeholders engaged include, Government ministries including the Ministry of Science Energy and Technology, the Climate Change Ministry and Finance; JPS Co.; Various social development organizations and beneficiary communities.</p>			

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Activities

- Installation of solar PV systems and/or mini-grids for 14K vulnerable low income households
- Strengthening local capacity in the maintenance and operation of solar PV systems to sustain initiative beyond warranty period (training and partnerships, technical assistance)
- Retailer and Consumer Education Campaign to sensitise communities and micro-financing institutions on use of sustainable energy and support ease of access to financial services

Expected outcomes

The Ultimate Outcomes would be the **transformation of the Jamaican Electrification market**, with emphasis on the underserved population. This would expand of **off-grid renewable energy generated electricity** thereby reduce the need for expansion of the fossil-based electricity system and the vulnerabilities that would accompany this expansion in these vulnerable communities. The other benefits to be realized include:

1. Increased economic activity would be expected in the communities including: - a rise in the sale of appliances such as cell phones and televisions; **improved penetration rates of RE ad EE equipment**; increased usage of other modern amenities;
2. Community electrification would mean improved local health centers, schools with computers and a more integrated community ;
3. **Emission reduction**, reduction in air pollution, **reduction in fires**, health effects and affordability over the long term.

Paradigm shift potential

- The project seeks to **scale up an ongoing pilot in 50 homes**, which is due to be completed in late 2019. provide electricity to marginalized communities which are off-grid through the use of Solar PV Home System Kits. Through this project, while 14K vulnerable low income households representing 3.5% of the households in the island will be positively impacted, **the transformation of the electrification sector** in Jamaica will also be positively influenced.