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## SHAREDSOLAR COMBINES SOLAR ENERGY WITH SMART METERING TO PROVIDE RELIABLE ELECTRIC SERVICE TO OFF-GRID COMMUNITIES

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### SharedSolar

SharedSolar is a modular micro-grid solution that provides electric infrastructure and service to a cluster of customers that are not immediately considered viable for grid connectivity. Using a pay-as-you-go model, smart metering and flexibility for supply, load and tariff management, SharedSolar provides reliable electricity, achieving maximum financial and social inclusion. Customers pre-pay for the service anytime, in amounts of their choosing, with no monthly fees. Real-time demand and supply management strategies help ensure fair distribution and high uptimes. In addition, the generation and storage capacities are sized to match existing demand, as it grows over time, capacity can be added through additional solar panels or even other local energy sources. When the grid arrives, the local distribution network and management system can be utilized without modifications. All stakeholders have access to real-time, contextual information and customers can access their use and balance data. Operators have enhanced situational awareness and control, allowing them to manage their assets and operations effectively, while donors and governmental agencies can monitor performance using the same platforms.

[shedsolar.org](http://shedsolar.org)

## How it works

### Field Agents

Field Agents purchase wholesale energy credits from the SharedSolar Franchisee, which are stored on their devices for distribution in their service area.

## Benefits

### User Convenience

SharedSolar helps create a grid-like (230V AC) connection for even the poorest, giving them the ability to flexibly use electrical lighting, cell-phone charging, tablet/television, refrigeration, small pumps and other appliances even at low consumption levels. With smart metering small appliance finance and small irregular payments are accommodated without high transactions costs.

### Social and Environmental

Health and safety problems from toxic fumes and poor quality lighting are eliminated. Clinics, schools, community centers and drinking water systems can all receive reliable power without burdening themselves with maintenance of separate stand-alone systems. Tariff-enabled financing permits leasing-to-own models for efficient appliances without the additional costs of micro-finance transactions.

### Economic & Employment

Income-generating activities like agriculture, entertainment, ice-making, tourism etc can be powered sustainably. Systems can be upgraded when demand grows, ensuring precious capital is used judiciously while at the same time allowing customers and local entrepreneurs to grow their demands as they need without having to upgrade their individual systems.

### Customers

Customers make payments to Agents, who then apply the energy credits to their accounts.

## Success stories



*A group of women in Mali have started a cold-drink business by leasing a refrigeration system that they pay off through their electricity tariff.*

### Mali

*In operation since 2010*

- 9 separate sites
- 2 social centers and new businesses

### Uganda

*In operation since June 2011*

- 8 separate sites in southern Uganda
- 3 schools
- 2 apartment buildings

### Bolivia

*In operation since 2013*

- 30 households, a school, and a health center connected in a remote village accessible only by boat.
- Each household has 3 lights and one standard AC outlet

### Ghana

*Under construction*

- 30 systems

### Mozambique

- Feasibility study complete to connect 1000 households