



# Solar system prices Liberia

How much solar energy potential does Liberia have?

Liberia has a high and consistent potential for solar energy, with an average level of 1,712 kWh/m<sup>2</sup>/year, which could generate 1,400 to 1,500 kWh/kWp. Some 43% of the land is covered with forests (41,790 square kilometers, World Bank 2015), but this does not affect the solar energy potential.

What is the cost of electricity in Liberia?

The tariff on generator usage in Liberia is estimated to be approximately US\$3.96/kWh, which is around 14 times higher than the LEC tariff, according to Options for Development of Liberia's Energy Sector. The document also mentions that the consumption of thermal energy in the form of charcoal and firewood costs Liberia about 960,000 trees per year.

How many people in Liberia have access to electricity?

Fewer than 1% of rural Liberians have access to electricity. LIB Solar focuses on providing reliable, safe electricity to these communities by mobilizing communities instead of selling to individual customers. Each community receives high-quality solar systems that provide lighting and phone charging.

How much solar radiation does Liberia have?

In Liberia, monthly solar radiation on a horizontal surface ranges from about 4 kWh/m<sup>2</sup>/day during the rainy season to 6 kWh/m<sup>2</sup>/day during the height of the dry season. This refers to the amount of solar energy that falls on a surface in Liberia each month.

What is the sustainable power source in Liberia?

In Liberia, sustainable power is harnessed from tight-knit communities to provide life-changing products and services, starting with access to solar electricity. Electricity creates opportunities -- opportunities to learn, communicate, start a business, and build a better life.

Why is electricity important in Liberia?

Electricity is important in Liberia because it creates opportunities, such as learning, communication, starting a business, and building a better life. Unfortunately, less than 1% of rural Liberians have access to electricity. However, reliable, safe electricity is now affordable for nearly anyone. LIB Solar focuses on mobilizing communities instead of selling to individual customers to achieve economies of scale.

A 10kW off-grid solar system with a 10kWh lithium battery is a robust solution for addressing Liberia's energy challenges. By leveraging the abundant solar resources, this system not only enhances energy security but also contributes to economic ...

The capital cost of solar mini-grid PV system for Liberia for projects in the range 500 to 1000 kW range is estimated at US\$ 2,700/kW. The Rural Energy Strategy and Master Plan (RESMP) for Liberia until 2030



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specifies renewable energy targets of 150 MW of grid generation capacity from

J.J Reliable Solar Company Inc. is a registered and Liberian-owned reliable energy company that specializes in solar energy provisions/sales and installations and maintenance. J.J Reliable Solar Company Inc. is accredited by the Liberia Business Registry and is a member of the Liberian Business Association (LBA).

Liberia's Sustainable Power. We harness the most valuable resource in rural areas --tight-knit communities -- to provide life-changing products and services, starting with access to solar electricity. Electricity creates opportunities -- opportunities to learn, communicate, start a business, and build a better life.

Communities receive high-quality solar systems that provide lighting and phone charging. Customers own their systems after completing a series of affordable monthly payments. Households and businesses can finance additional products, including refrigerators, TV's, fans, and business equipment.

Distributing Solar: Perhaps we could speak a bit about structure of the financial approach that you are taking. What is the typical cost for solar for some of your customers? How much does it cost to install the system? And how does it work for an end consumer?

Benefit from a self-contained solar energy solution for your households and businesses. Pay for your access to solar energy every month with ease via Orange Money, by dialing \*144# on your mobile. Have a global solution (solar energy + home equipment: radio, light bulbs, TV) to meet essential needs:

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