

## SolarInnovate Energy Solutions

# Is Kenya's outdoor power supply self-operated genuine



## Overview

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Who owns the power in Kenya?

Around a third of Kenya's installed capacity is owned and operated by independent power producers (IPP) across several plants, including small-scale hydro, geothermal, biomass, wind, solar, and heavy fuel oil plants. The remaining capacity is owned and operated by Kenya Electricity Generating Company (KenGen), which is 70% government owned.

Will Kenya achieve universal electricity access by 2030?

As a result of Kenya's aggressive electrification program over the years, today national electricity access stands at 84%, having grown from 32% in 2013. The country aims to achieve universal access by the year 2030 by largely focusing on expanding in rural access.

What percentage of Kenyans opt for solar?

A small proportion, about 3%, opted for Solar 1. Thus, as compared to the bulk of the solar home system owning population in Kenya, where cheaper systems with 10 W or lower peak power dominate, the firm that we work with targets a group that is relatively richer. 15 Table 2. Distribution of the different Orb solar home systems.

Who regulates the Kenyan electricity sector?

The key public-sector institutions involved in managing and regulating the Kenyan electricity sector are the Ministry of Energy and Petroleum, the Energy and Petroleum Regulatory Authority (EPRA), KPLC, Kenya Electricity Generation Company (KenGen), the Geothermal Development Company, the Kenya Electricity Transmission Company (KETRACO), and REREC.

Which energy sources are used in Kenya?

Approximately 90% of Kenya's electricity is generated from renewable/clean energy sources. Of these, geothermal remains the most significant source

with an estimated potential of 10,000MW, but it remains relatively unexploited with a current installed capacity of less than 985MW. Kenya is the seventh largest geothermal producer in the world.

Is off-grid solar a good investment in Kenya?

In particular, Kenya is the largest market in Africa for off-grid solar products (USAID and Power Africa, 2019; GOGLA, 2019) and according to the Kenya National Electrification Strategy (KNES), off-grid solar solutions will play an important role in achieving universal electricity access for all Kenyans by 2022 (Lighting Africa, 2018a).

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????????,????????60%??????



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## Outdoor Power Supply Systems: Benefits, Types & Industry ...

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