

## SolarTech Power Solutions

# Solar power generation system in Kenya



## Overview

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Which is the largest solar power plant in east & central Africa?

The Garissa Solar Plant is the largest grid connected solar power plant in East & Central Africa. This is the first time that Kenya has developed a major solar power plant to harness its abundant solar energy resource to diversify the power generation mix and reduce energy costs.

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.

Who owns Kenya's electricity?

The remaining capacity is owned and operated by Kenya Electricity Generating Company (KenGen), which is 70% government owned. Approximately 90% of Kenya's electricity is generated from renewable/clean energy sources.

Will Kenya develop nuclear power in 2036?

It is expected that power generation will reach 5,000MW by the year 2030 with the bulk of it coming from clean energy sources. Kenya has a long-term goal of developing nuclear power with the first project expected in 2036. The

sector presents commercial opportunities, especially in renewable sources like geothermal, solar, and wind.

Will Kenya become a nuclear power producer?

In December 2022, the U.S. and Kenya signed a Nuclear Cooperation MoU, which opens the door for U.S. industry to engage and share information with Kenya on technology for nuclear power production. Kenya plans to become a nuclear power producer by 2036 and is working together with the International Atomic Energy Association as it builds capacity.

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