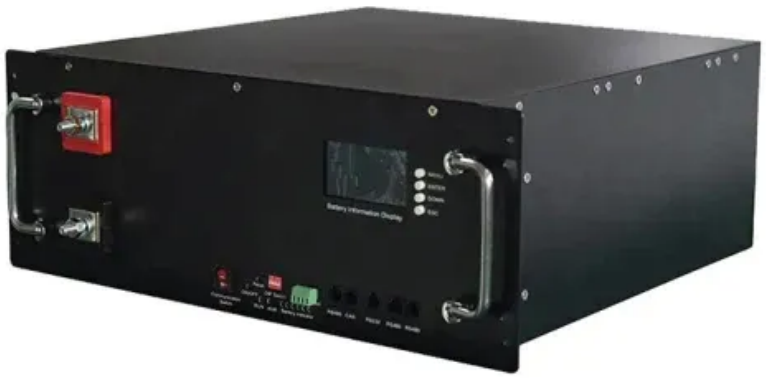
A-Core Container

Solar power generation installation at telecommunication base stations in Kenya



Overview

Safaricom has replaced diesel generators with solar panels at over 1,500 base stations across Kenya. Here’s how this shift is improving network stability, reducing carbon emissions, and shaping a cleaner digital future.

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From 310 base transmission stations powered by solar in 2022, the number has grown to 1,432 in 2023 and will continue to grow as the company looks to use less energy, cut costs, and meet its sustainability goals. Across Kenya, more and more of Safaricom’s base transmission stations are getting the.

With the installation of solar panels, the site can now run at 100% availability throughout the day, powered by the abundant Kenyan sun. And to make things even more efficient, Safaricom is pairing these solar panels with super-efficient lithium-ion batteries that store more energy and last longer.

The communication base station installs solar panels outdoors, and adds MPPT solar controllers and other equipment in the computer room. The power generated by solar energy is used by the DC load of the base station computer room, and the insufficient power is supplemented by energy storage.

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. Currently this.

The Government of Kenya has pledged to stimulate economic growth and accelerate job creation to improve the economic wellbeing of Kenyans. Among the many interventions to achieve this is expansion of the power distribution system to be within reach and thus enable more Kenyans connect to the grid.

The migration to solar power will reduce Safaricom’s operational costs and

enable it to provide customers with more reliable and affordable services, and significantly enhance the company’s Environmental, Social and Governance (ESG) footprint. If playback doesn't begin shortly, try restarting your.

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