



Kenya telecommunications base station builds solar power





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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This is part of Safaricom's broader strategy to achieve net-zero emissions by 2050 and reduce its carbon footprint. A total of 1,500 base transmission stations are now fully powered by solar energy, marking a significant transformation that is changing how the Safaricom network operates. Popularly.

By switching to solar, Safaricom has not only improved network stability but also significantly reduced breakdowns, especially those related to fussy mechanical power systems like generators. Safaricom's solar-powered stations aren't just about panels. They also include: Lithium-ion batteries that.

By adopting a site energy solution that combined solar and diesel to create a stable and reliable power supply for base stations, Safaricom, Kenya's largest operator was able to expand its business in the off-grid areas, and at the same time, reduce energy-related costs. This effectively.

Siemens Solar is excited to announce the launch of a groundbreaking solar-powered telecommunications initiative in Africa, unveiled on April 07, 2025. This ambitious project aims to deploy over 1,000 solar-powered telecom stations across the continent by 2028, providing reliable, sustainable energy.

Behind every call, text, or M-PESA transaction are base transmission stations - the silent backbone of our digital lives. Once dependent on diesel, over 1,500 of these stations are now fully powered by solar energy. more Audio tracks for some languages were automatically generated. Learn more.

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



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[Safaricom's Sustainable Future: Expanding Solar Power in ...](#)

Across Kenya, more and more of Safaricom's base transmission stations are getting the slightly sloping navy-blue glass roofs that are the sign that solar power has been installed.

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[Telecom + Solar energy: Opening a new era of green ...](#)

In Dertu, a remote village in northeast Kenya, the Millennium Villages project brought Ericsson and the pan-African operator Zain to build a green energy site with wind and ...

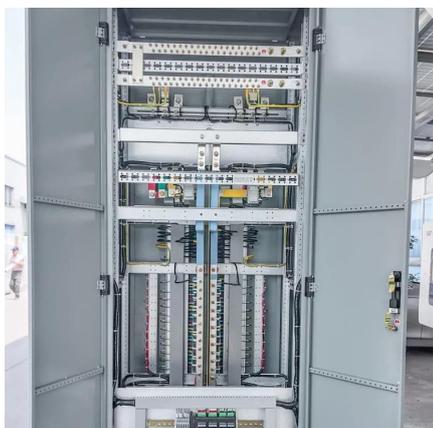
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Safaricom to expand solar power for base stations to cut carbon

Safaricom's move to switch its base transmission stations from diesel to solar power in efforts to reduce its carbon footprint and mitigate the adverse effects of climate ...

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[Siemens Solar Launches Solar Telecom Initiative in Africa](#)

In April 2025, Siemens Solar installed 10 stations in rural Kenya, each 15 kW, powering telecom towers for 50,000 users. The project cut diesel use by 95%, saving \$200,000 annually.



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[Optimum sizing and configuration of electrical system for](#)

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Safaricom News and Stories

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SOLAR SYSTEM ...

Smart photovoltaic communication base station Smart BaseStation(TM) is an intelligent communication mast that can provide remote power for a range of DC and AC off-grid ...

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Energy solution makes a greener Safaricom

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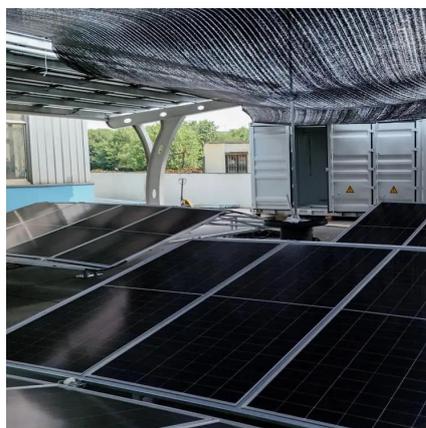
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By adopting a site energy solution that combined solar and diesel to create a stable and reliable power supply for base stations, Safaricom, Kenya's largest operator was able to expand its ...

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Safaricom Newsroom, How Solar is Greening Base Stations

From off-grid villages to data centres, solar is powering connectivity while building a cleaner, more sustainable future for Kenya. Watch how Safaricom is turning boosters into beacons of green

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