

Nigeria plans energy storage project in Lagos





Overview

How can Lagos improve its energy supply & demand?

Commissioned by C40 Cities, Arup conducted an extensive study reviewing Lagos's current energy supply and demand, its projected future needs, and the potential of various renewable technologies. We recommended a suite of measures, including localised solar power generation, energy efficiency improvements, and battery storage solutions.

How much energy will Lagos generate by 2050?

The study estimated a total local renewable energy generation potential of 25 GW by 2050 – primarily from solar power. Solar photovoltaics combined with battery storage could meet 66% of Lagos's projected 2050 energy demand without significant infrastructure upgrades.

Could solar photovoltaics meet 66% of Lagos's energy demand?

Solar photovoltaics combined with battery storage could meet 66% of Lagos's projected 2050 energy demand without significant infrastructure upgrades. Commissioned by C40 Cities, Arup conducted an extensive study reviewing Lagos's current energy supply and demand, its projected future needs, and the potential of various renewable technologies.

How much electricity does Lagos have?

Home to 18 million residents, Lagos has only 850-1,000 MW of installed capacity serving the national grid, which meets just 10% of the city's electricity demand. The remaining demand is being met by fossil-fuel generators, firewood, or individual renewable energy systems – such as solar panels and biofuel.



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[Nigeria Energy Transition & Investment Plan](#)

May 9, 2025 · The updated Energy Transition Plan (ETP 2.0) outlines the need for a total installed power capacity of 277 GW by 2060, similar to the 274 GW projected in the initial ETP 1.0. ...

Firms partner to scale battery energy storage systems in Nigeria

Oct 11, 2024 · The partnership, which was formally signed at the Africa Energy Summit in London, will mobilize capital and facilitate critical infrastructure projects focused on renewable energy, ...



[AED Energy to Build Next-Generation ...](#)

Jun 12, 2025 · Aed Energy, a UK-based developer of next-generation thermal energy storage, has announced a new pilot project at Pan-Atlantic ...

Empower New Energy Delivers First-of-Its-Kind Solar PV + Battery Energy

June 5, 2024, Lagos - Today, Empower New Energy, in collaboration with its technical partners, Powercell Limited and Huawei, announces the commissioning of a pioneering rooftop solar ...



[Firms partner to scale battery energy storage ...](#)

Oct 11, 2024 · The partnership, which was formally signed at the Africa Energy Summit in London, will mobilize capital and facilitate critical ...



[Project Case: Nigeria Renewable Energy Storage System](#)

Feb 6, 2025 · Discover the Nigeria Renewable Energy Storage System (100 kW/197 kWh), a reliable solution for self-use and backup power. Enhance energy resilience, reduce costs, and ...



Tinubu says Nigeria-Grid Battery Energy Storage System to ...

Jan 29, 2025 · President Bola Tinubu has disclosed that the Nigeria-Grid Battery Energy Storage System will benefit from a planned \$500 million facility from the African Development Bank ...





[Empower New Energy Delivers First-of-Its ...](#)

June 5, 2024, Lagos - Today, Empower New Energy, in collaboration with its technical partners, Powercell Limited and Huawei, announces the ...



Aed Energy pilots on-site power clean energy solution at Pan ...

Jun 12, 2025 · Aed Energy has announced a new thermal battery pilot project at Pan-Atlantic University (PAU) in Lagos, which it hopes will open up new clean energy on-site power options ...

[Lagos Renewable Energy Transformation ...](#)

The Lagos renewable energy transformation project aimed to address the city's significant electricity deficit and create a cleaner, more secure ...



AED Energy to Build Next-Generation Thermal Energy Storage Plant in Nigeria

Jun 12, 2025 · Aed Energy, a UK-based developer of next-generation thermal energy storage, has announced a new pilot project at Pan-Atlantic University (PAU) in Lagos, Nigeria, as part of ZE ...





Wärtsilä chosen for a 30 MW power plant project in Nigeria

May 22, 2025 · Wärtsilä Corporation, Trade press release, 22 May 2025 at 9 AM EEST Technology group Wärtsilä will supply power generation equipment for a new 30 MW power ...

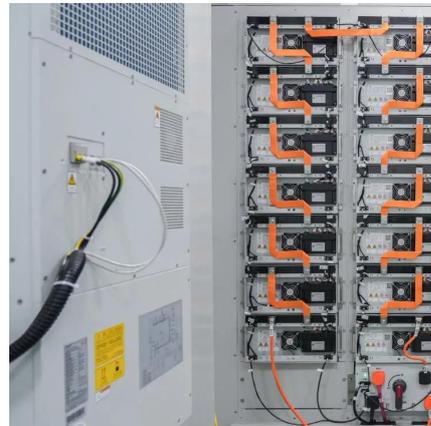


[Lagos Renewable Energy Transformation Project](#)

The Lagos renewable energy transformation project aimed to address the city's significant electricity deficit and create a cleaner, more secure energy future by leveraging renewable ...

[Nigeria: National Grid](#)

Jul 31, 2025 · The Federal Government has initiated plans to deploy renewable energy battery storage systems to enhance the stability of the national electricity grid.



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