

Luanda solar energy storage

The Angolan Ministry of Finance has secured EUR1.29 billion (\$1.44 billion) from Standard Chartered to finance the construction of 48 hybrid PV systems across the provinces of Moxico, Lunda Norte, Lunda Sul, Bie, and Malanje. The new solar infrastructure will provide sustainable electricity to 1 million people.

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The minigrid systems have a combined capacity of 296 MW of solar, with energy storage in lithium-ion batteries of 719 MWh. The project will be implemented over a period of 36 months.

"Depending on the level of consumption for the 48 sites we estimate an LCOE ranging between EUR0.153/KWh to EUR0.275/KWh for all the systems," a spokesperson from MCA told pv magazine. "This considers not only the PV Generation but also the storage capacity for all 48 sites. As far as the cost for consumers per KWh is concerned, Angolan tariff regulation mandatorily applies. Depending on the type of consumer, a given price per kWh will be charged there are subsidies to electricity prices in Angola."

In early June, the Export-Import Bank of the United States awarded a loan to Angola's Ministry of Energy and Water to deploy two large-scale solar power plants, totaling 500 MW.

According to the latest statistics from the International Renewable Energy Agency (IRENA), Angola had 297 MW of installed PV capacity at the end of 2022. By 2025, the African nation aims to reach an access rate of 65% and a total installed capacity of approximately 10 GW. However, its current installed capacity is only 5.6 GW, with just 4.5 GW actually available.

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We're helping Angola strengthen the national electricity system, diversify the energy matrix, and reduce the dependence on fossil fuels. The Angola Solar Project includes seven utility-scale projects,



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including one installation that is the largest utility-scale solar installation in Sub-Saharan Africa.

In four southern provinces of Angola, we're deploying 724 MW of utility-scale solar PV, solar minigrids with battery storage, home power kits, and potable water. This \$2 billion project is our second large-scale solar project in Angola and will provide electrification to more than two million people.

This transformative project promotes widespread electrification, local job creation, and knowledge and technology transfers. It includes approximately one Gigawatt of utility-scale solar power generation, battery storage, distribution infrastructure, and an advanced grid asset management system.

In some of the most remote corners of Nigeria, we're installing over 200 minigrids and solar cabins. Together, they'll bring clean, reliable, affordable energy to rural communities that are far from the national grid and have never had access to electricity before.

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