

Burkina Faso 1 megawatt battery storage

How will a solar power plant help Burkina Faso?

The Donsin Airport solar power plant will be equipped with a battery electricity storage system. Burkina Faso's transitional parliament approved a \$49 million loan from the Export-Import Bank of China (CHEXIM) that will help one of the world's least electrified countries marginally increase its electricity generation.

How much power does Burkina Faso generate?

According to Burkina Faso's Ministry of Energy, Mines and Quarries, the country generates 500 MW of the current 714.4 MW. Through its power utility, the National Electricity Company (SONABEL), the Sahelian nation imports the deficit from neighboring countries, including Cote d'Ivoire and Ghana.

Will the Donsin project increase Burkina Faso's power deficit?

Through its power utility, the National Electricity Company (SONABEL), the Sahelian nation imports the deficit from neighboring countries, including Cote d'Ivoire and Ghana. While the exact value of the loans Chinese lenders made to Burkina Faso is not explicitly known, the Donsin project will undoubtedly increase the amount.

Where will Chexim build a solar power plant in Ouagadougou?

The country's government officials and CHEXIM signed the concessional loan agreement in September 2023 to construct the 25 MWp solar power plant at Donsin airport in Loumbila, some 23 kilometers north-east of Ouagadougou, the country's capital.

The report found that by deploying 60-70 MW (160-220 MWh) of independent battery energy storage solutions (i-BESS) the energy sector could potentially save between 800 million and 1.8 billion FCFA (\$1.5 million to \$3.3 million) annually, while reducing carbon emissions.

The project, approved by the Council of Ministers in February 2024, under the leadership of President Ibrahim Traoré, involves the construction of a 25 MWp solar power plant at the Donsin airport site in central Burkina Faso. Additionally, a 5 MW/20 MWh battery storage system will be installed to ensure efficient electricity storage and ...

As per 2017 JRC recommendations for Burkina Faso, the marginal cost of electrification could be reduced through the deployment of 374 MW of decentralized PV systems with an estimated cost of 1.7 billion euros to reach universal access to electricity by 2030 in Burkina Faso [4].

This study investigated three scenarios based on the existing microgrid's characteristics: conventional standalone diesel generators, PV/diesel without battery storage and PV/diesel with a battery storage system which are the main technologies used for off-grid rural electrification in Burkina Faso.



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According to the Burkina Faso government's roadmap, by deploying 60-70 MW (160-220 MWh) of independent battery electricity storage solutions (i-BESS), the energy sector could potentially save between 800 million and 1.8 billion CFA francs (EUR1.2 million to EUR2.7 million) per year, while reducing CO2 emissions.

Plans are underway for the deployment of 60-70 MW or the equivalent of 160-220 MWh of i-BESS or rather independent battery electricity storage solutions in Burkina Faso in the coming years.

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The park will be equipped with a 5 MW/20 MWh battery electricity storage system. With this project, Burkina Faso's Ministry of Energy, Mines and Quarries aims to ensure energy security at Donsin airport, while increasing the country's generating capacity, which currently stands at 714.4 MW.

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