

# Benin 1 mw solar power plant cost and profit

3E, Egnon Consulting and Socretec have been assigned by the Societe Beninoise d'Energie Electrique (SBEE) to provide owner's engineering services for Benin's first utility-scale solar power plant.

Approximately 131,920 people could be supplied with electricity from a 10 MW utility-scale photovoltaic power plant in Benin. o Photovoltaic power plants" levelized cost of energy ranges from 0.11 USD/kWh to 0.125 USD/kWh. o Incentives and subsidies could lower the levelized cost of energy and increase solar photovoltaic investment in Benin.

To provide access to clean energy services to its communities, the government of Benin has recently inaugurated a 25-MW solar PV system. The solar power plant of Illoulofin is the first solar plant integrated into the grid with a generation capacity of 25 MW.

Solar Home Systems: The European Investment Bank has installed 107,000 solar home systems in Benin, offering them at a daily cost of 20 cents per day for users. Utility-Scale Photovoltaic Power Plants: The levelized cost of energy from these large-scale solar plants ranges between USD 0.11 and USD 0.125 per kWh.

A 25 MW solar power plant has come online in Benin's Illoulofin region as the country's 1 st large scale solar PV facility; It is equipped with 47,212 solar modules and 185 Huawei inverters and was built by France's RMT Eiffage; Funded with support from France's AFD and the European Union, the project is planned to be expanded to 50 MW by 2024

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A study from Ref. [50], estimated energy potential for each territory in Benin, and determined that 187 MW could be produced from small hydroelectric power plants (SHP), 761 MW from biomass, 322 MW from wind power, and 3532 MW from solar power. Of all the available renewable resources in Benin, solar has the greatest potential, and is the ...

Illoulofin Solar Power Station, is a 50 megawatts (67,000 hp) solar power plant in Benin, whose first 25 MW

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was commissioned on 19 July 2022, and the next 25 MW is under construction and is expected to come online in 2025.

Construction launched on 12 November at the 25MWp Forsun Solar PV plant in Pob&#232;, Benin. The project is the result of cooperation between the French Development Agency (AFD), the European Union and the Beninese government to invest almost 16 billion West African Francs (\$25.58 million) into building the solar plant.

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**Key Figures & Findings:** Benin has commenced construction of the 25 MW Forsun photovoltaic (PV) plant, enhancing the capacity of the Illoulofin solar power plant. The project, valued at \$25.8 million, is funded by the French Development Agency (AFD) and the European Union.

To achieve 100 % RE by 2050, Benin would need to install 1000 MW of solar PV, 300 MW of wind power, 600 MW of hydropower, and 538 MW of CSP, with an investment cost of USD 6.04 billion and 1262 MW of CEEP generation.

Web: <https://gennergyps.co.za>