



# Angola is solar panels expensive

At a cost of \$300 million, the Bi&#243;pio Solar Plant, situated in the Catumbela municipality, is the country's biggest solar energy project, with a capacity of 188 MW, while the Ba&#237;a Farta Solar Plant, with a capacity of 96 MW, features 261,360 solar panels and costs approximately \$152 million.

The average cost of solar panels in Angola is about \$20,500 for a 5-kW system and \$41,000 for a 10-kW system before the ITC, but the actual cost will depend on things like the type of solar panels you want, what size system you need and how much energy you consume.

Angola's Ministry of Finance has secured EUR1.29 billion from Standard Chartered to finance the construction of 48 hybrid PV systems across the Angolan provinces of Moxico, Lunda Norte, Lunda Sul...

On average, the solar potential of Angola varies between 1,355 and 2,068 kWh/m<sup>2</sup>/year. In addition to the high levels of solar irradiation, Angola also has the particularity of having vast and wide plains, bringing together the ideal conditions for the development of solar projects.

Abundant sunshine, high solar radiation levels and a low electrification rate make Angola conducive to the development of solar photovoltaic power. The country's first solar power plants - located in Bi&#243;pio and Ba&#237;a Farta - were inaugurated in July 2022 and will supply electricity to 1.5 million households.

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**SOLAR ENERGY: 100 MW UNTIL 2025.** Angola has a high solar resource potential, with an annual average global horizontal radiation between 1.350 and 2.070 kWh/m<sup>2</sup>/year. Solar energy constitutes the largest and more uniformly distributed renewable resource of the country.

Maximise annual solar PV output in Luanda, Angola, by tilting solar panels 8degrees North. In Luanda, Angola, the potential for solar power generation is relatively favorable throughout the year....

Additionally, the viability of solar energy projects in Angola is being strengthened by the falling costs of solar technology. Costs for solar equipment have decreased as a result of technological breakthroughs and economies of scale, making solar power more affordable than other energy sources.

The project is expected to cost an estimated \$82 million, with French independent power producer, Total Eren, Angola's Sonangol EP and Angolan developer, Greentech, partnering to finance, construct and operate the plant with an ownership stake of 51%, 30% and 19%, respectively.



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Angola has set a target of 60% access to electricity by 2025 under the strategic plan "Visao 2025," of which solar is poised to play a central role. Supporting electrification as well as diversification, solar projects are being rolled out by the government alongside international partners and project developers.

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