

Solar rate in Senegal

How many people in Senegal will get solar power?

Nearly 540,000 people in Senegal will get access to clean and affordable power following the launch of two solar photovoltaic (PV) plants, financed by IFC, the European Investment Bank and Proparco, under the World Bank Group's Scaling Solar program.

How much electricity does Senegal have?

As it stands, 70.4% of the Senegalese population has access to electricity, of which less than a third is generated from domestic sources - total installed capacity currently sits at 1,555 MW. However, under the government-backed World Bank Scaling Solar program, 60 MW was added to Senegal's domestic power generation last year alone through solar.

How much does a solar power plant cost in Senegal?

The paired solar power plants cost \$40.77 million, providing electricity to 540,000 people at under four cents per kWh - not only the cheapest energy in Senegal but among the most cost-effective across sub-Saharan Africa.

Does Senegal need a solar power plant?

Senegal's power sector has been historically reliant on costly fuel imports, with about 80 percent of its energy mix being oil-based. "The Kael and Kahone solar power plants exemplify our commitment to supporting Senegal's transition to cleaner, more affordable energy, while creating business opportunities for local communities.

How much solar power does Senegal have in 2022?

Senegal had an installed capacity of 245 MW of solar PV and 159 MW of wind in 2022, thus meeting its unconditional targets almost a decade ahead of schedule (Figure 5.6). Source: IEA analysis based on UNFCCC (2020), Senegal's Nationally Determined Contribution.

How much does Senegal's electricity project cost?

The estimated investment amount for this project is CFA 10 billion. Senegal has one of the highest rates of access to electricity in sub-Saharan Africa and has set the target of achieving universal access by 2025.

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Specifically for Senegal, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with the relevant socio-economic indicators.

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Since the launch of the PSE, Senegal has adopted reforms designed to attract foreign direct investment (FDI) and encourage higher levels of private sector participation, leveraging significant support by the development finance institutions (DFIs), such as the Scaling Solar Programme of the World Bank.

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The energy landscape of Senegal, a nation in West Africa, is undergoing a spectacular transition as solar energy gains prominence. Senegal has achieved great advancements in utilising the year-round abundance of sunlight it receives during the past ten years, and a number of noteworthy trends and breakthroughs are propelling this solar revolution.

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notable local and international solar PV companies like Oolu Solar and Baobab+ operate in Senegal, using cash sales, pay-as-you-go (PAYGo), and partnerships with micro-finance institutions (MFIs). In the 2019 PAYGo Market Attractiveness Index, Senegal was the highest ranking West African country, ranking 9th out of 24 countries.¹⁰

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Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each



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of these classes and the global distribution of land area across the classes (for comparison).

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