

## Kongres Container

# Solar power prices for home use in Senegal



## Overview

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Solar energy from the new plants costs less than four euro cents per kilowatt-hour, making the energy more affordable than oil-based electricity and more accessible to rural areas with high poverty rates. How much does electricity cost in Senegal?

As per SENELEC's (national electricity company of Senegal) current rate, the price of electricity for households in Senegal is 0.2223 USD/kWh. The electricity price for businesses is 0.3136 USD/kWh. 4 As per survey reports, nearly 55% of the population is connected to an electricity supply that worked most or all of the time.

How much solar power does Senegal have?

The availability of sunny hours per year is around 3,030 for most parts of Senegal, with annual solar radiation of 8.3 kilowatt-hours per square meter per day. 12 The annual generation per unit of installed PV capacity in Senegal is approximately 1600-1800 kWh/kWp/year. 3.

How can solar power plants benefit Senegal?

The project estimates that more than 400 jobs in the towns benefit from the existence of the new solar power plants in Senegal. Because Senegal mainly relies on imported oil for electricity, solar power plants offer a more reliable and sustainable green energy source that costs less.

How many jobs will the new solar power plants create in Senegal?

The addition of the solar power plants form part of the World Bank Group's Scaling Solar program and are funded by the International Finance Corporation (IFC), European Investment Bank and Proparco. The project estimates that more than 400 jobs in the towns benefit from the existence of the new solar power plants in Senegal.

Can Senegal become an emerging economy by 2035?

Senegal's government wants to become an emerging economy by 2035 and the energy sector is one of the major components of Senegal's growth. Rural areas remain the most challenging areas to install power grids. However, with low incomes, rural people struggle to afford the high costs of electricity.

How much energy does Africa use a year?

Per capita energy consumption was 0.4 toe in 2023 (40% below the Sub-Saharan Africa average), including approximately 380 kWh of electricity (similar to the regional average). Total energy consumption is growing rapidly (+5%/year, on average since 2013, including + 16% in 2023) and reached 6.2 Mtoe in 2023, almost 2.6 times its 2000 level.

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