

Djibouti solar panels

The Amea Grand Bara Solar Power Station is a planned 250MW (34,000hp) solar power plant in Djibouti. When commercially commissioned, it will be the country's first and largest grid-connected solar farm.

The power station would be located in the Grand Bara Desert, in the Ali Sabieh Region, in southeast Djibouti, close to the international borders with Ethiopia and Somaliland.

The power station design has 25 megawatt capacity. It will also be fitted with a battery storage facility with capacity of 5 MWh. Its annual generation is calculated at 55 GWh.

The power generated at this solar farm is expected to be sold directly to Electricit  de Djibouti (EDD), the national electricity utility monopoly for 25 years after commercial commissioning. The power purchase agreements (PPAs), governing the purchase and supply of power between the station developers and the government of Djibouti were signed in late August 2023.

The power station is under development by a consortium comprising Amea Power, an independent power producer (IPP) based in Dubai, United Arab Emirates and the Sovereign Fund of Djibouti (SFD), as minority shareholder.

Once it begins, construction is expected to last 16 to 18 months. The power station is being developed under a Build-Own-Operate and Transfer (BOOT) model.

Djibouti is set to develop a 25MW solar power plant in Grand Bara. This follows a power purchase agreement (PPA) inked between UAE-based independent power producer Amea Power with Electricit  de Djibouti (EDD).

This project aligns with Djibouti's goal to reduce carbon dioxide (CO2) emissions by 40% by 2030. It will involve construction of a battery storage system to ensure a stable supply of electricity. The power plant is expected to produce around 55 GWh of electricity annually and sold to EDD, the public utility company in Djibouti, under a 25-year agreement. It is estimated that the plant will be able to supply electricity to approximately 66,500 people.

Amea Power will build the solar plant through the public-private partnership, which will also include the Sovereign Wealth Fund of Djibouti (SDF) as a minority shareholder. Djibouti is experiencing a growing demand for electricity, with household consumption increasing by 10% annually. To meet this demand and reduce reliance on imports, the country is actively pursuing renewable energy projects.



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Djibouti currently imports electricity from Ethiopia through a high-voltage transmission line, supplying 65% of its electricity needs. Ethiopia is also expanding its capacity to export more electricity to Djibouti through additional high-voltage lines.

"Amea Power is proud to take this step and to support Djibouti in its energy transition. East Africa is an important market for Amea Power, as it is a region with immense potential for the development of clean, reliable and affordable energy," said Hussain Al Nowais, Chairman of Amea Power, who signed the PPA with Djama Ali Guelleh, Managing Director of EDD.

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