ContainerPower Energy Solutions

Niger solar Module Project Electrical

Overview

The Niger Solar Electricity Access Project (NESAP), aimed at enhancing electricity access in rural and peri-urban areas of Niger through solar energy, started in 2017 and has built 15 solar power plants.How many households can a 50MW solar power plant supply in Niger?

The 50MW cpacity Gorou Banda PV solar power plant is capable of supplying 500 000 households in Niger. Equipped with 55,776 solar panels installed on a 27-hectare site located just 12 km from the capital Niamey, the plant will be operational from 25 August 2023, the planned date for connection to Niger’s national electricity grid.

Who financed a solar power plant in Niger?

The European Union, the French Development Bank and the government of Niger co-financed the installation. A French consortium made up of Akuo and Sagecom has finished building a 30 MW solar power plant in Gorou Banda, Niger. The Niger government had initially planned the project to have a capacity of 50 MW.

Where is solar energy used in Niger?

Solar energy is well-suited for use in Niamey and Zinder, located at lower latitudes, as they show less variability in solar radiation throughout the year. Niger has a long history of solar energy use, which began in the mid-1960s with the establishment of the Centre National d'Énergie Solaire (National Solar Energy Centre; CNES).

Are there any off-grid solar energy systems in Niger?

Yes, there is considerable experience of off-grid solar energy systems in Niger. These include off-grid PV electrification, water pumping, and solar water heating systems. The main decentralised renewable energy system promoted in Niger for rural electricity is solar PV.

How much electricity can a solar farm produce in Niger?

The solar farm will be capable of producing 53 GWh of electricity per year, enough to supply 70,000 homes, or 500,000 people in the capital Niamey, according to the Niger government. The plant is also expected to prevent the emission of 23,000 tonnes of CO2 equivalent per year.

Will a 20 MW grid-connected solar PV system perform in Niger?

A financial analysis has been made as part of the pre-feasibility study of a 20 MW grid-connected solar PV system near Niamey, which provides a concrete example of how grid-based systems are likely to perform under the resource and macroeconomic conditions prevalent in Niger.

Niger solar Module Project Electrical

Contact Us

For catalog requests, pricing, or partnerships, please visit: https://www.websparafotografos.es