



**SolarTech Power Solutions**

# **Tunisia's solar energy storage requirements**



## Overview

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How many solar jobs are created in Tunisia?

Tunisian Solar Plan Jobs created: Approximately 10 000. Tunisia is endowed with abundant renewable energy resources, particularly solar and wind energy; however, renewable energy currently plays a minor role in the country's energy supply.

What is the Tunisian Solar Plan?

The Tunisian Solar Plan contains 40 projects aimed at promoting solar thermal and photovoltaic energies, wind energy, as well as energy efficiency measures. The plan also incorporates the ELMED project; a 400KV submarine cable interconnecting Tunisia and Italy.

How many MW is a solar power system in Tunisia?

It is subject to authorisation by MIEM and is set by Decree No. 2016-1123: 10 MW for solar PV and solar thermal; 30 MW for wind energy; 15 MW for biomass; and 5 MW for projects using other renewable resources. Box 3. Addressing power system flexibility in Tunisia.

How many MW will Tunisia produce in 2030?

According to the Energy General Direction of the Tunisian Ministry of Energy and Mines, 650 MW will come from solar photovoltaic, while the residual 350 MW will be supplied by wind energy. Under new plans, Tunisia has dedicated itself to generating 30 per cent of its electrical energy from renewable energy sources in 2030. Loading.

Does Tunisia have a good solar energy potential?

Tunisia has very good solar radiation potential which ranges from 1800 kWh/m<sup>2</sup> per year in the North to 2600kWh/m<sup>2</sup> per year in the South. Tunisia has 1,800MW of solar energy potential which is until now yet to be harnessed.

## How much solar irradiation is needed in Tunisia?

Generally, the DNI should be at least 2 000 kWh/m<sup>2</sup>/year to provide a viable energy yield. In Tunisia, as shown in Figure 21, direct solar irradiation in the south and in most of the central region exceeds this typical DNI value. The DNI in some regions of the extreme southeast of Tunisia can reach a value of 2 300 kWh/m<sup>2</sup> /year.

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