

## SolarTech Power Solutions

# How many watts of solar power are installed in Libya



## Overview

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According to the International Renewable Energy Agency, Libya only has 6 MW of installed PV capacity. In its strategic plan for renewables for the 2013-25 period, the Libyan government has set targets for 300 MW of PV by 2020 and 450 MW by 2025. Can solar energy be used to generate electricity in Libya?

(Kassem et al., 2020) performed a study analysis of the potential and viability of generating electricity from a 10 MW solar plant grid-connected in Libya. The consequences of that study indicate that Libya has a massive potential of solar energy can be utilised to generate electricity.

How much electricity does Libya produce?

Furthermore, according to the outcomes from the techno-economic; thus, it's detected the maximum electricity generation approximately "22067.13 MWh". Libya has partnerships with many countries to participate in the desert technology project, contributing to the large power supply system (Hafner et al., 2012).

What is the largest solar PV project in Libya?

The General Electricity Company of Libya (GECOL) launched the largest solar PV project in the country with 500 MW capacity which is to be built by French energy major TotalEnergies in Al-Sadada region. GECOL's Chairman of the Board of Directors termed the project the 1<sup>st</sup> and the largest solar plant in Libya to have been launched.

How much sunlight does Libya have?

The 'Libyan Renewable Energy Authority' has estimated that the average solar sunlight hours are approximately "3200" hours/year and that the average solar radiation is 6 kWh/m<sup>2</sup>/day (Mohamed et al., 2013).

Will TotalEnergies develop a 500 MW solar power plant in Libya?

In November 2021, TotalEnergies signed agreements with Libya to develop PV

facilities of 500 MW capacity and the power generated will be supplied to industrial facilities in Waha (see 500 MW Solar PV Capacity For Libya).

What are the main energy sources in Libya?

Libya relies fully on fossil fuels to generate its electricity; hence, the Natural Gas and Oil are the key energy sources (Sorensen, 2010). The power stations in Libya are dependent on light and heavy oil, with a growing dependency on natural gas (Asheibe and Khalil, 2013).

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