

## SolarTech Power Solutions

# Chile imported outdoor power solar power



## Overview

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Solar power in Chile is an increasingly important source of energy. Total installed photovoltaic (PV) capacity in Chile reached 11.05 GW in 2023. In 2024, Solar energy provided 19.92 TWh of electricity generation in Chile, accounting for 22.3% of total national electricity grid generation, compared to less than 0.1% in 2013. In October 2015 Chile's Ministry of Energy announced its "Roadmap to 2050: A Sustainable and Inclusive Energy System".

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Chile, the world's longest country, has varying sunshine hours in different regions, with an average of 3285 hours per year or 9 hours per day. 1 Solar radiation Chile's average Direct Solar Radiation is 2506 kWh/m<sup>2</sup> per year or 6.9 kWh/m<sup>2</sup> per day. 2 It is the highest 3,800 kWh/m<sup>2</sup> per year or.

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Solar PV capacity accounted for 16.4% of total power plant installations globally in 2023, according to GlobalData, with total recorded solar PV capacity of 1,496GW. This is expected to contribute 33.7% by the end of 2030 with capacity of installations aggregating up to 4,822GW. Of the total global.

According to Coordinador Eléctrico Nacional (CEN) Chile's Independent System Operator, as of May 2025, Chile oversees a total installed power capacity of 37.4 giga watts (GW), with 11.9 GW coming from traditional energy sources and 25.5 GW coming from renewable energy sources. Though traditional.

capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across

the class at a height of 100m. The bar chart shows the distribution of the country's land area in each of these classes compared to the global.

The Chile Renewable Energy Market Report is Segmented by Type (Hydropower, Solar, Wind, Biomass, Geothermal, and Others), Component (Equipment and Services), and End-User (Utilities, Commercial and Industrial, and Residential). The Market Size and Forecasts are Provided in Terms of Installed.

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