

How does the Global Solar Atlas work?

It is accompanied by country factsheets, downloadable from the Global Solar Atlas, that provide a summary of the resource potential and how it compares to other countries. The data make it possible to evaluate or compare virtually any site, region, or country.

What is the Global Solar Atlas?

The Global Solar Atlas is an open data initiative that makes available both modeled and measured solar radiation and meteorological data. Modeled solar and meteorological data are available for all land areas between 60°N to 45°S. Detailed information is provided in the Technical report.

Why is Romania a great country for solar power?

Romania was a major player in the solar power industry, installing in the 1970s and 1980s around 800,000 m² (8,600,000 sq ft) of low quality solar collectors that placed the country third worldwide in the total surface area of PV cells.

How many solar panels are installed in Romania?

Another Romanian city, Alba Iulia, installed a total of 1,700 PV cells on several public buildings that have a rated power of 257 kW. Other cities include Giurgiu with 174 solar panels and 391.5 kW installed capacity and Saturn with 50 panels and 112 kW installed capacity.

How does Romania support the production of solar / PV energy?

The Romanian State supports the production of solar /PV energy by offering six (6) green certificates for each MWh produced and injected into the grid.

How much solar energy does Romania need?

In the context of the European ambitions, Romania would need to aim for 44.4% RES, meaning 11.1 GW of solar - 6.1 GW for utility-scale and 5 GW for rooftop PV. Drivers for solar growth The last two years have been marked by significant legislative changes that underpinned the development of the Romanian PV sector.

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Following a period of lull, Romania has achieved in 2023 a significant milestone in its renewable energy journey - over 1 GW of new solar capacity installed in one year between distributed generation and utility scale projects.

The renewable energy sector in Romania is at an exciting crossroads, with the country looking to address both

domestic energy demand and international requirements to reduce carbon emissions. This article will delve into Romania's solar energy landscape.

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Specifically for Romania, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with the relevant socio-economic indicators.

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