

Solar power generation in Croatia



Overview

Croatia installed a total 397 MW of solar in 2024, bringing its cumulative capacity to around 872 MW, and surpassed the 1 GW milestone in May. If the trend seen in the first half continues throughout 2025, it is expected that Croatia's solar capacity will reach 1,290 MW by the end.

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Croatia's solar capacity reaches 1.1 GW

Croatia's solar market continues to grow steadily, led by the self-supply and commercial and industrial (C&I) segments, while regulatory barriers

What is plug-in solar (balcony solar)?

Plug-in solar, also called balcony solar, are solar panels that connect to a standard power outlet. They supply power directly to your home. They are a plug and play way to reduce our



Homeowner's Guide to Solar

When it comes to installing solar, our resources can help you determine the best options.

[Croatia rooftop solar: HEP's impressive 2026 power plan](#)

The country has already achieved a remarkable milestone, reaching 3.8 GW of total renewable capacity by the close of 2024, with its solar capacity



[SignatureSolar : Solar Panels, DIY Off-Grid Solar, Server Rack](#)

Signature Solar provides solar panels & components and full kits for off-grid, grid-tie and custom diy solar systems. Providing Solar 101 and hands on experience within the solar industry.

[Croatia's electricity system led by renewables for first time](#)

Croatia set new renewable energy records in 2025, with wind and solar leading electricity production and renewables covering more than half of



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As of March 31, 2024, a total of 17,697 solar power plants were connected to the national power company's (HEP) grid in Croatia, with 12,495 in households and 5,202 in businesses, totaling

Home Solar Panels and Systems , Tesla

Learn about installing and generating your own clean energy for your home with solar and home batteries.



CROATIA GENERATED THE NEEDED POWER FROM

In December 2023, Croatia made a significant step forward in generating electricity from renewable sources, which had a 19.5 per cent share in the total available electricity, excluding

Croatia has 776 MW in 25,406 solar power plants

At the end of November 2024, Croatia had 25,406 solar power plants on the distribution grid, with a total capacity of 776 MW. The country





Factsheet Renewable Energy in Croatia

Renewable sources supply around 30% of Croatia's energy needs, but only two percent is solar energy. The potential for solar energy is estimated at 6.8GW (majority in utility-scale or ground system PV)

Energy in Croatia

Hrvatska elektroprivreda (HEP) is the national energy company charged with production, transmission and distribution of electricity. At the end of 2022, the total available power of power plants on the territory of the Republic of Croatia was 4,946.8 MW, of which 1,534.6 MW in thermal power plants, 2,203.4 MW in hydropower plants, 986.9 MW in wind power plants and 222.0 MW i



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[Croatia's Renewable Energy Landscape Transformed by Major Solar](#)

Currently, Hrvatska Elektroprivreda (HEP) operates 11 non-integrated solar power plants connected to the national grid while seven additional facilities are under construction.

Standalone

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[Croatia with Record Renewable Electricity Generation in 2025](#)

At the start of 2026, Croatia's total wind farm capacity reached 1,277 MW. Solar power plants grew faster than any other technology. In the past year, 417 MW of new solar capacity came online,

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Their competitive prices allowed me to slightly upsize my solar array, which has allowed me to keep the house even cooler than I have in the past this summer. And nothing really beats seeing those low



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