



**SolarMax Pro Energy Storage Systems**

# **Croatia solar power generation system**





## Overview

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(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.

Since 2018, Hrvatska elektroprivreda has started building integrated solar power plants according to the concept of a customer with its own production. This model enables a significant reduction in costs for own consumption of electricity. How much solar energy does Croatia produce?

Current deployment is made up of approximately 655 MW on commercial and industrial (C&I) rooftops, 155 MW on residential rooftops, and 62.1 MW of large-scale solar installations. Croatia ranks at the bottom of the European Union for total solar energy production, generating about 3% of its annual electricity.

What is Croatia's solar energy potential?

"Croatia's solar energy potential estimated at 6.8 GW". Balkan Green Energy News. Retrieved 18 March 2022. ^ Spasić, Vladimir (10 November 2021). "Croatia to add 1.5 GW of renewables by 2025". Balkan Green Energy News. Retrieved 18 March 2022.

How many solar projects are there in Croatia?

Among the solar projects announced in Croatia last year were a 99 MW site scheduled for commissioning in 2026 and a 189 MW facility, set to be the country's biggest plant to date. Croatia held a renewables auction in summer 2024 that awarded more than 400 MW of solar across two categories.

How does Croatia get its electricity?

Croatia satisfies its electricity needs largely from hydro and thermal power plants, and partly from the Krško nuclear power plant, which is co-owned by Croatian and Slovenian state-owned power companies. Renewable energies account for approximately 31.33% of Croatia's energy mix.



How many power plants are there in Croatia?

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 in solar power plants.

Does Croatia have a solar market?

The Renewable Energy Sources of Croatia Association (RES Croatia) says Croatia's solar market is growing year over year. But with residential and industrial rooftops accounting for most new installations, a key focus is enabling utility-scale growth. Croatia installed 397.1 MW of solar in 2024, according to figures from RES Croatia.



## Croatia solar power generation system

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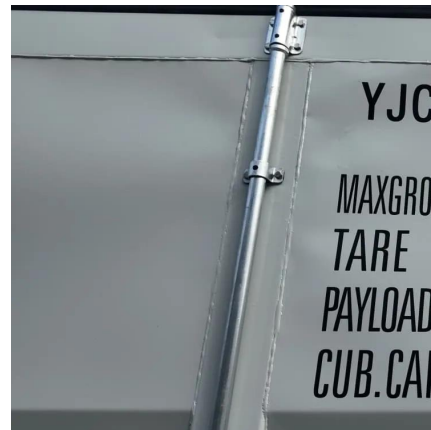


### [Croatia sees 60% growth in solar power capacity in 2024](#)

According to an analysis by the Energy Institute Hrvoje Požar (EIHP), Croatia ranks among the leading European Union countries in terms of the share of renewable energy in ...

### Resilience Under Heatwaves: Croatia's Power System During the ...

This study analyzes the record electricity consumption in Croatia during the July 2024 heatwave and evaluates how the increased deployment of onshore wind and solar ...



### [Croatia solar capacity Hits Impressive 1.1 GW in 2025](#)

While hydropower remains the largest source of renewable energy at 38% of total installed capacity, solar power is rapidly catching up at 20.1%, followed by wind power at ...



## Solar power generation in Croatia

Solar power. As of 2021, Croatia had 100 MW of solar power, providing 0.4% of electricity. The potential for solar energy in Croatia is estimated



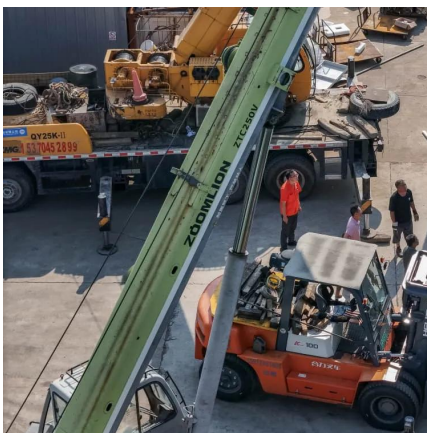


at 6.8 GW, of which 5.3 GW would be ...



## Solar industry Croatia

Access a live Croatia Solar Photovoltaic (PV) Market Size and Trends by Installed Capacity, Generation and Technology, Regulations, Power Plants, Key Players and Forecast, 2021 ...



## 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 ...



## Croatia has 776 MW in 25,406 solar power plants ...

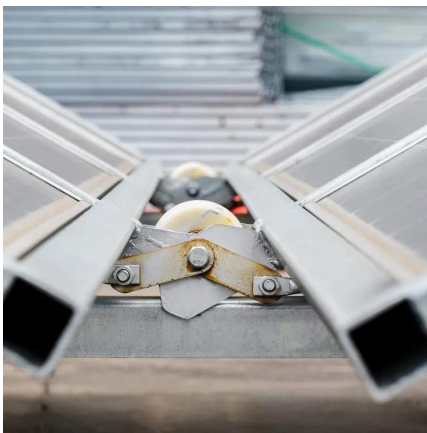
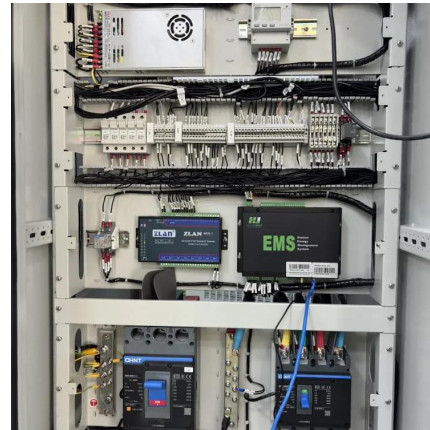
At the end of November 2024, Croatia had 25,406 solar power plants on the distribution grid, with a total capacity of 776 MW. The country ...





## Croatia solar power Set to Surpass 1 GW by 2025: Amazing Growth

Croatia is expected to surpass 1 GW of solar power by 2025, driven by a significant increase in installations and supportive policies. This expansion is part of the country's broader ...



## Photovoltaic power plants: why is the demand rising in Croatia?

The growing popularity of photovoltaic power plants in Croatia has been fueled by numerous incentives at the national, county, and municipal levels, as well as the increasing ...

## Energy in Croatia

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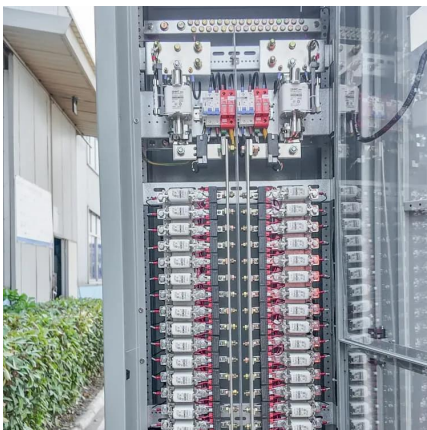
## Energy in Croatia

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## Solar power generation in Croatia

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## Croatia has 776 MW in 25,406 solar power plants connected to

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 achieved growth of 60% since ...

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