
Bulgaria 3 kW solar power generation

How big is Bulgaria's solar PV capacity in 2024?

At the close of 2024, Bulgaria's solar PV capacity had already reached 3.91 GW--an annual increase of over 1 GW. These developments come on the heels of Bulgaria's first renewable energy auction held in late 2024, where more than 3 GW of generation and 1.176 GW of storage capacity were secured.

How many GW of renewable electricity is there in Bulgaria?

Renewable electricity capacity increased by 938 MW in Bulgaria last year, compared to the addition of over 1.2 GW in photovoltaics in 2023. At the turn of the year, projects for a total of 4.1 GW were lined up for grid connections.

How many renewable power plants are there in Bulgaria in 2024?

Bulgarian companies put 481 renewable electricity plants into operation in 2024, adding 938 MW, according to the Electricity System Operator (ESO), Capital.bg reported. Of note, solar power dominates the new capacity. No wind farm has been commissioned in Bulgaria since 2012, mainly due to administrative barriers and legal uncertainties.

Why is energy storage growing in Bulgaria?

Energy storage in Bulgaria is expanding rapidly as the government awards nearly 10 GWh of capacity to 82 projects, boosting renewable energy reliability and grid stability.

Projects ranging from 200 kW to 2 MW received 107.5 million leva, while larger projects above 2 MW received 427.5 million leva. The first group had a contracted power ...

Cost of solar power generation Bulgaria According to the latest data, prices for photovoltaic energy (VAT excluded) are: for photovoltaics up to 5 kW - about EUR 0.12/kWh for ...

The Bulgarian solar energy sector is witnessing a remarkable transformation as the country's solar power capacity surges past expectations, with the biggest photovoltaic parks ...

The Bulgarian authorities awarded BGN 526 million (\$284 million) to 397 renewable energy projects in the country's latest procurement exercise.

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The country aims to phase out coal-fired power plants by 2038 and add close to 3 GW

of additional renewable energy capacity by 2030. As of the end of 2024, Bulgaria's total ...

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Bulgaria's electricity mix includes 40% Nuclear, 24% Coal and 17% Solar. Low-carbon generation reached a record high in 2025.

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By the end of 2023, Bulgaria had deployed 2,937 MW of solar capacity, according to the International Renewable Energy Agency (IRENA). The country wants renewables to ...

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the ...

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