

Why are distributed solar PV projects being built in Bulgaria?

Most distributed solar PV projects currently being built in Bulgaria are being configured purely for self-consumption; in other words, they are not connected to the grid, and are being used strictly to reduce the customer's electricity bill. This makes it harder for distribution system operators (DSOs) to monitor, and control.

How big is Bulgaria's solar power?

In a matter of months, Bulgaria's total solar power capacity is set to exceed 3 GW, compared to just 1.3 GW at the end of 2021. The lineup in the list of the largest photovoltaic plants is changing almost every week as major facilities come online, and there is more in the pipeline.

Does Bulgaria benefit from solar power subsidies?

In the last two years, the combined nameplate size of solar power installations in Bulgaria has doubled to more than 2.4 GW and additions peaked this summer. Moreover, in the current top 20, no photovoltaic units built since 2021 benefit from any subsidies, data compiled by Capital.bg showed.

Will solar power grow in Bulgaria in 2023?

Director of Bulgarian transmission network estimated photovoltaics growth as 30% in 2022, also he expects 700 MW new solar capacity in 2023, which could represent 30-40% YoY growth. In April 2023 Bulgaria's Inercom signed contract with Huasun for supply of 1.5GW solar modules. Solar power in Bulgaria has expanded by 100 megawatts (MW) in 2022.

What percentage of Bulgaria's electricity is generated by solar power?

Solar power generated 12% of Bulgaria's electricity in 2022. By the end of 2022 about 1 GW of solar PV had been installed. It has been estimated that there is potential for at least another 4 GW by 2030. On March 13, 2023, peak photovoltaics power was 30% of Bulgaria electricity generation.

What is the biggest solar PV plant to be built in Bulgaria?

This is also one of the biggest solar PV plants to be constructed in Bulgaria in recent years. With the solar PV plant, Aurubis Bulgaria will save some 11,700 MWh per year from grid electricity consumption (sufficient for approx. 12,000 households), which will cover an average of 2.5% of the electricity needs of its smelter facility.

However, long-term share of solar power is much lower. Director of Bulgarian transmission network estimated photovoltaics growth as 30% in 2022, also he expects 700 MW new solar capacity in 2023, which could represent 30-40% YoY growth.

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Actis-backed Rezolv Energy has selected three companies - CMC Europe, Solarpro and Green Solar Energy - to build the 229MW "St. George" solar park in Silistra Municipality in Northeastern Bulgaria.

EUKI project Solar Cities has transformed Bulgaria's renewable energy landscape by helping residents from the cities of Burgas and Sofia access data on solar energy potential through Solar Maps and energy offices.

The country, having experienced a solar boom in the past, was one of the first significant PV markets in Europe. Effective subsidy schemes and the energy crisis have served as drivers for the current growth in solar capacity.

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6 ???· In Vassilev's view, the concerns that photovoltaics would take up too much fertile land in Bulgaria, harming nature and agriculture, are unjustified. He said only 0.05% is under solar power plants, and on locations with grades 7 to 10, while that more than 80,000 hectares lie fallow. Safeguards for protected European ground squirrel

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The rapid evolution of Bulgaria's photovoltaic landscape is exemplified by the changing roster of the largest PV units. Just three months ago, Eurohold's Verila solar power plant claimed the title of the largest facility with a nameplate capacity of 123 MW.



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Bulgaria will connect between 1 GW and 1.5 GW of new solar photovoltaic (PV) capacity to the power grid this year, Electricity System Operator (ESO)"s central dispatch office director Dimitar Zarchev said.

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