

## SolarTech Power Solutions

# Bulgaria solar off-grid power system



## Overview

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Is Bulgaria getting more solar power?

Over the past year, Bulgaria has made considerable progress in expanding its renewable energy capacity, particularly in solar power. Solar energy production has surged from one gigawatt (GWh) in 2019 to more than three GWh today, with solar accounting for nearly half of the country's electric capacity from renewables.

Does Bulgaria have a good energy sector?

Bulgaria's energy sector is at a critical juncture, with two main objectives shaping its direction: decarbonization and reducing reliance on Russian energy. Over the past year, Bulgaria has made considerable progress in expanding its renewable energy capacity, particularly in solar power.

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

At the turn of the year, projects for a total of 4.1 GW were lined up for grid connections. 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.

What is Bulgaria's solar power potential?

Bulgaria's solar power potential is significant, especially in the southern regions. The country has rapidly expanded its solar capacity from 100 MW in 2011 to over 2,400 MW by 2023, with 600 MW added in 2022 alone. The largest solar parks are Dalgo Pole (207 MW) and Verila (123 MW).

How many solar projects are there in Bulgaria?

Currently, Bulgaria operates over 800 megawatts of wind projects Bulgaria has an annual average of 2,100 hours of solar irradiation. As of 2023 over 1,700 megawatts project are operational in Bulgaria and it is growing

substantially. Geothermal energy is gaining attention, with legislative proposals to harness Bulgaria's geothermal potential.

How has Bulgaria's energy policy changed under Borisov?

Under the leadership of Prime Minister Boyko Borisov, Bulgaria's energy policy began to shift toward closer alignment with the European Union. Borisov's government, which came to power in 2009, was more sceptical of Bulgaria's heavy reliance on Russian energy.

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