

Belgrade solar pv

Kolubara A solar farm is an announced solar photovoltaic (PV) farm in Lazarevac Urban Municipality, City of Belgrade, Central Serbia, Serbia.

Read more about Solar capacity ratings.

To access additional data, including an interactive map of global solar farms, a downloadable dataset, and summary data, please visit the Global Solar Power Tracker on the Global Energy Monitor website.

While the EU members combined appear to make good progress in the field of developing and expanding photovoltaic power plants, countries of Central and Southeast Europe lag far behind current photovoltaic capacities in the EU

Solar energy is expected to significantly contribute to the European Commission's REPowerEU plan, which is aimed at quickly reducing the EU's dependence on Russian fossil fuels and speeding up the green transition. It should also help implement the EU's Solar Energy Strategy, which was adopted in May last year. EU countries are trying to stimulate demand for these projects, among other things, by changing regulations to increase energy consumption from their own or nearby sources, simplify grid connection procedures, or gradually introduce the obligation to install solar panels on buildings, starting with public and commercial facilities.

Data from the law firm CMS, which operates in more than 40 countries around the world, on new photovoltaic solar power plants in the region of Central and Southeast Europe on the one hand and the EU member states, on the other hand, show a big discrepancy in the utilization of potentials, even within the region of Central and Southeast Europe. For example, the total installed capacity of photovoltaic power plants in four Western Balkan countries – Serbia, North Macedonia, Bosnia and Herzegovina and Montenegro - amounted to 175 MW in 2021.

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In the observed period, the total installed capacity of photovoltaic power plants in these four countries was about half of the capacity installed in Slovenia, which had 367 MW, or in Romania (398 MW). Bulgaria had seven times as much capacity (1,186 MW), Hungary 12 times as much (2,131 MW), and Austria 16 times as much (2,809 MW). On the other hand, even countries like Austria, which is in Europe's top 10, are trying to increase their capacity and close the huge gap between them and the European leaders in this area, such as Germany (58,728 MW), Italy (22,600 MW), France (14,780 MW) or the Netherlands (14,249 MW).

CMS" representatives from Serbia, North Macedonia, Slovenia, and Austria, who took part in Belgrade Energy Forum 2023 talked about the main challenges for investing in renewables in the region, as well as challenges and best practices in EU member states.

Investor interest in the renewables sector in Serbia has increased greatly since adopting the country's first law on renewable energy in 2021. In the two years, requests for connecting solar power plants and wind farms to the grid have exceeded 20 GW, which is 50 times as much compared to the combined installed capacity of all wind farms built in Serbia so far (398 MW) and several hundred times more than the total capacity of existing solar power plants in the country.

Changes to the law on renewable energy sources were adopted in April this year, to eliminate the status quo in deciding on grid connection requests for new renewable energy capacities and better protecting the transmission and distribution system in case of the integration of large-scale intermittent energy sources.

The new regulations changed the rules for conducting auctions for market premiums for renewable energy producers

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