

# **Photovoltaic power generation and energy storage in Bosnia and Herzegovina**





## Overview

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Bosnia and Herzegovina has started working on a 125 MW solar plant – its largest to date. China's Norinco International will build the facility, with completion expected in one year. The European Commission has published a call for private companies to invest in the Western Balkans. Can solar power plants be used in Bosnia & Herzegovina?

From all Balkan countries, it was found that Bosnia and Herzegovina has one of the largest potentials for the implementation of solar power plants. It was estimated that energy produced from solar power plants could be  $70.5 \times 10^6$  GWh/year and the most suitable area is Herzegovina.

Who is building a 125 MW solar plant in Bosnia & Herzegovina?

Bosnia and Herzegovina has started working on a 125 MW solar plant – its largest to date. China's Norinco International will build the facility, with completion expected in one year. The European Commission has published a call for private companies to invest in the Western Balkans.

What are the sources of energy production in Bosnia & Herzegovina?

As shown, most of the electricity produced in both entities comes from the coal and lignite industry (62.30%) followed by hydropower (35.03%) and wind power (2.04%) . Fig. 1. Distribution of sources for energy production in Bosnia and Herzegovina in 2022 [8, 9].

Who invests in the energy sector in Bosnia and Herzegovina?

The authorities in Bosnia and Herzegovina do not show significant interest in the growth of this energy sector, therefore the investments so far are mostly from the European Union (EU) or individuals. However, this is not the case only in Bosnia and Herzegovina but also in other countries of the region.

How much electricity is produced in Bosnia & Herzegovina in 2021?

The total electricity produced in Bosnia and Herzegovina in 2021 was 17.64



TWh and the annual average electricity production per inhabitant measured in kilowatt-hours was 5,393 kWh . Fig. 1 shows the distribution of various sources for energy production in B&H in 2022.

Does Bosnia and Herzegovina have a potential for geothermal energy?

Immense potential also lies in Bosnia and Herzegovina's geothermal energy, however without significant interest of authorities in the development due to initial investments in geothermal heating, which are significantly higher compared to other conventional heating systems.



## Photovoltaic power generation and energy storage in Bosnia and Herzegovina



✓ IP65/IP55 OUTDOOR CABINET

✓ OUTDOOR MODULE CABINET

✓ OUTDOOR 5G BASE STATION CABINET

✓ WATERPROOF

### Bosnia and Herzegovina welcomes Arctech for a 125-megawatt ...

Bosnia and Herzegovina, a Southeastern European country with favorable solar conditions, is preparing to host a major energy project. Arctech, a global specialist in solar tracking ...

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### Prospects of renewable energy potentials and development in Bosnia ...

From all Balkan countries, it was found that Bosnia and Herzegovina has one of the largest potentials for the implementation of solar power plants. It was estimated that energy ...

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LiFePO<sub>4</sub>

Wide temp: -20°C to 55°C

Easy to expand

Floor mount&wall mount

Intelligent BMS

Cycle Life:≥6000

Warranty :10 years



### Bosnia and Herzegovina

During the reporting period, Bosnia and Herzegovina subjected nearly 700 MW of solar power projects and over 350 MW of wind power projects to EIA procedures, indicating a significant ...

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### [Bosnia & Herzegovina Electricity Generation Mix 2024/2025](#)

The recurring downswing in low-carbon generation underscores the need for Bosnia & Herzegovina to pursue more stable and resilient clean energy solutions such as nuclear and ...



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### **Bosnia and Herzegovina plans major expansion in renewable ...**

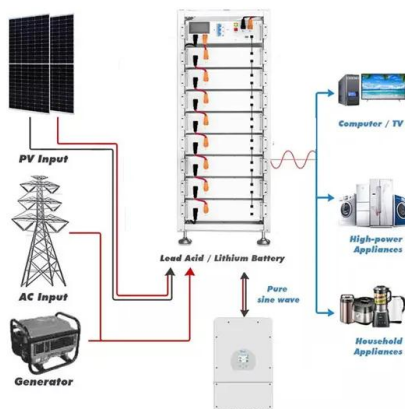
Over the next three to four years, Bosnia and Herzegovina is set to significantly boost its renewable energy capacity, with plans to install solar power plants totaling 1,500 MW ...

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## [Bosnia & Herzegovina Electricity Generation Mix 2024/2025](#)

Building nuclear infrastructure could be a large step towards sustainable electricity. Similarly, the adoption of solar energy, akin to countries like Greece and Lebanon, where solar power ...

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## PV SOLAR 2022\_BIH\_english\_final

The power of solar photovoltaic installations in BIH almost doubled in 2022! Bosnia and Herzegovina (BIH) follows the global trend of strong growth in the installed power of solar ...

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## Integration of Solar Photovoltaic Power Plants Into the Power

Governments in the region are actively trying to decentralize production in the energy sector by encouraging the construction of power plants using renewable energy resources. The Network ...

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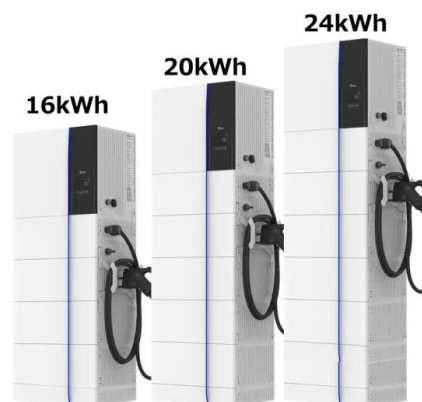


## [Bosnia & Herzegovina Electricity Generation Mix](#)

...

The recurring downswing in low-carbon generation underscores the need for Bosnia & Herzegovina to pursue more stable and resilient clean energy ...

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## [Bosnia and Herzegovina's Renewable Energy Policy...](#)

According to Bosnia and Herzegovina 2019 data, it has an electricity generation capacity of approximately 18,000 GW. It is ranked ninth in the world in terms ...

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## First utility-scale solar power plant in BiH starts test ...

The testing phase has started for the first large solar power plant in Bosnia and Herzegovina. The Petnjik facility in Grude has 45 MW in peak ...

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## [ENERGY PROFILE Bosnia and Herzegovina](#)

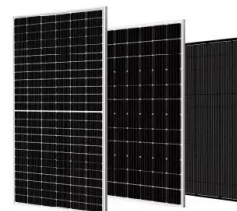
ators of renewable resource potential Solar PV:  
Solar resource potential has been divided into seven classes, each representing a range of annual PV out. ut per unit of capacity ...

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## Bosnia and Herzegovina

Since small-scale solar competes with end user electricity prices instead of wholesale electricity prices, solar PV is becoming an attractive investment for some groups of consumers in Bosnia ...

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## [Bosnia and Herzegovina Energy Situation](#)

Bosnia and Herzegovina has shown interest in increasing its use of renewable energy sources to diversify its energy mix and reduce dependence on conventional energy sources. The country ...

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### [Bosnia and Herzegovina: the business of photovoltaics](#)

Thanks to the opening of new, large-scale photovoltaic power plants in southern Herzegovina (Zvizdan-Ljubuski, Bileca and Hodovo-Stolac), solar energy production increased ...

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### [FRAMEWORK ENERGY STRATEGY OF BOSNIA AND](#)

The Framework Energy Strategy provides the context and direction of energy development for Bosnia and Herzegovina, striving towards a true balance in the context of "energy trilemma". ...

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### [Bosnia and Herzegovina: the business of photovoltaics](#)

Thanks to the opening of new, large-scale photovoltaic power plants in southern Herzegovina (Zvizdan-Ljubuski, Bileca and Hodovo-Stolac), solar energy production increased almost ...

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### [Bosnia and Herzegovina Electricity Statistics](#)

Electricity generation and consumption, imports and exports, nuclear, renewable and non-renewable (fossil fuels) energy, hydroelectric, geothermal, wind, solar energy, etc. in Bosnia ...

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## ENERGY PROFILE BOSNIA AND HERZEGOVINA

How is electricity used in Bosnia and Herzegovina?. Bosnia and Herzegovina has a great potential for this energy sector, primarily due to its geographical location and great wealth of ...

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### **Prospects of renewable energy potentials and development in ...**

From all Balkan countries, it was found that Bosnia and Herzegovina has one of the largest potentials for the implementation of solar power plants. It was estimated that energy ...

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## Photovoltaic plants in Bosnia and Herzegovina

This paper describes the current state of photovoltaic plants (PV) in Bosnia and Herzegovina (B& H). It describes the ongoing trends in this domain and the o

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