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Design of solar energy storage application system in Bosnia and Herzegovina

Overview

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 × 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.

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.

Is Bosnia and Herzegovina a good country for solar energy?

With around 60% of the land area, Bosnia and Herzegovina could have between 1.2 and 1.4 MWh/kWp of photovoltaic capacity compared to the world's solar potential. Compared to B&H and other Balkan countries, Serbia has a great potential for the implementation of solar energy.

Can bioenergy be used in Bosnia & Herzegovina?

Concerning bioenergy, the greatest potential lies in wood residues, since forests are one of the main natural resources of Bosnia and Herzegovina. There are currently two biogas power plants, but there is no available data about biofuel and other biowaste utilization.

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].

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Bosnia and Herzegovina storage battery Bosnia and Herzegovina is a self-sufficient, net exporter of electricity. However, its energy sector relies mostly on fossil fuels, in addition to hydro and a ...

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Energy production in Bosnia and Herzegovina is carried out using primary energy from solid fuels, wood biomass, hydropower, as well as other forms of RES (solar and wind energy).

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