

Is solar power possible in Belarus?

In terms of global horizontal irradiation (GHI) and direct normal irradiation (DNI), most of Belarus receives only 1 100 kilowatt hours per square metre (kWh/m²) to 1 400 kWh/m² of GHI, and around 1 000 kWh/m² of DNI. This means that concentrated solar power (CSP) generation is impractical, but production by means of solar PV is possible.

Does Belarus have a geothermal potential?

Belarus's geothermal potential is relatively undiscovered, with only a few regions having been tested. Of the tested regions, the most promising geothermal energy potential lies in the Pripyat Trough (Gomel region) and the Podlasie-Brest Depression (Brest region), in dozens of abandoned deep wells.

Does Belarus have a power system?

Belarus is involved in implementing numerous interstate and international treaties in energy, including participation in the Commonwealth of Independent States (CIS) agreement on the co-ordination of interstate relations in the power sector, and the treaty on the parallel operations of power systems of the CIS.

What is the energy sector in Belarus?

Belarus's energy sector is dominated by state-owned companies operating under supervision of the Ministry of Energy in electricity, gas and part of the heat sector, and under BelNefteKhim (Belarus State Concern for Oil and Chemistry) in the oil, refining and petrochemicals sector.

Are there hydropower resources in Belarus?

Hydropower resources in Belarus are deemed scarce, though there are opportunities for small hydro in the northern and central parts of the country. Total hydropower potential is estimated at 850 MW, including technically available potential of 520 MW and economically viable potential of 250 MW (0.44 Mtoe/year).

How much energy does Belarus use?

Total energy consumption (measured by total primary energy supply) in Belarus was 27.0 Mtoe in 2018, comparable with consumption in Norway and Hungary. The industry sector is the largest final energy consumer with a 36% share (7.3 Mtoe in 2018); it is also the greatest consumer of electricity and heat.

This paper discusses the resource, technical, and economic potential of using solar photovoltaic (PV) systems in Belarus and Tatarstan. The considered countries are characterized by poor actinometric conditions and relatively low tariffs for traditional energy resources.

Solar power potential is significant, mainly in the south and southeast of the country. In terms of global horizontal irradiation (GHI) and direct normal irradiation (DNI), most of Belarus receives ...

Public awareness of energy efficiency in Belarus is relatively high, as information is regularly shared through media campaigns, information sessions, publications, educational seminars and other avenues of information dissemination.

The main priority of Belarus energy policy is to increase energy efficiency and to develop local sources of energy: 80 % of the energy consumption is currently imported. Belarusian mobile ...

This article examines the improvement of energy security and the government's actions to promote the use of renewable energy sources, focusing on increasing energy efficiency and reducing energy...

MINSK, 21 December (BelTA) - The Belarusian civil engineering company Belzarubezhstroy will build Belarus' largest photovoltaic power plant with the output capacity of 109MW in Cherikov ...

The objective of the present comparative study is to assess the potential for using solar energy in Belarus and Tatarstan and to predict the moments when PV technology will become cost-effective in these regions. Such data are necessary for planning the development of power systems.

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Using the data on the cost of photovoltaic systems as presented by IRENA and considering actinometric data for Belarus and Tatarstan, a long-term forecast of PV electricity cost is made. The moments of the break-even points and payback periods ...

Concerning RES, Belarus has considerable potential across various sources. In terms of wind energy, there is an estimated total potential of up to 1,600 MW, and potential locations for wind ...

The considered countries are characterized by poor actinometric conditions and relatively low tariffs for traditional energy resources. At the same time, Belarus is experienced with solar ...

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