

Does Latvia have solar energy?

So far, however, the development of solar energy in the country has been rather limited. According to Latvia's grid-operator Sadales tīkls AS, which is a subsidiary of Latvenergo, there was just 1.3 MW of renewable energy power installed under net metering at the end of 2016.

How many solar panels are installed in Latvia?

As of June 2023, the number of solar panels installed by the Latvian population and connected to AS "Sadales tīkls" reached 15,000 units, and their total capacity exceeded 120 MW - about 15% of the total electricity consumption in Latvia on a sunny day. Solar panels have a lifespan of more than 25 years.

How long do solar panels last in Latvia?

Solar panels require almost no maintenance during their lifetime. In addition, rain cleans the surface of the panels well. The payback period for correctly adapting to the consumption of solar panels is 4-7 years. Why are more and more people in Latvia installing solar panels and inverters?

What is the main source of electricity in Latvia?

Hydropower is the main source for electricity production in Latvia. In 2022, it accounted for 54.7 percent of total electricity generation in the country. Gas turbines ranked second, at 27.8 percent. Get notified via email when this statistic is updated. Figures were rounded and therefore may not sum up to 100.

How much sunlight does Latvia receive a year?

In our climate, one square meter of surface receives an average of 1200 kWh per year from the sun. The duration of direct sunlight in Latvia exceeds 1800 hours. The new type of solar panels produces energy with the so-called scattered radiation, which exists around us for 4000 hours.

Does Latvia need a smart energy infrastructure?

Latvia already has the necessary energy infrastructure in place in order to successfully harness smart renewable energy on the coasts and in the forests of Kurzeme, as well as collaborate with its Nordic neighbours in electrical trade.

With about 50% of the country's border being the coast of the Baltic sea, and over half of the land covered with forest, the country's natural resources lend themselves well to develop clean energy solutions. Solar power currently accounts for 0.2% of contributions to the energy grid, though the potential can be measured in gigawatts.

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Modern solar panels are cheaper, better, and more productive than first-generation ones. For example, the warranty period of the European RECOM Black Full Puma Shingled 405 W panels, which are included in our SIA Tesla kits, is 25 years.

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Even in Latvia, where sunshine is not as prevalent, solar panels are a sound investment, able to pay for themselves in savings over a few years. However, the Baltic States are far behind the EU average in terms of use of solar panels, and Latvia's contribution to total installed capacity in the region is only 2%.

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