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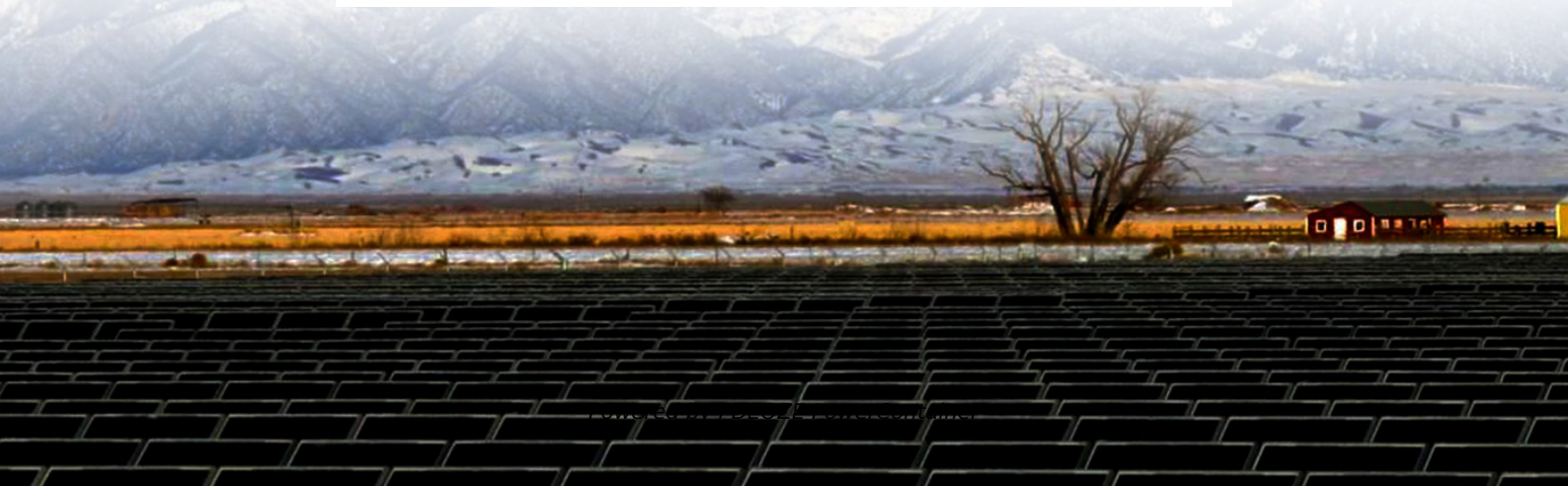
Are the wind power conditions for Lithuania s communication base stations good



Overview

How can Lithuania boost low-carbon electricity generation?

To boost low-carbon electricity generation, Lithuania should focus on expanding its wind and solar capacities, given their already significant roles in the country's energy landscape. Learning from regions like Denmark and Iowa, which have harnessed wind power effectively, could provide valuable insights for Lithuania.

How many wind power plants are there in Lithuania?

According to the LVEA, around 40 wind power and hybrid projects are currently under development in Lithuania, which would bring the capacity of wind power plants to 2.6 GW. The development of renewable energy sources is a strategic objective for the country. The aim is to generate more than 90% of electricity from renewable energy sources by 2030.

Does Lithuania have a low-carbon electricity profile?

Moving forward, sustained investment in clean energy, including reviving nuclear, will be essential for maintaining and enhancing Lithuania's low-carbon electricity profile. We estimate the degree of electrification by comparing electricity and total energy emissions. More about methodology.

How much electricity will Lithuania generate in 2022?

In total, Lithuania will generate 4.25 TWh of electricity in 2022 – almost 60% (2.545 TWh) of the total from renewable energy sources (hydropower, wind, solar, ambient heat, biomass and biofuels).

How much electricity does Lithuania use?

Despite these efforts, Lithuania's latest electricity consumption is still far from its historic peak. In 2025, the per capita electricity consumption stood at 3,882 kWh, a stark contrast to the record high of 7,933 kWh per person noted in 1991. The change represents a reduction of more than 4,000 kWh per person.

What is Lithuania's electricity mix?

For the years 1990 to 2019 the data source is IEA . For the years 2020 to 2024 the data source is Ember . For the year 2024/2025 the data source is aggregated data from the last 12 months (2024-09 to 2025-08) . For the months 2024-09 to 2025-08 the data source is ENTSOE . Lithuania's electricity mix includes 33% Wind, 15% Solar and 14% Hydropower.

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We investigate the use of wind-turbine-mounted base stations (WTBSs) as a cost-effective solution for regions with high wind energy potential, since it could replace or even ...

Results show that Lithuania has sufficient renewable energy potential, flexible generation capacity, and interconnection with neighboring European Union countries to reliably meet ...

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Wind measurements show that eastern and south-ern parts of Lithuania stand out with the worst wind conditions - wind speed does not exceed the 5 m/s threshold at 100 m height, and power ...

Almost 100 hydropower plants are operating in Lithuania, as well as wind and solar power plants are expanding rapidly. The western part of the Lithuanian border is located along ...

Last year, electricity from wind farms accounted for 13.5% of Lithuania's final electricity consumption or 2% more than in 2021. According to the Ministry of Energy, the installed ...

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