

Are offshore wind farms a viable solution in Estonia?

Onshore and offshore wind farms and solar panel complexes are fast and affordable solutions in Estonian conditions. By 2050, for example, we must increase the capacity of offshore wind farms by twenty times. Wind energy is reliable, affordable and clean energy.

How much wind power does Estonia have?

Total installed wind power was 149 MW at end of 2010 and grew to 303 MW in 2014 and 329 MW in 2016. Record production of wind parks is 279 MW in 2014. Estonia has target of 14% (1.5 TWh) and total renewable electricity 1.9 TWh (17.6%). According to the national Energy Action Plan (2020) planned shares are onshore 9% and offshore 5%.

How many offshore projects are planned in Estonia?

Three major offshore projects are planned in Estonia, with a total capacity of 1490 MW: a 700 MW project near the island of Hiiumaa by Nelja Energia, a 600 MW project in Gulf of Riga by Eesti Energia, and a 190 MW farm near the western coast of Estonia by Neugrund OÜ.

What is offshore wind energy?

Offshore wind energy is an environmentally and human-friendly way to produce green, affordable energy and to increase energy independence. ELWIND environmental impact assessment program for the ELWIND Estonia area has been submitted to the TTJA.

ELWIND is a joint offshore wind project between two Baltic neighbours Estonia and Latvia. With this cross-border project, the states are aiming to raise cooperation in energy field into new heights by taking an important step towards increasing energy and climate neutrality and energy security in the region.

Altogether 38 wind turbines will be erected in the Sopi-Tootsi wind farm and the total capacity of the park will be 255 megawatts. The production of wind turbines is nearly 680 gigawatt-hours per year, which covers nearly 40 percent of Estonian domestic consumers' electricity needs and 8.5 percent of total electricity consumption.

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With 38 turbines Sopi-Tootsi is set to be the most powerful wind farm in the Baltic region. "The farm will provide green electricity to almost a tenth of Estonia's electricity consumers," Ulm says.

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Enefit Green owns 27 wind parks in Estonia, Lithuania, and Finland with the total of 209 wind turbines. The total capacity of all wind park is 609 megawatts, which yearly produce more than 1 terawatt-hours of electricity.

Four wind turbines E-101 with 3 MW capacity have been constructed in Mõrjale. The turbines are manufactured by the German company Enercon GmbH and belong to Tamba-Mõrjale wind power plant. The turbines are connected through a common 33 kV switchyard with Lõpe 110/33 kV substation of a wind power plant.

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As of 2023, Estonia has a wind power installed capacity of about 376 MW. [2] All operational wind farms in the country are on land. Offshore wind farms are planned on Lake Peipus and in the Baltic Sea near the island of Hiiumaa .

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Nine Vestas V150 type wind turbines, which are currently the most modern and efficient wind turbines installed in Estonia, are expected to produce 135 GWh of electricity per year. This covers the annual electricity consumption of more than 40 thousand households. The capacity of one wind turbine is 4.3 MW.

Wind energy ensures the security of supply and environmentally friendly electricity at an affordable price. Utilitas is Latvia's largest wind energy producer and develops renewable electricity solutions in Estonia, Latvia, and Lithuania

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