

# How much wind power is available at Turkey's mobile energy storage sites



## Overview

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Offshore wind: As of 2024, Turkey has no operational offshore wind capacity, despite previous discussions on developing the sector. The BESS-windfarm plant helps to increase the stability of the Turkish power grid and, thanks to the integration of renewable energies, to reduce CO2 emissions. When the wind is strong and the turbines in the wind farm generate more electricity than the grid can absorb, the surplus energy is stored. The 132 MWh battery energy storage project will be collocated with an operating wind farm. Istanbul-based renewables developer Polat Energy has signed Turkey's largest battery energy storage system supply agreement with Rolls-Royce, a German power solutions company owned by British multinational. Aiming to lower balancing costs, Polat Enerji said it would integrate an energy storage system into its wind park Soma, the largest in Turkey. It will be the first grid-scale battery facility in the country. Installed capacities are distributed as 27% hydroelectric, 21% natural gas, 19% solar, 18% coal, 11% wind, 1. Battery systems and pumped hydro storage work together. They help balance energy supply and demand.

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### Turkey's largest wind power plant to add battery storage

Polat Enerji, owner of the Soma wind power plant, the largest in Turkey, decided to add a small energy storage system to lower balancing costs. According to the contract that it signed with ...

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### Turkey , HHWE

Offshore wind: As of 2024, Turkey has no operational offshore wind capacity, despite previous discussions on developing the sector. While the Aegean and Marmara Seas have been identified as ...



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### Türkiye to invest \$10B in energy storage to boost wind and solar energy

The Energy Market Regulatory Authority (EMRA) approved a 35-gigawatt-hour (GWh) capacity allocation for grid-scale storage projects, with an estimated investment of \$10 billion.

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## Developing Or Investing In Wind,

## Solar, And Energy Storage

Within the framework of this plan, wind and solar energy are expected to account for more than 90% of the installed capacity of non-hydro renewable energy sources.

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### Rolls-Royce wins large-scale mtu battery storage order for wind farm ...

When the wind is strong and the turbines in the wind farm generate more electricity than the grid can absorb, the surplus energy is stored in the mtu battery systems. This prevents grid ...

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### Polat Energy, Rolls Royce join hands on Turkey's largest battery energy

Once commissioned, the facility will be Turkey's largest battery energy storage system. Polat Energy is an established renewables developer in Turkey, owning approximately 6% of the ...

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### Opportunities for Energy Storage in Turkey's Renewable Energy ...

Big buildings, warehouses, and hospitals use energy storage for backup power and to lower peak use. Data centers and



5G towers also use it to keep running all the time.

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## Türkiye

The growth in Türkiye's renewable energy capacity continued this year as well, supporting the country's increasing clean energy and decreasing imports goals. In 2024, 99 percent of Türkiye's 8.7 GW ...



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## Energy storage in Turkey: 80GW Capacity Planned by 2030

Local energy storage projects still need to be approved by the Turkish government to go ahead, and according to PwC, the licensed capacity for energy storage construction in Turkey is 160 ...

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