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Turkey solar energy storage



Overview

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Türkiye is making significant strides toward its 2053 net-zero carbon emissions goal by ramping up investments in energy storage systems according to Türkiye daily. The Energy Market Regulatory Authority (EMRA) approved a 35-gigawatt-hour (GWh) capacity allocation for grid-scale storage projects.

Turkey is in step with the global shift towards renewable energy, shaping its future energy plans around sustainability. Recognising the significance of storing energy from sustainable sources, the Regulation on Storage Activities in the Electricity Market (RSAEM), effective since 9 May 2021.

Turkey's solar power capacity has doubled to over 18 gigawatts (GW) in two-and-a-half years, beating its 2025 target by 18 months, with self-consumption installations accounting for nearly 90 percent of new capacity since 2022, according to a report by the London-based energy think tank Ember.

The national regulator in Turkey has begun awarding pre-licensing for energy storage facilities paired with wind and solar, with around 20GW expected to be issued over a period of about three years. Pre-licenses were issued for a total of 12 applications, totaling 744MW, by the Energy Market.

According to Embassy of the Republic of Turkey, Turkey has introduced a number of incentives and regulations to achieve its goal of 80 gigawatt-hours (GWh) of energy storage by 2030, while agreements for the energy sector to set up cell and battery factories have exceeded \$1 billion (TL 35 billion).

Energy storage is very important for Turkey's renewable energy plans. Turkey wants to reach big goals for solar and wind power. The country aims for 77 GW solar and 29.6 GW wind by 2035. More renewable energy means Turkey needs better energy storage. Energy storage helps keep the grid stable and.

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