Solar panels on a roof TÃ¼rkiye

A close-up of photovoltaic solar panels from a drone on the roof of a country house in Fethiye, Turkey. (Erik Miheyehu, Shutterstock) The rise of distributed renewable energy (DRE) technologies, like solar panels on rooftops and small solar farms, is creating new opportunities that weren"t possible ten years ago.

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This study considers potential for expanding solar rooftop capacity in Türkiye, alongside potential benefits and routes towards policy implementation. Analysis of high resolution satellite images is used to assess what solar panels can be installed on rooftops, outside the 11 provinces of Türkiye declared as disaster areas.

The report assessed the generation potential of optimal-angle roof types for each roof in 70 provinces and found an annual rooftop solar power generation potential of 148 terawatt-hours (TWh).

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Ember"s analysis used high-resolution satellite images to assess the capacity and the type of solar panels that can be installed on rooftops outside the 11 provinces of Türkiye declared disaster areas following the Feb. 6 earthquake in the country.

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Istanbul, 11 December - New analysis from think tank Ember finds that Türkiye has a potential rooftop solar capacity of over 120 GW, or ten times the country"s current solar capacity. The capacity potential is more than the total solar rooftop capacity added worldwide in 2022 (118 GW).

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