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Greece s solar power generation per watt



Overview

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In 2022, solar power accounted for 12.6% of total electricity generation in Greece, up from 0.3% in 2010 and less than 0.1% in 2000. [3] The national government's 2023 National Energy & Climate Plan anticipates solar PV capacity rising from 4.8 GW in 2022 to 14.1 GW in 2030, and 34.5 GW in 2050.

As of the 12-month period starting in September 2024 and ending in August 2025, Greece's electricity generation presents an almost even split between low-carbon and fossil sources. More than half of the electricity, specifically 52%, is generated from clean sources. Amongst these, solar power.

In the last five years, the share of renewables in the country's electricity mix grew by more than 15 percentage points, reaching over 50 percent in 2023. From 2018 to 2022, solar capacity in the Mediterranean country grew from 2.6 to 5.3 gigawatts, whereas wind installations increased from 2.8 to.

Greece saw a record increase in its solar power capacity last year, helping establish the country among the Top 10 European Union members tapping the sun to meet their energy needs. According to a new report by industry association Solar Power Europe, Greece's total installed capacity last year.

The top three countries with over 1 kW of solar power per capita are Australia (1,521 Watts per capita), the Netherlands (1,491 Watts per capita), and Germany (1,187 Watts per capita). Greece is grouped with Estonia and Austria, each having 964 Watts per capita. These figures come from the latest.

November 2023, Greece submitted its NECP with more ambitious and updated targets for renewables and solar: 23.5 GW for all forms of renewables, from which 13.4 GW came from solar power capacity. However, there is no roadmap or strategy at this time in regards to rooftop solar PV in particular.

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