

Photovoltaic power generation and energy storage prices in Greece

How much photovoltaic capacity does Greece have?

As of December 2013, the total installed photovoltaic capacity in Greece reached 2,419.2 MWp of which 987.2 MWp were installed in the period between January-September 2013 despite the financial crisis. Greece ranks 5th worldwide with regard to per capita installed PV capacity.

Can a PV power plant operate profitably in Greece?

The renewable energy produced each year from the PV power plant varied between 33.35 MW h in Ioannina and 41.63 MW h in Tymbakion while the average value for the 46 locations is 37.61 MW h. The results of the financial analysis demonstrate that a PV power plant can operate profitably at any of the considered sites in Greece.

How much solar power does Greece have in 2022?

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. 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.

How much does a photovoltaic project cost?

The level for photovoltaics was determined at EUR 54 per MWh, compared to EUR 62 per MWh for wind power projects. The maximum prices are the same as in last year's auction for domestic projects. As for the auctions to take place in 2023, the prices were set at EUR 70 per MWh for PV and at EUR 83 per MWh for wind farms.

How long does it take to build a geothermal project in Greece?

For projects combining renewables and storage, the available time is 36 months for wind and 30 for PV. The Greek government also proclaimed last week an international tender for the development of four geothermal fields in Eastern Macedonia and Thrace.

Commodity prices are important drivers of wholesale prices and capacity buildout. In the short and mid-term, fossil fuel prices indicate the upper threshold for electricity prices, as price setting ...

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