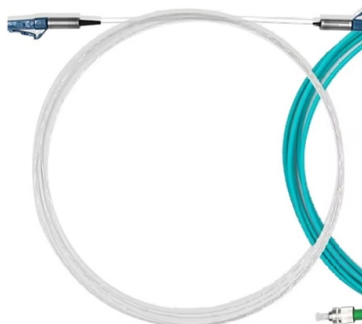


Greece Energy and Electricity Internet



Overview

Greece Electricity is often the most 'visible' form of energy that we rely on day-to-day; it keeps our lights, TVs, computers and internet running. Home |.

Key Takeaways

Greece has a diverse electricity mix with nearly half from fossil fuels and a growing share from renewables, making it a net electricity exporter in Europe. Electricity Generation and Energy Mix

As of 2025, Greece's electricity generation relies heavily on fossil fuels, with natural gas alone accounting for about 44% of the total electricity mix. Coal and oil contribute additional fossil-based generation, while low-carbon sources—including wind, solar, hydropower, and biofuels—make up roughly 50% of electricity production. Wind energy contributes about 20%, solar around 17%, and hydropower a smaller share, reflecting Greece's ongoing transition toward cleaner energy . Greece has made significant progress in renewable energy adoption, with 45% of electricity now coming from renewables, and approximately 20% of electricity produced being exported, mainly to Italy and neighboring Balkan countries . Despite abundant green energy, domestic demand constraints and limited cross-border interconnections have led to curtailment of some renewable generation .

Electricity Consumption Trends



Per capita electricity consumption in Greece has been declining, standing at 5,127 kWh per person in 2025, down from peak levels in 2008. This reduction reflects energy efficiency measures and structural changes in the economy . Electricity is primarily used for heating, cooling, lighting, cooking, and powering devices, including internet and digital infrastructure .

Electricity Prices and Market Position

Greece has improved its electricity market significantly. In 2026, it ranks as the fourth largest electricity exporter in Europe and maintains retail electricity prices close to the EU average. Household electricity costs are around 29.26 euros per 100 kWh, comparable to the EU average of 29.06 euros per 100 kWh, making Greece one of the 10 cheapest EU countries for electricity . Wholesale prices are influenced by marginal pricing, where the last unit of electricity—often from gas plants—sets the market price, keeping consumer bills higher despite cheap renewable production .

Renewable Energy and Storage

The Greek government and industry are investing in battery storage, with a projected 900 MW of storage capacity operational by early 2027, to better utilize surplus solar and wind power and reduce curtailment . This will enhance grid stability, allow more efficient use of renewable energy, and potentially lower electricity costs for consumers.

Internet and Digital Infrastructure

Electricity supports Greece's digital infrastructure, including internet connectivity, data centers, and smart grid technologies. While specific internet metrics were not detailed in the sources, electricity reliability and renewable integration are critical for maintaining digital services and supporting emerging technologies like AI and IoT applications .

Summary

Greece is transitioning toward a low-carbon electricity system while remaining a net exporter in Europe. Its electricity mix is nearly balanced between fossil fuels and renewables, with declining per capita consumption and competitive prices. Investments in storage and grid infrastructure are key to maximizing renewable energy use and supporting both domestic consumption and digital infrastructure needs .

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