

Italy solar energy

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Our trend report reveals Italy's solar and renewable energy preferences, including bifacial modules, string inverters, tracker structures, and AC BESSs.

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A survey conducted by RatedPower revealed that only 16.7% of respondents rated Italy as their top pick for countries with potential growth in renewables in 2024. This placed the nation 9th overall, significantly lower than other European countries like Germany and Spain, with 25% and 22.6% respectively.

This raises questions about why Italy is perceived as lagging behind its European counterparts. Possible reasons include infrastructure challenges and policy limitations that are slowing the rate of investment into renewables and solar energy in Italy.

RatedPower's platform data also revealed that Italy's solar simulations had a low average rated power of 29.96 megawatts (MW) and, of the 20 countries listed, only France had a lower average (14.90 MW). This could suggest that Italy is not yet operating on an industrial scale comparable with other European countries, and this might explain why survey respondents didn't rank the country's 2024 renewables potential highly.

Despite this, Italy does have ambitious clean energy goals. By 2050, the country aims for carbon neutrality and is actively taking steps towards its 2030 emissions reduction targets. This includes a plan to have renewables account for 30% of total energy consumption and 55% of electricity generation by the end of this decade.

How is Italy planning on becoming a leader in clean energy production and a significant player in the European energy market? Learn all about it with our State of Green Italy eBook.

To support these goals, the European Commission recently approved a EUR5.7 billion scheme to develop renewable energy communities up to 1 MW. This scheme consists of a 20-year tariff on electricity consumed by self-consumers and renewable energy communities, financed through a surcharge on all consumers's electricity bills, and an investment grant covering up to 40% of total project costs.

A big part of this journey involves transforming fossil fuels into more practical forms for use. Today, natural gas plays a significant role in Italy's power supply, accounting for 39% of its total as of 2022.



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Meanwhile, renewable resources are slowly gaining ground within Italy's energy sector. As of 2022, renewables make up approximately one-third (31.4%) of power generation in Italy. Solar, wind, and hydroelectricity collectively contributed to 35.2% of all electricity generated in 2022 in Italy, marking an 87% growth since 2000.

Italy's National Recovery and Resilience Plan, backed by the European Union, includes an EUR11.2 billion investment aimed at enhancing and developing renewable energy technologies, circular economy practices, and water waste management.

RatedPower's 2023 survey was designed to provide deep insights into the renewable energy sector by tapping into the knowledge of industry experts. This comprehensive questionnaire addressed a range of topics, from legislation and incentives to trends, innovations, and challenges.

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