

What are the opportunities for solar energy deployment in Albania?

Opportunities for the deployment of solar energy are extensive. Albania's solar insolation is very high throughout most of its territory at more than 1 500 kWh/m<sup>2</sup> annually, with peaks of 1 753 kWh/m<sup>2</sup> annually, particularly in the western part of the country.

Are solar and wind resources a viable option in Albania?

For solar and wind resources in Albania, economic potential analysis and zoning are lacking. This hinders policy development in setting achievable targets, the appropriate sizing of solar and wind auctions, and least-cost power system planning.

How many solar thermal installations are there in Albania?

Estimated solar thermal installations in Albania amounted to 176 000 square metres (m<sup>2</sup>) of solar water heating capacity, which is equivalent to 123 MW of nominal thermal capacity, by the end of 2015 (UNDP, 2017), the most recent official documentation of the installed capacities.

What is Albania's energy mix?

Hydropower accounts for the largest share of the country's electricity generation, representing around 95% of the Albania's installed power capacity. This means Albania's energy mix has one of the highest shares of renewable energy in South East Europe; however, it is also highly dependent on annual rainfall.

What is the potential for solar PV development in Albania?

IRENA's CESEC study proposes in its REmap scenario a solar PV installed capacity of 1 074 MW by 2030, with annual generation potential of 1 697 GWh. Figure 8b shows suitable areas for solar PV development and highlights zones of highest potential for development in Albania.

Should Albania's energy mix include more renewables?

While Albania's energy mix already features one of the highest shares of renewables in the region owing to its extensive installed hydropower capacity, the essential need remains for a more secure, cost-competitive national energy supply. Diversifying the electricity mix to include more renewables would strengthen Albania's energy security.

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On-grid solar solutions for residential, commercial, and utility scale projects. Residential and commercial hybrid solar solutions including battery storage solutions. Solar irrigation solutions; Special applications for solar panels such as solar carports, BIPV etc.

With 45% of the total primary energy supply (TPES), Albania has one of the largest shares of renewable energy in its energy mix in South-East Europe. The renewable energy share in Albania is predominantly hydropower of which accounts for 95% of all generating capacity, with the remaining divided between solar (1%) and crude oil (4%). The ...

This paper aims to investigate and evaluate how Albania's energy system has included renewable energy sources, particularly photovoltaic (PV) systems. The article aims to evaluate the current situation, difficulties, and prospects surrounding the integration of PV systems while considering Albania's climate and grid infrastructure.

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The Project "Market transformation for solar energy PV acceleration" supports Albania's sustainable development by expediting the implementation of the NDC action plan to achieve the enhanced target.

With an innovative spirit and an entrepreneurial mindset, "EU Green Energy" aims to harness the abundant renewable resources of Albania delivering affordable, reliable, and sustainable energy to the Albanian economy and improving life of our communities.

Renewables developer CWP Europe and GE Vernova's Onshore Wind business have joined forces to undertake a substantial wind and solar hybrid project in Albania, valued at over EUR 1 billion (USD 1.05 billion).

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The JV term sheet agreement aims to develop, construct, and operate renewable energy projects utilising a range of renewable technologies, including solar PV, wind, and hybrid solutions, with potential integration of battery storage. The energy produced is expected to be supplied to the Albanian market and exported to neighboring countries.

On-grid solar solutions for residential, commercial, and utility scale projects. Residential and commercial



## Albania modular energy solutions

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