

NKOSITHANDILEB SOLAR

Solar power generation in Macedonia



Overview

Can North Macedonia develop solar energy?

The potential for solar energy development in North Macedonia is vast. With estimates suggesting that the country could harness up to 11 GW of solar PV capacity, there is significant room for growth.

How renewable is North Macedonia?

According to the International Renewable Energy Agency (IRENA), North Macedonia increased the production of energy from renewable sources to 827 MW last year, which is up by an annual 10.1% and is in line with the global average of 10.3% growth.

How much solar power does Macedonia have in 2022?

By the end of 2022, the country had reached a photovoltaic capacity of approximately 144 MW, with projections indicating rapid growth in the coming years. In 2023 alone, North Macedonia saw an impressive increase in solar capacity, with new installations contributing to a total increase of 251% compared to the previous year.

Is Macedonia a leader in the Western Balkans' energy transition?

RateWWW.WBENERGYWEEK.COMOV E RV I E WNorth Macedonia has accelerated its shift towards renewable energy in recent years, emerging as a regional leader in the Western Balkans' energy transition¹. By 2023, renewables accounted for 50% of the country's installed power capacity and abo

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Use of renewable energy in North Macedonia, particularly solar power, is paving the way for a sustainable future as it generated 8,062 MWh in April 2025, which was a 21.7% ...

The geographic advantages of North Macedonia, including an average of 280 sunny days per year and daily solar radiation levels ranging from 3.4 ...

By focusing on nuclear and solar energy development while also exploring wind, North Macedonia can significantly boost its low ...

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity ...

North Macedonia offers strong growth potential for renewable energy. Favourable geography and climate support both solar and wind generation, while government initiatives ...

The platform seeks to combine government, international finance and private investment to reach 1.7GW of renewable energy generation by the end of the decade as well as grid and energy ...

According to regulator data, in North Macedonia, an average of almost one megawatt from renewable sources has been added every day for the last four years.

North Macedonia has seen consistent growth in installed solar power capacity, reflecting rising interest and investment in renewable ...

The geographic advantages of North Macedonia, including an average of 280 sunny days per year and daily solar radiation levels ranging from 3.4 KWh/m² in the north to 4.2 KWh/m² in the ...

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North Macedonia's renewable energy sector saw a remarkable 20.8% surge in April 2025, led by significant gains in hydropower and solar. Discover the latest energy trends.

North Macedonia offers strong growth potential for renewable energy. Favourable geography and climate support both solar and wind ...

This report provides a comprehensive update on North Macedonia's renewable energy sector for foreign developers and investors. It covers the current landscape across ...

By focusing on nuclear and solar energy development while also exploring wind, North Macedonia can significantly boost its low-carbon electricity generation, supporting a ...

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