



# Algeria solar energy is renewable

How much solar power does Algeria have?

By the end of 2023, Algeria had 437 MW of solar generation capacity, according to the national Commission for Renewable Energies and Energy Efficiency (CEREFE). The country has an average of 3,000 hours of sunshine per year and global horizontal irradiation of almost 1,700 kWh/m<sup>2</sup>/year in the north and 2,263 kWh/m<sup>2</sup>/year in the south.

What is Algeria's most abundant renewable resource?

Its most abundant renewable resource is solar, followed by wind, hydro, and biomass. With some of the world's highest solar irradiance levels, solar generation in Algeria's desert regions can reach 1,850 to 2,100 kilowatts per hour.

How much rain does Algeria receive a year?

The country receives about 65 billion cubic meters of rain annually. Today, hydro is Algeria's most-exploited renewable energy resource. Renewable Energy Expansion Algeria's current renewable capacity of 686 MW is the result of the country's first national renewable energy strategy launched in 2011.

How much energy will Algeria produce by 2035?

Algeria aims to reach 15,000 megawatts (MW) of electricity generation capacity based on renewable resources by 2035, with a growth rate of 1000 MW/year. Furthermore, around 1000 MW of off-grid renewable energy installations are expected to be put on stream by 2030. A new law on energy transition is being prepared.

Is Algeria ready for solar energy?

Houari Mahi is the head of engineering of Sonelgaz Energies Renouvelables, he explains to Euronews Algeria's potential regarding solar energy. "Algeria has 3,000 hours of sunshine per year, and in the case of Laghouat, it is estimated at 1,800 hours per year. This is enough to push us to invest in the construction of photovoltaic structures.

How much electricity does Algeria generate a year?

Algeria currently generates a relatively small amount of its electricity (e.g., three percent or 686 MW annually), from renewable sources, including solar (448 MW), hydro (228 MW), and wind (10 MW).

The renewable energy division of Algeria's state gas and power firm, Sonelgaz, is in charge of the country's most recent effort to build a sizable solar PV project, with plans to deploy 2 GW of capacity at locations in the ...

In terms of future renewable energy development, the country's most abundant renewable resources are solar, wind, hydro, and biomass. Regarding solar power potential, Algeria is home to some of the world's highest solar irradiance levels, with the capacity to generate 1,850 to 2,100 kilowatts per hour and up to 3,500 hours



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Thanks to its extensive landmass with geographic features conducive to renewable energy generation, Algeria possesses significant renewable energy resources. Its most abundant renewable resource is solar, followed by wind, hydro, and biomass.

Algeria has enormous renewable energy potential, mainly solar, which the government is trying to harness by launching an ambitious Renewable Energy and Energy Efficiency Program. The Program consists of generating 22,000 MW of power from renewable sources between 2011 and 2030

Despite the recent increase in renewable energy capacity and generation, ambitious targets, and investment plans, Algeria's energy mix has remained predominantly fossil based. In 2021,...

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Algeria is full of renewable energy promise. Host to significant hydrocarbon resources, the country also wants to play a role in the energy transition in Africa, mainly thanks to its...

Algeria's national renewable energy program is aimed to install 22 GW of renewable energy capacity in Algeria by 2030, of which 12 GW will be intended to meet the domestic electricity demand and, under certain conditions, 10 GW destined for export.

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Sonelgaz is deploying this 3,000 MW of solar capacity as part of the Renewable Energy Development Programme launched by the Algerian Ministry of Energy, with the aim of deploying 22,000 MW of capacity by 2030 "for the national market, while maintaining the export option as a strategic objective, market conditions permitting". Above all ...

To reach its renewable targets, the Ministry of Energy Transition and Renewable Energy will launch in the second half of 2021, a call for investors for its first megaproject of 1000 MW of solar photovoltaic power plants. The project is divided into lots of 50 to 200 MW each.

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