

Armenia has wind and solar hybrid communication base stations



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Overview

Does Armenia have solar energy?

Armenia has significant solar energy potential: average annual solar energy flow per square metre of horizontal surface is 1 720 kWh (the European average is 1 000 kWh), and one-quarter of the country's territory is endowed with solar energy resources of 1 850 kWh/m² per year. Solar thermal energy is therefore developing rapidly in Armenia.

How much wind power does Armenia have?

A 2003 study by the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) estimated Armenia's land areas with "good-to-excellent" wind resource potential to be around 1,000 km². With a conservative assumption of 5 MW per km², the authors noted that the area could support almost 5,000 MW of potential installed capacity.

What percentage of Armenia's Energy is renewable?

Renewable energy resources, including hydro, represented 7.1% of Armenia's energy mix in 2020. Almost one-third of the country's electricity generation (30% in 2021) came from renewable sources. Forming the foundation of Armenia's renewable energy system as of 6 January 2022 were 189 small, private HPPs (under 30 MW), mostly constructed since 2007.

What is Armenia's long-term energy strategy?

In its long-term strategy (up to 2040) for the energy sector, adopted in January 2021, the Armenian government identified the maximum utilization of renewable energy potential as a priority.

Is geothermal energy viable in Armenia?

The geothermal energy potential of Armenia is significant, but is not considered economically viable, at least for now. The World Bank has estimated the total potential at around 150 MW. The Karkar site in Syunik, for



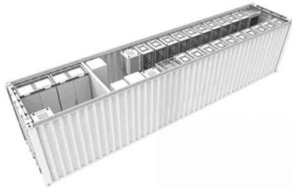
instance, has an estimated capacity of 28 MW with a construction cost of nearly \$100 million, far pricier than solar.

How big is Armenia's solar power?

In 2017, Tamara Babayan, a sustainable energy expert, estimated the potential of Armenia's distributed solar power at 1,280 MW and almost 1,800 GWh in annual generation.



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According to the Armenian Wind Atlas developed in 2002-2003 by the US National Renewable Energy Laboratory in collaboration with SolarEn of ...

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Abstract The availability of electric energy source in nature such as wind and solar power have not been explored and used significantly as electric power sources for human need of energy. ...

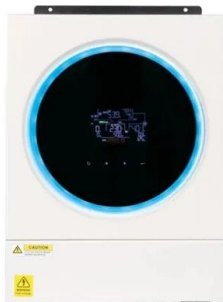
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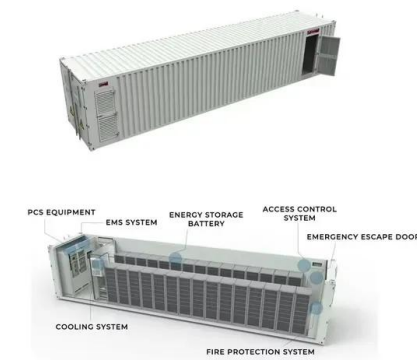
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Armenia's progress in renewables came from two sources: small hydro and solar. However, wind power and other types of renewable energy are still not economically feasible ...

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The future for wind power in Armenia, therefore, is in large studies [1] have identified a number of such prospective sites in Armenia DESODEC is the first solar driven combined system in ...

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