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Azerbaijan wind power hydraulic system





Overview

With the increasing installed capacity of wind power, higher requirements are put forward for the quality of wind power, but the randomness and intermittency of wind power seriously affect its quality and the sta.

What is the average wind speed in Azerbaijan?

The Azerbaijan Scientific-Research and Design Institute of Power Engineering, in co-operation with the Japanese company Tomen, determined that Absheron's average annual windspeed is 7.9 to 8.1 metres per second (m/sec). The country's overall average windspeed of 6 m/sec further confirms its economic and technical potential for wind power.

What is Azerbaijan's potential for small hydropower?

Although hydropower is Azerbaijan's largest source of renewable energy today, its potential has not been fully exploited. According to the Ministry of Energy, the country's technical potential for small hydro is 520 MW, which could generate up to 3.2 TWh annually.

How windy is Azerbaijan?

Azerbaijan is relatively windy, especially along the Caspian Sea coast. According to the Ministry of Energy, the country has roughly 3 000 MW of technical and 800 MW of economic wind power potential. This economic potential could generate around 2.4 TWh and conserve approximately 1 Mt of conventional fuel, avoiding the corresponding CO₂ emissions.

How can Azerbaijan improve energy security?

Diversifying and improving the energy capacity of the country to ensure energy security. Azerbaijan has significant untapped renewable energy potential, as it is a relatively sunny and windy country, and it also has sizeable hydro, biomass and geothermal resources.



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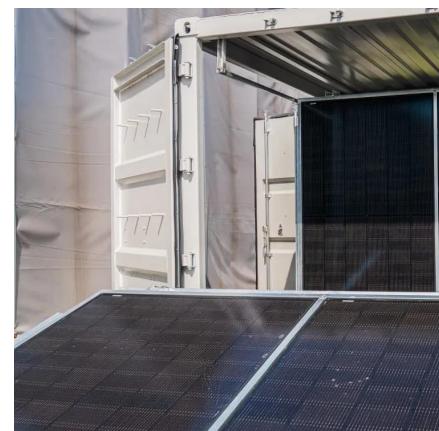


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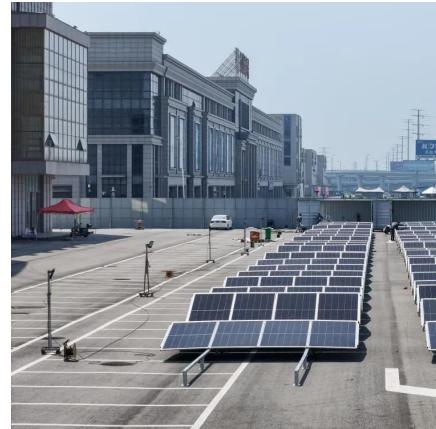
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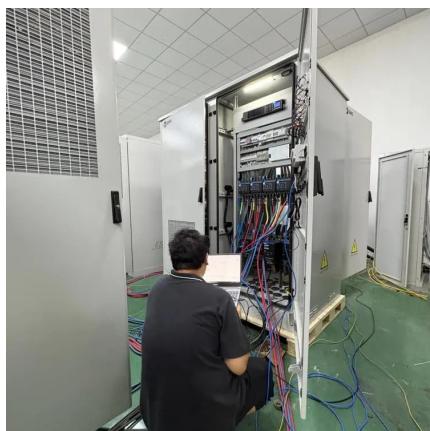
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