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Brunei wind and solar power generation system





Overview

What is the potential for offshore wind generation in Brunei Darussalam?

The area for offshore wind generation in Brunei Darussalam would be $483 \times 10^4 \text{ m}^2$ based on the coastline of 161 km and the theoretical possible potential is 372 MW per annum. 2.3. Ocean energy.

Why is Brunei focusing on developing downstream energy industries?

The country is focusing on developing downstream energy industries by maximising economic spin-off potential from upstream production and assets. Brunei Darussalam aims to reduce its energy intensity by 45% in 2035 from the baseline year of 2005, in line with its regional commitment to the Asia-Pacific Economic Cooperation.

What is the potential of wave energy in Brunei Darussalam?

It has been noted that potential of wave energy in the months of April–November is less compared with the other months of a year. The length of the coastline of Brunei Darussalam is approximately 269 km that indicates that ocean waves could produce 15–126 GW. The annual theoretical potential of the wave energy is $66 \times 10^10 \text{ W}$. 2.3.3. Tidal energy.

Is surface wind power a viable option in Brunei Darussalam?

The data have been compiled and analysed using the Wind Energy Resource Analysis (WERA) software and the results obtained revealed that the mean surface wind speed over a period of 5 years was 2.1 ms^{-1} indicating that wind power using surface wind in Brunei Darussalam is not a viable option.



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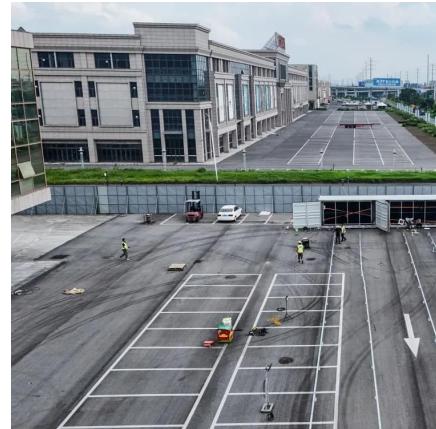


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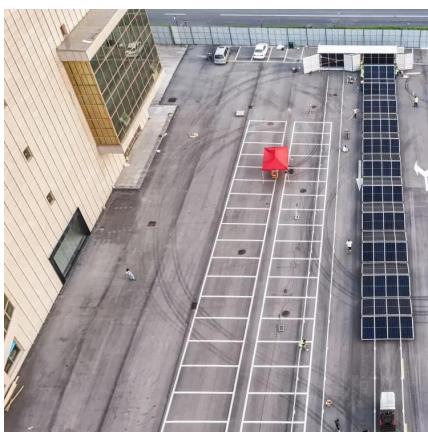


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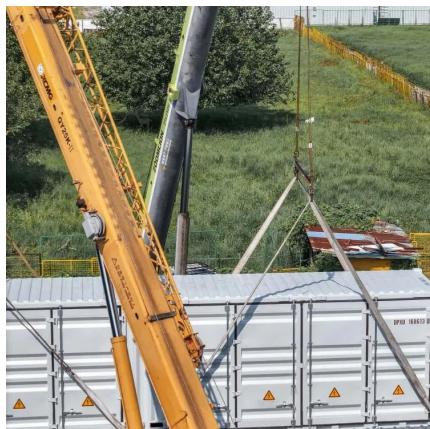
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