

A-Core Container

Malaysia communication base station wind power 7MWh



Overview

Where in Malaysia can wind energy be harnessed?

Research indicates that only specific regions in Malaysia can harness wind energy effectively, with the most promising areas located in the northeast, northwest, southeast of Peninsular Malaysia, and the southern region.

Does Malaysia need wind energy?

As a result, the country's renewable energy programs primarily focus on solar and hydropower. However, wind energy can be useful in select regions with higher than average wind energy capacity. Wind energy in Malaysia stands against the backdrop of Asia's surge toward renewable energy.

Why does Malaysia have a limited capacity for wind energy?

Malaysia has limited capacity for wind energy due to geographic and climate factors. As a result, the country's renewable energy programs primarily focus on solar and hydropower. However, wind energy can be useful in select regions with higher than average wind energy capacity.

How much land is needed for windmills in Malaysia?

Malaysia's demand in electricity by 2020 is expected to reach 124,677 GWh, so if wind power is to meet, say, 10% of this projected electricity use, the total land area of Malaysia needed for windmills is: $(124,677 \times 1000 \times 1000 \times 1000 \times 0.1) / (1.8 \times 365) = 18,977$ square kilometer.

What is the outlook for wind energy in Malaysia?

While the overall outlook of wind energy in Malaysia is poor, there is room for growth. The country aims to increase its share of renewable energy capacity to 31% of its total generation mix by 2025 and 40% by 2035. This is a significant increase from its current 8% and will require investment and research in all renewables.

How much does wind energy cost in Malaysia?

Currently, it cost about RM1 for every 1 W of electricity generated from wind energy in Malaysia. Thus, to meet 10% of Malaysia's electricity demand in 2020 would cost approximately RM1.4 billion to setup the required number of windmills. These figures so far show it is plausible to harness the wind energy for electricity generation in Malaysia.

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