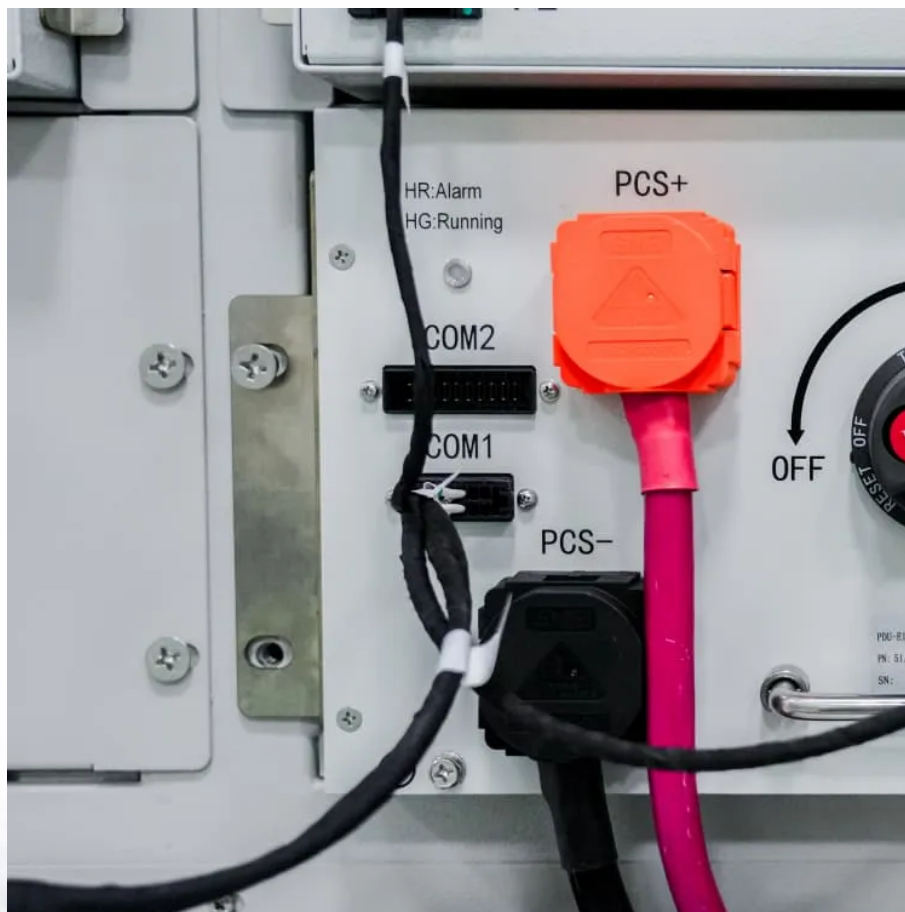


How much does it cost to maintain a wind power station in Phnom Penh





Overview

How much does it cost to maintain a wind turbine?

The cost of wind turbine blade maintenance is up to AUD \$5, 000 per tower. With 400, 000 onshore wind turbines globally, regular maintenance adds up quickly. An average wind turbine will pay for itself in a few years, and after this period, the initial investment will be recouped. How much does it cost to maintain a wind turbine per year?

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How much does offshore wind turbine maintenance cost?

Offshore turbine maintenance is costly and logistically complex, requiring specialized vessels and careful coordination. That's why, according to the U.S. Department of Energy, offshore wind O&M costs were 22.15 cents per kWh, while land-based turbines came in at just 8.66 cents per kWh.

How much does a wind turbine cost?

O&M costs are generally estimated to be around 1. 2 to 1. 5 eurocents (c€) per kWh of wind power produced over the total lifetime of a turbine. A typical wind turbine costs \$40/kw per year to run and maintain, equivalent to 1-2c/kWh of opex, depending on the load factor. The cost of wind turbine blade maintenance is up to AUD \$5, 000 per tower.

How much is the wind turbine maintenance market worth?

Hence across 825GW of global wind capacity (at the end of 2021), the wind turbine maintenance market would be worth >\$20bn per year. This maintenance 'after-market' is typically controlled by wind turbine manufacturers. Larger operators can lower costs by self-managing, albeit this comes at the risk of lower uptime.



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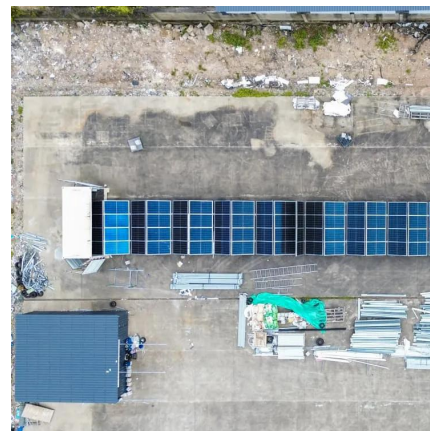


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