

**EQACC SOLAR**

# **Price of outdoor wind power base stations in Japan**



## Overview

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How much does a wind turbine cost in Japan?

Price of wind turbines contracted in the second half of 2020. When compared to average installation costs for onshore wind power globally during the same period (BNEF 2021), which are 149,000 yen/kW, Japan's installation costs are fairly high (Figure 12).

How much wind power will Japan have in 2021?

Installed onshore wind capacity in Japan is approximately 5 GW at the end of 2021, and in the long-term energy supply-and-demand forecasts, it is projected to increase to around 16 GW by 2030 (in the "enhanced policy responses" scenario). Even so, onshore wind power would still only account for 3% of electricity generation as forecast for 2030.

Can onshore wind power costs be reduced?

This study analyzed technology trends and costs for onshore wind power in Japan over the six years from 2016 to 2021. Below is a summary of the findings gained from this study which offers insights into the potential of reducing onshore wind power costs. Steady increase in wind turbine size was observed in Japan.

How much wind energy does Japan have?

Japan's geography has an estimated capacity of around 550 gigawatts of offshore wind capacity. However, wind energy still only contributes to around one percent of the energy generation in the country and the progress is sluggish.

## Price of outdoor wind power base stations in Japan



### [2024] Cumulative installed capacity of Wind Power in Japan

To Make Japan Clean To Make Tomorrow Beautiful Power from the Wind[2024]  
Cumulative installed capacity of Wind Power in Japan: 5,840.4MW (2,720 units)  
\*Figures may ...

### Cost and Technology Trends for Onshore Wind Power in ...

Cost and Technology Trends for Onshore Wind Power in Japan May 2022  
Acknowledgements In compiling this report, several power plant operators provided us with technology and cost data ...



Lower cost  
larger system

Verified Supplier

20Kwh  
30Kwh



### Wind energy in Japan

Maximum output of wind power stations Japan 2025, by prefecture Maximum capacity of wind power plants in Japan as of February 2025, by prefecture (in 1,000 kilowatt)

### Onshore wind electricity FIT price

## per kilowatt hour Japan

For fiscal year 2027, the FIT purchase price for onshore wind electricity (under \*\* kilowatt) was set at \*\*\*\* Japanese yen per kilowatt hour.



## Japan Wind Energy Market

Top Companies in Japan Wind Energy Market  
Market Dominated by Diversified Energy Conglomerates  
Innovation and Localization Drive Market Success  
The Japanese wind energy market features a mix of established global players and domestic powerhouses, including MHI Vestas Japan, Siemens Gamesa Renewable Energy, Japan Renewable Energy, Marubeni Corporation, Sumitomo Corporation, and Eurus Energy Holdings. These companies are driving innovation through adv...  
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## Japan Onshore Wind Turbine Market (2025-2031) , Industry, ...

Japan Onshore Wind Turbine Market  
Government Policy In Japan, government policies related to the onshore wind turbine market aim to increase renewable energy production and reduce ...

## Japan Wind Energy Market

Japan Wind Energy Market Size & Share Analysis - Growth Trends & Forecasts (2025 - 2030) The Report Covers Japan Wind Energy Farms and Developments and is ...



## Japan Wind Power Market Size, Share and Forecast to 2033

Japan wind power market size reached USD 5.73 Billion in 2024, Expected to Hit USD 9.69 Billion, CAGR of 5.40% during 2025-2033.

## Japan Onshore Wind Turbine Market (2025-2031) , Industry, ...

Japan Onshore Wind Turbine Market Government Policy In Japan, government policies related to the onshore wind turbine market aim to increase renewable energy production and reduce ...



## Japan Wind Energy Market , 2019 - 2030 , Ken Research

Japan Wind Energy Market valued at USD 21 billion, targeting 10 GW by 2030 and 45 GW by 2040, driven by renewable



demand, government incentives, and offshore advancements.

## Japan Wind Power Market Analysis by Size, Installed Capacity, Power

The Japan Wind Power market report highlights installed capacity and power generation trends from 2010 to 2035 in the country's wind power market. Detailed coverage of ...



## Cost and Technology Trends for Onshore Wind Power in Japan

This study analyzes the cost structure of onshore wind power in Japan and discusses the potential for reducing the generation cost of onshore wind power, while ...



## [2024] Cumulative installed capacity of Wind ...

To Make Japan Clean To Make Tomorrow Beautiful Power from the Wind[2024]  
Cumulative installed capacity of Wind Power in ...



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