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RENEWABLE ENERGY INSTITUTE

Unlocking the Offshore Wind Potential in Japan

Opportunities and Challenges from the Industrial Perspective

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Japan’s Offshore Wind at a Crossroads

Challenges and Pathways Forward

Mika Ohbayashi

Director,

Renewable Energy Institute

Japan’s offshore wind development is now at a critical turning point. Projects within port areas have demonstrated early successes, while projects formed through government tenders over the past five years are facing significant challenges from rising costs and currency fluctuations.

As the industry is still in its infancy, strengthening the business environment is essential, with more flexible auctions, better risk-sharing, long-term grid development, and models for coexistence with local communities.

This panel will discuss which issues should be prioritized in the short and medium term, and how to envision the longer-term outlook to build a sustainable business environment for offshore wind in Japan.

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Masaru Akiyoshi

President,
Japan Wind Power Association (JWPA)

Representative Director & Executive Vice President,
Eurus Energy Holdings Corporation

What are required to reform and attract auction rules for offshore wind projects in Japan ?

1. Review of offshore auctions rules until round 3
2. Proposed measures to improve project's viability
   a. Extension of lease (exclusive occupancy of sea areas) period for more than 30 years
   b. Providing financial incentives for CPPA off-takers under FIP Scheme
3. How to mitigate project risks (COD Delay Penalty, Secure Grid, Windfarm Certification, etc.)

JWPA's Wind Vision in 2023

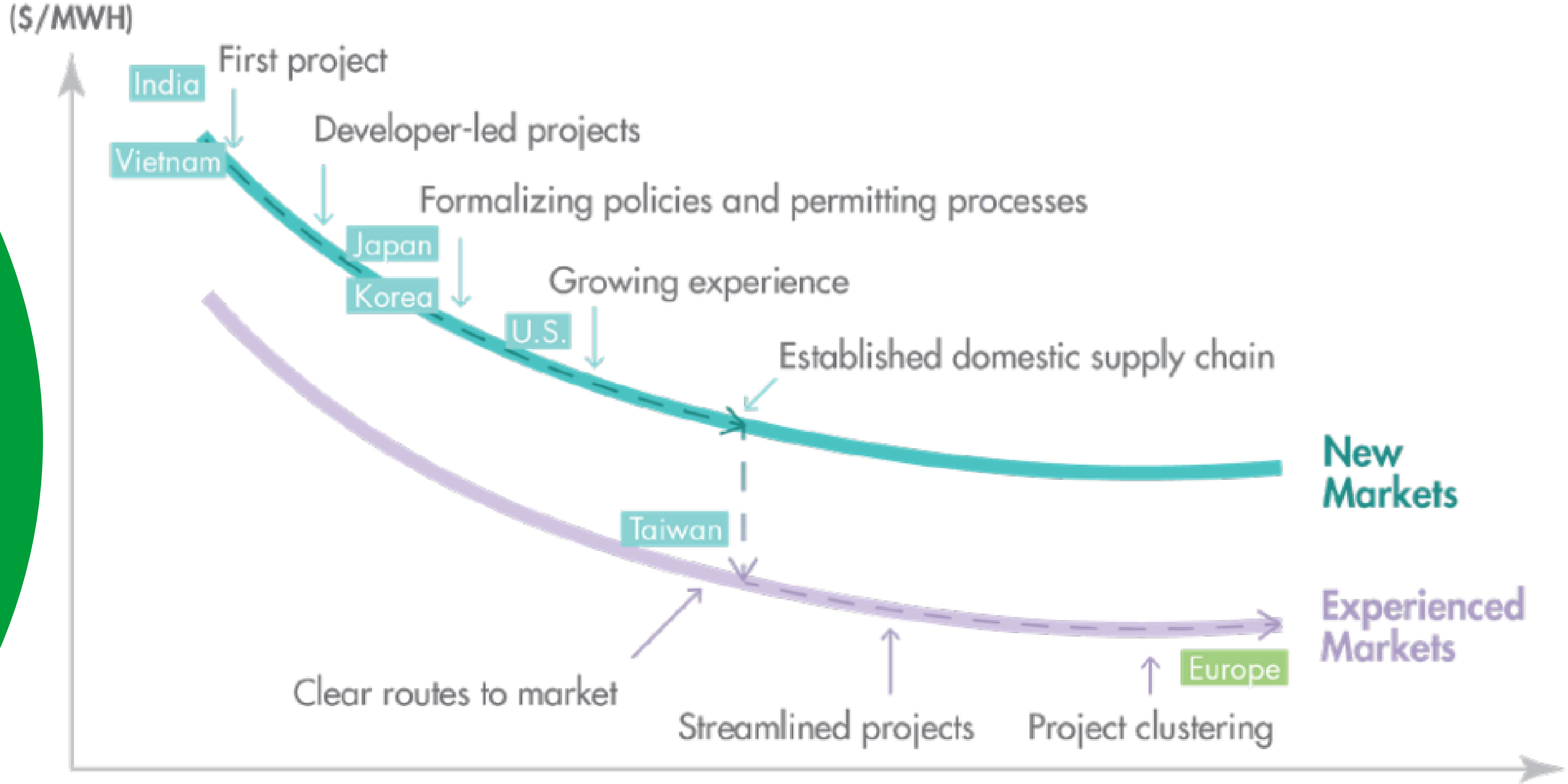
We aim to achieve the following targets by 2050 in Japan.

1. To supply 1/3 of electricity by wind power generation
2. To install 140GW of wind projects (onshore 40GW, fixed offshore 40GW, floating offshore 60GW)

Takeshi Matsuki

Japan Country Manager,
Global Wind Energy Council
(GWEC)

LCOE Reduction
Across Project Development Phases



Quoted from "Financing Offshore Wind in APAC" (June 2025, GWEC)

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OCEAN WINDS

Pelayo Rodríguez

Head of Business Development APAC, Japan Representative
Ocean Winds

Ocean Winds (OW) is an international company dedicated to offshore wind energy and created as a 50-50 joint venture, owned by EDP Renewables and ENGIE.

Based on our belief that **offshore wind energy** is an essential part of the global energy transition, we develop, finance, build and operate offshore wind farm project all around the world.

Our portfolio is made up of both bottom-fixed projects (~ two-thirds) and floating offshore wind project (~one-third).

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TODA CORPORATION

Takashi Harada

General Manager
for Ocean Renewable Energy
Promotion Div.,
GX Administration Div.,
Toda Corporation

TODA Corporation is a Japanese semi-major general construction company, possessing groups specialising in building construction, civil engineering works, and strategic businesses.

Toda commenced development of floating offshore wind in 2007. In 2013, as a demonstration project by the Ministry of the Environment, it installed a 2MW floating wind turbine with its Hybrid Spar floater off the Goto Islands (Japan's westernmost point). In 2021, Toda Corporation was jointly selected with five other companies for the first offshore wind project under the Offshore RE Utilization Act. Installation of eight 2.1MW turbines has been completed, and Japan's first 16.8MW floating offshore wind farm is scheduled to commence commercial operation in early 2026.

The next challenge is scaling up to the art-of-the-date15-20MW class turbines.

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