

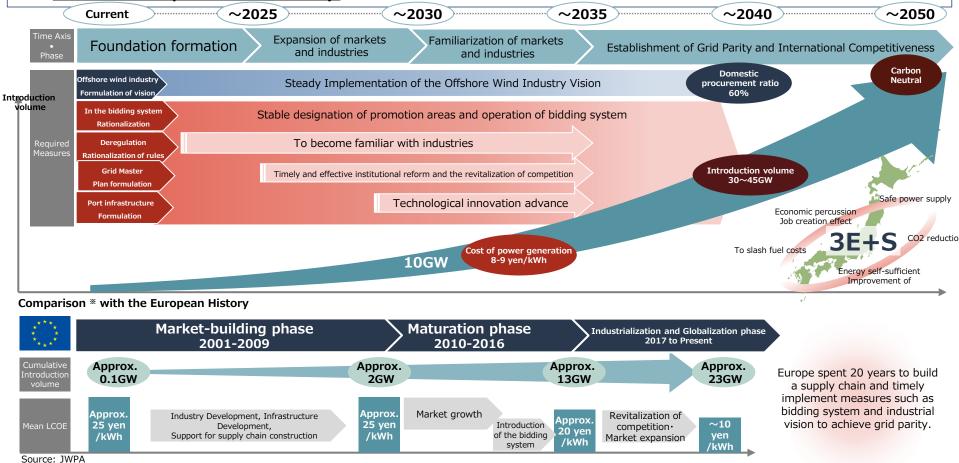
# The current status of Offshore Wind policy in Japan





# Path toward the transition to offshore wind power as a main power source

- It is extremely important to implement necessary measures in an appropriate order and in a timely manner in order to achieve both cost reduction and domestic industry development, and to achieve the introduction targets.
- It aims to form the foundation of the industry in the next 10 years, foster domestic industries with international competitiveness early after 2030, and realize three targets (introduction amount, LCOE, and domestic procurement ratio).





# Current Status and Challenges of the "Offshore Wind Industry Vision (1st)

# Current status and issues

- Offshore wind power generation ① mass introduction, ② cost reduction, ③ economic Ripple effect is expected, and a key to the main power source of renewable energy is presented.
- Re-entry of potential suppliers into offshore markets in forming domestic supply chains
- Russia's invasion of Ukraine accelerated its introduction, particularly in Europe
  Targets for implementation in 2030: EU150GW, UK 50GW
  Shift from a buyer's market to a seller's market

# <u>Creation of an attractive</u> domestic market

#### **■** Government Introductory Goals

•10 GW by 2030 30 - 45 GW by 2040

#### **①Accelerate the introduction**

- •Creation of attractive and stable offshore markets
- •Presentation of Project Pipeline to Enhance Market Predictivity
- •Early introduction of Central auction system

### **2** Systematic development of infrastructure

- •Early Realization of Interregional HVDC DC Power Transmission line
- •Planned reinforcement of Base Ports based on Project Pipeline

# Fostering domestic offshore industries

#### ■ Industry goals

- •60% domestic procurement ratio by 2040
- •Reduction of LCOE ¥8 to 9/kWh by 2030-2035.

## 1) Formation and enhancement of domestic supply chain

- •Development of competitive industrial infrastructure by 2030
- (Increase the number of domestic industries and their matureness and productivity)
- ·Support for new capital investment
- ②Introduction of Advanced European Technologies and Know-how and Implementation of Business collaboration
- **3** Development of offshore wind related Human resources

#### Floating offshore wind Strategic development

- Development of GW-class commercial wind firm by 2030
- ①The leader of Asian market (Revitalization of Shipbuilding industry)
- **2**Stable legal framework for the utilization of EEZ



# Round 2 Auction Evaluation Criteria (1)

Price part: Upper limit ¥19/kwh ZPL ¥3/kwh

- Non-Price Part: Minimum required conditions:
  - 1) No dumping :Reasonable construction cost
  - 2) Realistic/Feasible Funding plan
  - 3) Realistic forecast on Power generation, Curtailment and Imbalance compensation
  - 4) All cumulative losses for entire plant life should be wiped out with electricity sales income.
  - 5) Reasonable funding plan for Demolition



# **Round 2 Auction Evaluation Criteria (2)**

### **Areas of concern**

- 1) Electricity market for FIP is not yet developed
- 2) Business plan is considered in PPA, not bid price
- 3) No evaluation criteria on;
  - PPA
  - Curtailment : Impossible prediction
  - Imbalance cost: Ditto
  - Fundraising: Difficult to materialize Project Finance
- 4) All immeasurable risks borne by Contractor No subsidy, many risks



Require Improvement in order to make Transparent/Sustainable Auction system

