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Japan's offshore wind policy

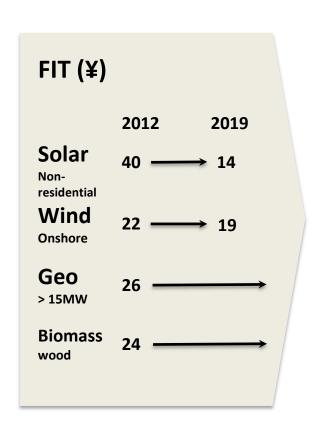
Oct.1, 2019

Takuya Yamazaki

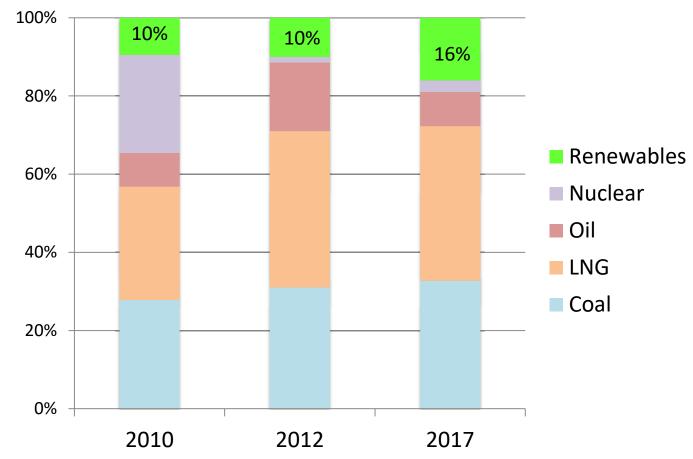
Principal Director,
Energy Efficiency and Renewable Energy Department,
Agency for Natural Resources and Energy (ANRE)

Big Policy Changes After 3.11: FIT to Renewables

FIT was introduced in 2012 and power generated by renewables has rapidly increased.

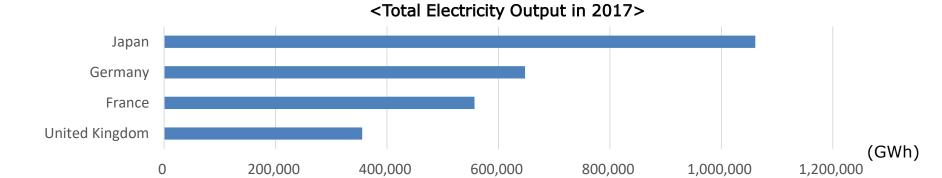


Power generation ratio (%)



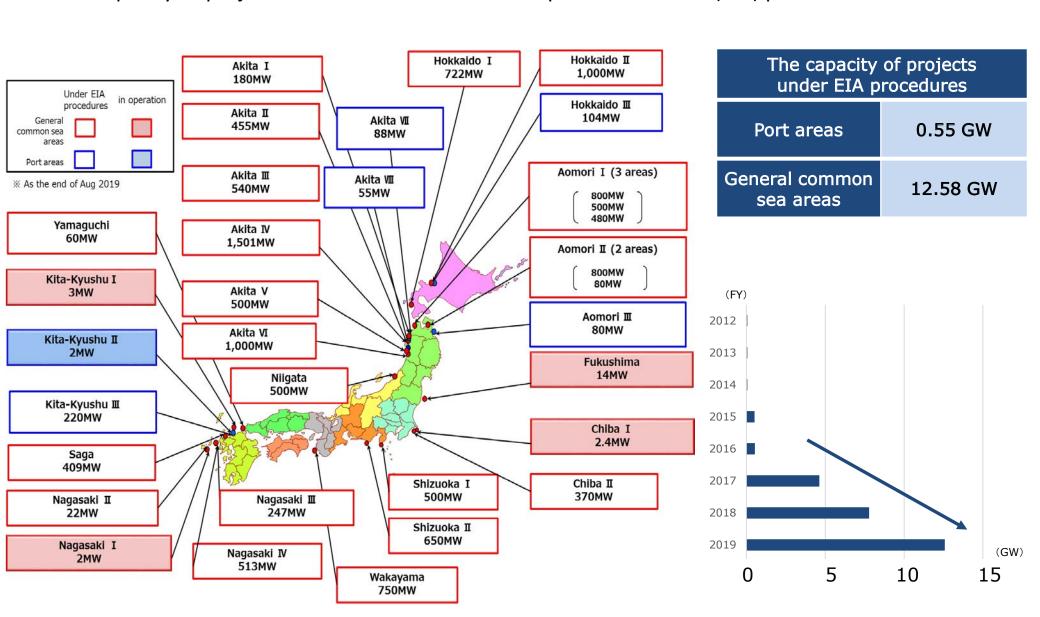
RES integration in progress

	Before FIT (June 2012)	After FIT [A] (as of March 2019)	<u>Target [B]</u> (FY2030)	Progress [A]/[B]
Geothermal	0.5GW	0.6GW	1.4 - 1.6GW	37%
Biomass	2.3GW	4.0GW	6.0 - 7.3GW	60%
Wind	2.6GW	3.7GW	10GW	37%
Solar PV	5.6GW	50.2GW	64GW	78%
Hydro (middle or small)	9.6GW	9.7GW	10.9 – 11.7GW	86%



Planning Offshore Wind projects in Japan

The capacity of projects under the environment impact assessment (EIA) procedures is 13GW.



Offshore Wind Promotion Act (OWPA)

Challenges

Ocean use right

Consultation with fishermen

High Cost

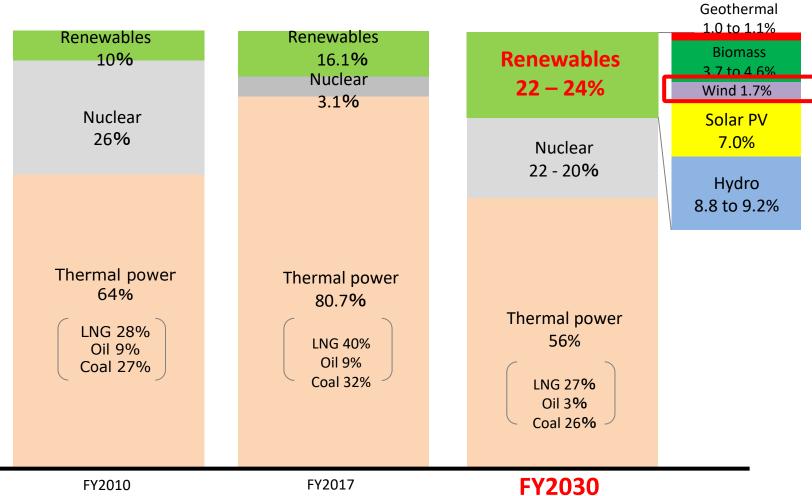
Measures by new Act in Apr. 2019

- ✓ Designate promotional zones
- ✓ Select developers by auction
- √ Grant 30 years' ocean use right

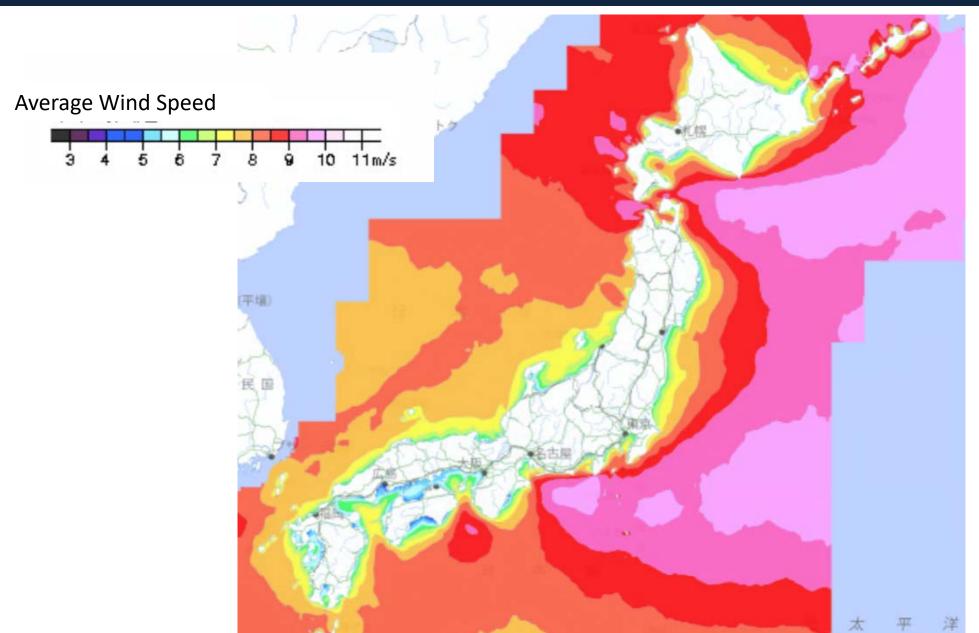
✓ Establish a consultation body led by the Government

✓ Introduce cost-competitive mechanism

- Designating the promotional zones by the government on year-by- year basis with sustainable development point of view.
 - Approximately 1GW is the target capacity by a year.
 - Approximately 350MW is the target capacity for one zone.
 - The first round of the designation process already started from Apr. 2019, ending until the end of 2019 in the earliest.
 - 10GW target for wind in 2030 is not the limit.
- Auctions starting after designating the promotional zones as soon as possible, closing through the auction process for approximately 12 months.
 - Evaluating developers by both of price and project realization capability with technologically neutral point of view.



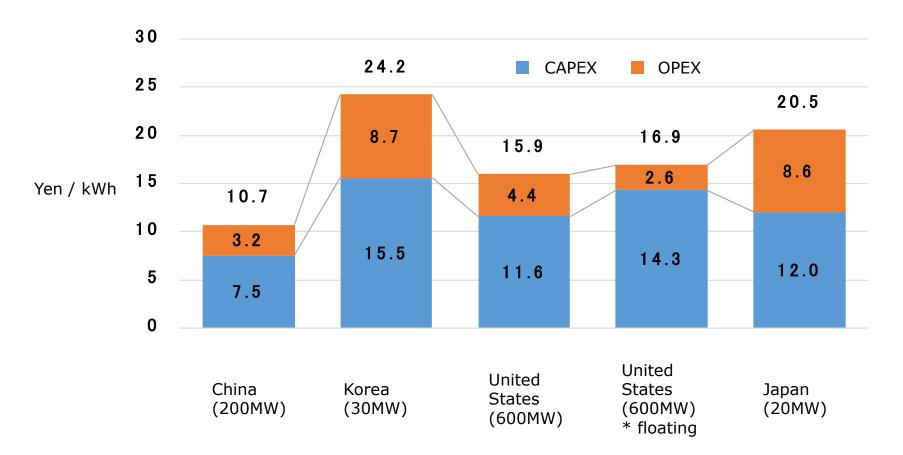
1,065 TWh (Power demand + T&D losses, etc.)



Simulated by New Energy and Industrial Technology Development Organization (NEDO) in Japan.

The Costs of offshore wind in Japan

• In Japan, the costs of offshore wind power is around 20 yen per kWh, and the tariff of FIT system is 36 yen per kWh.



The specific procedural flow based on OWPA is as follows.

Iransportation

Designation of promotional zone Selection of a business operator through public offering

Minister of Land, Infrastructure Designation of Trade and Preparation of the Minister of Economy, Transportation the Industry government **Promotional Basic Policies** and the Zone

and Industry and the Minister of by the Minister of occupancy through _and, Infrastructure Economy, public offering Trade

Submission of Action offering by occupancy through public business operators plans

business operator and certification Selection of the most Infrastructure and Transportation of the action Economy, and the Minister of Land **plan** by the Minister Trade and appropriate Industry

Infrastructure based **Permission** Certification of by the on the period of Minister of Land, certified Transportation, action plan by the Frade and certified years)

Industry, Minister of

based on the

Economy,

Trade

action plan

Investigation of the conditions of zone by the Minister of Economy, Trade and Industry and the Minister of Land, Infrastructure and

Consultation with the heads of relevant administrative organs such as the Minister of Agriculture, Forestry and Fisheries or the Minister of the Environment

Hearing opinions of a specially organized council in which prior users, etc. are members

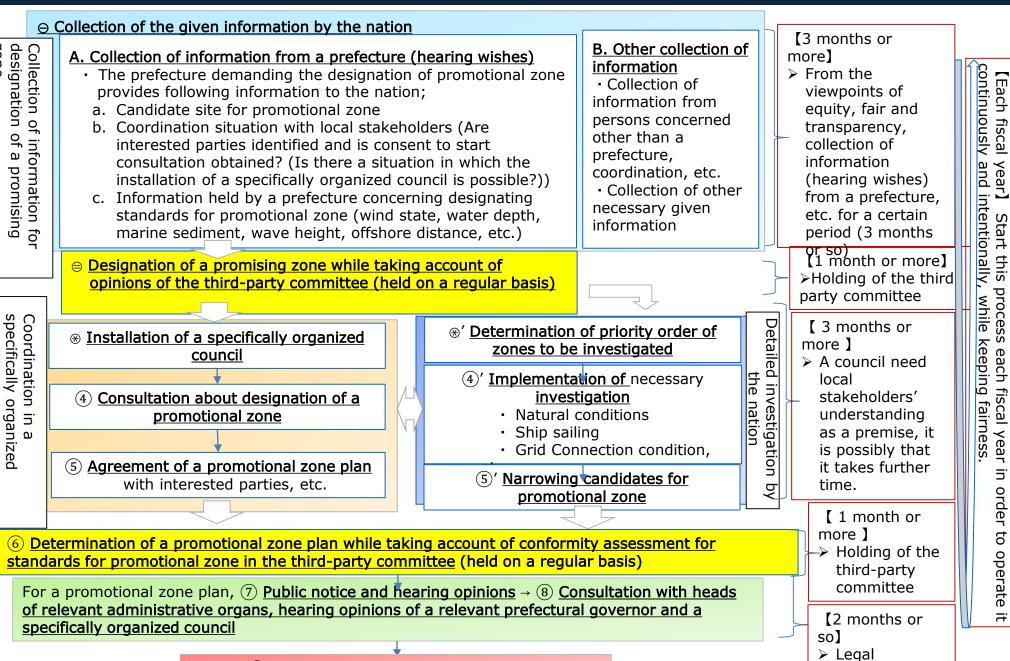
Public notice of matters about designation of zone (it is possible for interested parties to submit opinions)

Fransportation of the power generation business plan by the Minister of Economy, Trade and Industry under Article 9 of the Act on Special Measures Concerning Procurement of Electricity from Renewable Energy Sources by Electricity Utilities

procedures

Outline of designating process for promotional zone

zone



Determination of a promotional zone

