

# The Current Situation of the Energy Market in Japan



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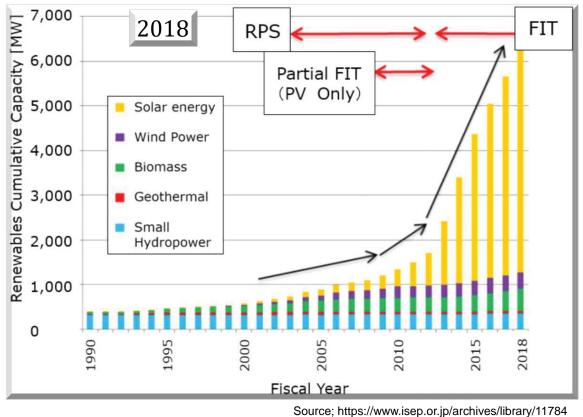


### Outline

- Brief Introduction to the Renewable Energy Market in Japan
- Fukushima New Energy Society Initiative
  - Promoting Installation of Wind Energy
  - Developing the Model for a Hydrogen Society
  - Creating Smart communities
- Invitation to the Fukushima Booth

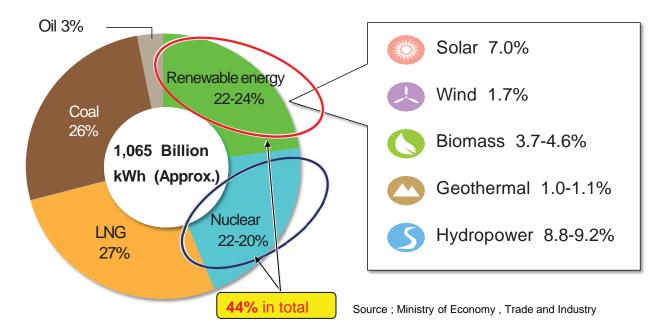


- > Rapid expansion of renewable energy since the introduction of the FIT Scheme in 2012.
- > The wind power introduction is still delayed although the solar power occupies over 90%.





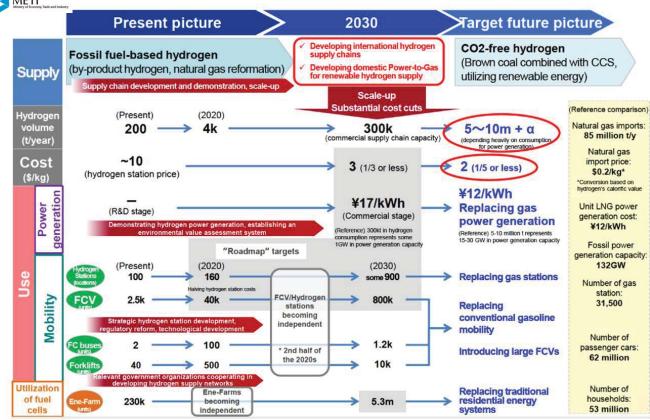
- In 2015 the Japanese government set a target for the year 2030, that aims to have 44% nonfossil rerated energy(renewable energy + nuclear).
- As restart of the shutdown nuclear power plants is difficult, it is expected that the ratio of renewable energy will be expanded in the near future.





### **Basic Hydrogen Strategy by the Government**







### **Major Changes Expected in the Market**

#### Japan's Renewable Energy Strategy

#### Progress in wind power introduction

- Over 10GW Onshore wind projects
  are underway
- The new maritime law accelerates offshore wind in Japan

#### FIT to end in March 2021

 Cost reduction progress of renewable energy

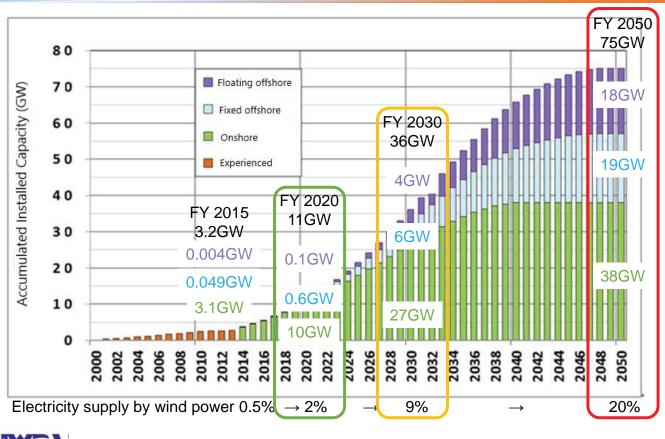
#### **Electricity Power network reform**

New electricity market is born from April 2021

European companies with abundant experience in renewable energy have great business opportunities!



#### **Target for Wind Energy Introduction**



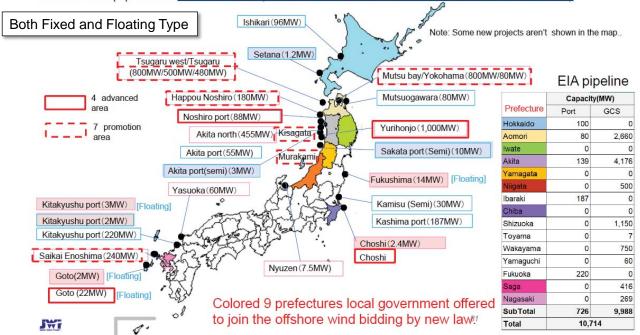


Source; Japan Wind Power Association http://jwpa.jp/pdf/JWPA\_REvision2017\_ExpertMTG.pdf



## **Current Status of Offshore Wind Projects**

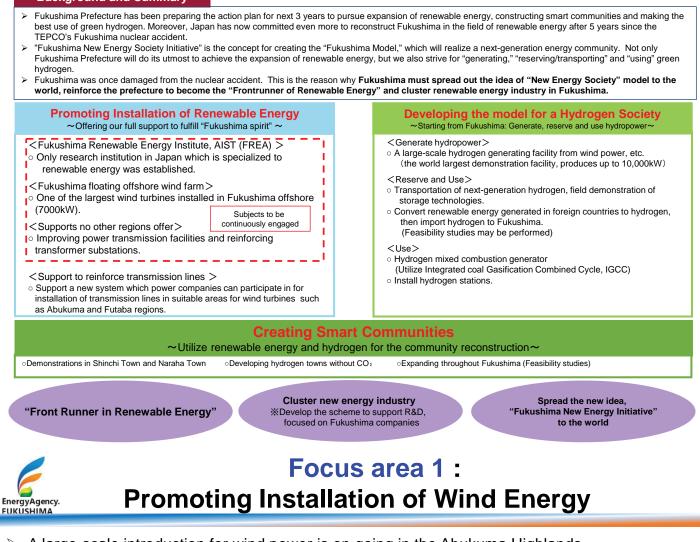
In operation by Aug. 2019 : 67.6 MW (Port area 46.2MW + General area 21.4 MW) ■ National projects (originally) ■ Commercial projects in operation In the EIA pipeline : 10,714 MW (Port area 726 MW + General area 9,988 MW)



Source; Current status and future prospects of offshore wind power generation market in Japan/JWPA/Offshore Wind Energy Seminar & Networking.9/5/2019



#### Background and Summary



- > A large-scale introduction for wind power is on going in the Abukuma Highlands.
- Construction of joint transmission lines for renewable energies is proceeding by the government.



## Focus area 2: Developing the Model for a Hydrogen Society

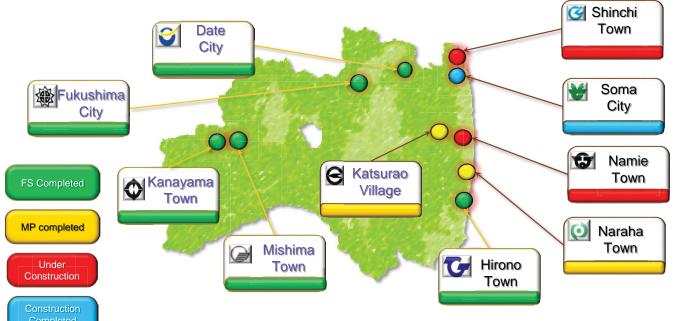
- A large-scale green hydrogen generation facility has been constructed in Namie Town and Fukushima-made Hydrogen will be used during the Tokyo Olympic and Paralympic games.
- Three Hydrogen filling stations have been built and FCVs are being introduced. Also many development/demonstration projects are being conducted in the prefecture.



### EnergyAgency FUKUSHIMA

### Focus area 3: Creating Smart communities

- Five smart community projects have been completed and/or are under construction in the costal area.
- > Other five projects are under review in the prefecture.





- We are truly grateful for all the help and support given from the State of NRW to Fukushima Prefecture.
- Our challenges for renewable energies started from scratch, but with the assistance of many partners, especially NRW, Fukushima was able to build a solid foundation for renewable energy industries.

We will continue to progress to become "a front runner in the field of renewable energy".

Going forwards, let us develop our relationship between two regions, and create a strong reciprocal partnership that is mutually beneficial to each of us.





## E-world Energy & Water 2020

- 5 Fukushima-based companies and ICSN are exhibiting.
- We are looking forward to seeing you at our Fukushima Booth.



Please talk to them directly after this seminar or Contact Fukushima international business advisor, Ms. Kiyomatsu kiyomatsu@f-open.or.jp



# Thank you for Listening!

