Status and Trends of Renewable Energy In Japan

Apr. 5th, 2019

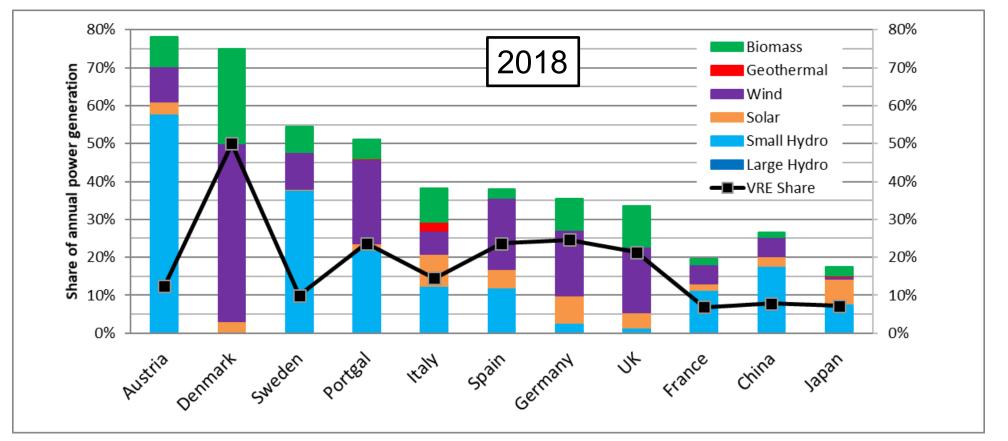
Institute for Sustainable Energy Policies, Tokyo, Japan

http://www.isep.or.jp/en



Share comparison of renewable energy power generation

Share of renewable energy power generation in European countries are greater than Japan.



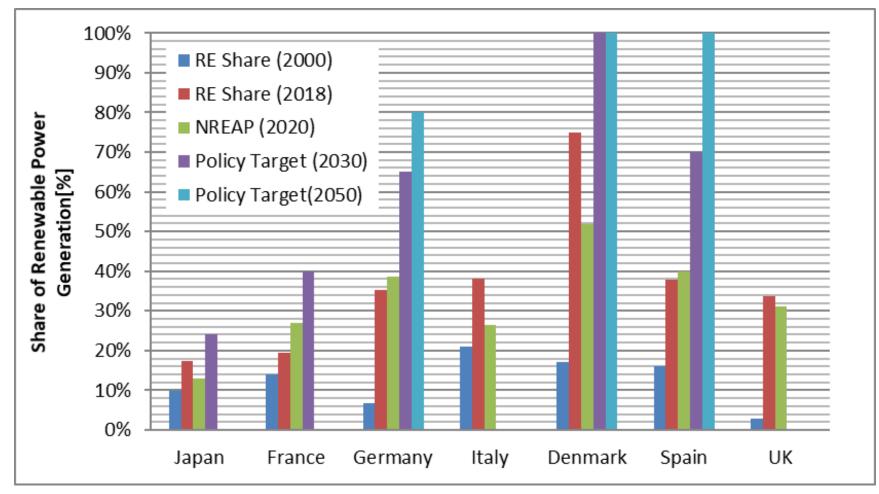
* VRE(Variable Renewable Energy)

Source: Agora Energiewende "The European Power Sector in 2018", etc.

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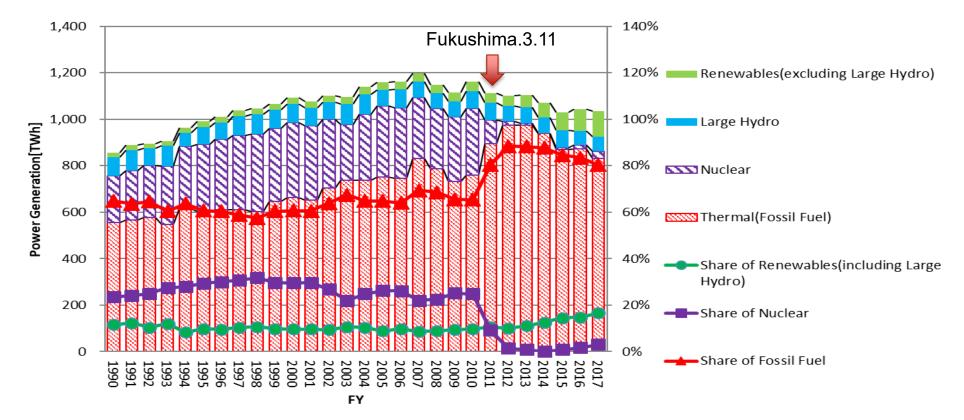
Share trends and Policy target of renewable energy

■ EU directive causes renewable energy target of 2020 based on NREAP for each country in EU ■ 2030 energy mix of renewable energy in Japan is 22 – 24%, which corresponds to recent RE share of EU countries.



Trends of Power Generation in Japan

- Ratio of renewable energy is 10% which remained unchanged for the past two decades
- Ratio of renewable energy power generation increased to 16.7% in FY2017.

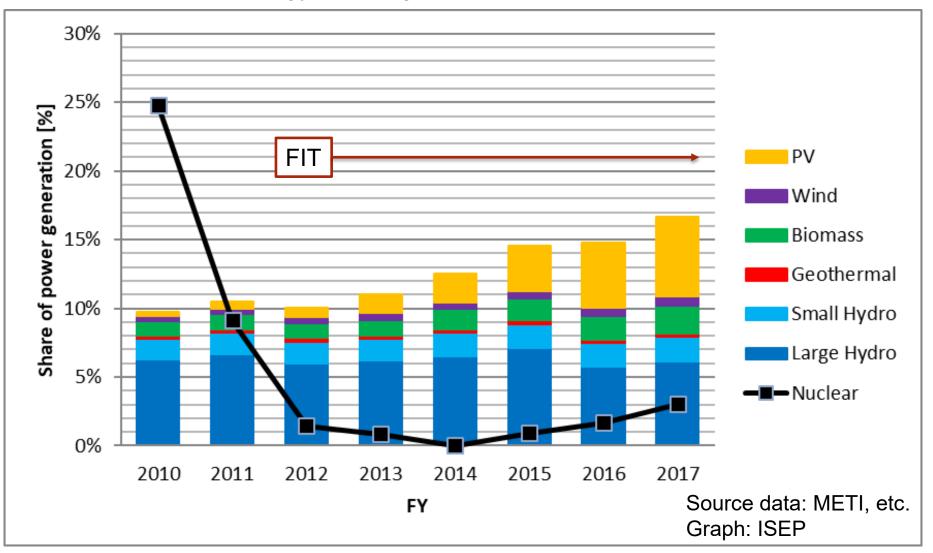


Power Generation in Japan(FY1990 - 2017)

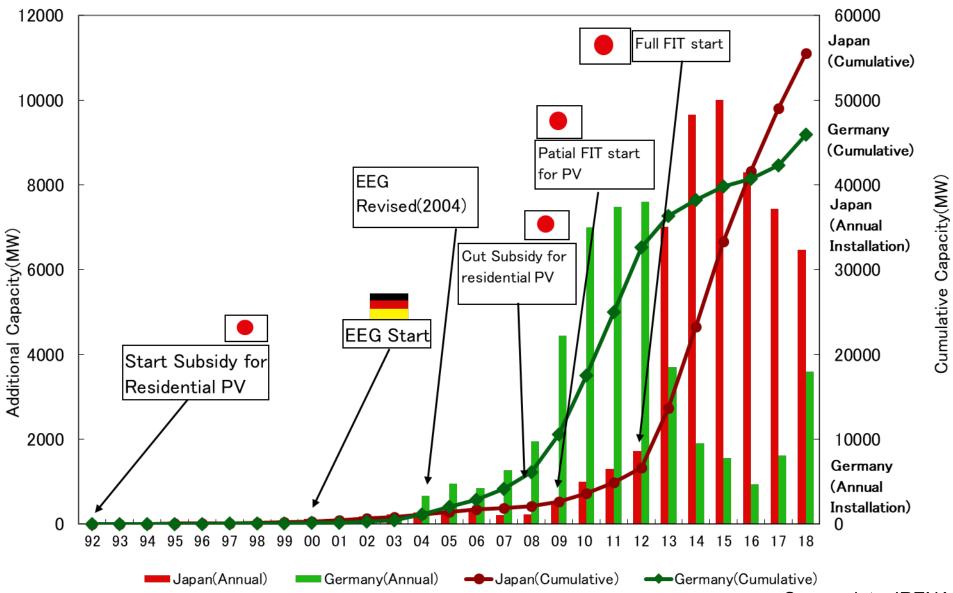
Source data: METI, etc. Graph: ISEP

Trends of Renewable Electricity Supply in Japan

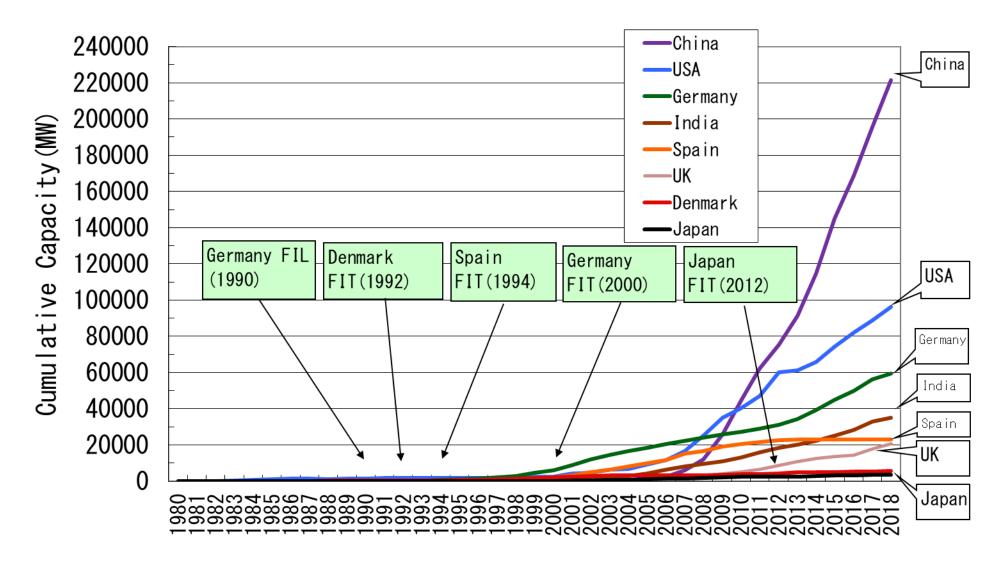
Share of renewable energy power generation increased to 16.7% in FY2017



Trends of Solar PV installation in Germany and Japan

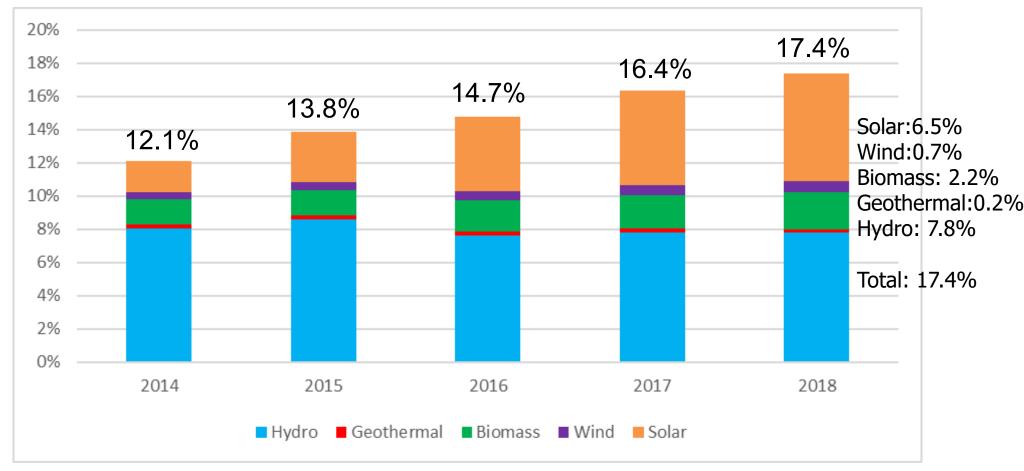


Trends of Wind Cumulative Capacity



Trends of Renewable Electricity Supply in Japan

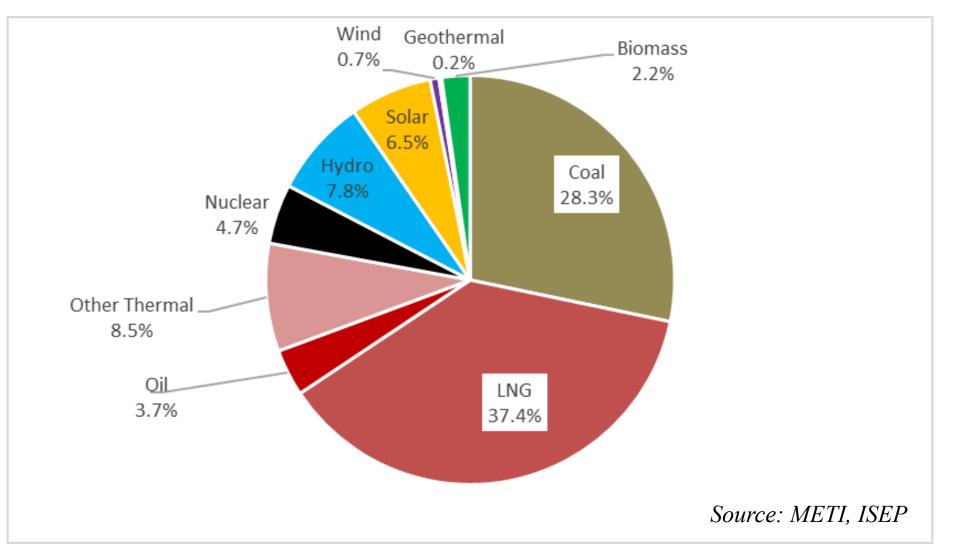
- Share of renewable energy power generation increased to 17.4% in 2018
- In 2018, share of solar PV Increased to 6.5%.



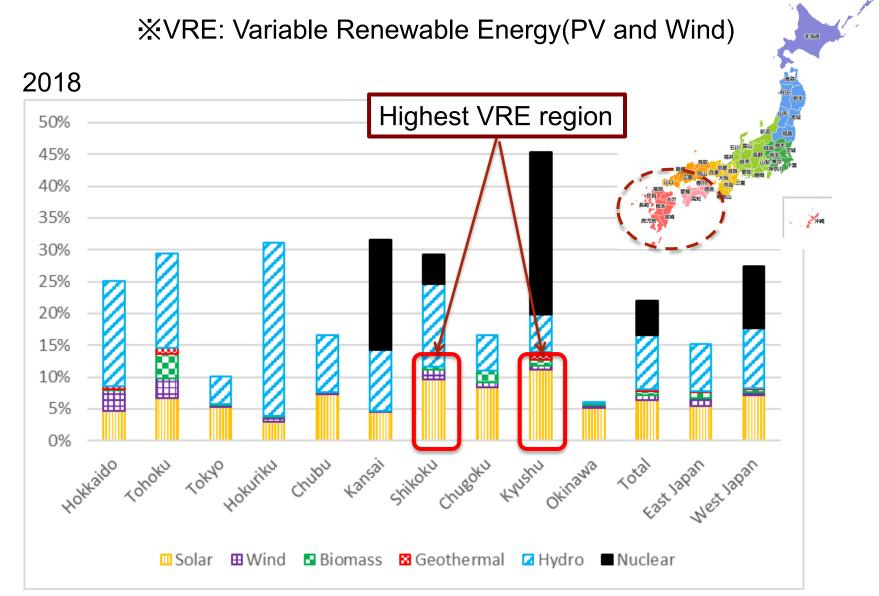
Source: METI, ISEP

Power mix in Japan (2018)

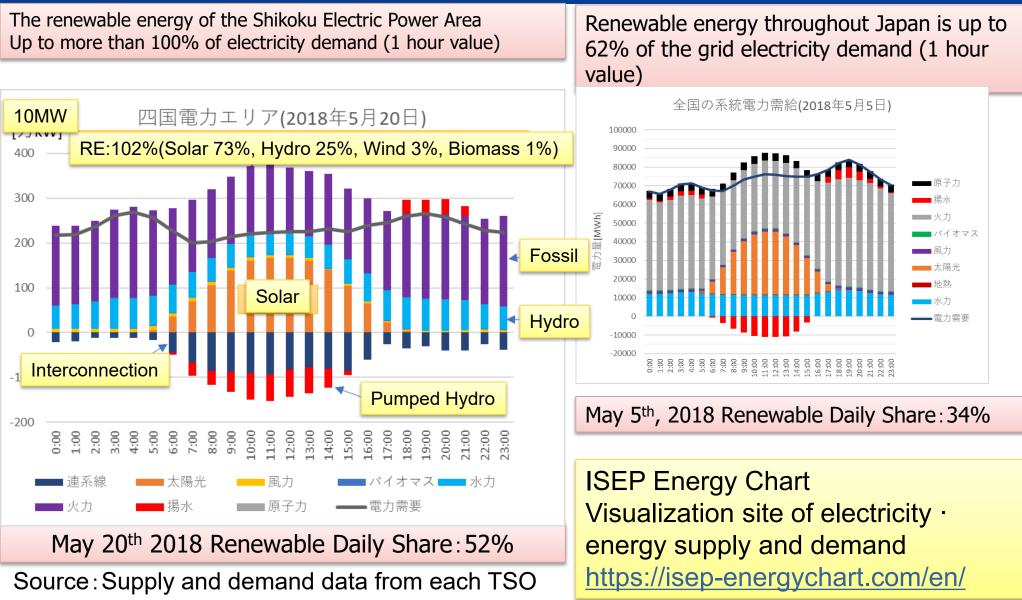
Share of renewable energy power generation increased to 17.4% in 2018



Share of renewable electricity and VRE in each area



Supply and demand balance of electricity by TSO



Regional Share of Renewable Energy in prefectures of Japan

