

**APEC EGNRET 51, Chang Mai, Thailand**

# EGNRET Pre Meeting Discussion

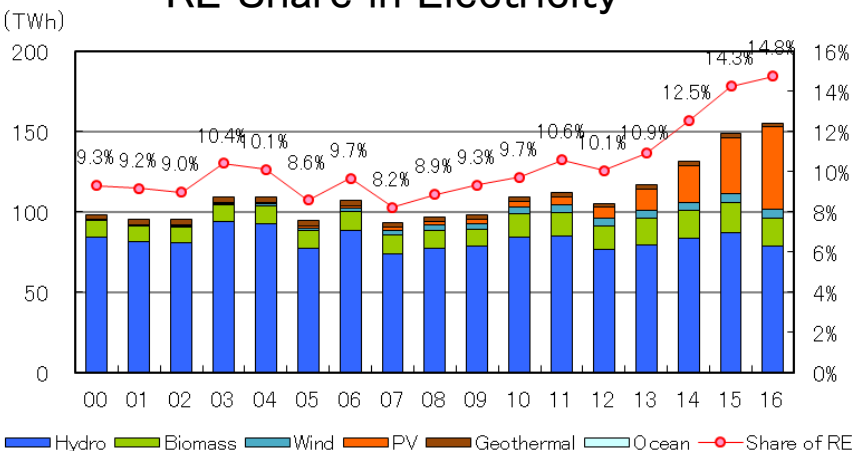
September 11th, 2018

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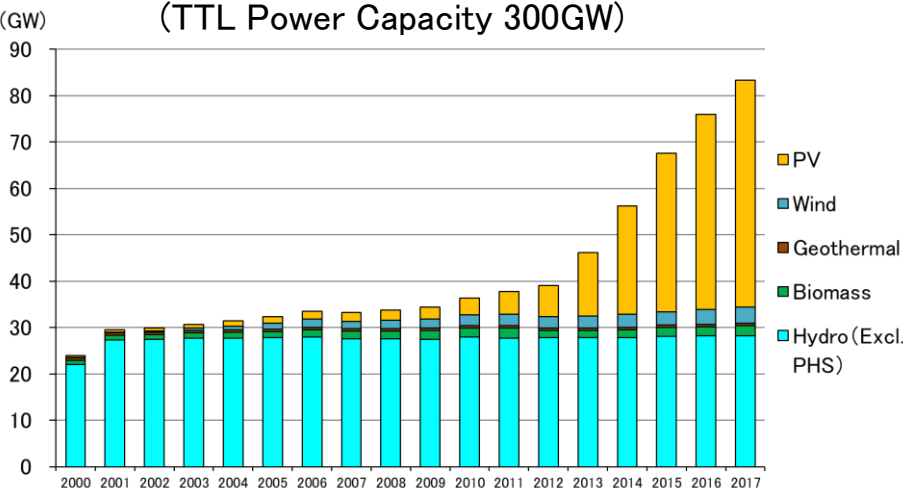
# Current status of Renewable Energy Share in Japan

## RE Share in Electricity



(Source) IEA, World Energy Statistics and Balances 2018

## RE Capacity in Electricity (TTL Power Capacity 300GW)



(Source) Source: IRENA Renewable Electricity Capacity and Generation Statistics, June 2018

## RE Heating/Cooling in 2016

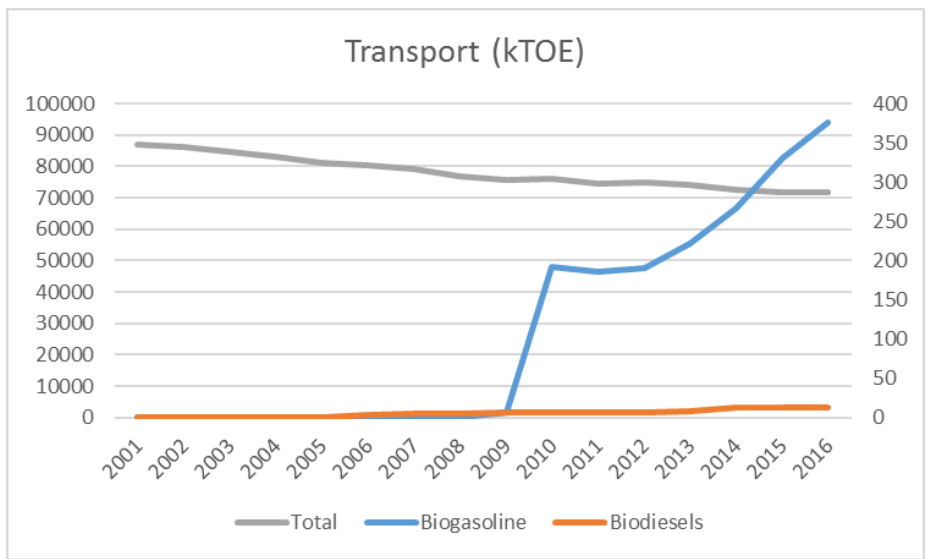
Solar Heat 248( $10^{10}$ kcal)  
Geothermal 652( $10^{10}$ kcal)  
Waste to Energy 1,892( $10^{10}$ kcal)

(Source) EDMC, IEEJ

Heating/Cooling in 2016  
Total 505,341( $10^{10}$ kcal)

(Source) METI

## Transport (kTOE)



(Source) IEA, World Energy Statistics and Balances 2018

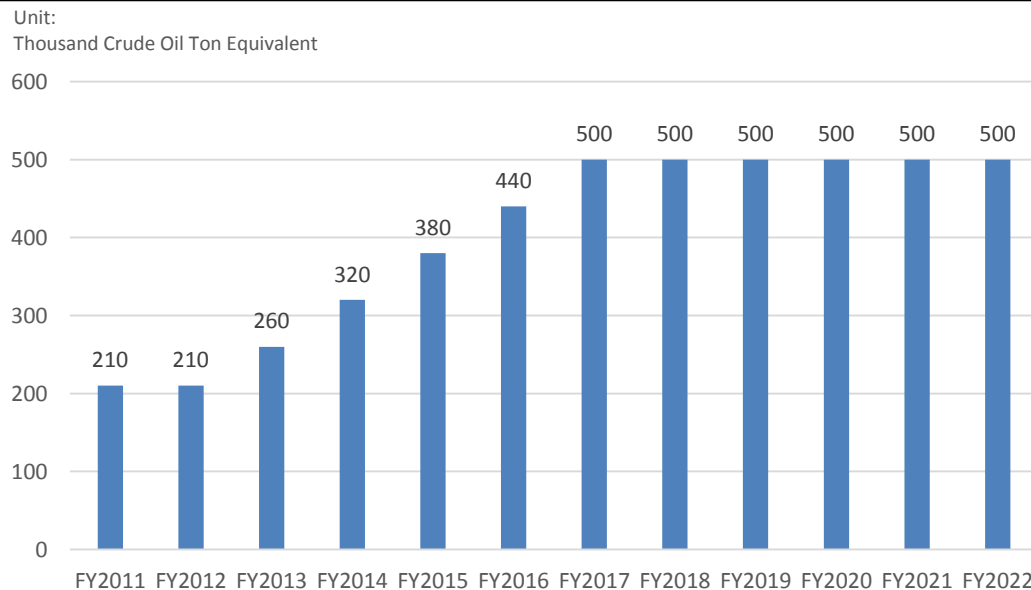
# Renewable Energy Target in Japan

## ➤ 5th Energy Master Plan (2018)

- 22-24% Renewable Energy in Electricity Mix (20-22% Nuclear)
- Target is not changed from previous version

## ➤ Law regarding Advanced Energy Supply Structures (2010 Nov)

- Law regarding promote the effective utilization of raw materials of fossil energy and use of non-fossil energy sources (Law regarding Advanced Energy Supply Structures) was passed in July 2009. Related ministerial order including ethanol introduction target was in effect in November 2010
- Mandate of biofuel usage from FY 2011 to FY 2017 and extended to FY2022



(Source) METI

# Policy for Promoting Renewable Energy

## Main Issues for promoting Renewable Energy

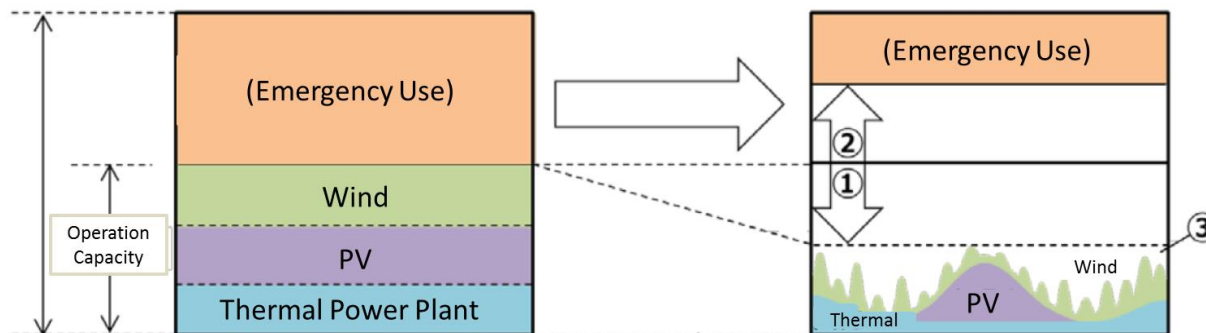
### ➤ Policy for promoting Renewable Energy (Electricity)

- FIT is key policy for promoting Renewable Energy after 2012
- Cost Reduction is one of the issue. Auction system for large PV (Over 2MW) is started from 2017 which is expanded to Biomass from 2018.

### ➤ Main Issues

- Cost Reduction
- After FIT (some rooftop PV FIT will finish the contract from 2019)
- Limitation of T&D grid
- Output fluctuation from Variable Renewables

### Japanese Version of Connect and Manage



(Source) METI

Thank you for your attention!