

**APEC Expert Group on
New and Renewable Energy Technologies**

**EGNRET Pre Meeting
Discussion**

September 11, 2018



**Asia-Pacific
Economic Cooperation**

EGNRET

EGNRET 51

Chiang Mai, Thailand, Sep. 10-14, 2018

Current Situation and Target

Electricity (4.27%)

19,684.4 MW

Heat (19.15%)

25,088 ktoe

Fuel (6.65%)

8,712.43 ktoe

1. MSW	500	291.47
2. Industrial waste	50	-
3. Biomass	5,570	3,216.68
4. Biogas (Wastewater)	600	484.29
5. Small hydro	376	187.72
6. Biogas (Energy crop)	680	-
7. Wind	3,002	695.32
8. Solar	6,000	2,697.27
9. Large hydro	2,906.4	2,906.4
Others (Geothermal)		0.3

1. MSW	495	10.60
2. Biomass	22,100	632.49
3. Biogas	1,283	52.86
4. Solar	1,200	0.83
5. Alternatives Heat Source*	10	-

* Geothermal, pyrolysis oil, etc.

1. Biodiesel (mil l/d)	14.0	4.27
2. Ethanol (mil l/d)	11.3	4.02
3. Pyrolysis oil (mil l/d)	0.53	-
4. CBG (ton/d)	4,800	-
4. Alternative fuels* (ktoe)	10	-

* Bio-oil, Hydrogen and others

RE share 15.29% (May 2018)

Overall targets: **30%** Renewable Energy
in total energy consumption by 2036

Progress of Renewable Energy Development

Policy for RE Promoting



■ Policy for promoting renewable energy

- BOI privilege

(cooperate tax exception, tax holiday)

- Feed-in Tariff (FiT)

(depend on located sites, size and technologies)

- SPP Hybrid

- VSPP Semi-Firm Contact ,

- Soft Loan, ESCO Revolving Fund

- Grant, Pilot Project Demonstration

Main Issue for RE promoting



■ Main issues for promoting renewable energy

- ❑ Low potential in some energy sources e.g. geothermal, wind
- ❑ Unclear policy for the RE development / no new PPA recently
- ❑ RE thermal supportive
- ❑ Unclear policy on biofuel against EV promotion
- ❑ Inter-ministerial cooperation / difference in responsibilities
- ❑ Data gathering for actual/accumulate installed capacity
- ❑ Grid connection