

**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

Discussion

Progress of Renewable Energy Development In Canada

- **Current status of renewable energy share**
 - Canada is a global leader in the generation of clean electricity, with renewable sources representing 67% of total capacity.
 - In recent years, solar photovoltaic and wind energy have become the fastest-growing sources of electricity in Canada.
 - Canada is the world's second largest producer of hydroelectricity and is positioned ninth globally with respect to total wind power installed capacity, with 12,239 MW in 2017.
 - Canada reported 2,911 megawatts of solar photovoltaic installed capacity in 2017.

Progress of Renewable Energy Development In Canada

■ Renewable energy targets in Canada

- Canada is committed to meeting or exceeding the UNFCCC's 2030 target of a 30% greenhouse gas (GHG) reduction below 2005 levels.
- Canadian provinces and territories have jurisdiction over the development of their electricity resources, and design their own policies and targets with regards to renewable energy
- For its part, the federal government is committed to:
 - procure and/or generate 100 percent of its electricity from non-emitting sources by 2025; and,
 - fulfill 75 percent of new light-duty vehicles procurements with zero-emission vehicles (ZEVs) or hybrids starting in the 2019-20 fiscal year, with the objective that the government's fleet comprises at least 80 percent ZEVs by 2030.

Progress of Renewable Energy Development In Canada

■ Policies for promoting renewable energy

- Clean Energy in Rural and Remote Communities program: Provides approximately \$220 million in funding for initiatives to reduce reliance on diesel fuel, and deploy renewable energy solutions; and,
- The Emerging Renewable Power Program: Provides up to \$200 million to expand the portfolio of commercially viable renewable energy sources in Canada

■ Main challenges in promoting renewable energy

- Accommodating energy technologies that change the nature of the utility business model, e.g. distributed generation, energy storage, high penetration of variable generation.
- Sustaining the pace of investment required to renew electricity infrastructure and ensuring affordability and public support for renewable energy investment.