

# **Utilizing renewable energy certification to facilitate APEC regional renewable energy growth**

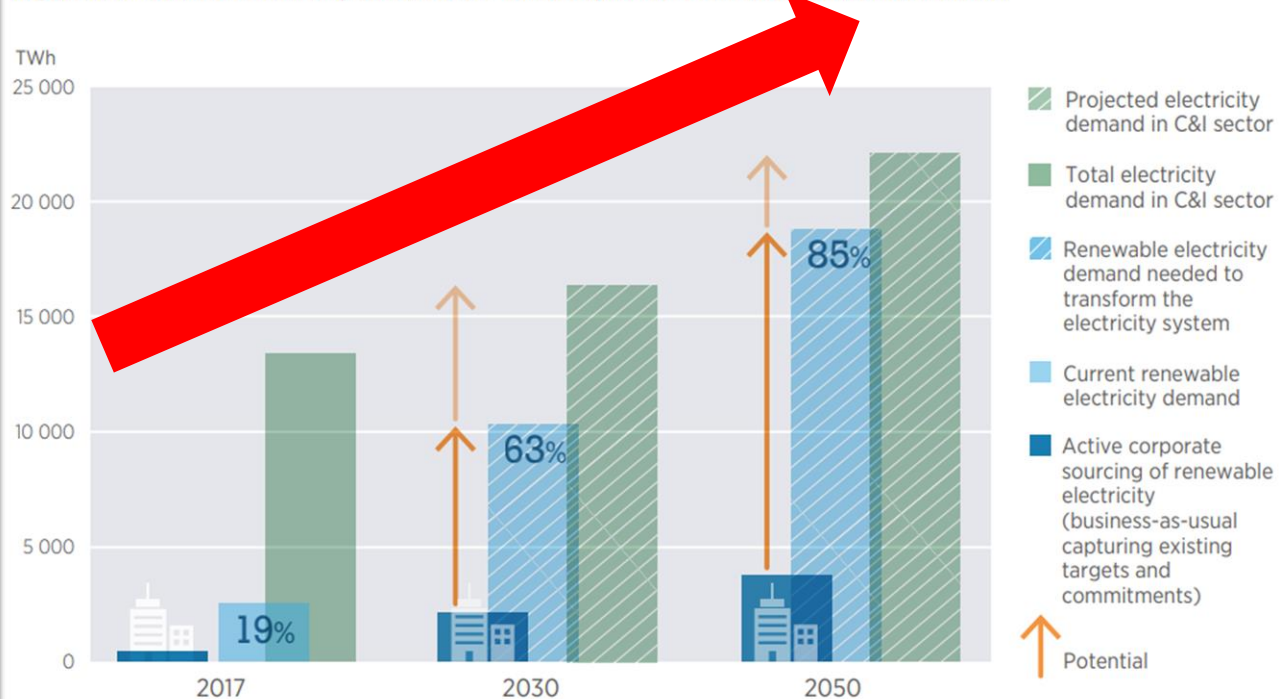
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# Climate Change and Renewable Energy

- Renewable Energy (RE) is the main measure to fight against Climate Change.
- **APEC Leaders Vision: “Double the Share of Renewable Energy.”**
- Most APEC Economies have **RE Target & Incentive Program.**
- Major RE promotion policy instruments:
  - 1.Tendering or Reverse Auctions
  - 2.Feed-in Tariffs
  - 3.Net Metering
  - 4.Tradable Certificates (RECs)**

# RECs are the key to support and facilitate the renewable energy use of C&I sector.

**Figure 3.2.** Corporate sourcing of renewable electricity in the Commercial & Industrial sector



*Note:* The figure compares current and future active corporate sourcing of renewable electricity based on existing targets and commitments with the amount of renewable electricity needed to transform the global electricity system and have a chance to reach the climate goals set out in the Paris Agreement.

International Renewable Energy Agency,  
Corporate Sourcing of Renewables: Market and Industry Trends, 2018

- Commercial & Industrial (C&I) sectors are the major driving force to renewable energy transformation.
- By 2050, the demand for renewable electricity would be **19,000 TWh**. (85% of total electricity demand)

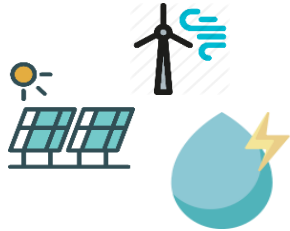
# What are RECs?



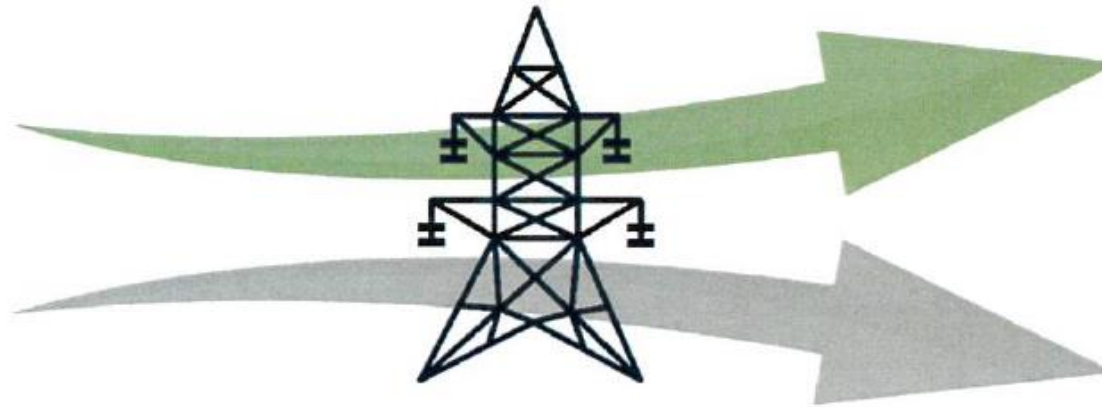
## RECs

- ID of Green Electricity
- Environmental Attributes
- Facility Inspection by certificate authority
- Tracking System

### Renewable Energy Facility



### Traditional Power Plant



Electrical Grid



Green Power Customers

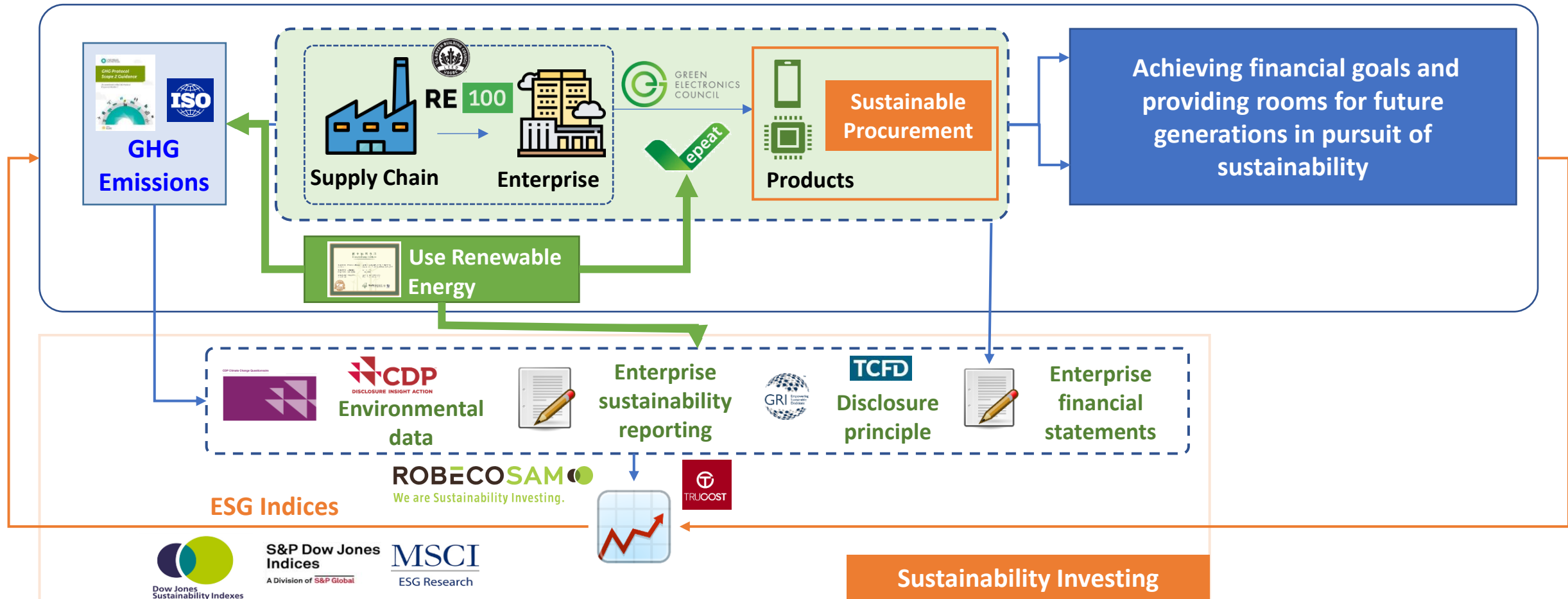


Commercial and Industrial Customers



Residential Customers

# RECs support economic growth, social inclusion and environmental protection



# RECs Activities in APEC Economies

- A well composed RECs mechanism **could provide new opportunity for renewable resource** based on Asia-Pacific's energy and economy variety.
- Australia, Canada, China, Hong Kong, Japan, Korea, Malaysia, Singapore, Chinese Taipei and the United States, are on the way to build RECs mechanism or Renewable Energy Market.
- It is the right timing for members to exchange, share, discuss and learn from each other's mechanisms.

# How our project works...

- APEC member economies will benefit from this project to **understand the operation and benefits** of REC
- Survey on REC systems across APEC economies
- Workshop on REC systems and market
- Period: Jan – Dec 2021
- Linkage: Cross-fora SCSC / EGNRET...



**Thanks for your patience.**

