

EGEDA update

EGEEC58 Meeting
30 March 2022

Edito BARCELONA
EGEDA Secretariat



Outline

- ❑ Regular APEC energy data collection
- ❑ APEC energy overview
- ❑ APEC workshop on energy statistics
- ❑ EGEDA's training on energy statistics
- ❑ EGEDA meeting
- ❑ Areas of cooperation with EGEEC

Regular APEC energy data collection (1)

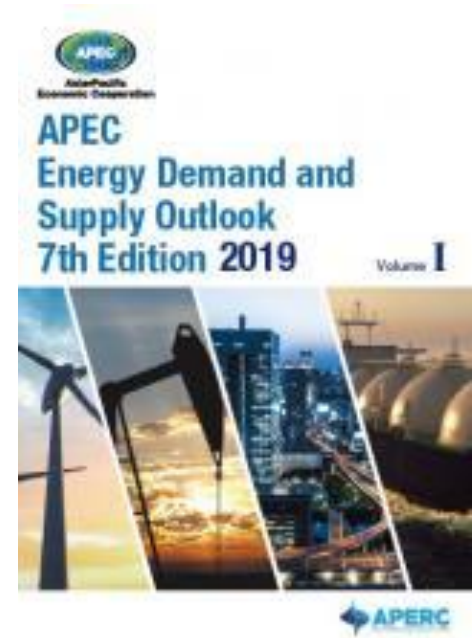
- Annual energy supply and demand data of 21 member economies for 2019 have been collected, processed and analysed
 - **APEC Energy Statistics 2019** and **APEC Energy Handbook 2019** publications are being updated for EWG members endorsement
- Annual energy supply and demand data for 2020 are now being collected
 - All data are expected to be in by September 2022
 - The secretariat will finish the draft **APEC Energy Statistics 2020** and **APEC Energy Handbook 2020** and submitted to the APEC secretariat for review by end of October 2022
 - We hope to post the 2020 publications in January 2023

Regular APEC energy data collection (2)

- Regular **quarterly** and **monthly** data collection continues.
 - Monthly **JODI Oil** and **JODI Gas** are submitted one month after the end of the month
 - **Quarterly supply** data are submitted 4 months after the end of the quarter
- Low response rate on the **energy efficiency indicators template**, **energy prices** and **CO₂ emissions**
 - No available end-use energy consumption (heating, cooling, lighting, etc.) data in many non-IEA member economies
 - The secretariat requests IEA member economies to submit the templates submitted to IEA
 - Seventeen economies submitted energy prices data but only 9 of these submitted 2019 data
 - Not all economies have official CO₂ emissions data

Regular APEC energy data collection (3)

- ❑ APERC is now using APEC data that is produced by EGEDA as the baseline for the 8th APEC energy outlook
- ❑ Outlook will use petajoules (PJ) instead of million tons of oil equivalent (mtoe)
- ❑ EGEDA also used PJ in data analysis from the 2018 energy statistics publications



Energy efficiency indicators template (1)

- The secretariat is now filling in the EEI template with 2019 energy and macroeconomic data
- EGEDA focal points will be requested to fill-in data that are not available in the EGEDA database such as:
 - End-use energy consumption data in households and commercial buildings
 - Production of industrial commodities (e.g.: steel, cement, chemicals, pulp and paper. etc.)
 - Transport sector: energy use in passenger and freight transport by mode and type of vehicles, vehicle-kilometers per type of vehicle
 - Industrial gross value added per manufacturing industry
 - Number of households, dwellings, annual heating/cooling degree days, etc

Energy efficiency indicators template (2)

- The secretariat engaged a consultant to conduct the following activities:
 - **Data gaps analysis** – consultant will identify data that might be available from other sources
 - **Compilation of available data** from surveys and other sources
 - **Preparation of generic models** for estimation for end-use energy consumption
 - Result of the project will be presented during the 20th APEC workshop on energy statistics in July 2022

- The secretariat hopes that member economies will be able to use the models that will be developed by the consultant to increase the number of economies that can fill-out the EEI template

APEC Energy Overview 2021

- ❑ APEC Overview 2021 was released in October 2021.
- ❑ Work on APEC Overview 2022 has started
- ❑ Data tables have been provided to APERC researchers for the individual economy reports



**Asia-Pacific
Economic Cooperation**

APEC ENERGY OVERVIEW 2021

19th APEC workshop on energy statistics

- ❑ **Schedule:** 28-30 June 2021, online
- ❑ **Objective:** To discuss the importance of energy efficiency indicators for energy policy analysis and sharing of experiences on end-use energy consumption data collection/estimation
- ❑ A joint training workshop with IEA
- ❑ **Rationale:** Most non-OECD APEC member economies cannot fill-in the energy efficiency indicators template
- ❑ A total of 74 persons from 15 economies were registered, including APERC participants
- ❑ EGEEC and APSEC participated

19th APEC workshop on energy statistics (2)

Agenda

- Importance of energy efficiency indicators
 - Tracking energy efficiency in APEC
 - APEC cooperation in energy efficiency (EGEEC)
 - Why data matters for energy efficiency policy design and monitoring
 - APEC energy data and energy balances
 - APEC energy efficiency indicators template
- Sectoral energy use and how to calculate EE indicators with hands-on exercises
 - Residential and commercial
 - Industry
 - Transportation

19th APEC workshop on energy statistics (3)

Economy presentations

- ❑ **Australia** – end use energy efficiency data and reporting
- ❑ **New Zealand** – Changes in energy use in transportation
- ❑ **Philippines** – Collection/estimation of energy and activity indicators for energy efficiency
- ❑ **Chinese Taipei** – Collection of activity indicators and end-use energy consumption data
- ❑ **Hong Kong, China** - Collection/estimation of energy and activity indicators in buildings
- ❑ **USA** - Collection/estimation of energy and activity indicators in industry
- ❑ **Japan** - Collection/estimation of energy and activity indicators in the transport sector

19th APEC workshop on energy statistics (4)

Hands-on exercises

- How to calculate the indicators for the **residential and commercial** sectors
- How to calculate the indicators for the **industry** sector
- How to calculate the indicators for the **transport** sector

19th APEC workshop on energy statistics (5)

Summary

- ❑ Detailed end-use energy data are crucial for setting policy targets and monitoring impacts
- ❑ The current EGEDA data are not enough for energy efficiency analysis
- ❑ Improved energy intensity does not always mean improved efficiency; it could be due to changes in the economic structure
- ❑ Activity data needed for the analysis could be available; EGEDA focal points may need to look deeper
- ❑ Data collection methods differ among economies; sharing of experiences should continue

20th APEC workshop on energy statistics

- ❑ To be held in **July 2022** (planning for an in-person or hybrid workshop)
- ❑ Part 2 of APEC-IEA collaboration on energy efficiency indicators project
- ❑ Aims to provide non-IEA member economies with methodologies/models in estimating end-use energy consumption in the industry, buildings and transportation sectors

EGEDA's training courses in energy statistics

❑ Planned courses (2021)

- Short-term (2 weeks)
- Middle-term (8 weeks)
- Special training course for Viet Nam (5 days)

❑ Implemented course

- Five-days online training course on energy statistics (November 29 to December 3, 2021)
- 32 persons from 8 economies participated
- **Objective:** To provide staff who work on energy statistics with a complete understanding of the aspects of good energy statistics

EGEDA's training courses in energy statistics (2)

Planned courses (2022)

- ❑ Short-term (2 weeks, **July**)
- ❑ Middle-term (8 weeks, **July-August**)
- ❑ Special training course for Viet Nam (5 days, **August**)
- ❑ If travel is still prohibited, **a one-week virtual training** will be held in lieu of the above
- ❑ **Objective:** To provide staff who work on energy statistics with a complete understanding of the aspects of good energy statistics

EGEDA's online training course in 2021

Agenda

- ❑ Definition of energy products and flows
- ❑ Calorific values and conversion of units
- ❑ Preparation of energy balance tables
- ❑ Calculating energy efficiency indicators
- ❑ Calculating GHG emissions
- ❑ Sharing of experiences in data collection by member economies

32nd EGEDA meeting

- ❑ Held on 12-13 October 2021 hosted by China
- ❑ 18 member economies participated
- ❑ EGNRET, EGEEC, IEA, IEF and IRENA
- ❑ Agenda:
 - Report on APEC activities, data collection, tracking APEC energy goals, JODI and energy efficiency indicators
 - APERC research activities
 - Report on collection of district cooling data
 - Proposed data collection on hydrogen production and utilization
 - Updates in IRENA's renewable energy statistics
 - EGNRET and EGEEC updates
 - Upcoming events
 - Election of EGEDA chair and appointment of vice-chair

33rd EGEDA meeting

- ❑ To be hosted by **the Philippines** on **26-28 October 2022**
- ❑ Planning for an in-person meeting but also preparing for virtual and hybrid meetings
- ❑ Third day is planned to be an APERC event presenting the 8th APEC energy outlook
- ❑ In addition to the usual items in the agenda, meeting will discuss finalization of **hydrogen** data collection template; **energy efficiency indicators**, further **cooperation with EGEEC and EGNRET**

Areas of cooperation with EGEEC

- ❑ Energy efficiency indicators template
 - Secretariat sought the assistance of EGEEC members to help their EGEDA colleagues to fill-in the template
 - EE experts in member economies may have data that were used in crafting energy efficiency programs
- ❑ Data collection of district cooling and district heating data
 - Several member economies with district cooling are not able to report data on this except for HKC and JPN
- ❑ Data collection from data centres
 - EGEDA secretariat would like to know EGEEC's concept of this project for discussion with EGEDA members



Thank you for your kind attention.

<https://aperc.or.jp/>