



2018 InterEnerStat Workshop  
Paris, 2-3 October 2018

# Collection of Energy Efficiency Indicators Data in APEC

Energy Statistics and Training Office  
Asia Pacific Energy Research Centre



# Outline of Presentation

## \* Background

- Milestone
- 2017 Revised questionnaire components
- 2018 Revised questionnaire components

## \* Status of data collection

- Revised EE Template submission (1)
- Revised EE Template submission (2)

## \* Way forward

- Way forward
- Other activities



# Background



# Milestone

**Dec 2014**

- Introduction of Energy Efficiency template



**Dec 2015**

- Sent Questionnaire & User Manual



**Mar–Apr 2016**

- Collection of Questionnaire from APEC economies



**June 2017**

- Questionnaire revised per agreement in 28<sup>th</sup> EGEDA



**Nov 2016**

- Reported progress in 28<sup>th</sup> EGEDA



**May–June 2016**

- Data evaluation



**Sept–Oct 2017**

- Submission evaluation
- Data analysis



**Nov 2017**

- Reported progress in 29<sup>th</sup> EGEDA



**Jan 2018**

- Questionnaire revised to include transport and industry sectors as agreed in 29<sup>th</sup> EGEDA

# 2017 Revised questionnaire components

## Commercial and Public Services

- Space Heating
- Space Cooling
- Lighting
- Other Building Energy Use
- Non-Building Energy Use
- Total Energy Use in Commercial Sector

## Activity data

- Activity and structure indicators (population, HHs, floor area, etc)
- GDP
- Value added

## Residential

- Space Heating
- Space Cooling
- Water Heating
- Cooking
- Lighting
- Refrigerators / Freezers
- Other kitchen facilities
- Laundry facilities
- Television/PC and other Home entertainment
- Other Appliances
- Total Energy Use in Residential Sector

To analyze energy demand and how to improve energy efficiency, detailed information for energy end-use / energy related data are important for policy makers & energy analysts.

# 2018 Revised questionnaire components

## Transport and Industry Sectors added

### Transport sector (by fuel)

- Road transport
- Railways
- Domestic Aviation
- Inland waterways

### Activity data

- Number of vehicles ( by type, by mode, by fuel type)
- Passenger-km (Passenger)
- Vehicle-km
- Tonne-km (Freight)

### Industry sector (by fuel)

- Food products and textiles
- Wood and wood products
- Paper and paper products
- Chemicals, basic pharmaceuticals, petrochemicals
- Non-metallic minerals
- Basic metals
- Fabricated metals
- Motor vehicles, trailers etc
- All Other manufacturing
- Mining and Quarrying
- Construction



# Status of Data Collection

# Revised EE template submission (1)

<u>13 APEC-Non-OECD members</u>	June 2018			Remarks
	number	Timeliness	Completeness	
Submitted	6	5	2	BD; HKC; PHL; RUS; CT; THA*
No submission	7			

\*Thailand shared some information but only for one year

<u>IEA/OECD members</u>	June 2018		Remarks
	number	Completeness	
Shared IEA template	2	2	AUS; JPN

Chile shared old survey result but it still needs to be reflected in Chile's end use data



# Revised EE template submission (2)

## Completeness

Economy	Activity	Commercial	Residential	Transport	Industry
BD	No HH and transport related data; value added;	Aggregated data (by fuel)		By fuel/mode	Aggregated data
HKC	No data on heating/cooling; passenger-km; vehicle-km	Disaggregated by end-use		By fuel/mode	By industry sub-sector
PHL	No data on heating/cooling; passenger-km; vehicle-km	Aggregated data (by fuel)		By fuel/mode	By industry sub-sector
Russia	No data on heating/cooling; GVA and transport data	Aggregated data		By fuel/mode	By industry sub-sector
CT	Time-series gaps	Disaggregated by end-use		By fuel/mode	By industry sub-sector



# Way forward



## (ESTO's responsibilities)

- Continue encourage submission from member economies;
- Conduct a study on energy efficiency indicators
- Assess template which indicators can be obtained or estimated; needs to be simplified.

## (Feedback from APEC economies)

- Expressed difficulties in end-use disaggregation (residential and commercial sectors and most of the activity data; transport-related data and gross value added by sector data)
- Emphasized the importance of estimation in the absence of any data source
- Stated the importance of appraising the officials on their efforts in data collection to get the officials' support

ESTO made presentations in the following IEA events

**(International Workshop on Energy Efficiency and Renewable Statistics @Beijing on 23-25 May 2018)**

- Collecting renewable energy statistics in selected APEC economies
- Collecting renewable electricity data in Japan
- Measuring energy efficiency in residential and building sector
- Measuring energy efficiency in industry: example of data collection practice in Japan

**(IEA Energy Efficiency Training Week for Southeast Asia @Jakarta on 16-20 July 2018)**

- Collecting energy efficiency indicators for APEC and South East Asia
- Philippines's experience in energy efficiency in industry sector



**Thank you for your kind attention**

<http://www.egeda.ewg.apec.org>