Result of the Pre-workshop survey

Joint APEC-IEA Training Workshop on End-use Energy Consumption Data and Energy Efficiency Indicators-Part 2
20th APEC Workshop on Energy Statistics
15 - 17 November 2022 (Virtual Event)

Risa Pancho, ESTO/APERC

Outline of the questionnaire

☐ **Objectives of the questionnaire are:**

- To identify the data availability regarding end-use energy consumption and energy efficiency indicators

- To understand the energy information system of economies

- To explore the perceived value of international collaboration

☐ **The survey was conducted in June 2022.**

☐ **7 economies answered this questionnaire.**

Contents of the questionnaire

☐ **Part I – Current data collection process and data availability for end-use energy consumption and related activity**
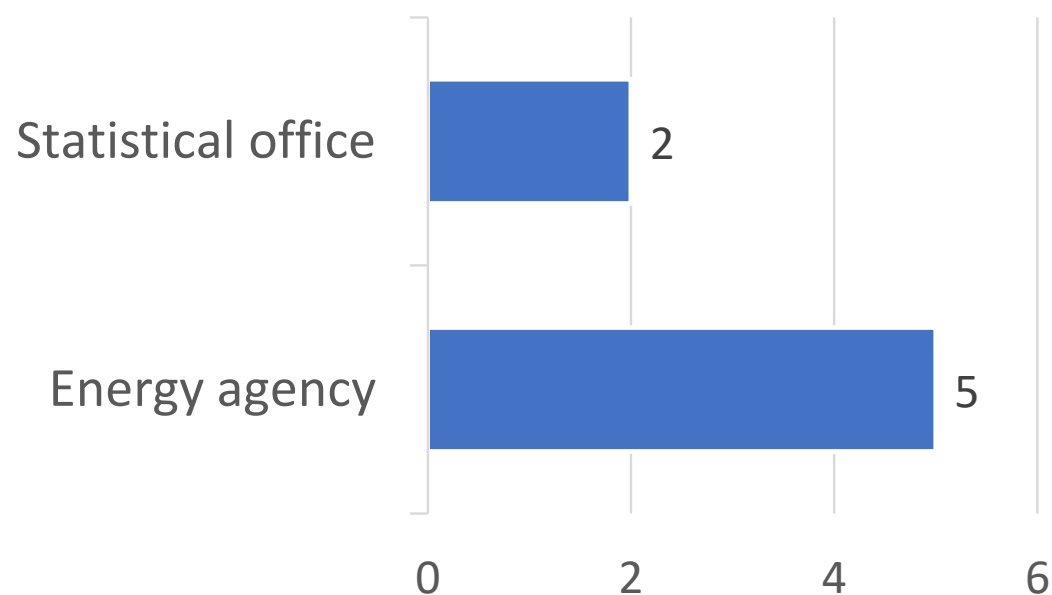
- I-A/ Institutional arrangements

- I-B/ Data collection and data availability of end-use energy consumption and related activity

☐ **Part II – International collaboration for end-use energy consumption and related activity**

- II-A/ International reporting

- II-B/ Areas of focus

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Institutions responsible for the data collection of end use energy consumption

Mainly responsible for collection

Statistical office	2
Energy agency	5

Involved in process

Other	3
Statistical office	4
Energy agency	3
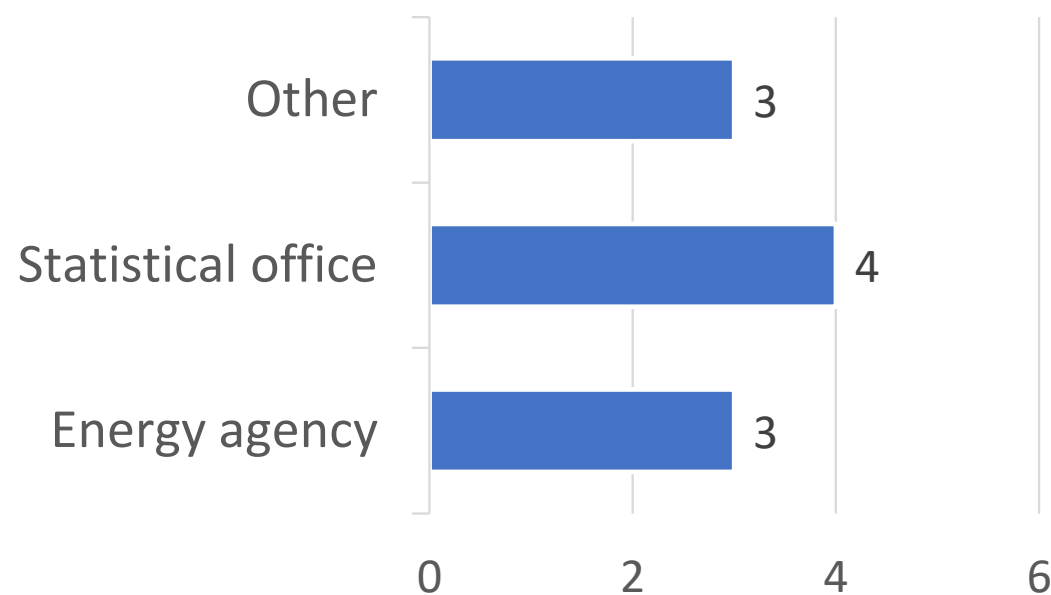
The number of full-time employees (FTEs)

The data collection of end-use energy consumption

- 1-10
- 11-20
- 21-50
- NA
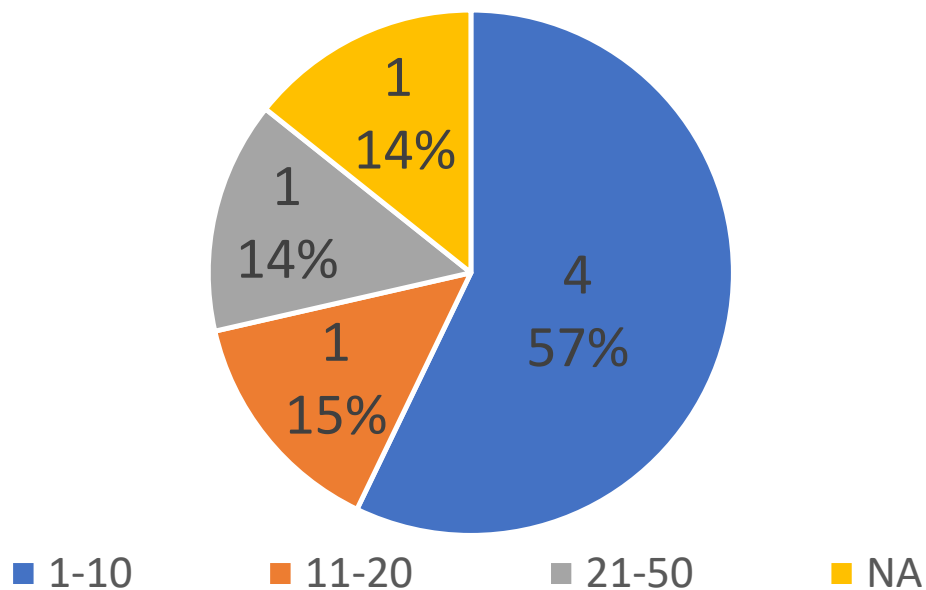
Energy efficiency in your institution

- 0
- 1-10
- 51-80
- NA
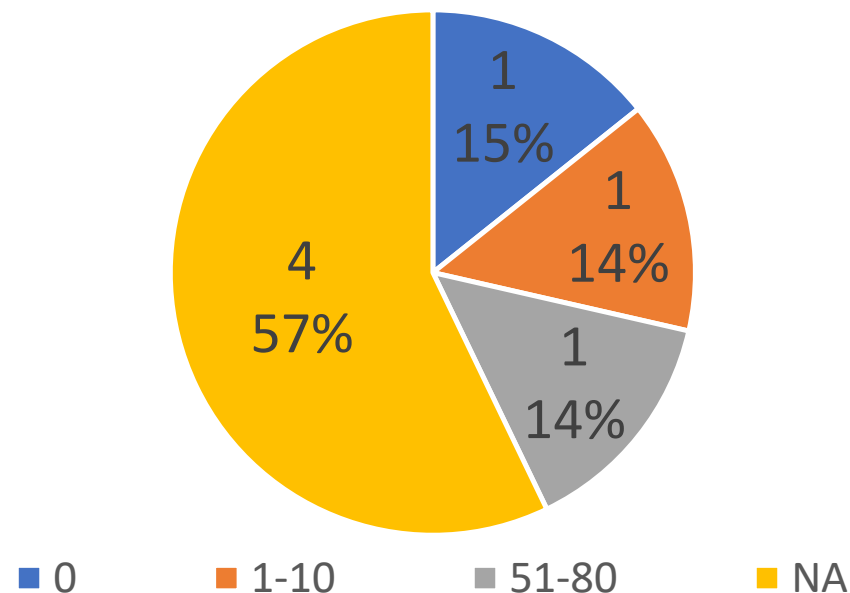
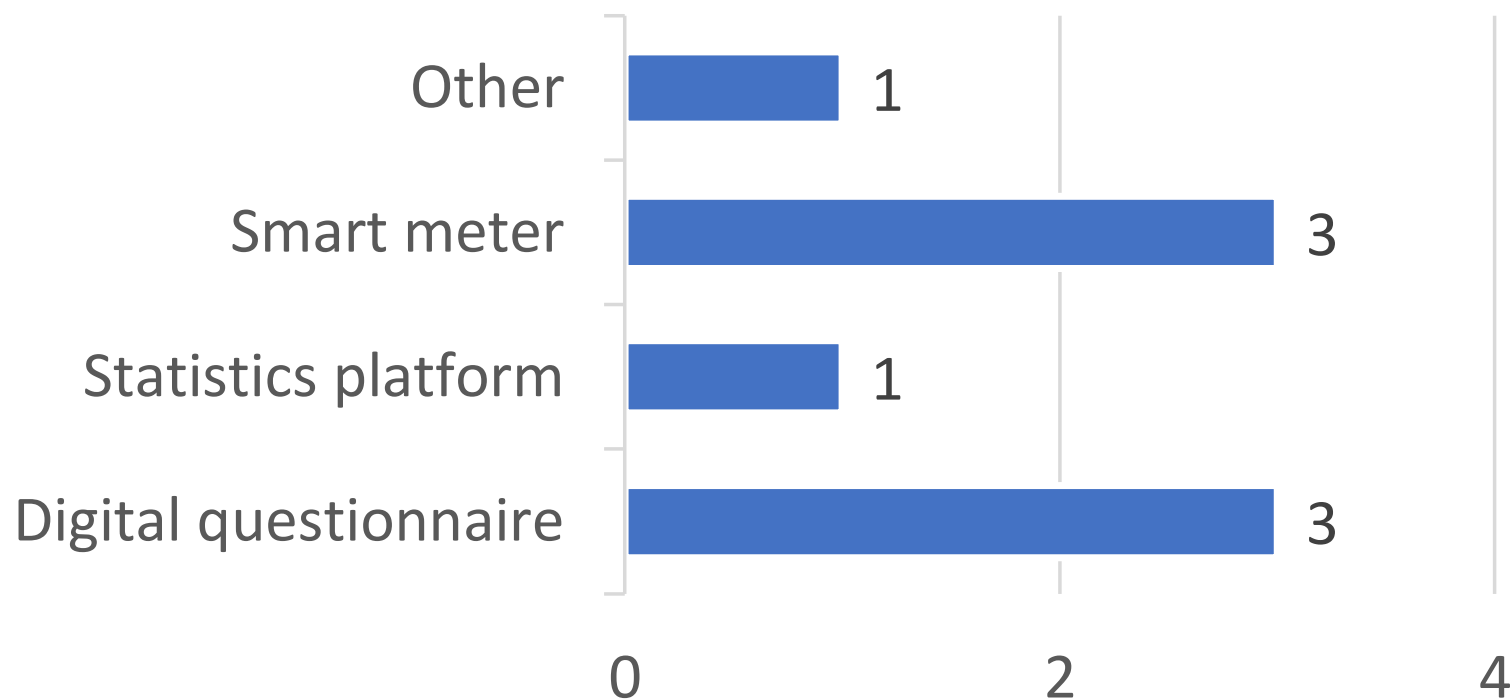# The main use of the data collection of end-use energy consumption
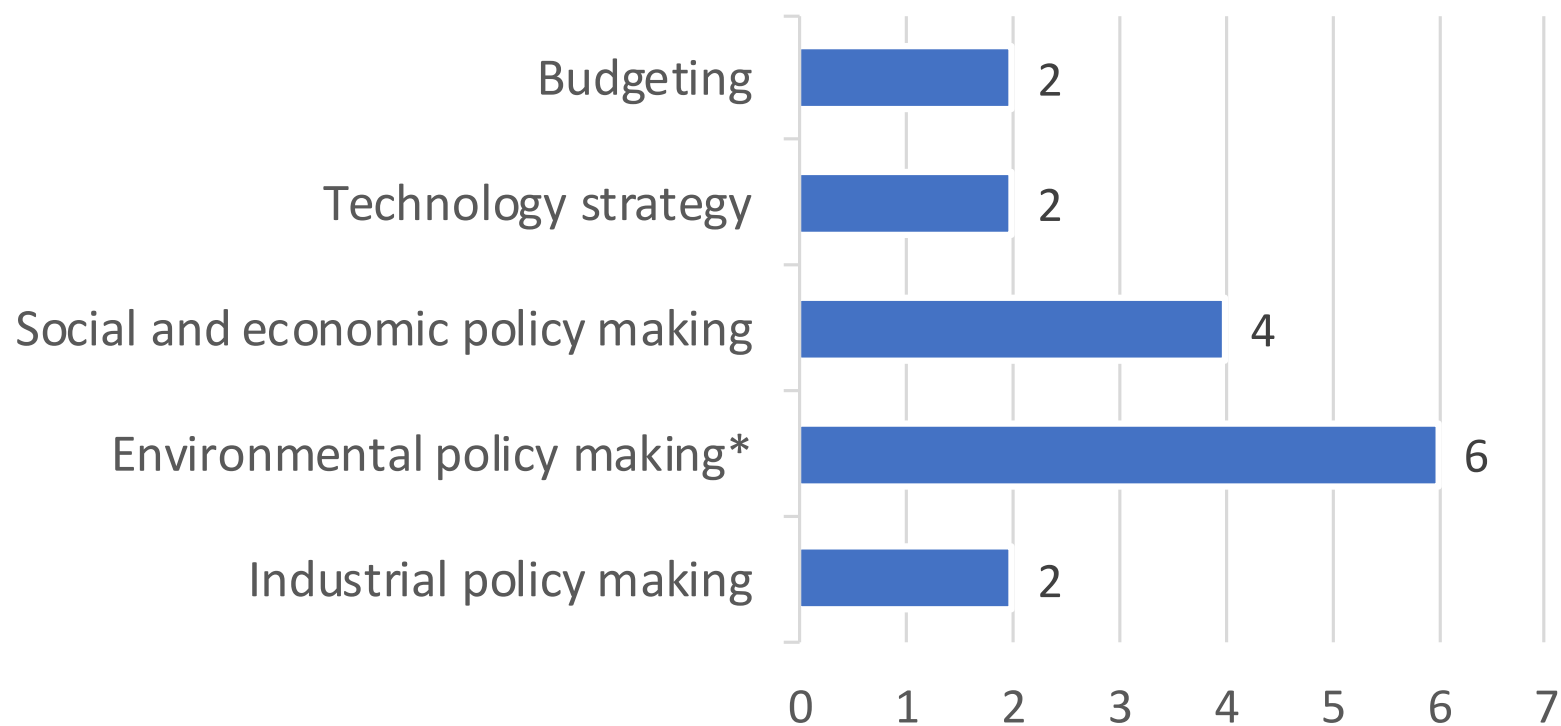
*including climate related

The technologies are used (or planned to be used) to collect end-use energy consumption

Industry and AFF (Agriculture, Fisheries and Fishing)

End use energy consumption

		The method(s) of collection						
		Survey	Admin. sources	Measuring	Modelling	Mixed sources	Don't know	NA
End use energy consumption	Ferrous metals	1	2	0	0	0	1	2
	Non-ferrous metals	2	3	0	0	0	1	1
	Non-metallic minerals	2	3	0	0	0	1	1
	Chemicals	2	3	0	0	0	1	1
	Transport equipment	2	2	0	0	0	1	2
	Machinery	2	2	0	0	0	1	2
	Food, beverages & tobacco	2	2	0	0	0	1	2
	Pulp, paper & printing	2	2	0	0	0	1	2
	Wood & wood products	2	2	0	0	0	1	2
	Textile and leather	2	3	0	0	0	1	1
	Total manufacturing	2	3	0	0	1	1	0
	Mining & quarrying.	2	3	0	0	0	1	1
	Construction	1	2	0	0	1	1	1
	Total industry	1	3	0	0	1	1	1
	AFF	1	2	0	0	0	1	3

Commercial/Services

End use energy consumption/Activity

		The method(s) of collection						
		Survey	Admin. sources	Measuring	Modelling	Mixed sources	Don't know	NA
End use energy consumption	Space heating	2	0	0	1	0	0	4
	Space cooling	3	0	0	1	0	0	3
	Cooking	3	0	0	1	0	0	3
	Lighting	3	0	0	1	0	0	3
	Total commercial	3	2	0	1	1	0	1
Activity	Floor area	0	1	0	0	1	1	3

Residential -1

End use energy consumption

		The method(s) of collection						
		Survey	Admin. sources	Measuring	Modelling	Mixed sources	Don't know	NA
End use energy consumption	Space heating	3	1	0	1	0	0	2
	Space cooling	4	1	0	1	0	0	1
	Water heating	4	1	0	1	0	0	1
	Cooking	4	1	0	1	0	0	1
	Lighting	4	1	0	1	0	0	1
	Refrigerators & freezers	4	1	0	1	0	0	1
	Other kitchen	4	1	0	1	0	0	1
	Laundry	4	1	0	1	0	0	1
	TV PC entertainment	4	1	0	1	0	0	1
	Total residential	2	3	0	1	2	0	0

Residential -2

Activity

		The method(s) of collection						
		Survey	Admin. sources	Measuring	Modelling	Mixed sources	Don't know	NA
Activity	Dwellings	1	3	0	0	1	0	1
	Floor area	1	1	0	0	0	1	3
	HDD / CDD*	1	1	0	1	0	2	3

Transport -1

End use energy consumption

		The method(s) of collection						
		Survey	Admin. sources	Measuring	Modelling	Mixed sources	Don't know	NA
End use energy consumption	Road	1	3	0	0	0	0	3
	Rail	0	4	0	0	0	0	2
	Aviation	0	4	0	0	0	0	2
	Navigation	1	2	0	0	0	0	3
	Total transport	1	4	0	0	1	0	1

Transport -2

Activity

		The method(s) of collection						
		Survey	Admin. sources	Measuring	Modelling	Mixed sources	Don't know	NA
Activity	Pkm – Total	0	2	0	0	1	1	2
	Pkm – by vehicle type	0	2	0	0	1	1	2
	Tkm – Total	0	0	0	0	1	1	4
	Tkm – by vehicle type	0	0	0	0	1	1	4
	Vkm – Total	0	2	0	0	1	1	2
	Vkm – by vehicle type	0	2	0	0	1	1	2
	Stock – Passenger total	0	2	0	0	1	1	2
	Stock – Passgr. by vehicle type	0	2	0	0	1	1	2
	Stock – Freight total	0	1	0	0	1	1	3
	Stock – Freight by vehicle type	0	1	0	0	1	1	3

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International collaboration -1

International organisation which economies are reporting the end-use energy consumption data
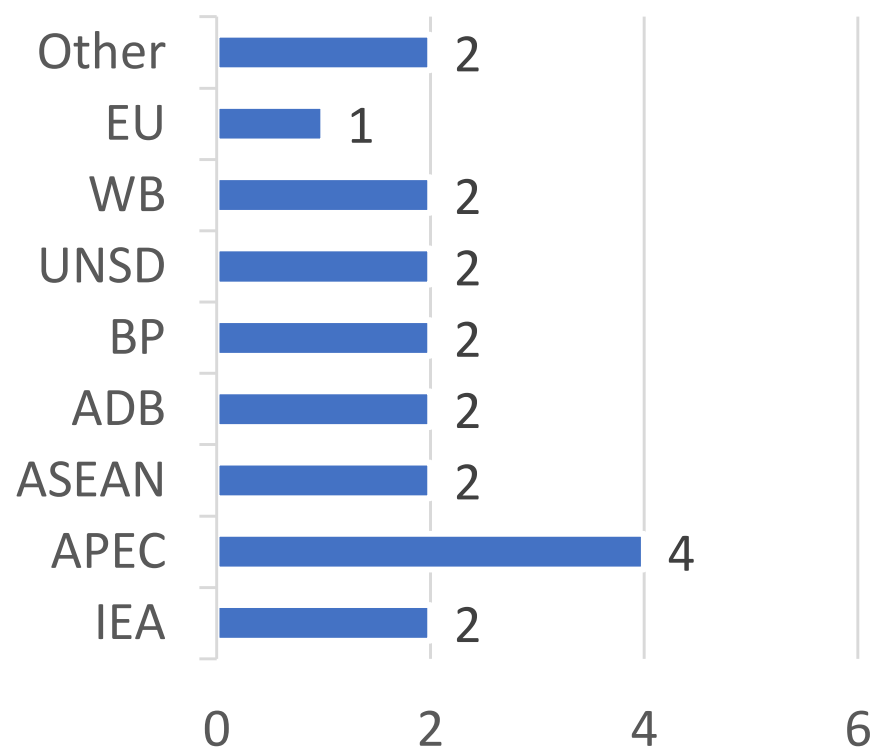
International collaboration -2

Workshops/trainings organized by or with an international organization that your team/institution participated (in the past 3 years)

- IEA Energy Statistics Training Course

- Seminar on Energy Supply and Demand Outlook

- APEC Workshop on Energy Statistics

- APEC Energy Modeling Seminar (APERC)

- EGEDA training course on energy statistics

- Others (organised by ACE, ERIA, IAEA, IPCC, IRENA and others)

Findings

☐ Some of the economies are facing **a shortage of full-time employees(FTEs)** for the data collection of end-use energy consumption and Energy efficiency.

☐ Compared to End use energy consumption in sectors of Commercial, Residential, and Transport, **Activity data** in these have not been collected much.

☐ **Survey** or **Admin. sources** are the common methods to collect the data for all sectors.

☐ If you have any questions for this slides, please email us: **esto@aperc.or.jp**

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Thank you for your kind attention.

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