# EGEDA Energy Statistics Training Program

***Short-Term Course, 22 January to 2 February 2024***

**Draft Training Agenda**

| Date/Time | Contents | Speaker |
|---|---|---|
| **21 Jan, Sun** | **Arrival in Tokyo** | |
| **22 Jan, Mon** | | |
| 9:30-10:30 | **Opening ceremonies**<br>• Welcoming remarks<br>• Self-introduction by trainees and trainers<br>• Introduction of EGEDA<br>• Introduction to the training course<br>• Admin matters and Logistics | <br>Dr. Irie<br>All<br>Mr Sweetnam<br>Mr Barcelona<br>Ms Pancho |
| 10:30-11:00 | **1.1 The importance of energy statistics and the APEC Energy Database** | Ms Gelindon |
| 11:00-12:00 | **1.2 IRES recommendations on energy statistics and energy balances** | Mr Sawamura |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-17:00 | **Trainees' presentations (20 mins each)**<br>Current energy situation and energy data collection in trainees' economies | Trainees |
| 17:00-17:30 | Q&A | All |
| 18:00-20:00 | **Networking Dinner @Restaurant near the hotel** | |
| **23 Jan, Tue** | | |
| 9:30-11:00 | **2.1 Energy data collection in Japan**<br>• Supply (coal, oil, gas, electricity & heat, NRE)<br>• Consumption (industry, transportation, commercial, residential, non-energy) | Ms Pancho |
| 11:00-12:00 | **2.2 Energy units and unit conversion**<br>• Practical exercises: units and units conversion | Mr Sawamura |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-17:00 | **Trainees' presentations (20 mins each)**<br>• Current energy situation and energy data collection in trainees' economies | Trainees |
| 17:00-17:30 | Q&A | All |
| **24 Jan, Wed** | | |
| 9:30-11:00 | **3.1 The annual coal questionnaire**<br>• Definition of products<br>• Definition of supply, transformation and consumption flows | Mr Barcelona |
| 11:00-12:00 | **Exercise**: filling-out the coal questionnaire | Trainees |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-14:00 | **3.2 The oil questionnaire**<br>• Oil principles<br>• Definition of products and supply flows | Mr Nabih |
| 14:00-15:00 | • Exercise: filling-out the oil questionnaire | Trainees |
| 15:00-17:30 | **3.3 Explanation of the gas questionnaire**<br>• Natural gas products and flows<br>**Exercise**: filling-out the gas questionnaire | Mr Sawamura<br><br>Trainees |
| **25 Jan, Thu** | | |
| 9:30-12:00 | **4.1 Explanation of the electricity & heat questionnaire** | Ms Pancho |

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| | • Electricity & heat producers<br>• Electricity & heat sources<br>**Exercise**: filling-out the electricity & heat questionnaire | Trainees |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-15:00 | **4.2 Explanation of NRE questionnaire**<br>• Importance of NRE data<br>• NRE products<br>• What are counted and not counted | Ms Gelindon |
| 15:30-16:30 | **4.3 Methodologies in calculating NRE production and consumption** | Mr Barcelona |
| 16:30-17:30 | **NRE questionnaire**<br>**Exercise**: filling-out the NRE questionnaire | Mr./Ms.<br>Trainees |
| **26 Jan, Fri** | | |
| 9:30-10:30 | **Review of filled-out questionnaires** | Mr Barcelona |
| 10:30-12:00 | **5.1 Introduction to energy balance tables** | Mr Sawamura |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-14:00 | **Exercise:** Preparation and validation of the energy balance tables | Ms Pancho<br>Trainees |
| 14:00-15:00 | **5.2 Calculating GHG emissions using the energy balance table and carbon capture and storage**<br>**Exercise**: Calculating GHG emissions from energy combustion | Mr Nabih<br><br>Trainees |
| 15:00-16:30 | **Exercise**: Calculating fugitive GHG emissions | Ms. Gelindon |
| 16:30-17:30 | **5.3 Energy indicators**<br>• Activity indicators<br>• Macroeconomic data<br>• Other activity data<br>• Energy intensities and other energy indicators<br>**Exercise:** Calculating energy indicators (by economy) | Trainees |
| **27 – 28 Jan, Sat - Sun** | **Free Time** | |
| **29 Jan, Mon** | | |
| 9:30-11:00 | **6.1 Energy efficiency indicators (EEI)**<br>• Importance of energy efficiency indicators<br>**6.2 EEI template in APEC**<br>• Filling-out the EEI template | Ms Gelindon |
| 11:00-12:00 | **6.3 EEI data gap assessment** | Ms Gelindon |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-14:00 | **Continuation of data gap assessment** | Ms Gelindon |
| 14:00-15:00 | **6.4 Tracking energy efficiency in household sector** | Mr Sawamura |
| 15:00-16:00 | **6.5 Data collection in the household sector** | Mr Sawamura |
| 16:00-17:30 | **6.6 Modeling household end-use energy consumption** | Mr Sawamura |
| **30 Jan, Tue** | | |
| 9:30-12:00 | **Exercise:**<br>• Household energy consumption survey<br>• Household end-use energy consumption estimation | Mr Sawamura<br>Trainees |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-14:30 | **7.1 Tracking energy efficiency in services sector** | Ms Pancho |
| 14:30-15:00 | **Exercise:** Services end-use energy consumption estimation | Ms Pancho<br>Trainees |
| 15:00-17:00 | **7.3 Tracking energy efficiency in transport sector** | Ms Gelindon |

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| | **7.4 Modeling transport energy consumption** | Ms Gelindon |
| 17:00-17:30 | **Exercise:** Services and transport end-use energy consumption estimation (Homework) | Trainees |
| **31 Jan, Wed** | | |
| 9:30-10:30 | Discussion of the Homework | Mr Sawamura |
| 10:30-11:15 | **8.1 Tracking energy efficiency in industry sector** | Mr Barcelona |
| 11:15-12:00 | **8.2 Modeling industry energy consumption** | Mr Barcelona |
| 12:00-13:00 | ***Lunch break*** | |
| 16:00-17:30 | Continuation of modeling industry energy consumption<br><br>**Exercises:** Industry end-use energy consumption estimation | Mr Barcelona<br><br>Trainees |
| **1 Feb, Thu** | | |
| 9:30-10:45 | **Reporting hydrogen** | Mr Sawamura |
| 10:45-12:00 | **Estimating electricity consumption of EVs** | Mr Maunsell |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-14:30 | **Reporting electricity storage** | Mr Barcelona |
| 14:30-16:00 | **Reporting district cooling** | Ms. Gelindon |
| 16:00-17:00 | **Open discussion** | |
| **2 Feb, Fri** | | |
| 9:30-11:00 | **9.1 Introduction to decomposition analysis** | Ms. Gelindon |
| 11:00-12:00 | **Exercise**: Hands-on exercises on decomposition analysis | Ms. Gelindon<br>Trainees |
| 12:00-13:00 | ***Lunch break*** | |
| 13:00-14:00 | **9.1 Introduction to Joint Organisations Data Initiative (JODI)** | Mr. Sawamura |
| 14:00-15:00 | **Exercise:** Filling out the JODI Oil and JODI Gas questionnaires with December 2023 and January 2023 data | Mr. Sawamura<br>Trainees |
| 15:30-16:00 | **Evaluation of the short-term training course** | Trainees |
| 16:00-16:30 | **Discussion** | All |
| 16:30-17:00 | **Awarding of certificates of the short-term training course** | Dr. Irie |
| 17:00 | **Group photo** | All |
| **3 Feb, Sat** | **Departure from Tokyo** | |

**Speakers:**

1. Dr. Kazutomo IRIE – President, APERC
2. Mr. Glen Sweetnam – Senior Vice President, APERC and Chair, EGEDA
3. Mr. Edito BARCELONA – Senior Research Fellow, ESTO/APERC
4. Ms. Elvira GELINDON – Research Fellow, ESTO/APERC
5. Mr. Nobuhiro SAWAMURA – Senior Researcher, ESTO/APERC
6. Mr. Nabih MATUSSIN – Researcher, APERC
7. Ms. Risa PANCHO – Researcher, ESTO/APERC
8. Mr. Finbar Maunsell – Researcher, APERC