



Progress Report of EGEDA

45th EGNRET Meeting
16 – 17 November, 2015
Xiamen, China

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- Regular Data Collection
- 27th EGEDA Meeting in Chinese Taipei
- EGEDA Energy Statistics Training Program
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for APEC Annual Energy Data Collection

Regular Data Collection

Annual Energy Demand-Supply Data in 2013

Quarterly Energy Supply Data in 2014 to 2015

CO₂ Emission Data in 2013

Energy Price Data in 2013

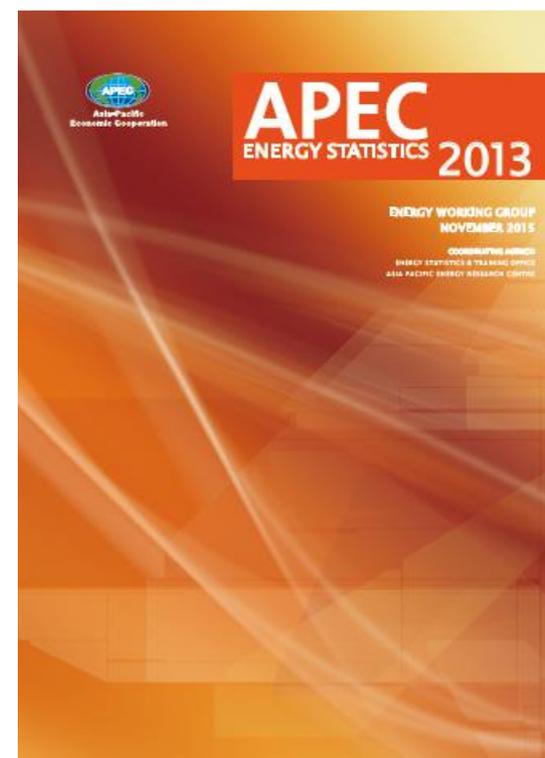
Release of Energy Statistics and Handbook publications for 2013

Upcoming Schedule for Annual Energy Data

- **Publication**

- C.A. will finalize the annual energy data soon and publish “APEC Energy Statistics” and “APEC Energy Handbook”.

- Overview of the APEC Energy Situation
- Member Tables
 - Energy Balance Tables (2012, 2013)
 - Major Energy Indicators
 - Major Economic Indicators
 - Energy Prices



27th EGEDA Meeting

Date: 1-3 September 2015

Venue: Kaohsiung, Chinese Taipei

Host: Bureau of Energy, Ministry of Economic Affairs

EGEDA CA Representatives : Mr. Shigeru Kimura - Chair

Mr. Masazumi Hirono -ESTO Head

Mr. Edito Barcelona

Mr. Takuya Miyagawa

Ms. Takako Hannon

EGNRET Secretariat

APERC Representative : Ms. Cecilia Tam – APERC Dep. VP

EGEDA members : **China; Korea; Malaysia; Philippines; Singapore;**
Chinese Taipei and Thailand

Main topics: Review of regular energy data collection and proposal of new data collection

EGEDA Energy Statistics Training Program

Short-term Training Program:

Date: 17-28 August 2015

Venue: Tokyo, Japan

Trainees : Ms. Zuliana Azrin (Malaysia)
Mr. Warea Undi (Papua New Guinea)
Ms. Iya Bordyuzhenko (Russia)
Mr. Dang Hai Anh (Viet Nam)

Main topics:

Energy Statistics in Japan
APEC Questionnaires (Annual, CO2, Energy Prices, etc.)
JODI Oil / JODI Gas
Hands on Exercise for APEC Annual Questionnaires
Understanding Energy Balance Table
Trainees presentation

EGEDA Energy Statistics Training Program

Middle-term Training Program:

Date: 5 October -27 November 2015

Venue: Tokyo, Japan

Trainees : Mr. Oscar Ojeda Galicia (Mexico)
Ms. Tran Thi Le Doan (Viet Nam)

Main topics:

Trainees Presentation for Energy Situation
Lectures

Compiling APEC Energy Balances

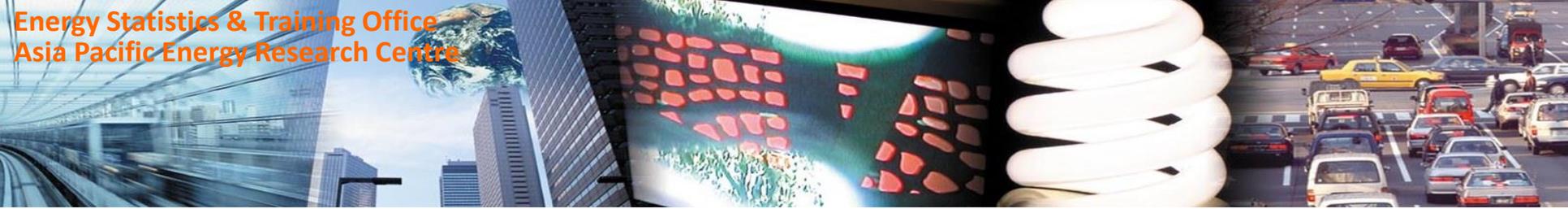
Calculating CO2 Emissions

Econometric Analysis

Energy Outlook

Data checking of Mexico / Viet Nam

Data checking for Publication



Revised Questionnaires for APEC Annual Energy Data Collection

History of Renewable Data Collection

1992: **1st trial** energy data collection for 1990 annual energy data.

Commercial Biomass Energy (ex. Wastes for Power Generation) were included. As supplemental, non-commercial biomass were submitted.

2005: **Revised questionnaires** are applied for **2004** annual data collection.

Non-commercial Biomass Energy are included in the APEC questionnaire.

Data Collection for New and Renewables

- The APEC Annual New and Renewable Energy Questionnaire consists of 5 tables:
 - **Table 1a:** Supply Sector
 - **Table 1b:** Imports by Origin / Exports by Destination
 - **Table 2:** Transformation and Energy Sectors
 - **Table 3:** Final Consumption Sector
 - **Table 4:** Conversion Factors

Energy in New and Renewable Questionnaire

Fuel Wood & Wood Waste

Bagasse

Charcoal

Other Biomass

Biogas

Industrial Waste

Municipal Solid Waste

Liquid Biofuels

Biogasoline

Bioethanol

Bio-jet

Biodiesels

Hydro

Geothermal

Electricity

Heat

Solar

Photovoltaic

Thermal

Electricity

Heat

Tide, Wave and Ocean

Wind

Revised NRE Questionnaire

□ To Capture more accurate & detailed information for NRE

□ To Harmonize with International Statistical Activities (IRENA, IEA, UN, etc.)

IRES	IEA	IRENA	APEC	APEC (draft proposal)	
Geothermal heat	Geothermal energy (for heat)	Geothermal Energy (for heat)	Geothermal Heat	Geothermal Heat	
Heat from concentrating solar thermal	Solar thermal	Solar Thermal (for heat)	Solar Thermal Heat	Solar Thermal Heat	
	Solar thermal electricity	Solar Thermal for Electricity Generation	Solar (Thermal Electricity)	Solar (Thermal Electricity)	
Municipal waste (renewable)	Municipal Waste - Renewable	Renewable Municipal Waste	Municipal Solid Waste	Municipal Waste - Renewable	
Municipal waste (non-renewable)	Municipal waste (non-renewable)	other (non-renewable)		Municipal waste (non-renewable)	
Wood pellets	Solid biofuels excluding charcoal	Wood and straw pellets/briquettes	FireWood & Wood waste	Wood and straw pellets/briquettes	
Other Fuelwood, wood residues and by-products		Fuelwood		Fuelwood	
Other vegetal material and residues		Wood waste		Wood waste	
		Rice husks	Other Biomass	Rice husks	
		Straw		Straw	
		Other vegetal and agricultural waste		Other vegetal and agricultural waste	
Other primary solid biomass		Other primary solid biomass			
Animal waste			Black liquor	Black liquor	
Black liquor			Bagasse	Bagasse	Bagasse
Charcoal		Charcoal	Charcoal	Charcoal	Charcoal

Revised NRE Questionnaire

IRES	IEA	IRENA	APEC	APEC (draft proposal)
Landfill gas	Biogases	Landfill gas	Biogas	Landfill gas
Sew age sludge gas		Sew age sludge gas		Sew age sludge gas
Other biogases from anaerobic fermentation		Other biogases from anaerobic fermentation		Other biogases from anaerobic fermentation
Biogases from thermal processes		Biogases from thermal processes		Biogases from thermal processes
Biogasoline	Biogasoline	Conventional bioethanol	Biogasoline	Biogasoline
	Bioethanol	Advanced bioethanol	Bioethanol	Bioethanol
Biodiesels	Biodiesels	Advanced biodiesel	Biodiesels	Biodiesels
		Conventional biodiesel		
Bio jet kerosene	Bio jet kerosenes		Bio jet kerosenes	Bio jet kerosenes
Other liquid biofuels	Other liquid biofuels	Vegetable oil	Liquid biofuels	Liquid biofuels
Hydro electricity	Hydro	Hydro	Hydro	Hydro
	Hydro-1 MW	Hydro-1 MW		Hydro-1 MW
	Hydro 1-10 MW	Hydro 1-10 MW		Hydro 1-10 MW
	Hydro 10+ MW	Hydro 10+ MW		Hydro 10+ MW
	Pumped hydro	Pumped Hydro		Pumped Hydro

Revised NRE Questionnaire

IRES	IEA	IRENA	APEC	APEC (draft proposal)
Electricity from Geothermal	Geothermal (electricity)	Geothermal (electricity)	Geothermal Electricity	Geothermal Electricity
Electricity from solar photovoltaics	Solar photovoltaic	Solar Photovoltaic	Solar (Photovoltaic)	Solar (Photovoltaic)
Tidal electricity	Tide, Wave & Ocean	Tide, Wave & Ocean	Tide, Wave & Ocean	Tide, Wave & Ocean
Wave electricity				
Other marine electricity				
Wind electricity	Wind	Onshore Wind	Wind	Onshore Wind
		Offshore Wind		Offshore Wind
Industrial Waste (non-renewable)	Industrial waste (non-renewable)		Industrial Waste	Industrial Waste

Revised NRE Questionnaire

Update

		Biogas	of which				Industrial Waste	Municipal Solid Waste		Black liquor
			Landfill gas	Sewage sludge gas	Other biogases from anaerobic fermentation	Biogases from thermal processes		renewable	non-renewable	
10 ¹⁰ kcal (net)	10 ¹⁰ kcal (net)							10 ¹⁰ kcal (net)	10 ¹⁰ kcal (net)	
K		L	M	N	O	P	Q	R	S	
Production ¹	(+) 1									
Imports	(+) 2									
Exports	(-) 3									
Stock Changes (+ or -)	(+) 4	0				0	0	0		
Gross Inland Deliveries (calculated)	(=) 5	0				0	0	0		
Statistical Differences	6	0				0	0	0		
Gross Inland Deliveries (observed)	7	0				0	0	0		
TOTAL STOCKS on NATIONAL TERRITORY										
Opening	8									
Total stocks on national territory - closing	9									

Revised NRE Questionnaire

Update

		Liquid Biofuels: of which				Hydro				
		Biogasoline	of which Bioethanol	Bio-jet	biodiesels	Total	of which			
							- 1MW	1-10 MW	10+ MW	Pumped Hydro
		1000t	1000t	1000t	1000t	GWh	GWh	GWh	GWh	GWh
		U	V	W	X	Y	Z	AA	AB	AC
Production ¹	(+) 1									
Imports	(+) 2									
Exports	(-) 3									
Stock Changes (+ or -)	(+) 4	0	0	0	0					
Gross Inland Deliveries (calculated)	(=) 5	0	0	0	0	0	0	0	0	0
Statistical Differences	6	0	0	0	0	0	0	0	0	0
Gross Inland Deliveries (observed)	7	0	0	0	0	0	0	0	0	0
TOTAL STOCKS on NATIONAL TERRITORY										
Opening	8									
Total stocks on national territory - closing	9									

Revised NRE Questionnaire

Update

		Geothermal		Solar			Tide, Wave & Ocean	Wind		
		Electricity	Heat	Photovoltaic	Thermal			Total	of which	
					Electricity	Heat			On-shore	Off-shore
		GWh	10 ¹⁰ kcal (gross)	GWh	GWh	10 ¹⁰ kcal (gross)	GWh	GWh	GWh	
		AD	AE	AF	AG	AH	AI	AJ	AK	AL
Production ¹	(+) 1									
Imports	(+) 2									
Exports	(-) 3									
Stock Changes (+ or -)	(+) 4									
Gross Inland Deliveries (calculated)	(=) 5	0	0	0	0	0	0	0	0	0
Statistical Differences	6	0	0	0	0	0	0	0	0	0
Gross Inland Deliveries (observed)	7	0	0	0	0	0	0	0	0	0
TOTAL STOCKS on NATIONAL TERRITORY										
Opening	8									
Total stocks on national territory - closing	9									