

APEC EGCFE Oil and Gas Meeting

9 March 2018

Tokyo

EGEDA Data on Oil and Gas

Edito Barcelona

Energy Statistics and Training Office (ESTO)

Asia Pacific Energy Research Centre (APERC)



**Asia-Pacific
Economic Cooperation**

What is EGEDA?

EGEDA data collection

- Annual oil and gas supply/demand data
- Quarterly oil and gas supply demand data
- Monthly oil and gas data (JODI)

APEC energy database

Conclusions

What is EGEDA?

EGEDA stands for Expert Group on Energy Data and Analysis

- Established in 1991 as Energy Data Expert Group during the 2nd APEC EWG meeting, responsible for managing and reviewing the operation of the APEC energy database
- Renamed Energy Data and Outlook Expert Group during the 12th APEC EWG meeting in 1996, with a new role of advising the Asia Pacific Energy Research Centre (APERC) in the preparation of its energy outlook and research activities
- The current name, EGEDA was obtained during the 18th APEC EWG meeting in 1999

The overall objectives of EGEDA are:

- to contribute to improve the quality of energy policies and decision-making in APEC member economies, and
- to enhance the efficiency of the regional energy market by improving the quality, availability and accessibility of energy data and projections and by analysing regional energy trends

What is EGEDA?

With members from 21 APEC economies

Holds one meeting, one workshop and two training courses on energy statistics per year

Chair: Mr. James Kendell, APERC Vice-president
(from November 2017)

Vice-chair: Mr. Jen-yi Hou (Chinese Taipei)

Secretariat: Energy Statistics and Training Office (ESTO), Asia Pacific Energy Research Centre

Annual data

- Deadline: December of the following year (usually)
- Energy supply and demand (energy balance table)
 - Supply, transformation, own-use and losses, consumption by sector and sub-sectors
- Energy prices (import, wholesale and consumer prices)
- CO₂ emissions from energy consumption
- Energy efficiency indicators

Quarterly supply data

- Coal, crude oil and oil products, natural gas and electricity
- Production, imports, exports, stock change, and total primary energy supply

Monthly data (JODI Oil)

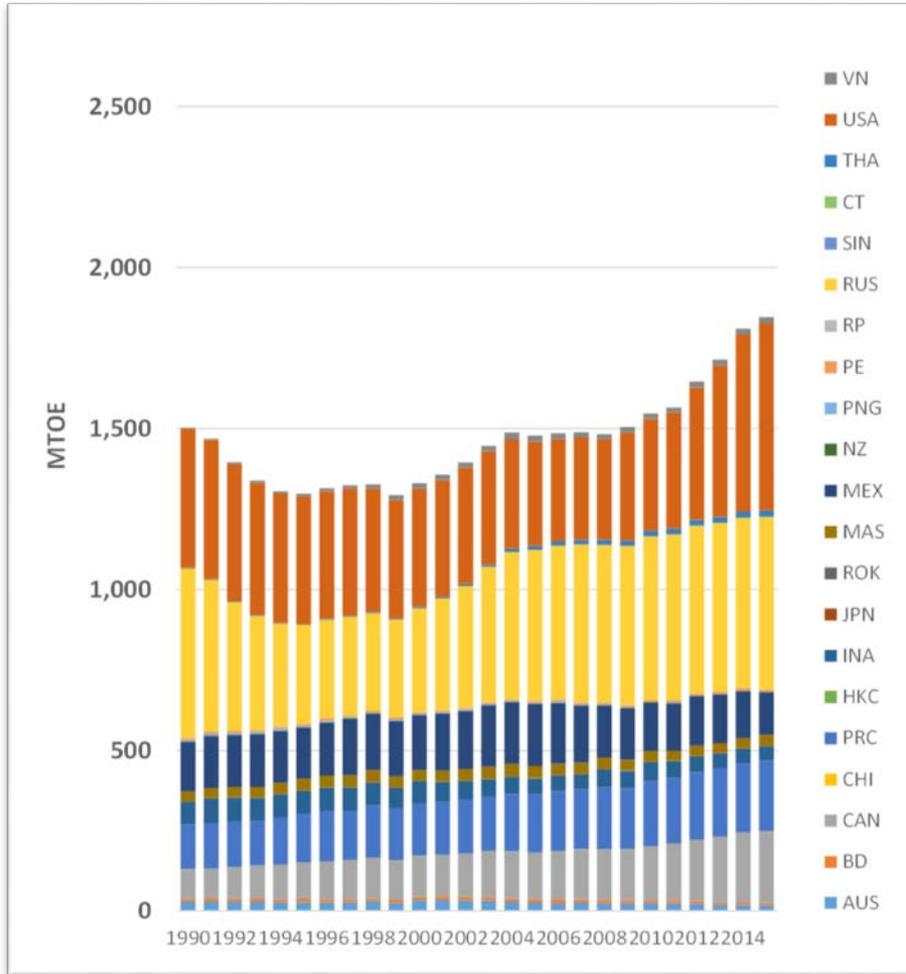
- Indigenous production and refinery output
- Imports and exports
- Stock changes
- Transfers
- Stock closing and stock changes
- Refinery intake and Demand

Monthly data (JODI Gas, million m³ and TJ)

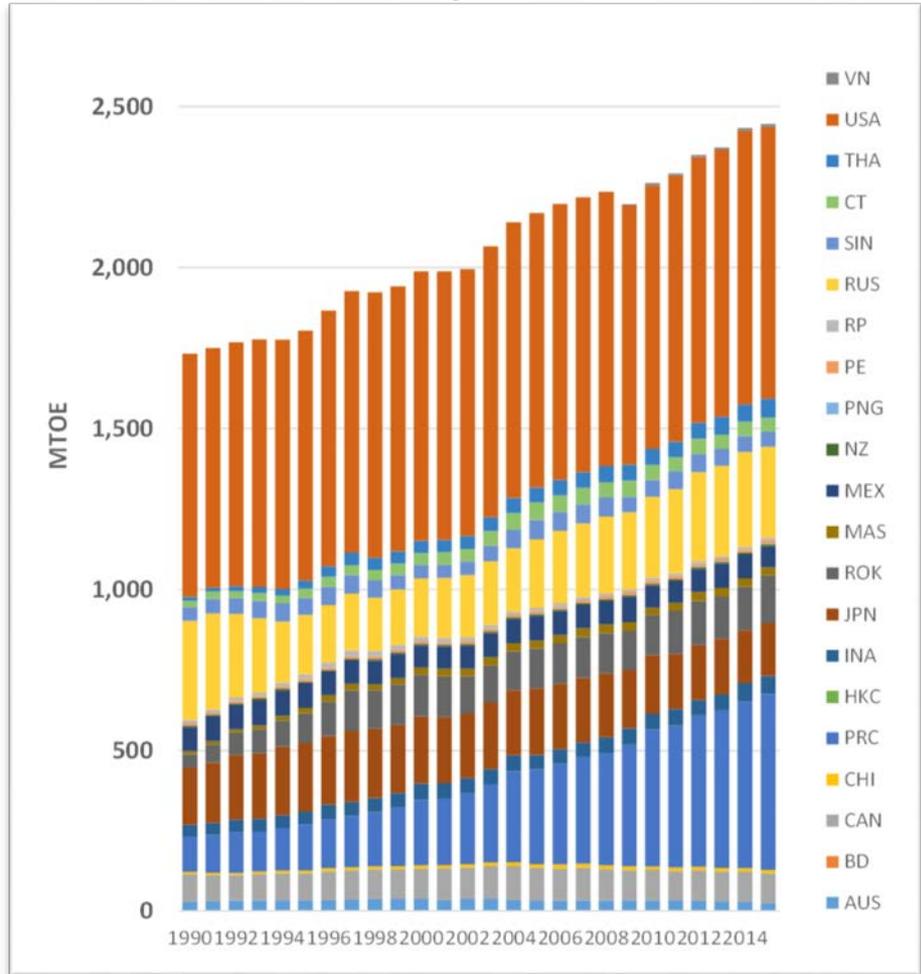
- Indigenous production
- Imports and exports
 - via pipelines and LNG (tons and TJ for LNG)
- Stock closing and stock changes
- Gross inland deliveries (observed)
- Consumption for electricity generation
- Imports/Exports by source/destination

APEC Annual oil data

Indigenous Production



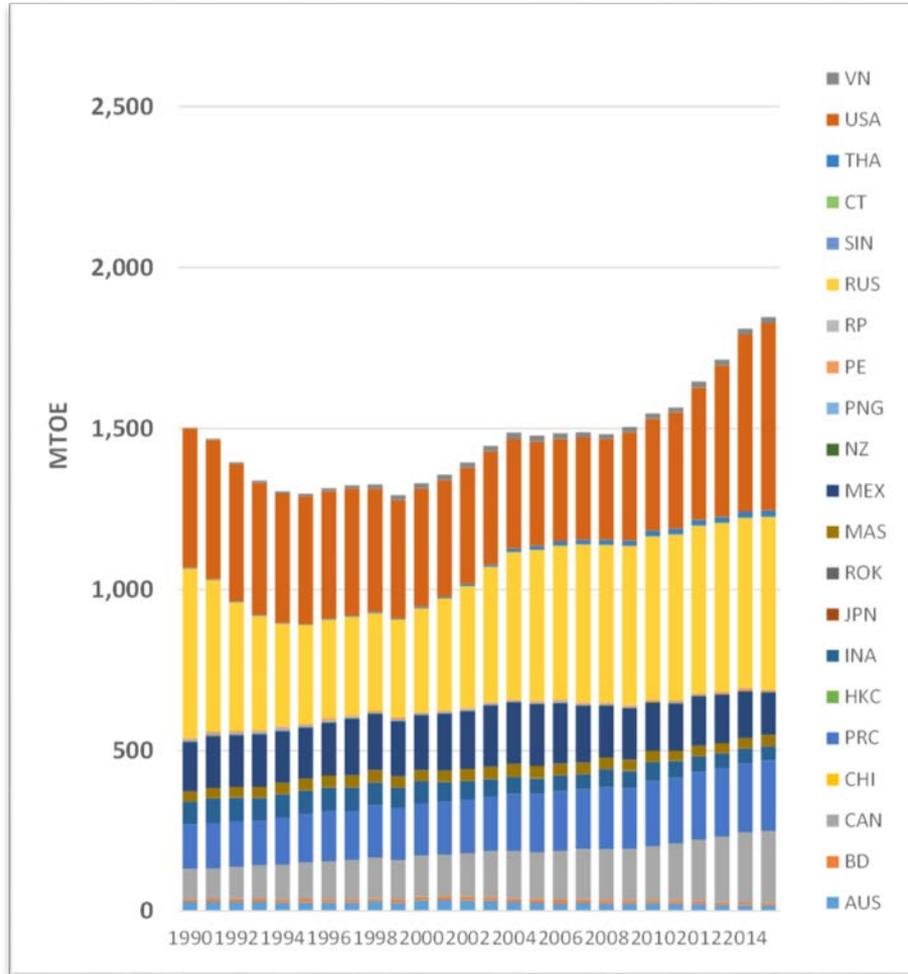
Refinery Intake



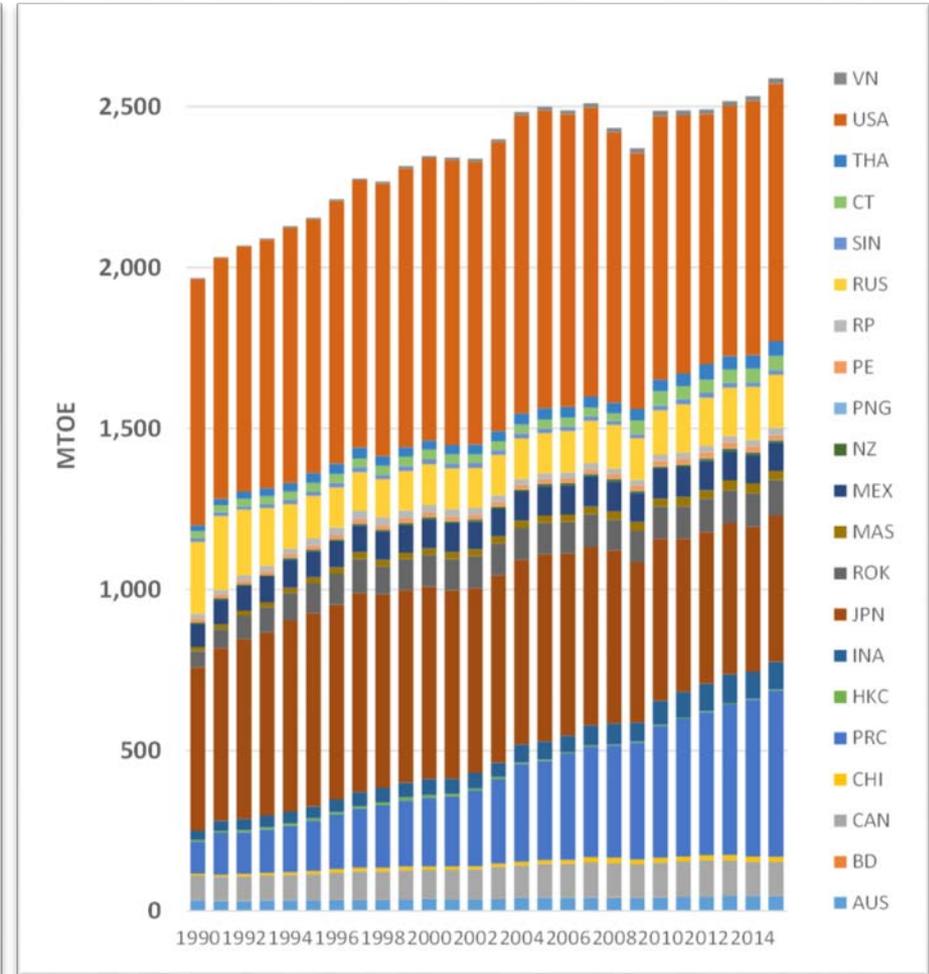
APEC consumes more crude oil that it can produce although some economies are net exporters. China and the US are biggest importers while Russia is a major exporter

Annual oil data

Indigenous Production



Total Consumption



APEC consumes more oil than it can produce. Despite the annual increase in production of 3.2% from 2008 to 2015 and the only 0.9% annual growth in total consumption, only 71% can be met by APEC production in 2015.

Quarterly Supply Data

Dates of submission of data

	2015				2016				2017			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Deadline	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Apr-17	Jul-17	Oct-17	Jan-18	Apr-18
AUS	Sep-15	Sep-15	Jan-16	May-16	Aug-16	Aug-16	Jan-17	Apr-17	Jul-17			
BD	Jul-15	Oct-15	Jan-16	Apr-16	Aug-16	Nov-16	Feb-17	Apr-17	Aug-17	Oct-17		
CAN												
CHI	Oct-15	Oct-15	Jan-16	Apr-16	Feb-17	Feb-17	Feb-17	Apr-17	Apr-17	Oct-17	Jan-18	
PRC	Aug-15	Oct-15	Jan-16	Apr-16	Aug-16	Oct-16	Jan-17	Apr-17	Jul-17			
HKC	Jul-15	Oct-15	Jan-16	Apr-15	Jul-16	Oct-16	Jan-17	Apr-17	Jul-17	Oct-17	Jan-18	
INA												
JPN	Jul-15		Feb-16	Apr-16								
ROK	Jul-15	Oct-15	Feb-16	Apr-16	Aug-16	Oct-16	Jan-17		Aug-17			
MAS												
MEX	May-15	Jul-15	Nov-15	Feb-15	May-16	Sep-16	Jan-17		Jul-17	Oct-17		
NZ	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-17	Oct-17	Oct-17	Oct-17	Oct-17		
PNG												
PE	Aug-16	Aug-16	Aug-16	Aug-16	Aug-16	Nov-16	Jan-17	Apr-17				
RP	Jun-16	Jun-16	Jun-16	Jun-16	Aug-16	Aug-16	Feb-17	May-17				
RUS	Jul-15	Nov-15	Feb-16	Apr-16	Jul-16	Oct-16	Jan-17	Apr-17	Jul-17	Oct-17		
SIN	Jul-15	Oct-15	Jan-16	May-16	Jul-16	Oct-16	Jan-17	Apr-17	Aug-17	Oct-17	Jan-18	
CT	Jul-15	Oct-15	Jan-16	Apr-15	Jul-16			Apr-17	Jul-17		Jan-18	
THA	Jun-15	Aug-15	Jan-16	Apr-16	Oct-16	Oct-16	Jan-16	May-17	Jul-17			
USA	Aug-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Feb-17	May-17	Jul-17	Oct-17		
VN	Aug-15	Aug-15	Jul-16	May-16	Sep-16	Sep-16						

Monthly oil data

JOINT OIL DATA INITIATIVE

Closing minus opening level

Positive number corresponds to stock build, negative number corresponds to stock draw

Country _____

Month _____

Unit : _____

	Crude Oil	NGL	Other	Total (1)+(2)+(3)		Petroleum Products								
						LPG	Naphtha	Gasoline	Total Kerosene	Of which: Jet Kerosene	Gas/ Diesel Oil	Fuel Oil	Other Products	Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12)
	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
+ Production				0	+ Refinery Output									0
+ From Other sources				0	+ Receipts									0
+ Imports				0	+ Imports									0
- Exports				0	- Exports									0
+ Products Transferred /Backflows				0	- Products Transferred									0
- Direct Use				0	+ Interproduct Transfers									0
- Stock Change				0	- Stock Change									0
- Statistical Difference				0	- Statistical Difference									0
= Refinery Intake				0	= Demand									0
Closing stocks				0	Closing stocks									0

Automatic Checks

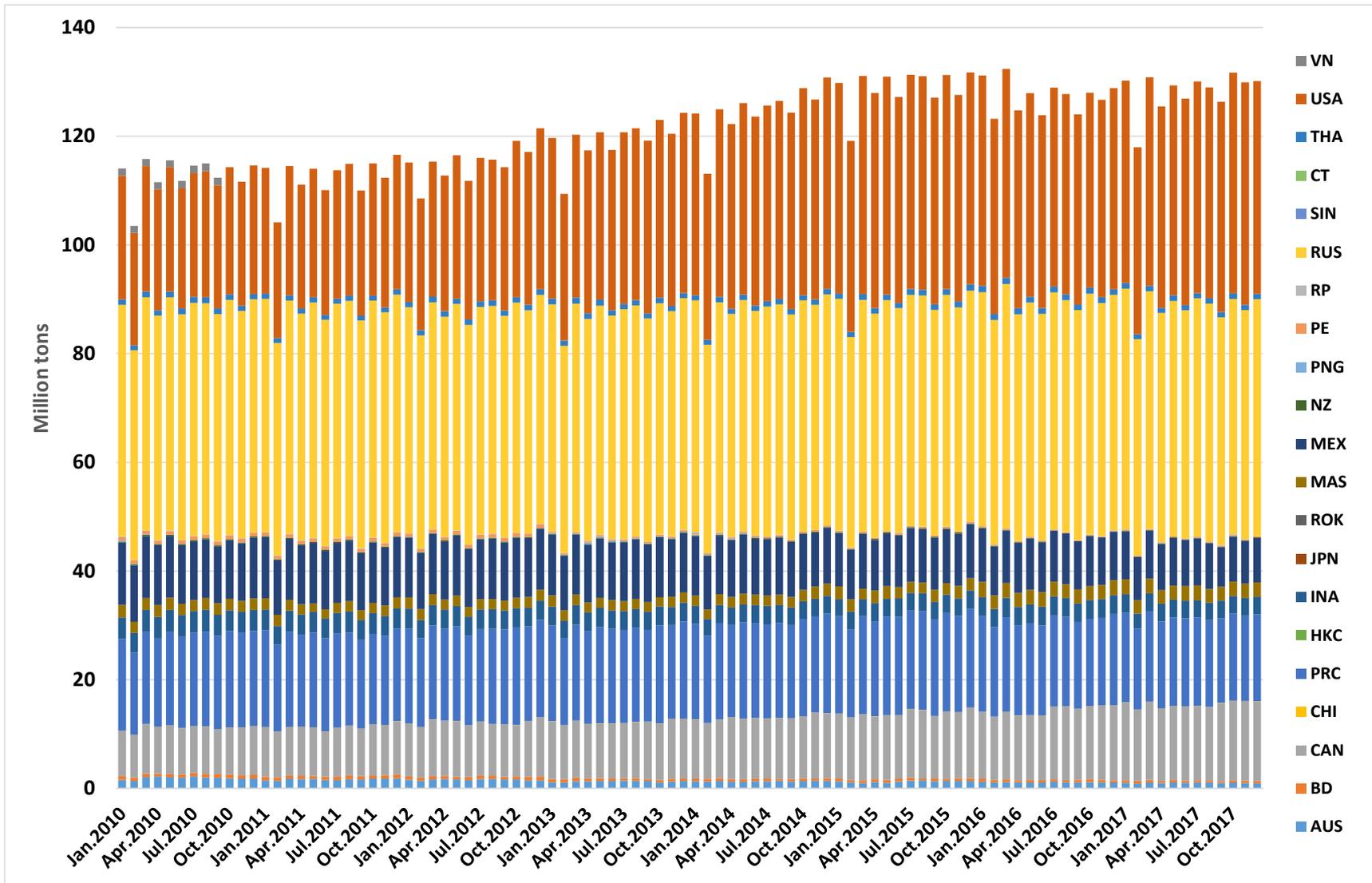
Total sum
 Statistical Difference
 Stat. Diff./Refinery Intake
 Products Transferred
 Negative Products Transferred
 Blocked out cells
 Negative Stock Values
 Refinery Losses

Automatic Checks Petroleum Products

Total Products sum
 Statistical Difference
 Stat. Diff. /Demand
 Negative Products Transferred
 Interproduct transfers
 Jet Kerosene
 Negative Stock Values

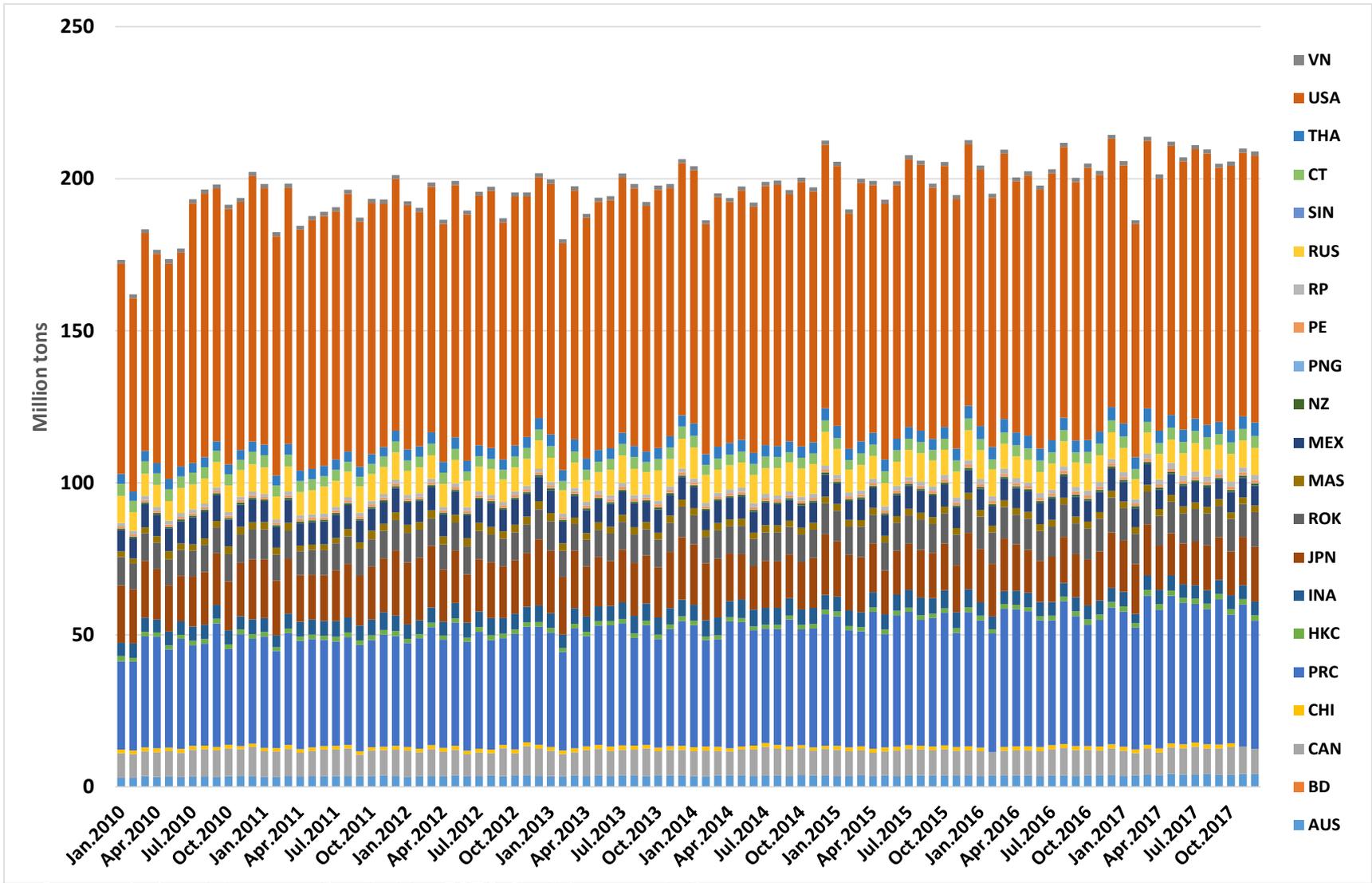
126 data points – 11 products & 9 flows

Monthly oil production data



Note: Some missing data are estimated by ESTO for this presentation

Monthly oil demand data

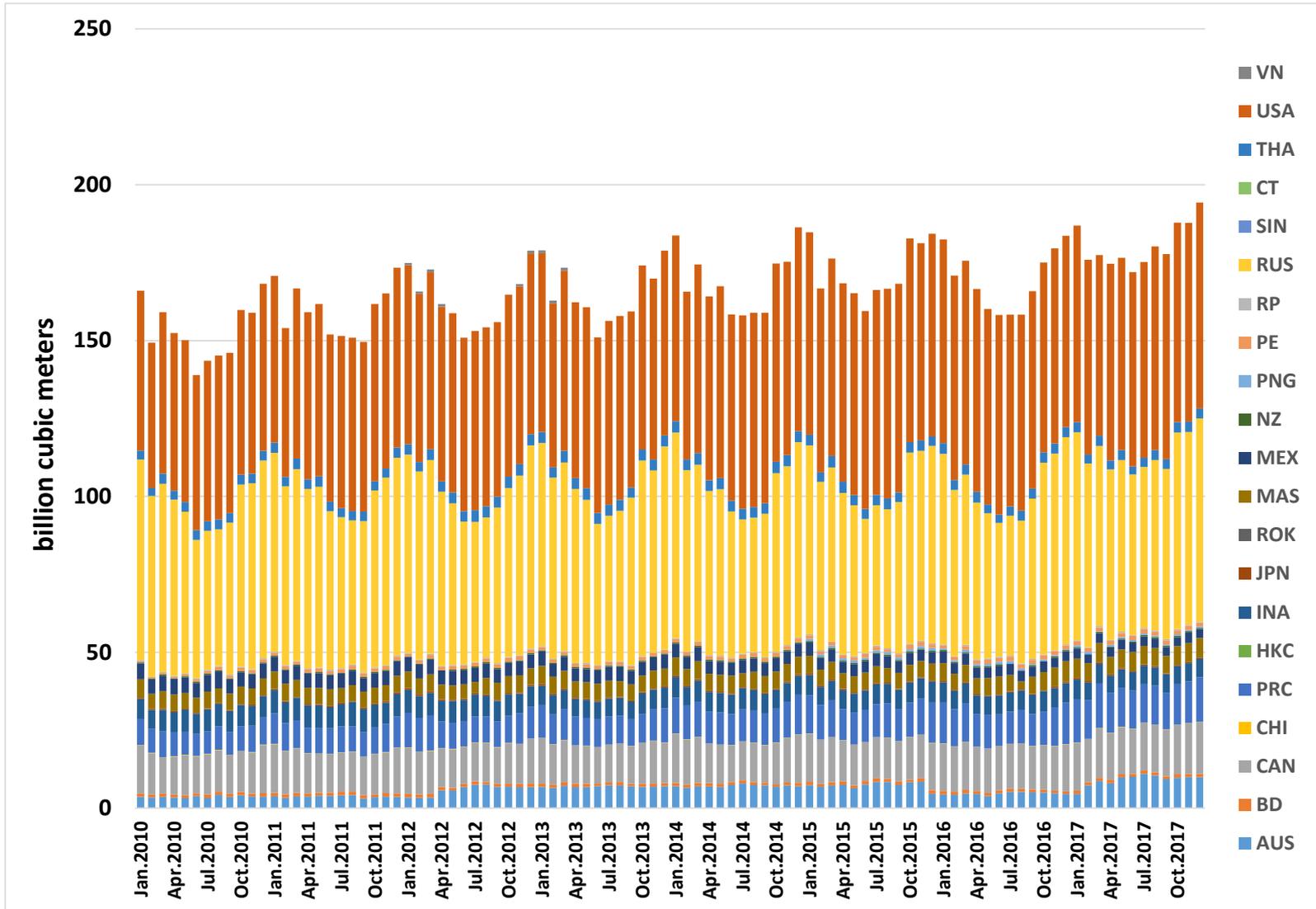


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Monthly gas data

Monthly Gas Data Collection						
Member Economy:						
Month:						
Year:						
	Natural Gas Million m ³ (at 15°C, 760 mm Hg)	Natural Gas TJ (Gross Calor. Value)	of which:LNG 1000 ton	of which:LNG TJ (Gross Calor. Value)	of which: pipeline Million m ³ (at 15°C, 760 mm Hg)	of which: pipeline TJ (Gross Calor. Value)
Indigenous Production						
Imports						
Exports						
Stock Changes (+ or -)						
Gross Inland deliveries (calculated)	0.00	0.00				
Statistical Difference						
Gross Inland deliveries (observed)						
of which: Power Generation						
Total Stocks on National Territory- Opening						
Total Stocks on National Territory- Closing						
AVERAGE GROSS CALORIFIC VALUES:						
	<i>Unit: KJ/cubic m</i>					
	Natural Gas					
Indigenous Production	#DIV/0!					
Imports	#DIV/0!					
Exports	#DIV/0!					
Average	#DIV/0!					
CONVERSION FACTOR OF LNG(MASS TO VOLUM)						
	<i>Unit: cubic m/ton</i>					
	LNG					
CONVERSION FACTOR						

Monthly gas production data



Note: Some missing data are estimated by ESTO for this presentation

The APEC energy database



The APEC energy database can be accessed at:
<http://www.egeda.ewg.apec.org/>

Important notes

Data submission by EGEDA members are not mandatory but fortunately, 20 of 21 all member economies provide annual data

Not all member economies are also able to provide stock level data

Four member economies are not submitting quarterly data and several economies submit after the deadline. Also, several economies are not able to submit complete data

For monthly oil and gas data, one economy had not submitted since October 2010.

The EGEDA secretariat, Energy Statistics and Training Office (ESTO) of the Asia Pacific Energy Research Centre (APERC) will continue to encourage member economies to submit complete and timely data

Should EGCFE need data, please don't hesitate to use the APEC energy database. It can be accessed at: <http://www.egeda.ewg.apec.org>



Thank you for your kind attention

<http://aperc.ieej.or.jp/>

