
A P E C
ENERGY HANDBOOK
2008



ASIA-PACIFIC ECONOMIC COOPERATION

Energy Working Group

November 2010

Coordinating Agency:
The Energy Data and Modelling Center
The Institute of Energy Economics, Japan

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Preface

The APEC Energy Handbook 2008 is a handy, pocket-sized summary of key energy data and a supplement to APEC Energy Statistics 2008 which has been released in November 2010 by the APEC Secretariat in Singapore.

This handbook consists of the following parts:

1. Primary Energy Supply
2. Transformation
3. Final Energy Consumption
4. Energy Balances
5. Energy Outlook
6. Energy Indicators

The Supply part describes Total Primary Energy Supply by energy while Transformation part shows Oil refining and Power Generation. The Consumption part indicates both Final Energy Consumption of commercial energy by Sectors and by Energy. The Energy Balances part includes regional energy balance tables while Outlook part shows projected energy demand by year 2030 which was prepared by Asia Pacific Energy Research Centre as of November 2009. The Energy Indicators part contains several indicators based on Population, GDP and Energy consumption.

This handbook has been derived from the APEC Energy Database, the purpose of which is to establish a comprehensive and consistent energy database within the APEC region. This database will be used to assist in the identification of significant trends in energy supply and demand consistent with projects and priorities under the APEC Energy Working Group. It has been prepared in close cooperation with the twenty-one member economies.

Inquiries about figures and graphs in this handbook could be addressed to The Energy Data and Modelling Center, The Institute of Energy Economics, Japan.

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Regional Coverage

	APEC 21	APEC 20	East Asia	Other East Asia	South- east Asia	Oceania	North America	Latin America
Australia	0	0				0		
Brunei Darussalam	0	0			0			
Canada	0	0					0	
Chile	0	0						0
China	0	0	0					
Hong Kong, China	0	0	0	0				
Indonesia	0	0			0			
Japan	0	0	0					
Republic of Korea	0	0	0	0				
Malaysia	0	0			0			
Mexico	0	0						0
New Zealand	0	0				0		
Papua New Guinea	0	0				0		
Peru	0	0						0
Philippines	0	0			0			
Russia	0							
Singapore	0	0			0			
Chinese Taipei	0	0	0	0				
Thailand	0	0			0			
United States of America	0	0					0	
Viet Nam	0	0			0			

Table of Contents

Primary Energy Supply 2

Transformation18

Final Energy Consumption24

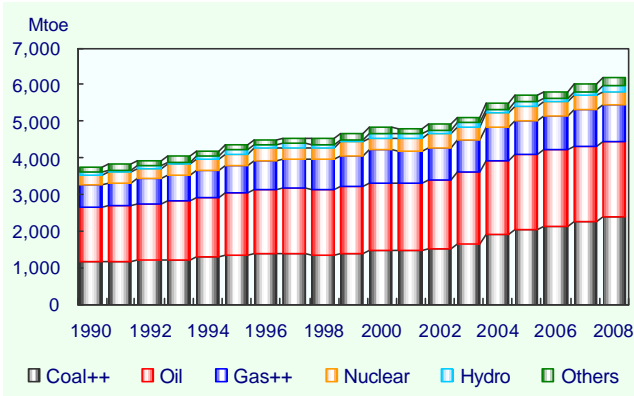
Energy Balances38

Energy Outlook.....60

Energy Indicators62

Glossary68

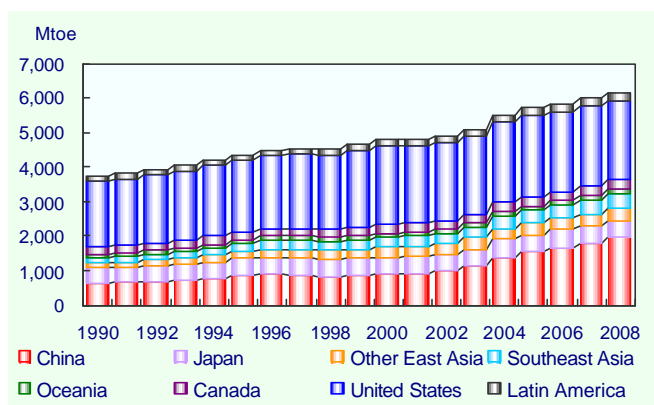
Total Primary Energy Supply by Energy APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	1,169.5	1,356.5	1,448.4	2,034.8	2,241.8	2,379.9
Oil	1,481.3	1,663.1	1,866.5	2,070.0	2,082.1	2,037.3
Gas++	631.9	770.2	883.4	923.2	1,004.4	1,037.0
Nuclear	252.6	318.8	355.1	376.9	381.8	378.8
Hydro	80.0	95.3	96.2	113.3	120.5	131.2
Others	131.2	145.9	162.0	179.9	189.5	199.1
Total	3,746.5	4,349.7	4,811.5	5,698.2	6,020.1	6,163.3

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	31.2	31.2	30.1	35.7	37.2	38.6
Oil	39.5	38.2	38.8	36.3	34.6	33.1
Gas++	16.9	17.7	18.4	16.2	16.7	16.8
Nuclear	6.7	7.3	7.4	6.6	6.3	6.1
Hydro	2.1	2.2	2.0	2.0	2.0	2.1
Others	3.5	3.4	3.4	3.2	3.1	3.2

Total Primary Energy Supply by Region APEC 20

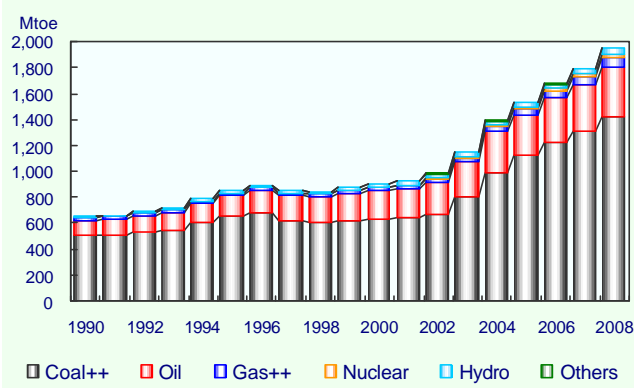


	Mtoe					
	1990	1995	2000	2005	2007	2008
China	653.9	857.7	904.6	1,539.4	1,793.3	1,952.0
Japan	430.6	488.3	506.8	521.2	515.7	508.3
Other East Asia	147.3	216.5	276.0	329.0	348.8	348.0
Southeast Asia	145.3	220.5	284.9	359.7	380.0	422.6
Oceania	101.6	109.3	126.6	134.6	141.9	146.3
Canada	208.7	231.9	252.4	272.3	272.7	267.8
United States	1,916.5	2,069.3	2,275.9	2,327.8	2,345.2	2,291.6
Latin America	142.8	156.1	184.4	214.3	222.5	226.6
APEC 20	3,746.5	4,349.7	4,811.5	5,698.2	6,020.1	6,163.3

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	17.5	19.7	18.8	27.0	29.8	31.7
Japan	11.5	11.2	10.5	9.1	8.6	8.2
Other East Asia	3.9	5.0	5.7	5.8	5.8	5.6
Southeast Asia	3.9	5.1	5.9	6.3	6.3	6.9
Oceania	2.7	2.5	2.6	2.4	2.4	2.4
Canada	5.6	5.3	5.2	4.8	4.5	4.3
United States	51.2	47.6	47.3	40.9	39.0	37.2
Latin America	3.8	3.6	3.8	3.8	3.7	3.7

Primary Energy Supply

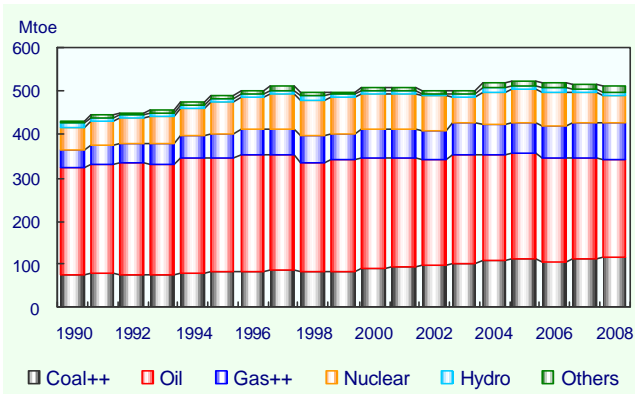
Total Primary Energy Supply by Energy China



	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	512.2	659.2	631.2	1,122.1	1,304.8	1,431.8
Oil	114.3	158.3	224.1	319.1	359.2	370.2
Gas++	14.2	16.7	22.4	44.7	65.8	76.0
Nuclear	-	3.3	4.4	13.8	16.2	17.8
Hydro	10.9	16.4	19.1	34.1	41.7	50.3
Others	2.3	3.8	3.4	5.5	5.5	5.8
Total	653.9	857.7	904.6	1,539.4	1,793.3	1,952.0

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	78.3	76.9	69.8	72.9	72.8	73.3
Oil	17.5	18.5	24.8	20.7	20.0	19.0
Gas++	2.2	1.9	2.5	2.9	3.7	3.9
Nuclear	-	0.4	0.5	0.9	0.9	0.9
Hydro	1.7	1.9	2.1	2.2	2.3	2.6
Others	0.3	0.4	0.4	0.4	0.3	0.3

Total Primary Energy Supply by Energy Japan

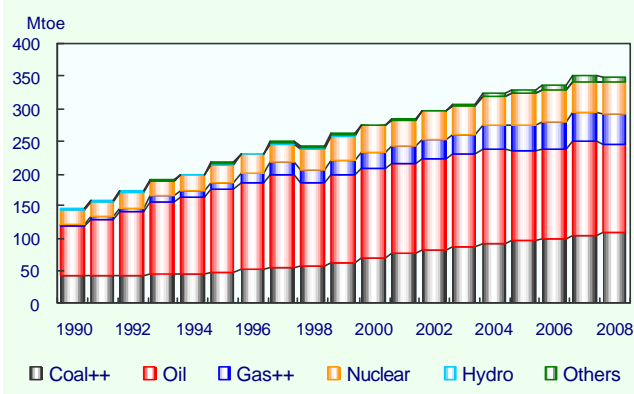


	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	75.6	82.8	91.0	110.8	112.6	117.0
Oil	247.2	265.0	253.4	244.0	229.8	222.4
Gas++	43.5	52.0	64.9	70.9	81.9	84.8
Nuclear	51.0	75.0	83.3	76.4	72.7	65.6
Hydro	7.8	7.1	7.5	7.4	7.3	7.0
Others	5.5	6.4	6.7	11.7	11.3	11.6
Total	430.6	488.3	506.8	521.2	515.7	508.3

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	17.6	17.0	18.0	21.3	21.8	23.0
Oil	57.4	54.3	50.0	46.8	44.6	43.7
Gas++	10.1	10.6	12.8	13.6	15.9	16.7
Nuclear	11.8	15.4	16.4	14.7	14.1	12.9
Hydro	1.8	1.5	1.5	1.4	1.4	1.4
Others	1.3	1.3	1.3	2.2	2.2	2.3

Primary Energy Supply

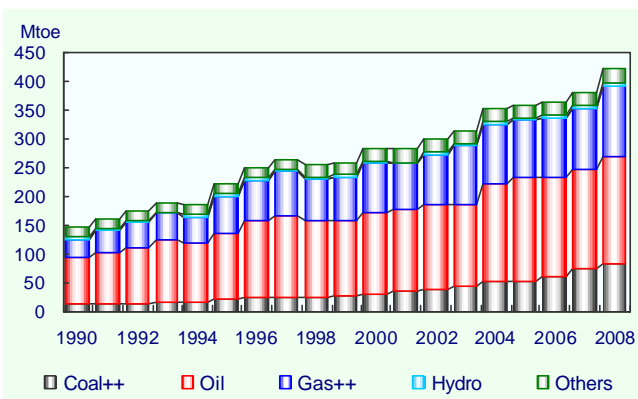
Total Primary Energy Supply by Energy Other East Asia



	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	42.1	48.4	71.1	95.5	104.1	108.6
Oil	76.5	126.7	138.4	139.3	144.7	135.9
Gas++	4.5	12.0	24.6	39.9	44.9	46.4
Nuclear	22.3	26.7	38.4	48.7	47.8	50.0
Hydro	1.3	1.2	1.2	1.1	1.2	1.2
Others	0.6	1.5	2.2	4.4	6.2	5.9
Total	147.3	216.5	276.0	329.0	348.8	348.0

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	28.6	22.4	25.8	29.0	29.8	31.2
Oil	51.9	58.5	50.2	42.4	41.5	39.1
Gas++	3.0	5.5	8.9	12.1	12.9	13.3
Nuclear	15.2	12.3	13.9	14.8	13.7	14.4
Hydro	0.8	0.6	0.5	0.3	0.3	0.3
Others	0.4	0.7	0.8	1.3	1.8	1.7

Total Primary Energy Supply by Energy Southeast Asia

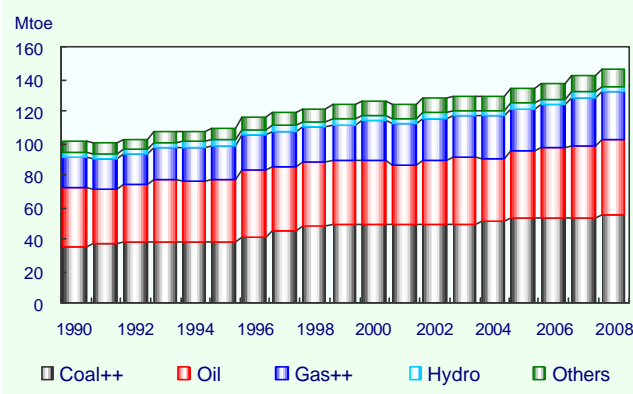


	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	12.8	20.2	30.0	53.4	72.1	81.9
Oil	81.5	113.8	143.7	178.1	176.6	187.2
Gas++	31.4	66.1	84.5	101.1	102.6	122.6
Nuclear	-	-	-	-	-	-
Hydro	2.7	3.7	3.9	4.1	4.9	5.3
Others	16.8	16.7	22.8	23.1	23.7	25.5
Total	145.3	220.5	284.9	359.7	380.0	422.6

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	8.8	9.1	10.5	14.8	19.0	19.4
Oil	56.1	51.6	50.4	49.5	46.5	44.3
Gas++	21.6	30.0	29.7	28.1	27.0	29.0
Nuclear	-	-	-	-	-	-
Hydro	1.9	1.7	1.4	1.2	1.3	1.3
Others	11.6	7.6	8.0	6.4	6.2	6.0

Primary Energy Supply

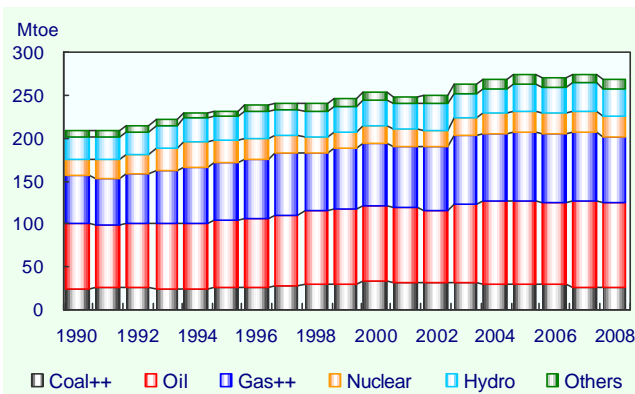
Total Primary Energy Supply by Energy Oceania



	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	36.1	38.7	49.2	52.8	53.5	55.5
Oil	36.2	38.7	40.8	42.8	45.3	47.2
Gas++	19.3	21.0	24.3	26.4	29.8	29.7
Nuclear	-	-	-	-	-	-
Hydro	3.3	3.8	3.6	3.4	3.4	3.0
Others	6.6	7.1	8.7	9.2	10.1	10.9
Total	101.6	109.3	126.6	134.6	141.9	146.3

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	35.6	35.4	38.9	39.2	37.7	37.9
Oil	35.6	35.4	32.2	31.8	31.9	32.3
Gas++	19.0	19.2	19.2	19.6	21.0	20.3
Nuclear	-	-	-	-	-	-
Hydro	3.3	3.5	2.9	2.5	2.4	2.1
Others	6.5	6.5	6.9	6.8	7.1	7.5

Total Primary Energy Supply by Energy Canada

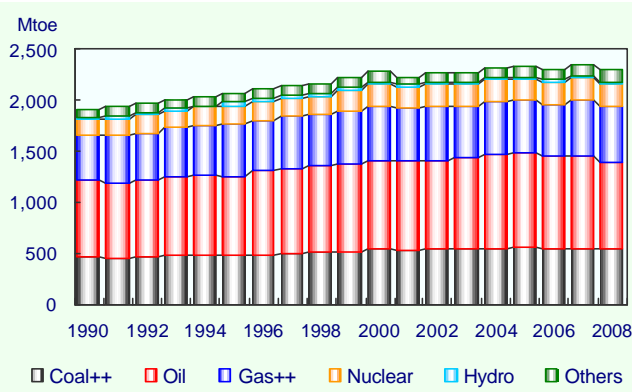


	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	24.3	25.3	31.7	28.8	26.4	26.3
Oil	76.9	78.2	88.0	97.2	99.7	97.0
Gas++	54.7	67.1	74.3	80.6	80.6	77.1
Nuclear	19.0	25.5	19.0	24.0	24.4	24.5
Hydro	25.5	28.9	30.8	31.3	31.9	32.9
Others	8.2	6.9	8.6	10.3	9.7	10.1
Total	208.7	231.9	252.4	272.3	272.7	267.8

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	11.6	10.9	12.5	10.6	9.7	9.8
Oil	36.8	33.7	34.9	35.7	36.6	36.2
Gas++	26.2	28.9	29.4	29.6	29.6	28.8
Nuclear	9.1	11.0	7.5	8.8	8.9	9.1
Hydro	12.2	12.5	12.2	11.5	11.7	12.3
Others	3.9	3.0	3.4	3.8	3.5	3.8

Primary Energy Supply

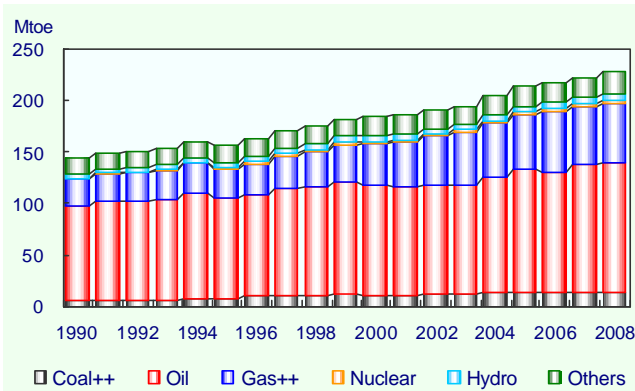
Total Primary Energy Supply by Energy United States of America



	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	460.2	474.0	533.6	558.4	554.8	545.8
Oil	756.8	785.6	871.1	929.2	902.9	850.8
Gas++	438.4	507.4	547.9	507.2	542.7	542.9
Nuclear	159.4	186.0	207.9	211.3	218.0	218.3
Hydro	24.9	29.1	24.1	25.6	23.7	24.3
Others	76.9	87.4	91.4	96.2	103.1	109.5
Total	1,916.5	2,069.3	2,275.9	2,327.8	2,345.2	2,291.6

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	24.0	22.9	23.4	24.0	23.7	23.8
Oil	39.5	38.0	38.3	39.9	38.5	37.1
Gas++	22.9	24.5	24.1	21.8	23.1	23.7
Nuclear	8.3	9.0	9.1	9.1	9.3	9.5
Hydro	1.3	1.4	1.1	1.1	1.0	1.1
Others	4.0	4.2	4.0	4.1	4.4	4.8

Total Primary Energy Supply by Energy Latin America

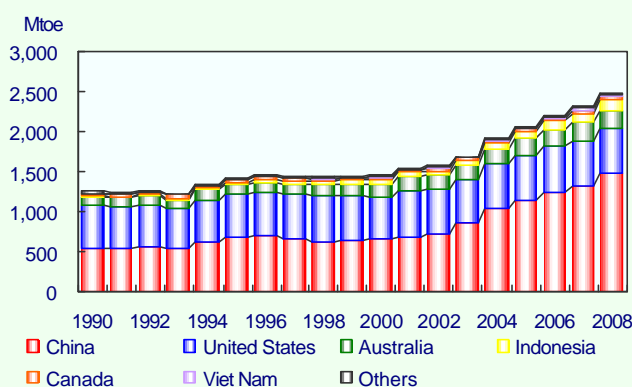


	Mtoe					
	1990	1995	2000	2005	2007	2008
Coal++	6.2	8.0	10.6	13.0	13.4	13.0
Oil	92.0	96.9	107.1	120.3	123.9	126.6
Gas++	25.9	27.9	40.5	52.5	56.2	57.5
Nuclear	0.8	2.2	2.1	2.8	2.7	2.6
Hydro	3.7	5.1	5.9	6.2	6.4	7.2
Others	14.3	16.1	18.2	19.6	19.9	19.8
Total	142.8	156.1	184.4	214.3	222.5	226.6

	Share (%)					
	1990	1995	2000	2005	2007	2008
Coal++	4.3	5.1	5.7	6.1	6.0	5.7
Oil	64.4	62.0	58.1	56.1	55.7	55.8
Gas++	18.1	17.9	22.0	24.5	25.2	25.4
Nuclear	0.5	1.4	1.2	1.3	1.2	1.1
Hydro	2.6	3.3	3.2	2.9	2.9	3.2
Others	10.0	10.3	9.9	9.1	8.9	8.7

Primary Energy Supply

Indigenous Production of Coal APEC 20

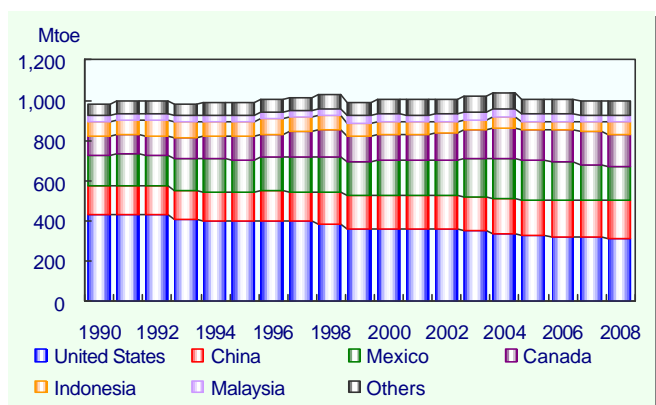


	Mtoe					
	1990	1995	2000	2005	2007	2008
China	540.0	680.4	649.6	1,143.3	1,322.6	1,471.7
United States	542.3	529.8	536.9	565.3	568.5	579.3
Australia	106.1	127.8	164.6	202.0	217.1	218.8
Indonesia	5.8	24.0	44.0	82.8	121.4	134.7
Canada	37.9	40.8	34.4	31.9	34.3	33.6
Viet Nam	2.6	4.7	6.5	18.1	24.2	22.3
Others	24.4	19.6	17.7	17.5	18.6	18.0
APEC 20	1,259.0	1,427.1	1,453.6	2,060.8	2,306.7	2,478.5

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	42.9	47.7	44.7	55.5	57.3	59.4
United States	43.1	37.1	36.9	27.4	24.6	23.4
Australia	8.4	9.0	11.3	9.8	9.4	8.8
Indonesia	0.5	1.7	3.0	4.0	5.3	5.4
Canada	3.0	2.9	2.4	1.5	1.5	1.4
Viet Nam	0.2	0.3	0.4	0.9	1.0	0.9
Others	1.9	1.4	1.2	0.9	0.8	0.7

Coal: Hard Coal, Anthracite and Lignite

Indigenous Production of Crude Oil APEC 20

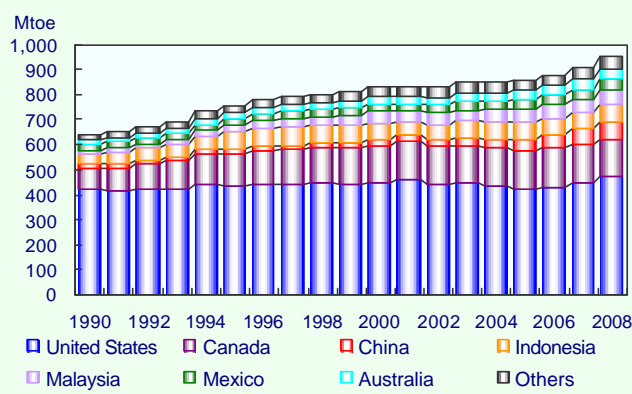


	Mtoe					
	1990	1995	2000	2005	2007	2008
United States	432.5	397.9	365.6	322.5	317.5	312.9
China	138.4	150.0	163.0	181.4	186.3	195.1
Mexico	152.8	155.3	171.1	197.2	179.4	163.1
Canada	94.5	113.9	128.9	148.0	162.5	161.0
Indonesia	70.7	72.9	69.0	48.1	46.1	55.3
Malaysia	30.6	35.1	33.8	36.7	34.5	35.5
Others	57.0	61.6	76.7	73.3	74.2	73.2
APEC 20	976.6	986.6	1,008.2	1,007.4	1,000.5	996.0

	Share (%)					
	1990	1995	2000	2005	2007	2008
United States	44.3	40.3	36.3	32.0	31.7	31.4
China	14.2	15.2	16.2	18.0	18.6	19.6
Mexico	15.6	15.7	17.0	19.6	17.9	16.4
Canada	9.7	11.5	12.8	14.7	16.2	16.2
Indonesia	7.2	7.4	6.8	4.8	4.6	5.6
Malaysia	3.1	3.6	3.4	3.6	3.4	3.6
Others	5.8	6.2	7.6	7.3	7.4	7.3

Crude Oil includes NGL and condensate

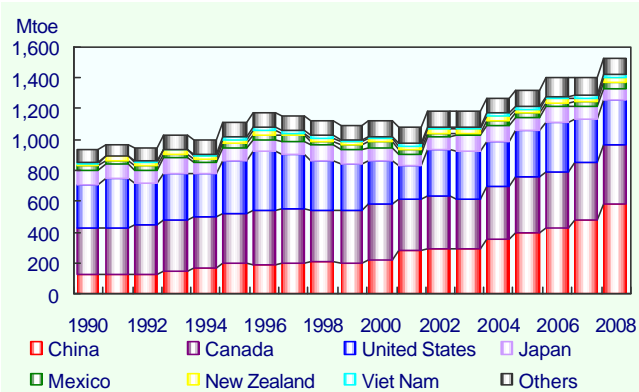
Indigenous Production of Natural Gas APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
United States	418.2	434.6	446.9	421.6	449.9	472.8
Canada	88.6	130.3	148.4	154.1	151.4	143.8
China	14.2	16.7	25.3	47.4	64.5	74.8
Indonesia	41.0	68.0	65.8	68.7	63.5	72.6
Malaysia	15.5	26.7	44.8	52.0	51.0	57.0
Mexico	22.8	24.1	31.3	36.0	42.2	41.2
Australia	17.7	25.3	28.4	35.2	39.0	39.4
Others	22.8	28.2	39.1	46.2	47.0	51.4
APEC 20	640.9	753.9	830.0	861.2	908.4	953.0

	Share (%)					
	1990	1995	2000	2005	2007	2008
United States	65.3	57.6	53.8	48.9	49.5	49.6
Canada	13.8	17.3	17.9	17.9	16.7	15.1
China	2.2	2.2	3.1	5.5	7.1	7.8
Indonesia	6.4	9.0	7.9	8.0	7.0	7.6
Mexico	3.6	3.2	3.8	4.2	4.6	4.3
Malaysia	2.4	3.5	5.4	6.0	5.6	6.0
Australia	2.8	3.4	3.4	4.1	4.3	4.1
Others	3.6	3.7	4.7	5.4	5.2	5.4

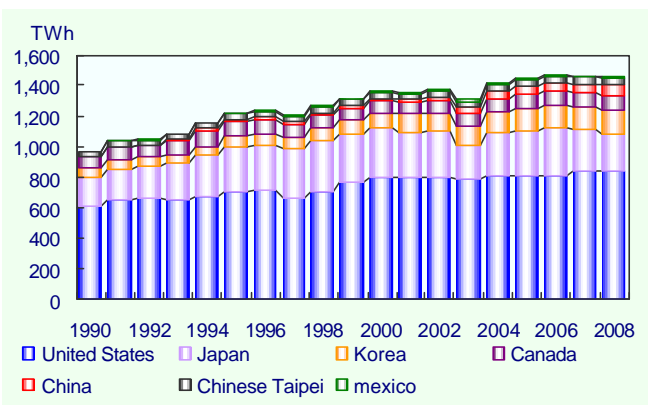
Indigenous Production of Hydro Power APEC 20



	TWh					
	1990	1995	2000	2005	2007	2008
China	126.7	190.6	222.4	397.0	485.3	585.2
Canada	296.8	336.0	358.6	363.7	370.8	382.6
United States	289.0	337.9	280.0	297.9	275.5	282.0
Japan	91.0	82.8	87.0	87.1	85.0	81.6
Mexico	23.5	27.5	33.1	27.7	27.3	39.2
New Zealand	23.2	27.5	24.4	23.3	23.6	22.3
Viet Nam	5.4	10.6	14.6	17.5	22.9	26.0
Others	74.9	95.2	98.3	104.5	105.5	105.7
APEC 20	930.5	1,108.1	1,118.3	1,318.7	1,396.0	1,524.6

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	13.6	17.2	19.9	30.1	34.8	38.4
Canada	31.9	30.3	32.1	27.6	26.6	25.1
United States	31.1	30.5	25.0	22.6	19.7	18.5
Japan	9.8	7.5	7.8	6.6	6.1	5.4
Mexico	2.5	2.5	3.0	2.1	2.0	2.6
New Zealand	2.5	2.5	2.2	1.8	1.7	1.5
Viet Nam	0.6	1.0	1.3	1.3	1.6	1.7
Others	8.1	8.6	8.8	7.9	7.6	6.9

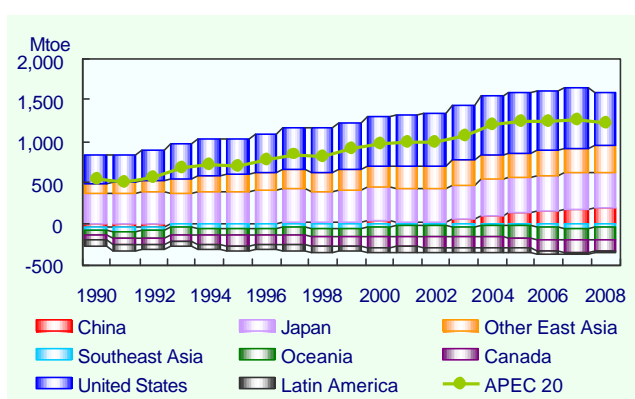
Indigenous Production of Nuclear Power APEC 20



	TWh					
	1990	1995	2000	2005	2007	2008
United States	611.6	713.8	797.7	810.7	836.6	837.8
Japan	195.8	287.9	319.8	293.0	279.0	251.7
Korea	52.9	67.0	109.0	146.8	142.9	151.0
Canada	73.0	97.8	72.8	92.0	93.5	94.0
China	-	12.8	16.7	53.1	62.1	68.4
Chinese Taipei	32.9	35.3	38.5	40.0	40.5	40.8
Mexico	2.9	8.4	8.2	10.8	10.4	9.8
Others	-	-	-	-	-	-
APEC 20	969.0	1,223.1	1,362.7	1,446.4	1,465.2	1,453.5

	Share (%)					
	1990	1995	2000	2005	2007	2008
United States	63.1	58.4	58.5	56.0	57.1	57.6
Japan	20.2	23.5	23.5	20.3	19.0	17.3
Korea	5.5	5.5	8.0	10.1	9.8	10.4
Canada	7.5	8.0	5.3	6.4	6.4	6.5
China	-	1.0	1.2	3.7	4.2	4.7
Chinese Taipei	3.4	2.9	2.8	2.8	2.8	2.8
Mexico	0.3	0.7	0.6	0.7	0.7	0.7
Others	-	-	-	-	-	-

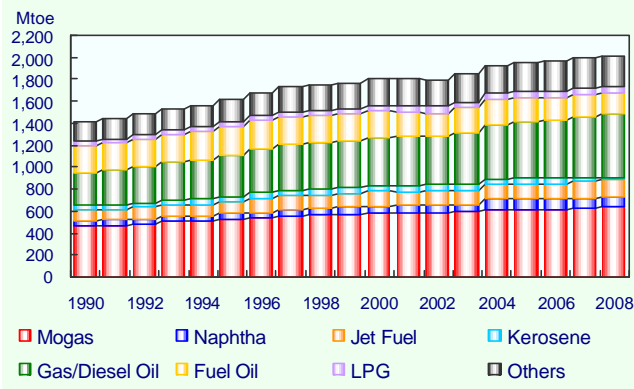
Net Import by Region APEC 20



	1990	1995	2000	2005	2007	Mtoe 2008
Australia	-64.5	-89.2	-127.1	-147.8	-154.7	-158.3
Brunei Darussalam	-12.9	-14.6	-14.8	-19.3	-16.9	-16.9
Canada	-59.3	-119.6	-127.6	-133.7	-150.8	-144.2
Chile	7.0	10.7	16.2	21.3	23.5	23.1
China	-30.5	-8.9	32.4	137.4	176.3	193.0
Hong Kong, China	10.8	14.3	18.2	23.4	27.1	24.9
Indonesia	-65.9	-85.2	-82.4	-73.9	-106.9	-115.1
Japan	361.6	394.0	406.8	430.7	428.4	433.7
Korea	70.1	134.8	165.0	175.5	190.3	195.1
Malaysia	-25.4	-28.3	-27.4	-30.6	-24.1	-17.6
Mexico	-69.9	-68.9	-71.6	-80.2	-63.0	-44.2
New Zealand	2.1	3.0	3.4	4.9	4.3	3.0
Papua New Guinea	-3.7	-4.0	-2.7	-1.2	-0.1	-0.4
Peru	-0.6	1.8	3.3	2.8	3.7	3.4
Philippines	11.9	17.7	20.0	17.0	17.1	16.7
Singapore	22.9	31.9	40.2	50.9	55.1	59.6
Chinese Taipei	39.4	55.7	76.4	96.4	102.1	98.1
Thailand	18.2	32.6	34.6	48.2	49.4	48.2
United States	341.9	433.4	606.4	736.1	713.5	634.1
Viet Nam	-0.2	-4.7	-9.8	-17.7	-19.1	-10.6
APEC 20	553.2	706.5	959.5	1,240.3	1,255.1	1,225.5

Primary Energy Supply

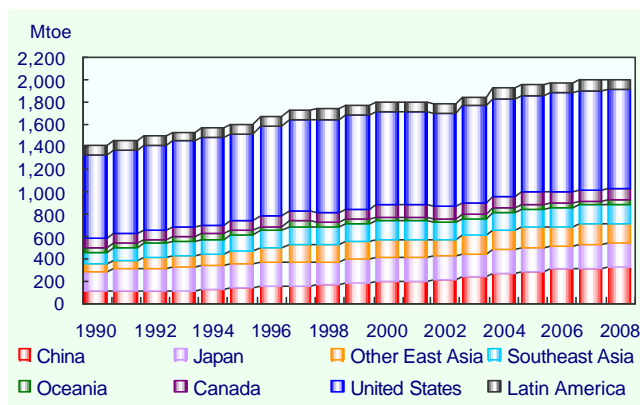
Refining of Petroleum Products by Fuel APEC 20



	1990	1995	2000	2005	2007	Mtoe 2008
Mogas	462.0	519.2	571.9	608.2	622.4	633.4
Naphtha	38.2	51.1	65.7	99.3	100.8	92.5
Jet Fuel	104.8	113.2	134.2	143.0	145.7	154.0
Kerosene	38.9	45.5	54.2	45.5	35.6	32.6
Gas/Diesel Oil	302.6	370.7	445.8	519.3	550.2	571.8
Fuel Oil	244.5	263.6	242.4	224.8	205.1	188.1
LPG	35.0	45.7	54.0	58.9	65.2	65.0
Others	189.3	199.4	239.1	257.5	271.2	265.9
Total	1,415.2	1,608.4	1,807.4	1,956.4	1,996.3	2,003.2

	1990	1995	2000	2005	2007	Share (%) 2008
Mogas	32.6	32.3	31.6	31.1	31.2	31.6
Naphtha	2.7	3.2	3.6	5.1	5.0	4.6
Jet Fuel	7.4	7.0	7.4	7.3	7.3	7.7
Kerosene	2.7	2.8	3.0	2.3	1.8	1.6
Gas/Diesel Oil	21.4	23.0	24.7	26.5	27.6	28.5
Fuel Oil	17.3	16.4	13.4	11.5	10.3	9.4
LPG	2.5	2.8	3.0	3.0	3.3	3.2
Others	13.4	12.4	13.2	13.2	13.6	13.3

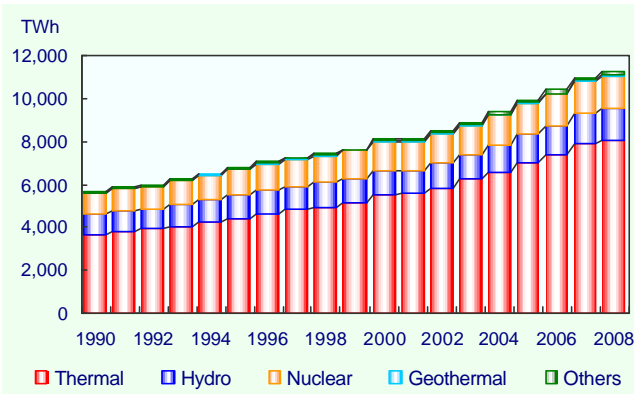
Refining of Petroleum Products by Region APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
China	107.4	140.6	198.1	284.2	319.1	331.4
Japan	178.5	211.9	215.6	217.7	210.2	206.6
Other East Asia	62.7	118.2	165.1	177.9	179.9	178.3
Southeast Asia	109.8	142.6	154.8	165.7	167.5	165.9
Oceania	37.0	41.2	43.5	40.8	39.3	39.2
Canada	86.7	86.2	96.5	105.1	107.0	102.8
United States	753.8	783.3	849.1	874.7	883.8	890.7
Latin America	79.3	84.4	84.6	90.4	89.3	88.3
APEC 20	1,415.2	1,608.4	1,807.4	1,956.4	1,996.3	2,003.2

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	7.6	8.7	11.0	14.5	16.0	16.5
Japan	12.6	13.2	11.9	11.1	10.5	10.3
Other East Asia	4.4	7.3	9.1	9.1	9.0	8.9
Southeast Asia	7.8	8.9	8.6	8.5	8.4	8.3
Oceania	2.6	2.6	2.4	2.1	2.0	2.0
Canada	6.1	5.4	5.3	5.4	5.4	5.1
United States	53.3	48.7	47.0	44.7	44.3	44.5
Latin America	5.6	5.2	4.7	4.6	4.5	4.4

Electricity Power Generation by Type APEC 20

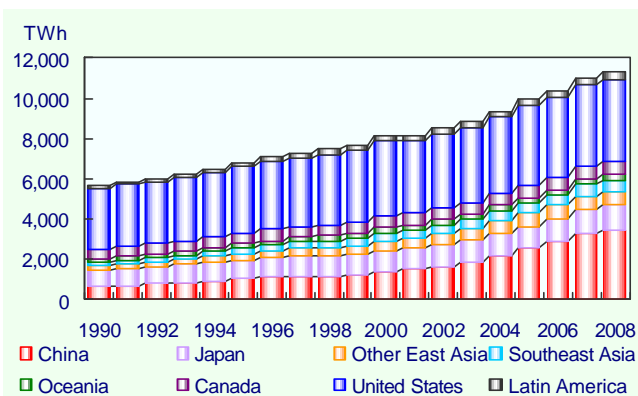


	TWh					
	1990	1995	2000	2005	2007	2008
Thermal	3,677.4	4,364.0	5,506.8	7,007.4	7,913.1	8,032.1
Hydro	930.5	1,108.1	1,118.3	1,318.7	1,396.0	1,524.6
Nuclear	969.0	1,223.1	1,362.7	1,446.4	1,465.2	1,453.5
Geothermal	31.4	34.0	43.3	47.0	48.1	50.2
Others	49.3	56.0	65.7	125.2	160.1	197.7
Total	5,657.7	6,785.3	8,096.8	9,944.8	10,982.4	11,257.9

	Share (%)					
	1990	1995	2000	2005	2007	2008
Thermal	65.0	64.3	68.0	70.5	72.1	71.3
Hydro	16.4	16.3	13.8	13.3	12.7	13.5
Nuclear	17.1	18.0	16.8	14.5	13.3	12.9
Geothermal	0.6	0.5	0.5	0.5	0.4	0.4
Others	0.9	0.8	0.8	1.3	1.5	1.8

"Others" comprises power generated from renewable energy.

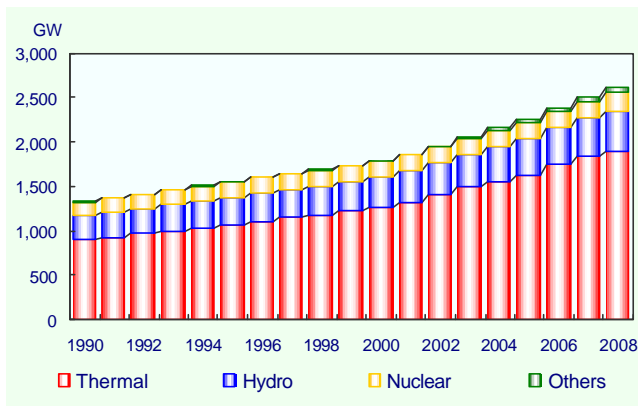
Electricity Power Generation by Region APEC 20



	TWh					
	1990	1995	2000	2005	2007	2008
China	621.2	1,007.7	1,353.3	2,497.9	3,281.6	3,466.9
Japan	833.6	963.1	1,072.5	1,153.1	1,179.0	1,179.7
Other East Asia	215.4	314.2	473.1	620.8	679.6	688.4
Southeast Asia	156.7	289.9	393.2	498.4	558.1	587.1
Oceania	187.1	208.9	248.0	274.8	281.6	287.2
Canada	481.8	554.0	595.5	615.7	632.2	644.5
United States	3,014.5	3,257.9	3,703.9	3,962.6	4,018.3	4,051.3
Latin America	147.4	189.5	257.1	321.6	352.0	352.8
APEC 20	5,657.7	6,785.3	8,096.8	9,944.8	10,982.4	11,257.9

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	11.0	14.9	16.7	25.1	29.9	30.8
Japan	14.7	14.2	13.2	11.6	10.7	10.5
Other East Asia	3.8	4.6	5.8	6.2	6.2	6.1
Southeast Asia	2.8	4.3	4.9	5.0	5.1	5.2
Oceania	3.3	3.1	3.1	2.8	2.6	2.6
Canada	8.5	8.2	7.4	6.2	5.8	5.7
United States	53.3	48.0	45.7	39.8	36.6	36.0
Latin America	2.6	2.8	3.2	3.2	3.2	3.1

Power Generation Capacity by Type APEC 20

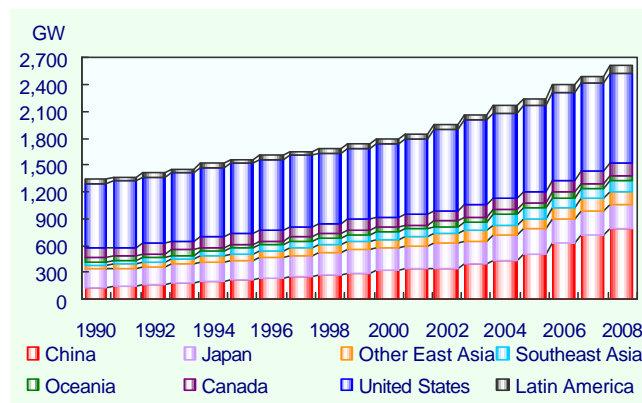


	GW					
	1990	1995	2000	2005	2007	2008
Thermal	905.3	1,065.3	1,258.1	1,638.1	1,839.3	1,900.6
Hydro	264.3	308.6	344.4	392.7	427.2	454.6
Nuclear	158.3	174.4	176.0	192.1	196.2	196.6
Others	8.4	8.2	10.6	27.8	40.2	58.6
Total	1,336.2	1,556.6	1,789.1	2,250.7	2,502.9	2,610.5

	Share (%)					
	1990	1995	2000	2005	2007	2008
Thermal	67.8	68.4	70.3	72.8	73.5	72.8
Hydro	19.8	19.8	19.2	17.4	17.1	17.4
Nuclear	11.8	11.2	9.8	8.5	7.8	7.5
Others	0.6	0.5	0.6	1.2	1.6	2.2

"Others" comprises power generated from renewable energy.

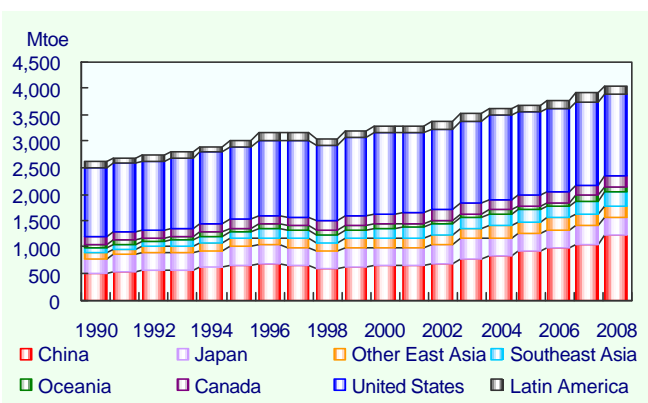
Power Generation Capacity by Region APEC 20



	GW					
	1990	1995	2000	2005	2007	2008
China	137.9	217.2	319.3	508.4	713.3	792.5
Japan	194.7	227.0	258.8	274.6	275.5	275.6
Other East Asia	46.2	64.2	92.6	121.5	131.9	138.9
Southeast Asia	37.0	59.8	82.1	115.4	121.7	120.1
Oceania	46.1	50.6	55.2	59.9	63.1	65.4
Canada	104.1	115.5	111.3	122.8	126.4	127.6
United States	733.6	776.3	812.6	978.5	995.9	1,011.6
Latin America	36.5	46.0	57.0	69.6	75.1	78.7
APEC 19	1,336.2	1,556.6	1,789.1	2,250.7	2,502.9	2,610.5

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	10.3	14.0	17.8	22.6	28.5	30.4
Japan	14.6	14.6	14.5	12.2	11.0	10.6
Other East Asia	3.5	4.1	5.2	5.4	5.3	5.3
Southeast Asia	2.8	3.8	4.6	5.1	4.9	4.6
Oceania	3.5	3.3	3.1	2.7	2.5	2.5
Canada	7.8	7.4	6.2	5.5	5.0	4.9
United States	54.9	49.9	45.4	43.5	39.8	38.8
Latin America	2.7	3.0	3.2	3.1	3.0	3.0

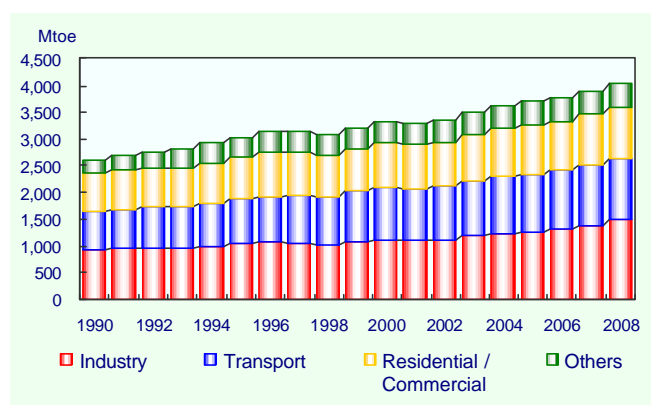
Total Final Energy Consumption by Region APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
China	489.8	660.4	634.1	903.6	1,051.5	1,218.8
Japan	303.1	337.4	357.5	356.8	346.6	335.7
Other East Asia	98.9	148.8	187.2	209.0	221.5	218.0
Southeast Asia	94.2	140.7	172.3	223.2	248.4	267.7
Oceania	66.4	73.8	83.2	88.1	89.0	90.1
Canada	159.0	173.6	189.2	202.9	205.3	202.2
United States	1,291.6	1,376.8	1,545.6	1,572.4	1,587.7	1,551.7
Latin America	99.8	112.4	128.1	138.1	150.6	152.6
APEC 20	2,602.8	3,023.9	3,297.2	3,694.2	3,900.5	4,036.8

	Share (%)					
	1990	1995	2000	2005	2007	2008
China	18.8	21.8	19.2	24.5	27.0	30.2
Japan	11.6	11.2	10.8	9.7	8.9	8.3
Other East Asia	3.8	4.9	5.7	5.7	5.7	5.4
Southeast Asia	3.6	4.7	5.2	6.0	6.4	6.6
Oceania	2.5	2.4	2.5	2.4	2.3	2.2
Canada	6.1	5.7	5.7	5.5	5.3	5.0
United States	49.6	45.5	46.9	42.6	40.7	38.4
Latin America	3.8	3.7	3.9	3.7	3.9	3.8

Total Final Energy Consumption by Sector APEC 20

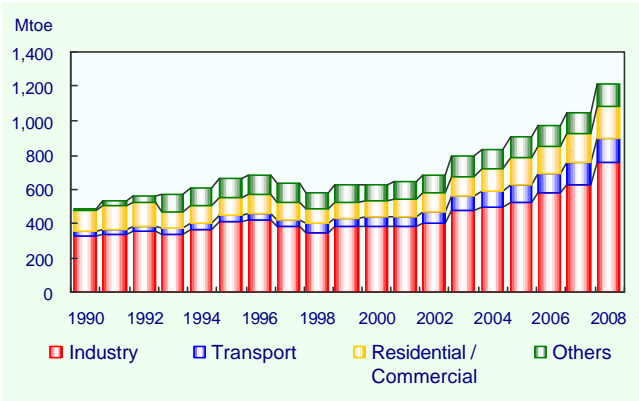


	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	921.5	1,039.0	1,119.8	1,240.7	1,370.1	1,499.2
Transport	740.2	843.3	963.5	1,089.4	1,128.8	1,122.1
Residential / Commercial	698.4	778.1	834.5	927.9	944.3	970.8
Others	242.7	363.4	379.6	436.2	457.3	444.7
Total	2,602.8	3,023.9	3,297.2	3,694.2	3,900.5	4,036.8

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	35.4	34.4	34.0	33.6	35.1	37.1
Transport	28.4	27.9	29.2	29.5	28.9	27.8
Residential / Commercial	26.8	25.7	25.3	25.1	24.2	24.0
Others	9.3	12.0	11.5	11.8	11.7	11.0

Final Energy Consumption

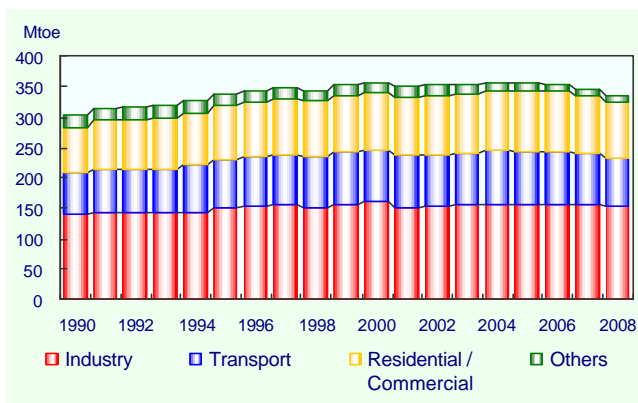
Total Final Energy Consumption by Sector China



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	329.8	410.0	379.3	527.9	628.0	754.2
Transport	28.6	36.1	59.5	105.0	126.2	145.3
Residential / Commercial	118.4	107.0	96.0	153.4	169.2	190.6
Others	13.0	107.3	99.3	117.4	128.0	128.7
Total	489.8	660.4	634.1	903.6	1,051.5	1,218.8

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	67.3	62.1	59.8	58.4	59.7	61.9
Transport	5.8	5.5	9.4	11.6	12.0	11.9
Residential / Commercial	24.2	16.2	15.1	17.0	16.1	15.6
Others	2.6	16.2	15.7	13.0	12.2	10.6

Total Final Energy Consumption by Sector Japan

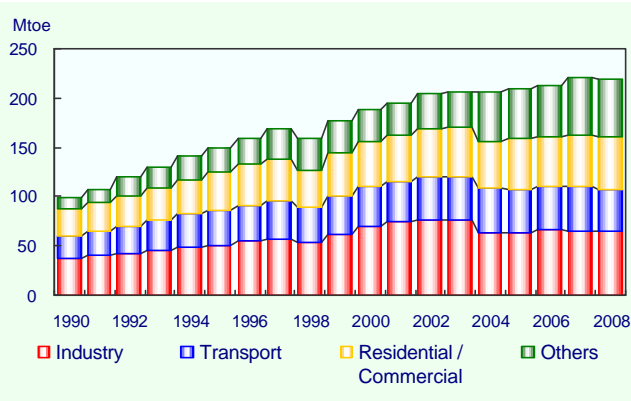


	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	140.8	150.4	160.7	156.2	156.7	152.5
Transport	68.1	78.8	84.5	86.5	84.0	80.5
Residential / Commercial	74.7	89.2	95.5	100.2	94.0	92.0
Others	19.6	19.0	16.8	13.9	11.9	10.7
Total	303.1	337.4	357.5	356.8	346.6	335.7

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	46.4	44.6	45.0	43.8	45.2	45.4
Transport	22.5	23.4	23.6	24.2	24.2	24.0
Residential / Commercial	24.6	26.4	26.7	28.1	27.1	27.4
Others	6.5	5.6	4.7	3.9	3.4	3.2

Final Energy Consumption

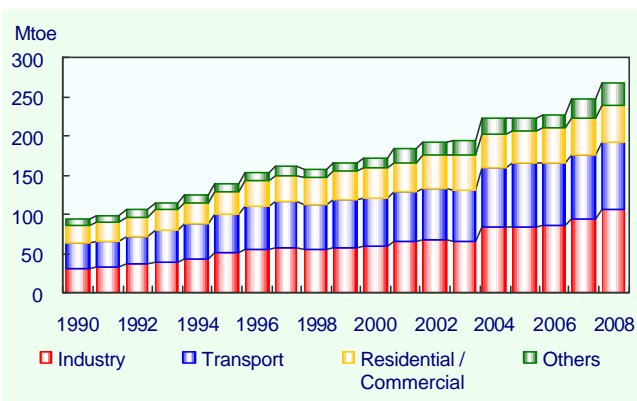
Total Final Energy Consumption by Sector Other East Asia



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	36.5	50.6	68.9	63.2	65.2	65.0
Transport	22.5	35.8	40.6	44.2	44.7	42.4
Residential / Commercial	28.7	37.6	44.7	50.8	52.1	52.6
Others	11.4	24.8	33.0	50.9	59.5	58.0
Total	98.9	148.8	187.2	209.0	221.5	218.0

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	36.9	34.0	36.8	30.2	29.4	29.8
Transport	22.7	24.1	21.7	21.1	20.2	19.4
Residential / Commercial	29.0	25.3	23.9	24.3	23.5	24.1
Others	11.5	16.7	17.6	24.4	26.8	26.6

Total Final Energy Consumption by Sector Southeast Asia

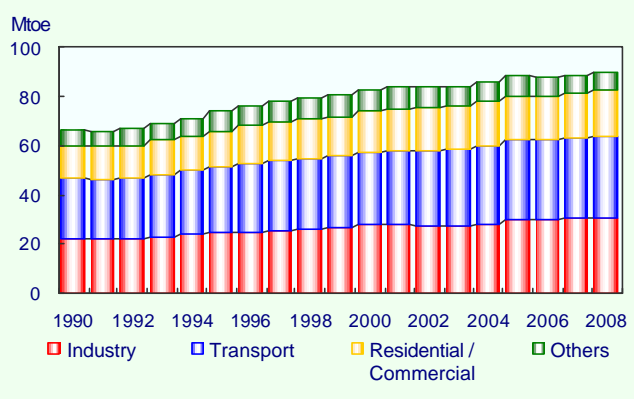


	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	31.5	51.1	60.8	83.5	94.9	106.8
Transport	31.8	49.6	60.3	81.1	82.2	84.1
Residential / Commercial	23.1	29.8	38.6	42.4	46.2	47.3
Others	7.7	10.1	12.6	16.1	25.2	29.5
Total	94.2	140.7	172.3	223.2	248.4	267.7

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	33.5	36.3	35.3	37.4	38.2	39.9
Transport	33.8	35.3	35.0	36.4	33.1	31.4
Residential / Commercial	24.6	21.2	22.4	19.0	18.6	17.7
Others	8.2	7.2	7.3	7.2	10.1	11.0

Final Energy Consumption

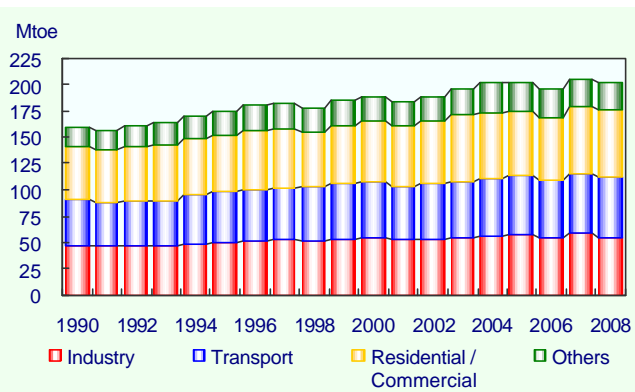
Total Final Energy Consumption by Sector Oceania



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	22.5	24.4	27.4	29.8	30.3	31.0
Transport	24.3	27.0	30.1	32.5	32.8	32.7
Residential / Commercial	12.9	14.6	16.7	18.0	18.4	18.7
Others	6.7	7.8	9.0	7.8	7.5	7.7
Total	66.4	73.8	83.2	88.1	89.0	90.1

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	33.9	33.1	32.9	33.8	34.1	34.4
Transport	36.6	36.5	36.2	36.9	36.8	36.3
Residential / Commercial	19.5	19.8	20.0	20.4	20.7	20.7
Others	10.0	10.6	10.8	8.8	8.4	8.6

Total Final Energy Consumption by Sector Canada

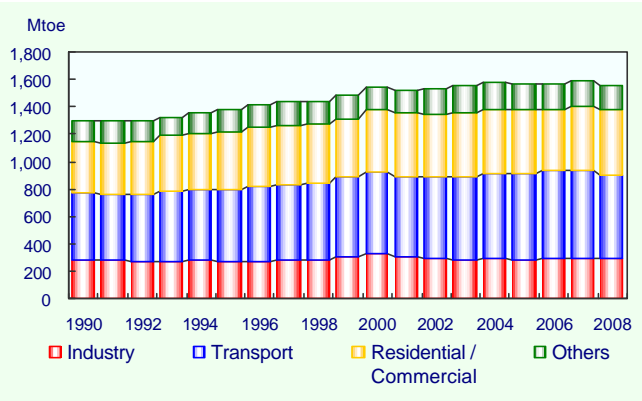


	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	47.3	50.1	54.7	57.5	57.8	54.8
Transport	43.1	47.8	52.2	55.8	58.1	57.2
Residential / Commercial	50.6	54.0	58.3	62.4	63.0	64.8
Others	18.0	21.8	24.0	27.2	26.4	25.4
Total	159.0	173.6	189.2	202.9	205.3	202.2

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	29.7	28.9	28.9	28.4	28.2	27.1
Transport	27.1	27.5	27.6	27.5	28.3	28.3
Residential / Commercial	31.8	31.1	30.8	30.8	30.7	32.1
Others	11.3	12.5	12.7	13.4	12.8	12.5

Final Energy Consumption

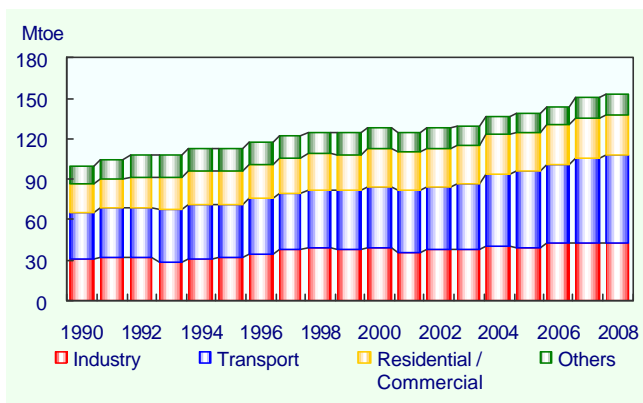
Total Final Energy Consumption by Sector United States of America



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	281.8	270.0	329.5	282.4	294.4	292.2
Transport	487.6	529.3	590.4	628.3	637.7	614.0
Residential / Commercial	369.2	421.0	457.1	472.1	472.1	475.7
Others	153.1	156.4	168.6	189.6	183.5	169.8
Total	1,291.6	1,376.8	1,545.6	1,572.4	1,587.7	1,551.7

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	21.8	19.6	21.3	18.0	18.5	18.8
Transport	37.7	38.4	38.2	40.0	40.2	39.6
Residential / Commercial	28.6	30.6	29.6	30.0	29.7	30.7
Others	11.9	11.4	10.9	12.1	11.6	10.9

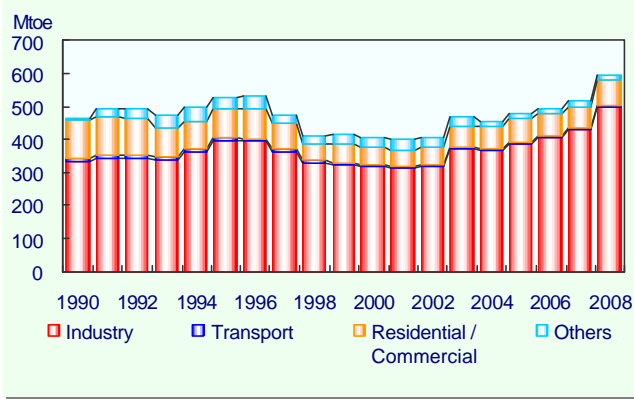
Total Final Energy Consumption by Sector Latin America



	1990	1995	2000	2005	2007	2008
						Mtoe
Industry	31.3	32.4	38.4	40.2	42.8	42.6
Transport	34.1	38.9	45.9	56.0	63.0	65.9
Residential / Commercial	20.9	24.8	27.7	28.6	29.4	29.1
Others	13.4	16.3	16.2	13.3	15.4	15.0
Total	99.8	112.4	128.1	138.1	150.6	152.6
						Share (%)
Industry	31.4	28.8	30.0	29.1	28.4	27.9
Transport	34.2	34.6	35.8	40.6	41.9	43.2
Residential / Commercial	21.0	22.0	21.6	20.7	19.5	19.1
Others	13.5	14.5	12.6	9.7	10.2	9.8

Final Energy Consumption

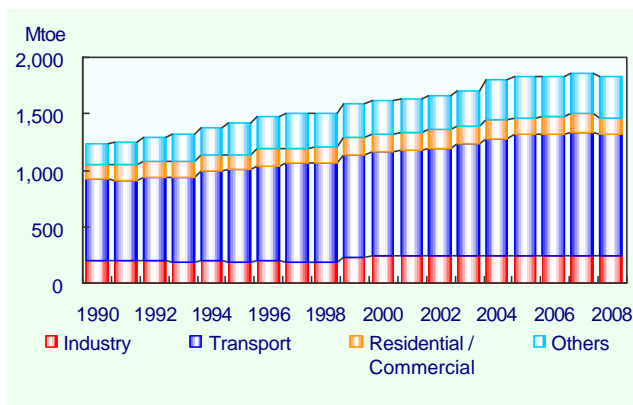
Coal++ Demand by Sector APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	330.9	394.3	318.5	385.0	430.9	498.6
Transport	11.2	7.1	5.6	5.6	4.6	4.5
Residential / Commercial	116.2	88.1	51.5	72.5	64.1	73.9
Others	5.9	36.1	27.9	16.3	16.8	17.4
Total	464.2	525.7	403.6	479.4	516.4	594.3

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	71.3	75.0	78.9	80.3	83.4	83.9
Transport	2.4	1.4	1.4	1.2	0.9	0.8
Residential / Commercial	25.0	16.8	12.8	15.1	12.4	12.4
Others	1.3	6.9	6.9	3.4	3.3	2.9

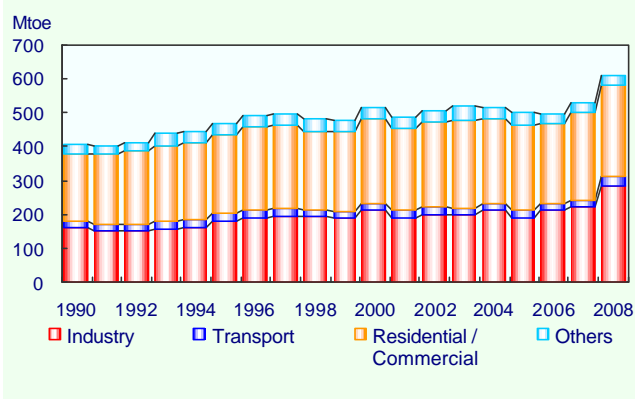
Oil Demand by Sector APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	213.7	195.3	239.0	256.8	249.3	243.2
Transport	706.9	809.2	931.1	1,055.6	1,093.6	1,081.2
Residential / Commercial	125.8	141.8	157.9	158.4	154.8	147.8
Others	190.4	278.1	294.2	350.2	367.0	352.4
Total	1,236.9	1,424.4	1,622.1	1,821.0	1,864.7	1,824.6

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	17.3	13.7	14.7	14.1	13.4	13.3
Transport	57.2	56.8	57.4	58.0	58.6	59.3
Residential / Commercial	10.2	10.0	9.7	8.7	8.3	8.1
Others	15.4	19.5	18.1	19.2	19.7	19.3

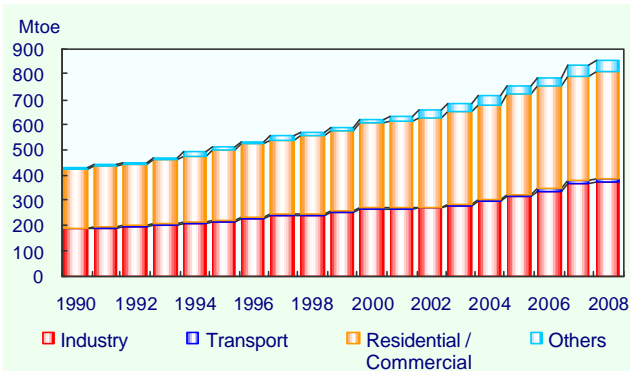
Gas++ Demand by Sector APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	163.0	181.7	211.2	194.1	221.8	285.5
Transport	18.4	22.4	21.0	20.8	22.3	27.7
Residential / Commercial	201.1	230.9	247.6	252.2	257.1	267.7
Others	24.6	32.8	37.1	32.6	30.7	29.8
Total	407.2	467.8	517.0	499.8	531.9	610.7

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	40.0	38.8	40.9	38.8	41.7	46.7
Transport	4.5	4.8	4.1	4.2	4.2	4.5
Residential / Commercial	49.4	49.4	47.9	50.5	48.3	43.8
Others	6.0	7.0	7.2	6.5	5.8	4.9

Electricity Demand by Sector APEC 20



	Mtoe					
	1990	1995	2000	2005	2007	2008
Industry	188.2	218.8	266.1	314.7	367.2	372.3
Transport	3.7	4.5	5.7	7.4	8.3	8.6
Residential / Commercial	231.9	275.7	335.1	394.6	417.1	428.3
Others	7.3	11.5	15.1	35.8	40.8	43.2
Total	431.1	510.6	622.0	752.6	833.4	852.4

	Share (%)					
	1990	1995	2000	2005	2007	2008
Industry	43.7	42.9	42.8	41.8	44.1	43.7
Transport	0.9	0.9	0.9	1.0	1.0	1.0
Residential / Commercial	53.8	54.0	53.9	52.4	50.0	50.2
Others	1.7	2.3	2.4	4.8	4.9	5.1

Final Energy Consumption

APEC 21, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	2,631,233	-	1,484,646	7,424
2 Import	321,647	11,254	1,354,352	433,972
3 Export	-415,262	-12,439	-514,209	-412,412
4 International Marine Bunkers	-	-	-	-84,588
5 International Aviation Bunkers	-	-	0	-61,564
6 Stock Change	-39,833	-6,778	-25,508	-4,306
7 Total Primary Energy Supply	2,497,785	-7,963	2,299,281	-121,473
8 Main Activity Producer	-1,461,150	-5,777	-9,439	-66,293
9 Autoproducers of Electricity	-104,712	-15,758	-830	-32,982
10 Gas Processing	-8,971	-1,823	-275	-5,768
11 Petroleum Refineries	-	-	-2,250,537	2,239,808
12 Coal Transformation	-349,091	163,708	-	-727
13 Other Transformation	-	-	24,614	-12,084
14 Loss & Own Use	-66,862	-13,611	-10,649	-112,716
15 Discrepancy	-4,030	-5,309	1,573	-32,541
16 Total Final Energy Consumption	502,969	113,467	8,132	1,915,090
17 Industry Sector	408,403	106,247	3,401	245,338
18 Transport Sector	4,460	2	17	1,140,199
19 Other Sector	90,106	7,218	19	237,211
19.1 Residential & Commercial	73,142	6,711	-	156,242
19.2 Agriculture	7,873	361	8	48,436
19.3 Other	9,092	147	11	32,533
20 Non-energy	-	-	4,695	292,342

Australia, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	218,816	-	23,859	47
2 Import	-	4	21,339	14,386
3 Export	-163,964	-	-14,992	-1,516
4 International Marine Bunkers	-	-	-	-953
5 International Aviation Bunkers	-	-	-	-3,053
6 Stock Change	-1,085	-	207	127
7 Total Primary Energy Supply	53,767	4	30,412	9,038
8 Main Activity Producer	-45,022	-456	-	-468
9 Autoproducers of Electricity	-	-23	-	-210
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-32,713	32,965
12 Coal Transformation	-3,738	2,540	-	-21
13 Other Transformation	-	-	104	-
14 Loss & Own Use	-	-629	-131	-2,316
15 Discrepancy	-2,234	-461	3,116	-10,790
16 Total Final Energy Consumption	2,773	976	-	37,517
17 Industry Sector	2,664	952	-	4,469
18 Transport Sector	92	-	-	26,873
19 Other Sector	18	24	-	2,843
19.1 Residential & Commercial	18	24	-	897
19.2 Agriculture	-	-	-	1,945
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	3,332

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
1,487,635	145,683	421,277	53,651	151,344	-	-	6,382,893
280,522	-	-	-	2,011	8,505	-	2,412,264
-351,586	-	-	-	-1,453	-9,575	-	-1,716,935
-	-	-	-	-	-	-	-84,588
-	-	-	-	-	-	-	-61,564
-13,368	-	-	-	-233	-	-	-90,026
1,403,203	145,683	421,277	53,651	151,670	-1,070	-	6,842,044
-517,378	-140,901	-421,277	-40,134	-19,233	1,020,171	106,143	-1,555,269
-62,616	-4,781	-	-9,765	-25,435	70,239	108,304	-78,335
55,756	-	-	-	-	-	-	38,918
-	-	-	-	-	-	-	-10,728
-100	-	-	-	-	-	-	-186,210
-2,127	-	-	-	-21,703	-	-	-11,299
-133,247	-1	-	-0	-163	-170,221	-24,756	-532,226
1,121	-0	-	-34	3,007	-2,842	-2,919	-41,972
744,612	-	-	3,717	88,143	916,277	186,773	4,479,181
315,583	-	-	265	55,682	403,267	84,510	1,622,696
63,143	-	-	-	-	15,775	-	1,223,597
314,795	-	-	3,452	32,461	497,235	102,263	1,284,760
311,474	-	-	3,452	31,871	452,720	97,828	1,133,438
1,365	-	-	-	590	12,079	2,845	73,557
1,956	-	-	-	1	32,436	1,590	77,765
51,091	-	-	-	-	-	-	348,129

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
39,391	1,037	-	509	5,479	-	-	289,137
4,346	-	-	-	-	-	-	40,075
-17,854	-	-	-	-	-	-	-198,327
-	-	-	-	-	-	-	-95,3
-	-	-	-	-	-	-	-3,053
-	-	-	-	-	-	-	-75,1
25,883	1,037	-	509	5,479	-	-	126,129
-6,100	-1,037	-	-340	-470	20,862	-	-33,030
-3,185	-	-	-13	-789	1,261	-	-2,958
-270	-	-	-	-	-	-	-270
-	-	-	-	-	-	-	253
-82	-	-	-	-	-	-	-1,301
-	-	-	-	-104	-	-	0
-7,622	-	-	-	-	-3,879	-	-14,576
4,025	-	-	-	0	0	-	-6,344
12,649	-	-	156	4,116	18,244	-	76,431
7,678	-	-	-	2,680	8,159	-	26,601
403	-	-	-	-	242	-	27,610
3,877	-	-	156	1,436	9,844	-	18,197
3,874	-	-	156	1,436	9,683	-	16,088
3	-	-	-	-	161	-	2,109
-	-	-	-	-	-	-	-
691	-	-	-	-	-	-	4,023

Brunei Darussalam, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	9,330	16
2 Import	-	-	16	48
3 Export	-	-	-8,460	-
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-90
6 Stock Change	-	-	-107	3
7 Total Primary Energy Supply	-	-	779	-22
8 Main Activity Producer	-	-	-	-8
9 Autoproducers of Electricity	-	-	-	-
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-777	685
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-228
15 Discrepancy	-	-	-2	33
16 Total Final Energy Consumption	-	-	-	460
17 Industry Sector	-	-	-	70
18 Transport Sector	-	-	-	363
19 Other Sector	-	-	-	18
19.1 Residential & Commercial	-	-	-	17
19.2 Agriculture	-	-	-	0
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	10

Canada, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	33,640	-	160,998	-
2 Import	11,026	905	42,554	15,786
3 Export	-19,442	-79	-99,188	-21,862
4 International Marine Bunkers	-	-	-	-523
5 International Aviation Bunkers	-	-	-	-559
6 Stock Change	26	190	-39	-171
7 Total Primary Energy Supply	25,251	1,017	104,325	-7,330
8 Main Activity Producer	-22,196	-	-	-2,464
9 Autoproducers of Electricity	-5	-18	-	-71
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-96,107	102,818
12 Coal Transformation	-2,880	1,104	-	-
13 Other Transformation	-	-	689	-
14 Loss & Own Use	-66	-	-	-9,088
15 Discrepancy	2,202	-691	-1,077	-8,754
16 Total Final Energy Consumption	2,306	1,412	-	90,753
17 Industry Sector	2,253	1,412	-	5,938
18 Transport Sector	-	-	-	53,655
19 Other Sector	53	-	-	12,762
19.1 Residential & Commercial	53	-	-	10,240
19.2 Agriculture	-	-	-	2,522
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	18,398

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
11,291	-	-	-	-	-	-	20,637
-	-	-	-	-	-	-	64
-8,545	-	-	-	-	-	-	-17,004
-	-	-	-	-	-	-	-90
16	-	-	-	-	-	-	-87
2,763	-	-	-	-	-	-	3,520
-1,013	-	-	-	-	264	-	-757
-867	-	-	-	-	30	-	-836
0	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-92
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-854	-	-	-	-	-24	-	-1,106
-2	-	-	-	-	0	-	29
28	-	-	-	-	270	-	759
-	-	-	-	-	47	-	117
-	-	-	-	-	-	-	363
28	-	-	-	-	224	-	269
28	-	-	-	-	224	-	269
-	-	-	-	-	-	-	0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	10

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
143,807	32,902	24,484	331	11,836	-	-	407,999
12,830	-	-	-	286	1,378	-	84,766
-84,712	-	-	-	-9	-3,707	-	-228,998
-	-	-	-	-	-	-	-523
-	-	-	-	-	-	-	-559
5,145	-	-	-	-	-	-	5,151
77,071	32,902	24,484	331	12,114	-2,330	-	267,835
-5,718	-30,015	-24,484	-331	-11	51,388	762	-33,068
-1,904	-2,887	-	-	-1,983	4,626	43	-2,199
-1,711	-	-	-	-	-	-	-1,711
-	-	-	-	-	-	-	6,711
-	-	-	-	-	-	-	-1,776
-574	-	-	-	-688	-	-	-573
-15,447	-	-	-	-1	-8,990	-	-33,592
1,227	-	-	-	0	-79	-44	-7,217
52,943	-	-	-	9,431	44,615	761	202,222
20,776	-	-	-	7,573	16,204	669	54,826
3,199	-	-	-	-	361	-	57,215
25,852	-	-	-	1,858	28,050	92	68,667
25,365	-	-	-	1,858	27,221	91	64,828
487	-	-	-	0	829	1	3,839
-	-	-	-	-	-	-	-
3,115	-	-	-	-	-	-	21,514

Chile, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	276	-	139	-
2 Import	4,340	324	10,881	8,048
3 Export	-	-9	-	-1,353
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-247	-107	22	256
7 Total Primary Energy Supply	4,370	208	11,041	6,951
8 Main Activity Producer	-3,484	-	-	-2,777
9 Autoproducers of Electricity	-	-	-	-174
10 Gas Processing	-	-	-	-96
11 Petroleum Refineries	-	-	-11,041	10,842
12 Coal Transformation	-486	144	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-43	-	-680
15 Discrepancy	-0	-0	-	-166
16 Total Final Energy Consumption	399	310	-	13,901
17 Industry Sector	395	310	-	3,425
18 Transport Sector	-	-	-	8,937
19 Other Sector	4	-	-	1,324
19.1 Residential & Commercial	4	-	-	1,324
19.2 Agriculture	-	-	-	-
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	215

China, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,471,741	-	195,050	-
2 Import	24,770	0	178,885	46,171
3 Export	-24,125	-8,366	-4,238	-20,235
4 International Marine Bunkers	-	-	-	-796
5 International Aviation Bunkers	-	-	-	-3,916
6 Stock Change	-24,768	-7,471	-14,712	-5,996
7 Total Primary Energy Supply	1,447,619	-15,837	354,986	15,228
8 Main Activity Producer	-673,245	-549	-	-
9 Autoproducers of Electricity	-65,860	-3,597	-98	-11,963
10 Gas Processing	-7,087	-1,823	-	-20
11 Petroleum Refineries	-	-	-340,953	331,352
12 Coal Transformation	-240,278	86,300	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-65,110	-3,430	-8,963	-8,093
15 Discrepancy	4,442	29	-24	2,738
16 Total Final Energy Consumption	400,480	61,093	4,948	329,241
17 Industry Sector	315,375	55,681	3,377	85,153
18 Transport Sector	4,368	2	-	130,122
19 Other Sector	80,737	5,410	-	73,718
19.1 Residential & Commercial	63,924	4,902	-	36,906
19.2 Agriculture	7,724	361	-	12,934
19.3 Other	9,089	147	-	24,479
20 Non-energy	-	-	1,571	40,249

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
1,969	2,153	-	3	5,117	-	-	9,658
729	-	-	-	-	99	-	24,421
-	-	-	-	-	-	-	-1,362
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-76
2,698	2,153	-	3	5,117	99	-	32,640
-627	-2,116	-	-3	-22	4,889	-	-4,040
-	-37	-	-	-518	345	-	-384
-	-	-	-	-	-	-	-96
-	-	-	-	-	-	-	-199
-18	-	-	-	-	-	-	-360
-	-	-	-	-	-	-	-
-351	-	-	-	-	-737	-	-1,810
-19	-0	-	-	-	-0	-	-185
1,784	-	-	-	4,578	4,596	-	25,568
241	-	-	-	1,627	3,150	-	9,148
14	-	-	-	-	37	-	8,988
583	-	-	-	2,951	1,409	-	6,271
583	-	-	-	2,951	1,409	-	6,271
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
946	-	-	-	-	-	-	1,161

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
74,759	50,326	17,823	-	6,925	-	-	1,816,625
4,286	-	-	-	-	330	-	254,443
-3,021	-	-	-	-	-1,431	-	-61,416
-	-	-	-	-	-	-	-796
-	-	-	-	-	-	-	-3,916
-	-	-	-	-	-	-	-52,947
76,025	50,326	17,823	-	6,925	-1,101	-	1,951,993
-331	-50,326	-17,823	-	-3,595	278,950	34,606	-432,314
-14,412	-	-	-	-	19,202	27,365	-49,363
76,117	-	-	-	-	-	-	67,187
-	-	-	-	-	-	-	-9,602
-	-	-	-	-	-	-	-153,978
-	-	-	-	-	-	-	-
-13,363	-	-	-	-45	-53,208	-8,973	-161,184
-338	-	-	-	-16	-4	-810	6,017
123,698	-	-	-	3,269	243,839	52,188	1,218,756
88,727	-	-	-	3,269	167,819	34,764	754,164
5,891	-	-	-	-	4,918	-	145,300
25,017	-	-	-	-	71,102	17,425	273,409
23,069	-	-	-	-	46,556	15,815	190,573
-	-	-	-	-	7,629	20	28,667
1,948	-	-	-	-	16,917	1,590	54,169
4,064	-	-	-	-	-	-	45,883

Hong Kong, China, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	-	-
2 Import	7,146	-	-	15,852
3 Export	-0	-	-	-838
4 International Marine Bunkers	-	-	-	-6,911
5 International Aviation Bunkers	-	-	-	-3,758
6 Stock Change	-296	-	-	-428
7 Total Primary Energy Supply	6,850	-	-	3,917
8 Main Activity Producer	-6,850	-	-	-36
9 Autoproducers of Electricity	-	-	-	-
10 Gas Processing	-	-	-	-351
11 Petroleum Refineries	-	-	-	-
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-
15 Discrepancy	-0	-	-	-766
16 Total Final Energy Consumption	-	-	-	2,764
17 Industry Sector	-	-	-	453
18 Transport Sector	-	-	-	2,084
19 Other Sector	-	-	-	227
19.1 Residential & Commercial	-	-	-	227
19.2 Agriculture	-	-	-	-
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	-

Indonesia, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	134,652	-	55,318	1,087
2 Import	63	-	12,839	20,618
3 Export	-94,080	-	-20,619	-
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-	-	976	-
7 Total Primary Energy Supply	40,635	-	48,514	21,705
8 Main Activity Producer	-18,252	-	-	-9,692
9 Autoproducers of Electricity	-	-	-	-
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-47,601	44,650
12 Coal Transformation	-25	21	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-939	-78
15 Discrepancy	0	-	26	-2,309
16 Total Final Energy Consumption	22,357	21	-	54,276
17 Industry Sector	22,357	21	-	6,288
18 Transport Sector	-	-	-	26,001
19 Other Sector	-	-	-	11,197
19.1 Residential & Commercial	-	-	-	8,555
19.2 Agriculture	-	-	-	-
19.3 Other	-	-	-	2,642
20 Non-energy	-	-	-	10,790

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	98	-	-	98
2,041	-	-	-	5	972	-	26,015
-	-	-	-	-2	-306	-	-1,145
-	-	-	-	-	-	-	-6,911
-	-	-	-	-	-	-	-3,758
-171	-	-	-	-	-	-	-895
1,870	-	-	-	100	666	-	13,402
-1,500	-	-	-	-	3,483	-	-4,903
-	-	-	-	-98	103	-	6
223	-	-	-	-	-	-	-127
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-629	-	-629
-0	-	-	-	-0	-103	-	-869
593	-	-	-	3	3,520	-	6,879
19	-	-	-	-	291	-	764
-	-	-	-	-	60	-	2,144
573	-	-	-	3	3,169	-	3,971
573	-	-	-	3	3,169	-	3,971
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
72,604	991	-	7,146	-	-	-	271,799
-	-	-	-	-	-	-	33,520
-33,873	-	-	-	-	-	-	-148,572
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	976
38,731	991	-	7,146	-	-	-	157,722
-5,961	-991	-	-7,146	-	12,852	-	-29,191
-	-	-	-	-	-	-	-
-6,727	-	-	-	-	-	-	-6,727
-	-	-	-	-	-	-	-2,952
-	-	-	-	-	-	-	-5
-	-	-	-	-	-	-	-
-12,030	-	-	-	-	-1,498	-	-14,545
-1,424	-	-	-	-	-251	-	-3,958
12,589	-	-	-	-	11,103	-	100,345
9,452	-	-	-	-	4,125	-	42,244
17	-	-	-	-	7	-	26,025
68	-	-	-	-	6,970	-	18,236
68	-	-	-	-	6,970	-	15,594
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	2,642
3,051	-	-	-	-	-	-	13,841

Japan, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	627	-	855	-
2 Import	117,013	1,106	210,089	44,300
3 Export	-	-650	-	-19,440
4 International Marine Bunkers	-	-	-	-5,272
5 International Aviation Bunkers	-	-	-	-6,081
6 Stock Change	-1,103	-	-1,862	-208
7 Total Primary Energy Supply	116,537	456	209,082	13,299
8 Main Activity Producer	-49,962	-4,265	-9,439	-14,605
9 Autoproducers of Electricity	-9,056	-3,053	-	-9,717
10 Gas Processing	-	-	-	-946
11 Petroleum Refineries	-	-	-204,517	206,593
12 Coal Transformation	-39,587	35,724	-	-706
13 Other Transformation	-	-	5,408	-5,496
14 Loss & Own Use	-170	-3,285	-	-12,001
15 Discrepancy	-1,827	-4,140	-533	-359
16 Total Final Energy Consumption	15,935	21,437	-	176,063
17 Industry Sector	15,935	20,748	-	59,951
18 Transport Sector	-	-	-	78,677
19 Other Sector	-	689	-	32,958
19.1 Residential & Commercial	-	689	-	27,049
19.2 Agriculture	-	-	-	4,000
19.3 Other	-	-	-	1,910
20 Non-energy	-	-	-	4,476

Republic of Korea, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,276	-	536	-
2 Import	61,017	490	118,857	26,340
3 Export	-	-	-243	-44,712
4 International Marine Bunkers	-	-	-	-9,132
5 International Aviation Bunkers	-	-	-	-3,806
6 Stock Change	268	-	901	878
7 Total Primary Energy Supply	62,561	490	120,052	-30,432
8 Main Activity Producer	-38,504	-	-	-2,734
9 Autoproducers of Electricity	-1,676	-2,782	-	-365
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-128,789	123,620
12 Coal Transformation	-17,553	8,707	-	-
13 Other Transformation	-	-	164	-54
14 Loss & Own Use	-	-2,005	-33	-5,680
15 Discrepancy	196	-0	8,606	-9,340
16 Total Final Energy Consumption	5,023	4,410	-	77,686
17 Industry Sector	5,023	3,357	-	6,463
18 Transport Sector	-	-	-	27,780
19 Other Sector	-	1,053	-	9,195
19.1 Residential & Commercial	-	1,053	-	6,460
19.2 Agriculture	-	-	-	1,135
19.3 Other	-	-	-	1,601
20 Non-energy	-	-	-	34,248

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,482	7,017	65,605	3,302	8,251	-	-	89,139
81,307	-	-	-	-	-	-	453,815
-	-	-	-	-	-	-	-20,090
-	-	-	-	-	-	-	-5,272
-	-	-	-	-	-	-	-6,081
-10	-	-	-	-	-	-	-3,184
84,779	7,017	65,605	3,302	8,251	-	-	508,327
-51,332	-6,376	-65,605	-2,410	-1,390	84,774	658	-119,951
-3,524	-641	-	-380	-6,859	16,585	-	-16,643
1,078	-	-	-	-	-	-	131
-	-	-	-	-	-	-	2,076
-	-	-	-	-	-	-	-4,568
-	-	-	-	-	-	-	-88
-3,067	-	-	-	-	-11,578	-	-30,101
1,316	-	-	-	3,029	-866	-78	-3,459
29,250	-	-	512	3,031	88,916	580	335,724
14,707	-	-	-	3,009	38,119	-	152,470
-	-	-	-	-	1,842	-	80,519
14,543	-	-	512	22	48,954	580	98,258
14,543	-	-	512	22	48,625	580	92,019
-	-	-	-	-	329	-	4,329
-	-	-	-	-	-	-	1,910
-	-	-	-	-	-	-	4,476

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
195	478	39,340	106	2,925	-	-	44,856
33,347	-	-	-	26	-	-	240,077
-	-	-	-	-	-	-	-44,955
-	-	-	-	-	-	-	-9,132
-	-	-	-	-	-	-	-3,806
-1,723	-	-	-	-	-	-	325
31,818	478	39,340	106	2,951	-	-	227,364
-13,839	-478	-39,340	-54	-115	36,151	1,448	-57,467
-450	-	-	-8	-451	2,242	3,369	-122
201	-	-	-	-	-	-	201
-	-	-	-	-	-	-	-5,169
-	-	-	-	-105	-	-	-8,846
-	-	-	-	-	-	-	6
-403	-	-	-	-	-3,268	-82	-11,471
254	-	-	0	-0	-109	-13	-406
17,582	-	-	44	2,281	35,015	4,722	146,762
5,472	-	-	1	1,889	17,875	2,996	43,075
715	-	-	-	-	191	-	28,686
11,395	-	-	43	392	16,949	1,726	40,753
11,389	-	-	43	392	16,228	1,726	37,292
5	-	-	-	-	564	-	1,704
-	-	-	-	-	157	-	1,758
-	-	-	-	-	-	-	34,248

Malaysia, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	676	-	35,513	2,356
2 Import	8,310	-	8,565	7,370
3 Export	-176	-	-14,994	-9,517
4 International Marine Bunkers	-	-	-	-66
5 International Aviation Bunkers	-	-	-	-0
6 Stock Change	-695	-	144	-115
7 Total Primary Energy Supply	8,114	-	29,229	28
8 Main Activity Producer	-6,894	-	-	-479
9 Autoproducers of Electricity	-	-	-	-63
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-26,740	26,459
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-993
15 Discrepancy	244	-	-2,488	-519
16 Total Final Energy Consumption	1,464	-	-	24,433
17 Industry Sector	1,464	-	-	5,262
18 Transport Sector	-	-	-	16,175
19 Other Sector	-	-	-	2,167
19.1 Residential & Commercial	-	-	-	1,900
19.2 Agriculture	-	-	-	267
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	830

Mexico, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	5,504	-	163,112	-
2 Import	2,128	213	471	26,993
3 Export	-	-2	-77,826	-6,782
4 International Marine Bunkers	-	-	-	-1,032
5 International Aviation Bunkers	-	-	-	-3,179
6 Stock Change	-1,045	725	-638	281
7 Total Primary Energy Supply	6,587	937	85,119	16,280
8 Main Activity Producer	-5,023	-	-	-11,420
9 Autoproducers of Electricity	-	-132	-	-
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-78,010	68,799
12 Coal Transformation	-1,426	1,180	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-27	-	-6,793
15 Discrepancy	-0	-	3,511	-2,375
16 Total Final Energy Consumption	139	1,958	-	76,253
17 Industry Sector	139	1,958	-	6,820
18 Transport Sector	-	-	-	51,714
19 Other Sector	-	-	-	10,953
19.1 Residential & Commercial	-	-	-	8,218
19.2 Agriculture	-	-	-	2,735
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	6,766

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
57,022	642	-	-	-	-	-	96,208
4,447	-	-	-	-	9	-	28,701
-21,600	-	-	-	-	-50	-	-46,337
-	-	-	-	-	-	-	-66
-	-	-	-	-	-	-	-666
39,869	642	-	-	-	-41	-	77,839
-13,300	-642	-	-	-	9,103	-	-12,211
-1,004	-	-	-	-	460	-	-607
-13,679	-	-	-	-	-	-	-13,679
-	-	-	-	-	-	-	-281
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-1,411	-	-	-	-	-772	-	-3,179
-1	-	-	-	-	-768	-	-3,532
10,474	-	-	-	-	7,983	-	44,354
8,257	-	-	-	-	3,685	-	18,667
189	-	-	-	-	15	-	16,378
36	-	-	-	-	4,283	-	6,486
36	-	-	-	-	4,264	-	6,200
-	-	-	-	-	19	-	286
-	-	-	-	-	-	-	-
1,993	-	-	-	-	-	-	2,823

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
41,206	3,369	2,555	6,225	8,238	-	-	230,210
11,559	-	-	-	-	30	-	41,396
-893	-	-	-	-	-125	-	-85,628
-	-	-	-	-	-	-	-1,032
-	-	-	-	-	-	-	-3,179
-358	-	-	-	-	-	-	-1,035
51,515	3,369	2,555	6,225	8,238	-95	-	180,731
-21,167	-3,345	-2,555	-6,090	-	20,285	-	-29,314
-3,007	-25	-	-2	-1,035	1,982	-	-2,219
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-9,211
-	-	-	-	-	-	-	-246
-	-	-	-	-	-	-	-
-13,330	-	-	-	-	-4,960	-	-25,110
-831	-	-	0	-0	-	-	304
13,180	-	-	133	7,203	17,212	-	116,079
8,474	-	-	-	1,361	10,558	-	29,310
754	-	-	-	-	95	-	52,563
974	-	-	133	5,843	6,558	-	24,461
974	-	-	133	5,843	5,861	-	21,029
-	-	-	-	-	697	-	3,432
-	-	-	-	-	-	-	-
2,978	-	-	-	-	-	-	9,744

New Zealand, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	2,891	-	2,900	-
2 Import	316	-	4,959	2,320
3 Export	-1,800	-	-2,630	-210
4 International Marine Bunkers	-	-	-	-343
5 International Aviation Bunkers	-	-	-	-856
6 Stock Change	285	-	57	-23
7 Total Primary Energy Supply	1,693	-	5,285	889
8 Main Activity Producer	-965	-	-	-32
9 Autoproducers of Electricity	-6	-136	-	-
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-5,335	5,378
12 Coal Transformation	-363	230	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-50	-	-362
15 Discrepancy	214	0	130	-11
16 Total Final Energy Consumption	572	44	-	5,943
17 Industry Sector	424	44	-	487
18 Transport Sector	-	-	-	4,695
19 Other Sector	148	-	-	437
19.1 Residential & Commercial	109	-	-	208
19.2 Agriculture	39	-	-	143
19.3 Other	-	-	-	85
20 Non-energy	-	-	-	323

Papua New Guinea, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	2,102	-
2 Import	-	-	870	755
3 Export	-	-	-2,044	-
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-	-	-85	-26
7 Total Primary Energy Supply	-	-	844	729
8 Main Activity Producer	-	-	-	-83
9 Autoproducers of Electricity	-	-	-	-489
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-799	813
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-14
15 Discrepancy	-	-	-29	-0
16 Total Final Energy Consumption	-	-	4	967
17 Industry Sector	-	-	4	576
18 Transport Sector	-	-	-	348
19 Other Sector	-	-	-	42
19.1 Residential & Commercial	-	-	-	-
19.2 Agriculture	-	-	-	-
19.3 Other	-	-	-	42
20 Non-energy	-	-	-	-

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,438	1,919	-	3,899	1,034	-	-	16,081
-	-	-	-	-	-	-	7,595
-	-	-	-	-	-	-	-4,640
-	-	-	-	-	-	-	-343
-	-	-	-	-	-	-	-856
-	-	-	-	-	-	-	318
3,438	1,919	-	3,899	1,034	-	-	18,156
-1,679	-1,918	-	-3,658	-34	3,622	-	-4,663
-131	-1	-	-	-134	142	29	-237
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	43
-	-	-	-	-	-	-	-134
-	-	-	-	-	-	-	-
-169	-	-	-	-	-462	-	-1,044
-6	-	-	-0	0	-	-29	298
1,452	-	-	241	866	3,302	-	12,421
632	-	-	139	675	1,223	-	3,623
4	-	-	-	-	46	-	4,745
198	-	-	102	192	2,034	-	3,111
164	-	-	102	192	1,820	-	2,595
34	-	-	-	-	151	-	368
-	-	-	-	-	63	-	149
618	-	-	-	-	-	-	942

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
338	74	-	-	-	-	-	2,513
-	-	-	-	-	-	-	1,625
-	-	-	-	-	-	-	-2,044
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-111
-	-	-	-	-	-	-	1,984
338	74	-	-	-	-	-	-83
-	-43	-	-	-	62	-	-63
-120	-31	-	-	-	207	-	-434
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	14
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-217	-	-	-	-	-18	-	-250
0	-	-	-	-	0	-	-29
-	-	-	-	-	251	-	1,222
-	-	-	-	-	178	-	758
-	-	-	-	-	-	-	348
-	-	-	-	-	73	-	115
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	73	-	115
-	-	-	-	-	-	-	-

Peru, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	99	-	5,611	-
2 Import	475	174	4,979	1,882
3 Export	-	-	-925	-3,155
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	176	-	-135	-1,087
7 Total Primary Energy Supply	749	174	9,531	-2,360
8 Main Activity Producer	-251	-	-	-497
9 Autoproducers of Electricity	-	-	-	-194
10 Gas Processing	-	-	-275	-
11 Petroleum Refineries	-	-	-8,871	8,708
12 Coal Transformation	-	-78	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-359
15 Discrepancy	3	-18	1,018	355
16 Total Final Energy Consumption	502	77	-	7,123
17 Industry Sector	502	77	-	1,591
18 Transport Sector	-	-	-	4,252
19 Other Sector	-	-	-	1,022
19.1 Residential & Commercial	-	-	-	725
19.2 Agriculture	-	-	-	29
19.3 Other	-	-	-	268
20 Non-energy	-	-	-	257

Philippines, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,905	-	715	-
2 Import	4,791	-	9,283	6,097
3 Export	-472	-	-653	-2,369
4 International Marine Bunkers	-	-	-	-227
5 International Aviation Bunkers	-	-	-	-953
6 Stock Change	-	-	-347	586
7 Total Primary Energy Supply	6,225	-	8,997	3,134
8 Main Activity Producer	-4,558	-	-	-1,083
9 Autoproducers of Electricity	-	-	-	-
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-8,718	8,591
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-373
15 Discrepancy	131	-	95	91
16 Total Final Energy Consumption	1,798	-	-	10,733
17 Industry Sector	1,798	-	-	1,539
18 Transport Sector	-	-	-	7,437
19 Other Sector	-	-	-	1,667
19.1 Residential & Commercial	-	-	-	1,413
19.2 Agriculture	-	-	-	38
19.3 Other	-	-	-	216
20 Non-energy	-	-	-	89

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,321	1,637	-	7	200	-	-	10,876
-	-	-	-	0	-	-	7,510
-	-	-	-	-	-	-	-4,080
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-1,046
3,321	1,637	-	7	200	-	-	13,260
-1,969	-1,600	-	-	-	2,633	-	-1,683
-72	-37	-	-7	-151	203	-	-257
-	-	-	-	-	-	-	-275
-	-	-	-	-	-	-	-162
-	-	-	-	-	-	-	-78
-	-	-	-	-50	-	-	-50
-543	-	-	-	-	-274	-	-1,175
-0	-	-	-	1	-0	-	1,358
737	-	-	-	-	2,563	-	11,002
594	-	-	-	-	1,397	-	4,162
130	-	-	-	-	-	-	4,382
13	-	-	-	-	1,166	-	2,201
5	-	-	-	-	1,105	-	1,836
-	-	-	-	-	41	-	69
8	-	-	-	-	20	-	298
-	-	-	-	-	-	-	257

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,192	846	-	9,227	6,919	-	-	22,805
-	-	-	-	9	-	-	20,180
-	-	-	-	-	-	-	-3,494
-	-	-	-	-	-	-	-227
-	-	-	-	-	-	-	-953
-	-	-	-	-	-	-	239
3,192	846	-	9,227	6,928	-	-	38,549
-2,854	-	-	-	-	5,231	-	-3,264
-	-846	-	-9,227	-	-	-	-10,073
-	-	-	-	-	-	-	-127
-	-	-	-	-	-	-	-
-	-	-	-	-1,331	-	-	-1,331
-164	-	-	-	-	-999	-	-1,535
-104	-	-	-	-5	0	-	208
70	-	-	-	5,592	4,232	-	22,425
70	-	-	-	1,287	1,465	-	6,158
0	-	-	-	-	10	-	7,447
-	-	-	-	4,306	2,757	-	8,730
-	-	-	-	4,306	2,647	-	8,366
-	-	-	-	-	97	-	135
-	-	-	-	-	13	-	229
-	-	-	-	-	-	-	89

Russia, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	152,768	-	488,601	-
2 Import	16,995	114	2,468	994
3 Export	-53,368	-2,098	-244,313	-98,066
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-6,067
6 Stock Change	-4,417	-41	-3,504	380
7 Total Primary Energy Supply	111,978	-2,026	243,251	-102,760
8 Main Activity Producer	-60,705	-	-	-4,095
9 Autoproducers of Electricity	-18,055	-4,700	-732	-7,772
10 Gas Processing	-	-	-	-4,227
11 Petroleum Refineries	-	-	-243,251	236,623
12 Coal Transformation	-23,015	20,773	-	-
13 Other Transformation	-	-	-	-6,247
14 Loss & Own Use	-630	-1,517	-583	-12,979
15 Discrepancy	-0	-0	1,371	-1
16 Total Final Energy Consumption	9,573	12,531	56	98,542
17 Industry Sector	3,598	12,488	20	5,476
18 Transport Sector	-	-	17	58,954
19 Other Sector	5,975	43	19	12,868
19.1 Residential & Commercial	5,884	43	-	8,460
19.2 Agriculture	87	-	8	3,574
19.3 Other	3	-	11	834
20 Non-energy	-	-	-	21,244

Singapore, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	-	-
2 Import	-	-	50,271	72,760
3 Export	-	-	-70	-69,540
4 International Marine Bunkers	-	-	-	-34,936
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-	-	-	-
7 Total Primary Energy Supply	-	-	50,201	-31,717
8 Main Activity Producer	-	-	-	-1,522
9 Autoproducers of Electricity	-	-	-	-
10 Gas Processing	-	-	-	-128
11 Petroleum Refineries	-	-	-50,201	46,871
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-717
15 Discrepancy	-	-	-	0
16 Total Final Energy Consumption	-	-	-	12,787
17 Industry Sector	-	-	-	7,043
18 Transport Sector	-	-	-	5,494
19 Other Sector	-	-	-	-
19.1 Residential & Commercial	-	-	-	-
19.2 Agriculture	-	-	-	-
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	250

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
534,677	14,505	42,500	400	6,169	-	-	1,239,621
6,393	-	-	-	-	267	-	27,231
-157,795	-	-	-	-	-1,783	-	-557,424
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-6,067
-17,081	-	-	-	64	-	-	-24,600
366,194	14,505	42,500	400	6,233	-1,516	-	678,760
-193,868	-14,381	-42,500	-400	-	84,804	55,924	-175,222
-18,283	-124	-	-	-3,819	4,836	77,499	28,852
-	-	-	-	-	-	-	-4,227
-	-	-	-	-	-	-	-6,628
-	-	-	-	-	-	-	-2,242
-1,553	-	-	-	-	-	-	-7,800
-18,594	-	-	-	-117	-24,222	-9,920	-68,562
50	-	-	-	-0	-	-1,945	-526
133,947	-	-	-	2,297	63,901	121,557	442,405
30,130	-	-	-	269	30,967	40,578	123,527
35,410	-	-	-	-	7,146	-	101,527
44,657	-	-	-	2,028	25,788	80,978	172,356
43,821	-	-	-	1,795	24,453	78,155	162,610
836	-	-	-	232	1,335	2,824	8,897
-	-	-	-	1	-	-	849
23,750	-	-	-	-	-	-	44,994

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	136	-	-	136
6,167	-	-	-	-	-	-	129,198
-	-	-	-	-	-	-	-69,610
-	-	-	-	-	-	-	-34,936
-	-	-	-	-	-	-	-
6,167	-	-	-	136	-	-	24,788
-6,167	-	-	-	-136	3,588	-	-4,238
-	-	-	-	-	-	-	-
113	-	-	-	-	-	-	-15
-	-	-	-	-	-	-	-3,331
-	-	-	-	-	-	-	-
-	-	-	-	-	-325	-	-1,042
0	-	-	-	-	-33	-	-33
113	-	-	-	-	3,230	-	16,129
48	-	-	-	-	1,332	-	8,423
-	-	-	-	-	-	-	5,494
64	-	-	-	-	1,898	-	1,963
64	-	-	-	-	1,894	-	1,959
-	-	-	-	-	4	-	4
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	250

Chinese Taipei, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	14	-
2 Import	39,246	267	47,865	15,679
3 Export	-	-59	-	-17,393
4 International Marine Bunkers	-	-	-	-1,798
5 International Aviation Bunkers	-	-	-	-1,856
6 Stock Change	-745	20	-639	523
7 Total Primary Energy Supply	38,501	228	47,241	-4,846
8 Main Activity Producer	-22,871	-	-	-2,545
9 Autoproducers of Electricity	-6,301	-477	-	-1,063
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-47,351	54,651
12 Coal Transformation	-3,944	2,460	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-682	-803	-	-1,871
15 Discrepancy	97	31	110	224
16 Total Final Energy Consumption	4,801	1,439	-	37,889
17 Industry Sector	4,801	1,439	-	4,030
18 Transport Sector	-	-	-	11,427
19 Other Sector	-	-	-	2,801
19.1 Residential & Commercial	-	-	-	2,341
19.2 Agriculture	-	-	-	4
19.3 Other	-	-	-	456
20 Non-energy	-	-	-	19,631

Thailand, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	4,787	-	11,954	3,228
2 Import	4,781	5,338	40,893	366
3 Export	-	47	-2,520	-9,071
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-3,574
6 Stock Change	-	-	-	711
7 Total Primary Energy Supply	9,568	5,385	50,327	-8,340
8 Main Activity Producer	-6,924	-	-	-379
9 Autoproducers of Electricity	-598	-14	-	-8
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-49,565	38,678
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-287
14 Loss & Own Use	-	-	-	-
15 Discrepancy	136	-95	2,362	122
16 Total Final Energy Consumption	2,182	5,277	3,125	29,785
17 Industry Sector	2,182	5,277	-	3,880
18 Transport Sector	-	-	-	19,011
19 Other Sector	-	-	-	6,172
19.1 Residential & Commercial	-	-	-	2,739
19.2 Agriculture	-	-	-	3,433
19.3 Other	-	-	-	-
20 Non-energy	-	-	3,125	722

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
318	688	10,639	133	1,934	-	-	13,727
12,473	-	-	-	-	-	-	115,530
-	-	-	-	-	-	-	-17,452
-	-	-	-	-	-	-	-1,798
-	-	-	-	-	-	-	-1,856
-90	-	-	-	-	-	-	-932
12,700	688	10,639	133	1,934	-	-	107,218
-9,294	-687	-10,639	-	-	17,324	-	-28,713
-140	-	-	-	-1,934	3,216	-	-6,699
-767	-	-	-	-	-	-	-767
-	-	-	-	-	-	-	7,300
-	-	-	-	-	-	-	-1,483
-	-	-	-	-	-	-	-
-453	-1	-	-0	-	-1,844	-	-5,654
-11	0	-	-34	-	-628	-	-210
2,036	-	-	99	-	18,069	-	64,332
871	-	-	-	-	10,068	-	21,209
-	-	-	-	-	95	-	11,521
1,165	-	-	99	-	7,906	-	11,971
1,165	-	-	99	-	7,683	-	11,287
-	-	-	-	-	141	-	144
-	-	-	-	-	83	-	539
-	-	-	-	-	-	-	19,631

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
17,236	612	-	1	1,707	-	-	39,524
8,261	-	-	-	-	240	-	59,879
-	-	-	-	-	-101	-	-11,646
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-3,574
-	-	-	-	-	-	-	711
25,497	612	-	1	1,707	138	-	84,895
-19,966	-612	-	-1	-	11,419	-	-16,463
-2,327	-	-	-	-1,707	1,260	-	-3,395
-	-	-	-	-	-	-	-10,887
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-287
-	-	-	-	-	-1,209	-	-1,209
-0	-	-	-	-	-0	-	2,526
3,204	-	-	-	-	11,608	-	55,180
2,540	-	-	-	-	4,898	-	18,777
664	-	-	-	-	5	-	19,680
-	-	-	-	-	6,705	-	12,877
-	-	-	-	-	6,617	-	9,357
-	-	-	-	-	24	-	3,457
-	-	-	-	-	63	-	63
-	-	-	-	-	-	-	3,846

United States of America, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	579,299	-	312,865	-
2 Import	18,844	2,252	588,267	92,452
3 Export	-46,998	-1,224	-6,495	-85,297
4 International Marine Bunkers	-	-	-	-22,597
5 International Aviation Bunkers	-	-	-	-23,816
6 Stock Change	-6,315	-94	-4,572	2
7 Total Primary Energy Supply	544,830	934	890,065	-39,256
8 Main Activity Producer	-492,094	-507	-	-11,147
9 Autoproducers of Electricity	-2,776	-827	-	-529
10 Gas Processing	-1,884	-	-	-
11 Petroleum Refineries	-	-	-869,196	890,712
12 Coal Transformation	-15,795	4,602	-	-
13 Other Transformation	-	-	18,249	-
14 Loss & Own Use	-204	-1,823	-	-50,092
15 Discrepancy	-7,613	15	-14,617	-716
16 Total Final Energy Consumption	24,464	2,395	-	814,169
17 Industry Sector	22,731	2,395	-	34,394
18 Transport Sector	-	-	-	597,582
19 Other Sector	1,733	-	-	52,879
19.1 Residential & Commercial	1,733	-	-	37,708
19.2 Agriculture	-	-	-	15,172
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	129,314

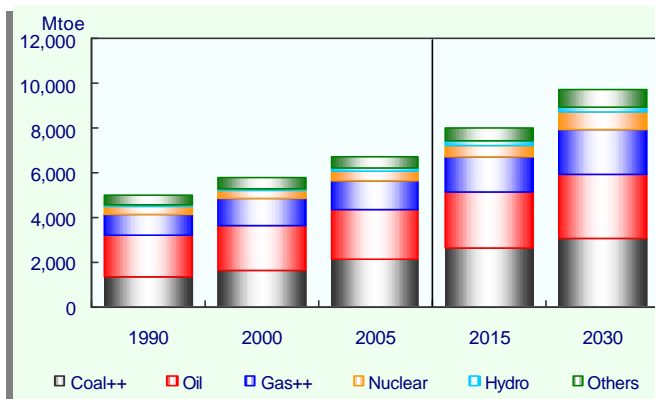
Viet Nam, 2008

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	22,275	-	15,172	691
2 Import	385	66	-	14,757
3 Export	-10,839	-	-14,000	-1,053
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	0	-
6 Stock Change	129	-	-1,173	-
7 Total Primary Energy Supply	11,951	66	0	14,394
8 Main Activity Producer	-3,348	-	-	-228
9 Autoproducers of Electricity	-380	-	-	-364
10 Gas Processing	-	-	-	-
11 Petroleum Refineries	-	-	-	-
12 Coal Transformation	-	-	-	-
13 Other Transformation	-	-	-	-
14 Loss & Own Use	-	-	-	-
15 Discrepancy	-22	21	-0	3
16 Total Final Energy Consumption	8,201	88	-	13,806
17 Industry Sector	6,762	88	-	2,025
18 Transport Sector	-	-	-	8,622
19 Other Sector	1,439	-	-	1,962
19.1 Residential & Commercial	1,417	-	-	1,453
19.2 Agriculture	22	-	-	508
19.3 Other	-	-	-	-
20 Non-energy	-	-	-	1,197

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
472,764	24,252	218,332	22,361	84,376	-	-	1,714,249
92,335	-	-	-	1,685	4,904	-	800,739
-23,076	-	-	-	-1,442	-2,071	-	-166,603
-	-	-	-	-	-	-	-22,597
-	-	-	-	-	-	-	-23,816
904	-	-	-	-297	-	-	-10,372
542,927	24,252	218,332	22,361	84,322	2,833	-	2,291,599
-155,341	-24,100	-218,332	-19,700	-13,461	362,550	12,746	-559,386
-12,951	-152	-	-129	-5,959	13,193	-	-10,130
1,177	-	-	-	-	-	-	-707
-	-	-	-	-	-	-	21,515
-	-	-	-	-	-	-	-11,193
-	-	-	-	-19,425	-	-	-1,176
-45,055	-	-	-	-	-50,598	-5,781	-153,553
-3,014	-0	-	-	-1	-15	0	-25,960
327,743	-	-	2,533	45,476	327,963	6,965	1,551,707
116,356	-	-	126	32,044	78,681	5,503	292,230
15,751	-	-	-	-	662	-	613,995
185,751	-	-	2,407	13,432	248,619	1,462	506,283
185,751	-	-	2,407	13,075	233,572	1,462	475,708
-	-	-	-	357	-	-	15,529
-	-	-	-	-	15,047	-	15,047
9,885	-	-	-	-	-	-	139,199

Unit: ktoe							
Natural Gas, LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
6,624	2,235	-	-	-	-	-	46,997
-	-	-	-	-	277	-	15,485
-216	-	-	-	-	-	-	-26,108
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-1,044
6,408	2,235	-	-	-	277	-	35,331
-5,454	-2,235	-	-	-	5,936	-	-5,329
-239	-	-	-	-	346	-	-636
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-175	-	-	-	-	-728	-	-903
-0	-	-	-	-	13	-	16
540	-	-	-	-	5,844	-	28,479
540	-	-	-	-	3,026	-	12,441
-	-	-	-	-	44	-	8,666
-	-	-	-	-	2,774	-	6,175
-	-	-	-	-	2,717	-	5,588
-	-	-	-	-	57	-	587
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1,197

Primary Energy Supply Outlook by Energy

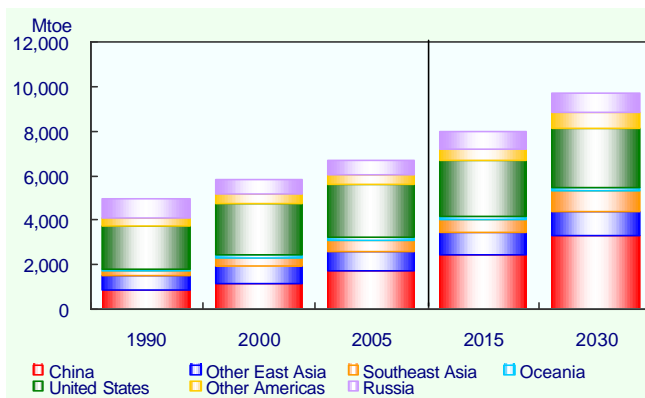


	1990	2000	2005	2015	Mtoe 2030
Coal++	1,367	1,572	2,110	2,596	3,011
Oil	1,793	2,054	2,260	2,544	2,927
Gas++	998	1,193	1,268	1,551	1,993
Nuclear	286	390	419	532	822
Hydro	92	108	125	166	191
Others	423	474	497	596	779
Total	4,959	5,790	6,679	7,985	9,723

	1990	2000	2005	2015	Share (%) 2030
Coal++	27.6	27.1	31.6	32.5	31.0
Oil	36.2	35.5	33.8	31.9	30.1
Gas++	20.1	20.6	19.0	19.4	20.5
Nuclear	5.8	6.7	6.3	6.7	8.5
Hydro	1.9	1.9	1.9	2.1	2.0
Others	8.5	8.2	7.4	7.5	8.0

By Asia Pacific Energy Research Centre, November 2009.

Primary Energy Supply Outlook by Region



	Mtoe				
	1990	2000	2005	2015	2030
China	863	1,106	1,720	2,440	3,281
Other East Asia	596	814	865	956	1,045
Southeast Asia	236	382	471	598	946
Oceania	102	130	140	170	213
United States	1,926	2,303	2,342	2,472	2,641
Other Americas	357	441	494	569	723
Russia	879	615	648	779	875
APEC 21	4,959	5,790	6,679	7,985	9,723
	Share (%)				
	1990	2000	2005	2015	2030
China	17.4	19.1	25.8	30.6	33.7
Other East Asia	12.0	14.1	12.9	12.0	10.7
Southeast Asia	4.8	6.6	7.1	7.5	9.7
Oceania	2.1	2.2	2.1	2.1	2.2
United States	38.8	39.8	35.1	31.0	27.2
Other Americas	7.2	7.6	7.4	7.1	7.4
Russia	17.7	10.6	9.7	9.8	9.0

Other East Asia includes Hong Kong, China; Japan; Republic of Korea and Chinese Taipei.
 Other Americas includes Canada, Chile, Mexico, and Peru.
 Southeast Asia includes Viet Nam.

Selected Energy Indicators APEC Region

	Population			Real GDP			Real GDP	
	Millions			Billions of 2000 Price and 2000 USD			Billions of 2000 Price and 2000 PPP	
	1980	1990	2008	1980	1990	2008	1980	1990
APEC 19	1,788	2,067	2,470	9,626	13,882	23,855	9,870	14,549
APEC 21	1,981	2,281	2,698	-	14,282	24,341	9,870	16,259
East Asia	1,159	1,328	1,531	3,247	5,140	9,176	2,773	4,785
China	981.2	1,135.2	1,324.7	182.9	444.6	2,602.5	454.3	1,104.2
Hong Kong, China	5.1	5.7	7.0	60.2	115.2	241.3	62.5	119.6
Japan	116.8	123.5	127.7	2,800.6	4,122.3	5,166.3	1,947.9	2,867.2
Republic of Korea	38.1	42.9	48.6	128.0	295.6	750.8	193.4	446.5
Chinese Taipei	17.8	20.4	22.9	75.1	161.8	414.8	114.9	247.5
Southeast Asia	260.0	318.7	417.3	197.7	341.4	817.5	481	830
Brunei Darussalam	0.2	0.3	0.4	5.8	4.8	7.0	13.5	11.2
Indonesia	148.3	178.2	227.3	58.8	109.2	247.2	176.5	327.6
Malaysia	13.8	18.1	27.0	26.4	47.2	139.2	59.6	106.5
Philippines	48.1	62.4	90.3	47.6	56.2	110.7	111.4	131.7
Singapore	2.4	3.0	4.8	21.8	44.7	135.5	31.4	64.3
Thailand	47.3	56.7	67.4	37.3	79.4	177.9	88.8	189.0
Oceania	21.0	24.6	32.3	229.0	312.1	585.1	310.4	421.3
Australia	14.7	17.1	21.4	194.1	270.1	514.5	254.8	354.7
New Zealand	3.1	3.4	4.3	32.9	39.6	66.2	50.1	60.3
Papua New Guinea	3.2	4.1	6.6	2.1	2.3	4.4	5.5	6.3
North America	251.8	277.4	337.4	5,540	7,599	12,387	5,624	7,710
Canada	24.6	27.8	33.3	412.0	543.6	872.8	496.1	654.7
United States of America	227.2	249.6	304.1	5,128.0	7,055.0	11,514.0	5,128.0	7,055.0
Latin America	96.1	118.2	152.0	412.6	489.9	889.7	681.2	802.7
Chile	11.2	13.2	16.8	27.9	40.4	104.4	53.1	76.8
Mexico	67.6	83.2	106.4	345.6	413.3	701.0	535.1	640.0
Peru	17.3	21.8	28.8	39.1	36.1	84.3	93.0	85.9
Russia	139.0	148.3	142.0	-	385.9	430.1	-	1,657.1
Viet Nam	53.7	66.2	86.2	-	15.0	55.8	-	52.9

Note: APEC 19 does not include Russia and Viet Nam.

	Energy Indigenous Production			Net Import			Total Primary Energy Supply			
	Mtoe			Mtoe			Mtoe			
	1980	1990	2008	1980	1990	2008	1980	1990	2008	
2008	2,580.3	3,334.6	5,096.3	499.6	553.3	1,236.1	3,048	3,741	6,128	
30,935	-	-	6,382.9	-	-	695.3	-	-	6,842	
12,084	499.8	811.8	1,964.4	339.6	451.4	944.8	840	1,232	2,808	
6,461.7	436.3	705.8	1,816.6	-19.6	-30.5	193.0	421.0	653.9	1,952.0	CHN
250.6	0.0	0.0	0.1	6.0	10.8	24.9	4.6	8.9	13.4	HKG
3,597.7	48.7	72.6	89.1	303.2	361.6	433.7	351.7	430.6	508.3	JPN
1,139.4	9.2	22.6	44.9	29.6	70.1	195.1	38.3	93.1	227.4	KOR
634.4	5.7	10.7	13.7	20.3	39.4	98.1	24.6	45.3	107.2	TWN
1,971	132.1	210.3	451.1	-54.0	-51.1	-25.1	69.2	139.9	387.3	
16.3	20.7	15.3	20.6	-17.4	-12.9	-16.9	3.2	2.0	3.5	BRN
741.8	92.1	119.4	271.8	-60.7	-65.9	-115.1	30.9	52.8	157.7	IDN
313.7	16.1	46.5	96.2	-5.0	-25.4	-17.6	10.3	20.3	77.8	MYS
259.3	2.7	17.2	22.8	10.4	11.9	16.7	12.4	28.3	38.5	PHL
195.0	0.0	0.0	0.1	6.7	22.9	59.6	1.1	8.4	24.8	SGP
445.2	0.5	11.9	39.5	12.0	18.2	48.2	11.3	28.0	84.9	THA
789.1	92.1	175.3	307.7	-13.7	-66.1	-155.7	79.4	101.6	146.3	
676.4	86.1	158.1	289.1	-18.3	-64.5	-158.3	69.3	86.8	126.1	AUS
101.0	6.0	12.6	16.1	4.0	2.1	3.0	9.5	13.9	18.2	NZL
11.7	0.0	4.6	2.5	0.6	-3.7	-0.4	0.6	0.9	2.0	PNG
12,566	1,689	1,928	2,122	277.6	282.6	489.9	1,943	2,125	2,559	
1,052.3	207.7	273.8	408.0	-11.0	-59.3	-144.2	194.2	208.7	267.8	CAN
11,514	1,481.4	1,654.0	1,714.2	288.6	341.9	634.1	1,748.6	1,916.5	2,291.6	USA
1,485.4	167.2	209.4	250.7	-49.9	-63.5	-17.7	116.1	142.8	226.6	
198.2	7.0	7.8	9.7	4.1	7.0	23.1	10.8	14.0	32.6	CHL
1,086.8	149.0	193.4	230.2	-51.0	-69.9	-44.2	97.2	121.3	180.7	MEX
200.5	11.1	8.2	10.9	-3.0	-0.6	3.4	8.2	7.5	13.3	PER
1,846.5	-	-	1,239.6	-	-	-530.2	-	-	678.8	RUS
196.3	-	5.8	47.0	-	-0.2	-10.6	-	5.4	35.3	VNM

Energy Indicators

	Total Final Energy Consumption			Final Consumption of Electricity			Total Primary Energy Supply	
	Mtoe			TWh			toe / Person	
	1980	1990	2008	1980	1990	2008	1980	1990
APEC 19	2,401	2,599	4,008	3,507	5,006	9,843	1.70	1.81
APEC 21	-	-	4,478	-	-	10,654	-	-
East Asia	625.0	891.9	1,771.7	879.9	1,543.4	4,527.4	0.73	0.93
China	318.2	489.8	1,218.8	287.4	606.4	2,835.3	0.43	0.58
Hong Kong, China	2.8	4.9	6.9	10.9	23.8	40.9	0.91	1.56
Japan	251.8	303.1	335.7	511.9	744.8	1,033.9	3.01	3.49
Republic of Korea	35.7	64.9	146.8	32.7	94.4	407.2	1.01	2.17
Chinese Taipei	16.5	29.1	63.6	36.9	74.0	210.1	1.38	2.22
Southeast Asia	45.9	89.9	239.2	50.5	125.2	446.8	0.27	0.44
Brunei Darussalam	0.2	0.4	0.8	0.3	1.0	3.1	16.70	7.91
Indonesia	20.9	33.5	100.3	7.3	30.5	129.1	0.21	0.30
Malaysia	6.1	12.5	44.4	8.7	19.9	92.8	0.75	1.12
Philippines	9.0	19.5	22.4	15.0	21.2	49.2	0.26	0.45
Singapore	1.2	3.8	16.1	6.1	14.2	37.6	0.44	2.75
Thailand	8.5	20.3	55.2	13.1	38.3	135.0	0.24	0.49
Oceania	59.3	66.4	90.1	101.6	158.7	253.5	3.78	4.12
Australia	51.5	56.5	76.4	81.0	129.2	212.1	4.72	5.09
New Zealand	7.3	9.3	12.4	19.4	27.8	38.4	3.05	4.02
Papua New Guinea	0.4	0.6	1.2	1.2	1.7	2.9	0.20	0.21
North America	1,591.0	1,450.6	1,753.9	2,404.6	3,051.7	4,332.3	7.72	7.66
Canada	156.7	159.0	202.2	307.4	418.1	518.8	7.90	7.51
United States of America	1,434.3	1,291.6	1,551.7	2,097.2	2,633.6	3,813.5	7.70	7.68
Latin America	79.4	99.8	152.6	70.7	127.4	283.4	1.21	1.21
Chile	8.1	10.7	25.6	9.7	15.4	53.4	0.97	1.06
Mexico	65.1	82.9	116.1	52.3	100.2	200.1	1.44	1.46
Peru	6.2	6.2	11.0	8.7	11.8	29.8	0.47	0.35
Russia	-	-	442.4	-	-	743.0	-	-
VietNam	-	4.2	28.5	-	6.2	68.0	-	0.08

	Total Primary Energy Supply per Real GDP			Total Primary Energy Supply per Real GDP			Total Final Energy Consumption per Capita			
	toe / Million 2000 USD			toe / Million 2000 PPP			toe / Person			
2008	1980	1990	2008	1980	1990	2008	1980	1990	2008	
2.48	316.6	269.5	256.9	306.3	254.0	208.4	1.34	1.26	1.62	
2.54	-	-	281.1	-	-	217.7	-	-	1.66	
1.83	258.8	239.7	306.1	294.2	248.0	223.5	0.54	0.67	1.16	
1.47	2,301.3	1,470.7	750.0	926.6	592.2	302.1	0.32	0.43	0.92	CHN
1.92	76.6	77.3	55.5	73.8	74.4	53.5	0.55	0.87	0.99	HKG
3.98	125.6	104.5	98.4	180.6	150.2	141.3	2.16	2.45	2.63	JPN
4.68	299.3	314.9	302.8	198.2	208.5	199.5	0.94	1.51	3.02	KOR
4.67	327.7	279.7	258.5	214.2	182.8	169.0	0.93	1.43	2.77	TWN
0.93	350.2	409.6	473.8	1439	168.4	196.5	0.18	0.28	0.57	
8.97	558.3	422.8	504.0	2388	180.9	215.6	1.14	1.47	1.93	BRN
0.69	524.8	483.6	638.0	1749	161.1	212.6	0.14	0.19	0.44	IDN
2.88	389.9	430.9	559.4	1729	191.1	248.1	0.45	0.69	1.64	MYS
0.43	261.5	503.5	348.2	111.6	214.9	148.7	0.19	0.31	0.25	PHL
5.12	49.0	187.9	183.0	34.0	130.5	127.1	0.48	1.25	3.33	SGP
1.26	304.0	352.7	477.2	127.7	148.1	190.7	0.18	0.36	0.82	THA
4.53	346.7	325.5	250.0	255.8	241.1	185.4	2.82	2.69	2.79	
5.89	357.0	321.5	245.2	271.8	244.8	186.5	3.51	3.31	3.57	AUS
4.25	288.9	349.9	274.1	189.7	229.8	179.8	2.35	2.70	2.91	NZL
0.30	305.3	369.3	449.1	114.3	138.3	169.4	0.14	0.15	0.19	PNG
7.59	350.7	279.7	206.6	345.5	275.7	203.7	6.32	5.23	5.20	
8.04	471.5	383.9	306.9	391.5	318.8	254.5	6.37	5.72	6.07	CAN
7.54	341.0	271.7	199.0	341.0	271.7	199.0	6.31	5.17	5.10	USA
1.49	281.4	291.4	254.7	170.5	177.9	152.6	0.83	0.84	1.00	
1.94	386.1	345.1	312.8	203.2	181.7	164.7	0.72	0.81	1.52	CHL
1.70	281.2	293.4	257.8	181.6	189.5	166.3	0.96	1.00	1.09	MEX
0.46	209.2	208.7	157.3	88.0	87.7	66.1	0.36	0.29	0.38	PER
4.78	-	-	1,578.0	-	-	367.6	-	-	3.12	RUS
0.41	-	360.5	633.2	-	102.4	180.0	-	0.06	0.33	VNM

	Energy Related CO ₂ Emission			CO ₂ Emission per Capita		
	Mt-C			t-C / Person		
	1980	1990	2008	1980	1990	2008
APEC 19	-	-	4,432.3	-	-	1.795
APEC 21	-	-	4,905.2	-	-	1.818
East Asia	661.2	970.4	2,175.2	0.570	0.731	1.421
China	354.4	581.5	1,663.9	0.361	0.512	1.256
Hong Kong, China	4.0	8.9	10.3	0.789	1.565	1.480
Japan	251.5	287.2	309.6	2.154	2.325	2.424
Republic of Korea	32.8	62.4	122.0	0.861	1.455	2.509
Chinese Taipei	18.4	30.4	69.5	1.034	1.493	3.028
Southeast Asia	-	-	256.0	-	-	0.613
Brunei Darussalam	0.6	1.2	2.3	3.336	4.747	5.937
Indonesia	17.3	37.3	111.1	0.117	0.209	0.489
Malaysia	8.1	15.7	54.0	0.586	0.866	1.997
Philippines	8.2	9.8	18.8	0.170	0.157	0.208
Singapore	1.7	5.3	16.3	0.688	1.752	3.371
Thailand	-	-	53.4	-	-	0.793
Oceania	-	-	115.9	-	-	3.591
Australia	-	70.7	105.5	-	4.143	4.921
New Zealand	-	6.0	8.9	-	1.751	2.085
Papua New Guinea	-	-	1.5	-	-	0.233
North America	1,428.2	1,497.0	1,743.7	5.672	5.396	5.168
Canada	119.1	123.2	154.1	4.844	4.434	4.626
United States of America	1,309.1	1,373.7	1,589.6	5.761	5.503	5.228
Latin America	75.2	91.0	141.5	0.783	0.770	0.931
Chile	6.4	8.8	20.4	0.576	0.669	1.214
Mexico	63.0	76.8	111.2	0.932	0.923	1.046
Peru	5.7	5.4	9.9	0.332	0.248	0.343
Russia	-	-	444.4	-	-	3.131
VietNam	-	4.7	28.5	-	0.070	0.331

CO ₂ Emission per Real GDP			CO ₂ Emission per Real GDP			CO ₂ Emission per Total Primary Energy Supply			
kt-C/ Billions of 2000 USD			kt-C/ Billions of 2000 PPP			t-C / toe			
1980	1990	2008	1980	1990	2008	1980	1990	2008	
-	-	185.8	-	-	151.0	-	-	0.723	
-	-	201.5	-	-	156.3	-	-	0.717	
203.6	188.8	237.1	231.8	196.5	174.3	0.787	0.788	0.775	
1,937.5	1,308.0	639.3	780.1	526.6	257.5	0.842	0.889	0.852	CHN
66.4	77.5	42.8	64.0	74.7	41.2	0.867	1.003	0.771	HKG
89.8	69.7	59.9	129.1	100.2	86.0	0.715	0.667	0.609	JPN
256.2	211.0	162.4	169.7	139.7	107.0	0.856	0.670	0.536	KOR
245.0	187.8	167.5	160.2	122.7	109.5	0.748	0.671	0.648	TWN
-	-	313.1	-	-	129.8	-	-	0.661	
0.1	253.7	333.4	47.7	108.5	142.6	0.200	0.600	0.662	BRN
294.3	341.7	449.5	98.1	113.9	149.8	0.561	0.707	0.705	IDN
305.2	332.0	387.8	135.4	147.2	172.0	0.783	0.771	0.693	MYS
172.3	174.3	169.8	73.6	74.4	72.5	0.659	0.346	0.488	PHL
76.0	119.5	120.4	52.8	83.0	83.7	1.552	0.636	0.658	SGP
-	-	300.2	-	-	120.0	-	-	0.629	THA
-	-	198.1	-	-	146.9	-	-	0.792	
-	261.7	205.0	-	199.3	155.9	-	0.814	0.836	AUS
-	152.4	134.4	-	100.1	88.2	-	0.436	0.490	NZL
-	-	347.1	-	-	130.9	-	-	0.773	PNG
257.8	197.0	140.8	253.9	194.2	138.8	0.735	0.704	0.681	
289.2	226.6	176.6	240.1	188.2	146.4	0.613	0.590	0.575	CAN
255.3	194.7	138.1	255.3	194.7	138.1	0.749	0.717	0.694	USA
182.2	185.8	159.1	110.4	113.4	95.3	0.647	0.637	0.624	
230.3	218.0	195.5	121.2	114.8	103.0	0.596	0.632	0.625	CHL
182.3	185.8	158.7	117.7	120.0	102.3	0.648	0.633	0.615	MEX
146.9	149.3	117.2	61.8	62.8	49.3	0.702	0.715	0.745	PER
-	-	1,033.2	-	-	240.7	-	-	0.655	RUS
-	310.2	510.8	-	88.1	145.2	-	0.861	0.807	VNM

Glossary

General note

For editing convenience the definition for some items with “++” mark are different with the publication of APEC Energy Statistics. In the Energy Balance sector the definition for all items are the same as the publication of APEC Energy Statistics.

Energies

Coal++

Defined as coal in narrow sense (all primary coal such as hard coal, lignite and brown coal) plus coal products (all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coke oven gas and blast furnace gas).

Coal

Coal includes all primary coal, such as hard coal, lignite and brown coal.

Coal Products

Coal Products includes all fuels derived from coal including patent fuel, coke oven coke, gas coke, briquettes, coke oven gas, blast furnace gas and gas works gas.

Oil

Defined as crude oil (which comprises crude oil, refinery feedstocks and natural gas liquids and Natural LPG) plus petroleum products.

Crude Oil

Crude Oil comprises crude oil, refinery feedstocks and natural gas liquids.

Petroleum Products

Total of all petroleum products, such as LPG, naphtha, MOGAS (including AVGAS), jet fuel, kerosene, diesel oil, fuel oil, refinery gas and other petroleum products.

Mogas

Mogas is light hydrocarbon oil for use in internal engines such as motor vehicles. Motor gasoline is distilled between 35 °C and 215 °C and treated by reforming, catalytic cracking or blending with aromatic fraction to reach a sufficiently high octane number (=80 RON).

Naphtha

Naphtha includes light or medium oils, a cut covering the end of the motor spirit and the beginning of the kerosene range. Naphtha distills between 30 °C and 210 °C.

Jet Fuel

Jet fuel comprises both gasoline and kerosene type jet fuels meeting

specifications for use in aviation turbine power units.

Gasoline type: This includes all light hydrocarbon oils, distilling between 100 °C and 250 °C. It distills at least 20 percent in volume at 143 °C.

Kerosene type: This medium oil with same distillation characteristics and flash point as kerosene, with a maximum aromatic content of 22 percent in volume, and treated to give a kinematic viscosity of less than 18cST at -20 °C (and a freezing point below -47 °C), octane number varying from 80 to 145 RON.

Kerosene

Kerosene comprises refined petroleum distillate intermediate in volatility between gasoline and gas/diesel oil. It is a medium oil distilling between 150 °C and 300 °C, which distills at least 65 percent in volume at 250 °C. Its specific gravity is in the region of 0.80 and the flash point is above 38 °C.

Diesel Oil

Diesel oil includes heavy gas oils. Gas oils are obtained from the lowest fraction from atmospheric distillation of crude oil, while heavy gas oils obtained by vacuum redistillation of the residual from atmospheric distillation.

Fuel Oil

Fuel oil defines oils that make up the distillation residue. It comprises all residual fuel oils (including those obtained by blending). Its kinematic viscosity is above 10 cSt at 80 °C. The flash point is always above 50 °C. and the density is always more than 0.90.

LPG

LPG is the light hydrocarbon fraction of the paraffin series, derived from refinery processes and from crude oil stabilization plants comprising propane (C₃H₈) and butane (C₄H₁₀) or a mixture of these two hydrocarbon.

Others

The category, "Other petroleum products", groups together white spirit and SBP, lubricants, bitumen, paraffin waxes, refining gas and others (tar, sulfur, grease).

Gas++

Defined as natural gas and LNG.

Natural Gas

Natural gas consists mainly of methane occurring naturally in underground deposits associated with crude oil or gas recovered from coal mines (colliery gas). Sewage gas is also included.

LNG

LNG is liquefied natural gas.

Hydro

The primary equivalent is calculated with an efficiency of 100%.

Nuclear

The primary equivalent is calculated with an efficiency of 33%.

Others

Defined as sum of geothermal power, wind, tide, photovoltaic power, biomass, etc. However, for Indonesia, Peru, Chinese Taipei, Thailand and Vietnam, non-commercial biomass was not included to keep historical consistency. The primary equivalent is calculated with an efficiency of 100% except for of geothermal power, which assumed efficiency is 10%.

Sectors**Indigenous Production**

Quantities of fuels extracted within the economy.

Net Imports

Defined as imports minus exports.

Total Primary Energy Supply (TPES)

Defined as indigenous production plus imports minus exports minus international marine bunkers plus or minus stock change.

Refining

Petroleum refineries shows the transformation of crude oil, NGL and condensate to petroleum products. The production of synthetic petrol from natural gas is also included.

Power Generation

Gross electricity (including power stations' own use) produced from thermal, hydro, nuclear, geothermal and other power plants of public utilities and auto-producers. An auto-producer is an establishment which, in addition to its main activities, generates electricity wholly or partially for its own use, such as industries, railways, refineries, etc.

Total Final Energy Consumption

Defined as industry plus transport plus residential and commercial plus others sector.

Industry

Consumption of the industry sector is specified in the following sub-sectors (energy use for transport by industry is not included here but reported under transport):

- Iron and steel industry
- Chemical industry
- Non-ferrous metals basic industries
- Non-metallic mineral products such as glass, ceramic, cement, etc.

- Transport equipment
- Machinery. Fabricated metal products, machinery and equipment other than transport equipment
- Mining (excluding fuels) and quarrying
- Food processing, beverages and tobacco
- Pulp, paper and printing
- Wood and wood products (other than pulp and paper)
- Construction
- Textiles and leather
- Collection, purification and distribution of water
- Non-specified (any manufacturing industry not included above)

Transport

Consumption of the transport sector covers all transport activity regardless of the economic sector to which it is contributing, and is divided into the following sub-sectors:

- Air transport (international and domestic)
- Road transport
- Railways
- Internal navigation (including small craft and coastal vessels not purchasing their bunker requirements under international marine bunker contracts).

Residential and Commercial

Defined as residential plus commercial.

*Residential shows all consumption by households

*Commercial shows consumption of the commercial and public sectors.

Others

Agriculture and non-energy use are included.