



Asia-Pacific
Economic Cooperation

APEC

ENERGY HANDBOOK 2010

ENERGY WORKING GROUP
OCTOBER 2012

COORDINATING AGENCY:
THE ENERGY DATA AND MODELLING CENTER
THE INSTITUTE OF ENERGY ECONOMICS, JAPAN

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Preface

The APEC Energy Handbook 2010 is a handy, pocket-sized summary of key energy data and a supplement to APEC Energy Statistics 2010 which has been released in October 2012 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	East Asia and Russia	Other East Asia	South- east Asia	Oceania	North America	Latin America
Australia	o				o		
Brunei Darussalam	o			o			
Canada	o					o	
Chile	o						o
China	o	o					
Hong Kong, China	o	o	o				
Indonesia	o			o			
Japan	o	o					
Republic of Korea	o	o	o				
Malaysia	o			o			
Mexico	o						o
New Zealand	o				o		
Papua New Guinea	o				o		
Peru	o						o
Philippines	o			o			
Russia	o	o					
Singapore	o			o			
Chinese Taipei	o	o	o				
Thailand	o			o			
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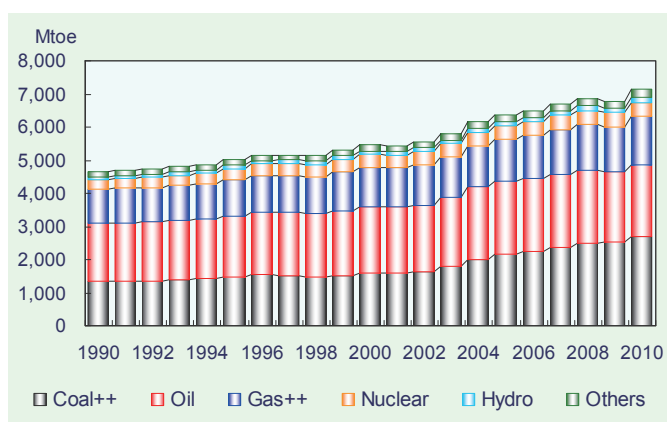
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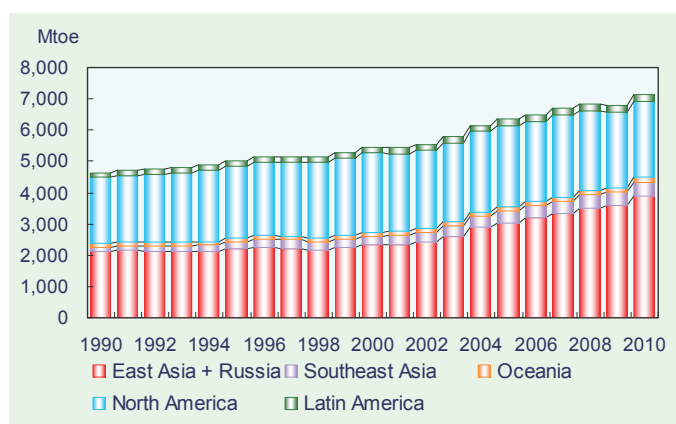
Total Primary Energy Supply by Energy APEC 21



	1990	1995	2000	2005	2009	Mtoe 2010
Coal++	1,359.9	1,485.8	1,571.7	2,150.8	2,519.0	2,687.4
Oil	1,751.6	1,820.2	2,009.9	2,202.0	2,114.1	2,149.8
Gas++	998.5	1,085.8	1,197.5	1,263.6	1,382.4	1,483.4
Nuclear	283.1	344.7	389.2	415.9	424.4	433.2
Hydro	94.7	111.1	111.0	128.5	148.6	156.5
Others	146.6	157.6	173.2	187.2	198.3	232.4
Total	4,634.4	5,005.2	5,452.5	6,347.9	6,786.8	7,142.7

	1990	1995	2000	2005	2009	Share (%) 2010
Coal++	29.3	29.7	28.8	33.9	37.1	37.6
Oil	37.8	36.4	36.9	34.7	31.2	30.1
Gas++	21.5	21.7	22.0	19.9	20.4	20.8
Nuclear	6.1	6.9	7.1	6.6	6.3	6.1
Hydro	2.0	2.2	2.0	2.0	2.2	2.2
Others	3.2	3.1	3.2	2.9	2.9	3.3

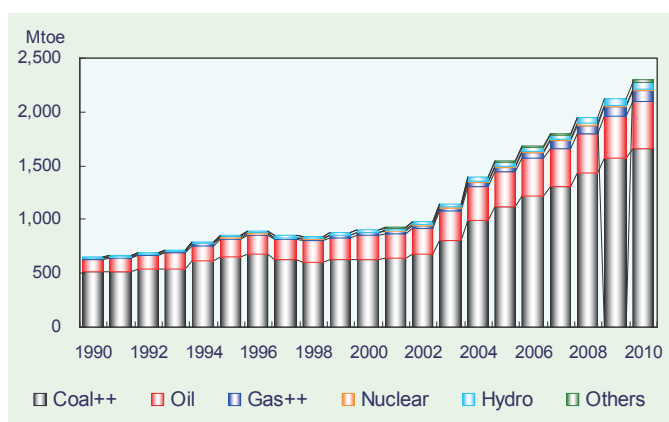
Total Primary Energy Supply by Region APEC 21



	Mtoe					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	2,116.5	2,208.9	2,322.5	3,043.9	3,577.6	3,874.0
Southeast Asia	147.8	225.0	290.0	359.3	424.1	455.7
Oceania	101.7	109.4	126.8	133.8	147.1	146.8
North America	2,125.1	2,304.3	2,531.8	2,602.3	2,420.1	2,439.8
Latin America	144.3	157.7	181.4	208.7	217.9	226.4
APEC 21	4,634.4	5,005.2	5,452.5	6,347.9	6,786.8	7,142.7

	Share (%)					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	45.7	44.1	42.6	48.0	52.7	54.2
Southeast Asia	3.2	4.5	5.3	5.7	6.2	6.4
Oceania	2.2	2.2	2.3	2.1	2.2	2.1
North America	45.9	46.0	46.4	41.0	35.7	34.2
Latin America	3.1	3.2	3.3	3.3	3.2	3.2

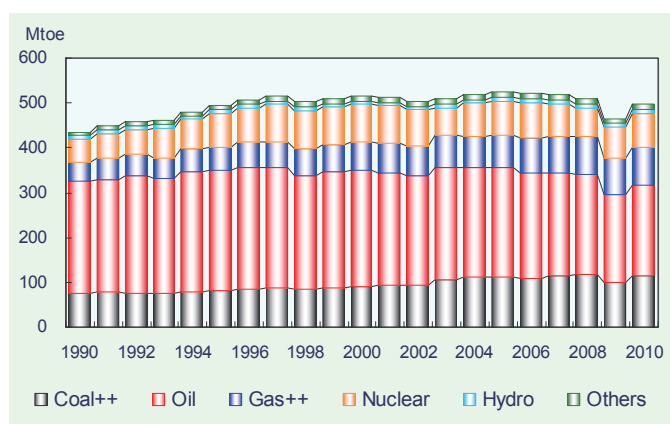
Total Primary Energy Supply by Energy China



	Mtoe					
	1990	1995	2000	2005	2009	2010
Coal++	512.2	659.2	631.2	1,122.1	1,568.8	1,658.3
Oil	114.4	158.5	224.7	319.1	395.3	438.1
Gas++	14.2	16.7	22.4	44.7	83.5	100.1
Nuclear	-	3.3	4.4	13.8	18.3	19.3
Hydro	10.9	16.4	19.1	34.1	52.9	62.1
Others	2.3	3.8	3.4	5.5	-1.0	21.6
Total	654.0	858.0	905.2	1,539.4	2,117.8	2,299.4

	Share (%)					
	1990	1995	2000	2005	2009	2010
Coal++	78.3	76.8	69.7	72.9	74.1	72.1
Oil	17.5	18.5	24.8	20.7	18.7	19.1
Gas++	2.2	1.9	2.5	2.9	3.9	4.4
Nuclear	-	0.4	0.5	0.9	0.9	0.8
Hydro	1.7	1.9	2.1	2.2	2.5	2.7
Others	0.3	0.4	0.4	0.4	-0.0	0.9

Total Primary Energy Supply by Energy Japan

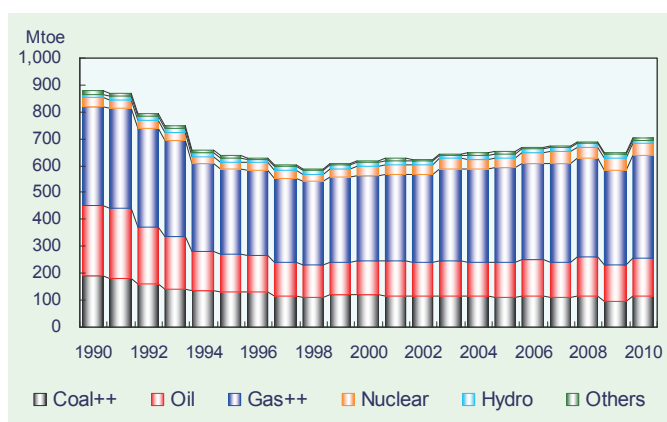


	Mtoe					
	1990	1995	2000	2005	2009	2010
Coal++	75.4	82.9	91.8	112.7	98.7	114.6
Oil	249.1	267.4	256.5	244.3	198.2	201.8
Gas++	43.5	52.0	64.9	70.9	79.1	85.3
Nuclear	51.0	75.0	83.3	76.4	71.6	76.2
Hydro	8.2	7.7	8.1	7.5	7.1	8.2
Others	8.2	9.8	11.2	11.8	10.9	11.9
Total	435.5	494.9	515.8	523.5	465.5	498.0

	Share (%)					
	1990	1995	2000	2005	2009	2010
Coal++	17.3	16.7	17.8	21.5	21.2	23.0
Oil	57.2	54.0	49.7	46.7	42.6	40.5
Gas++	10.0	10.5	12.6	13.5	17.0	17.1
Nuclear	11.7	15.2	16.2	14.6	15.4	15.3
Hydro	1.9	1.6	1.6	1.4	1.5	1.6
Others	1.9	2.0	2.2	2.2	2.3	2.4

Primary Energy Supply

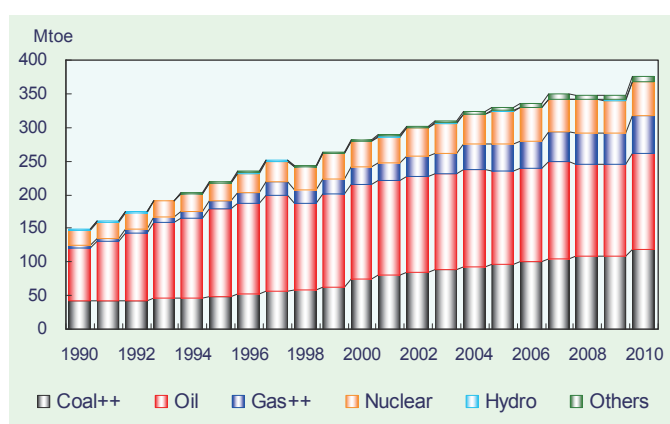
Total Primary Energy Supply by Energy Russia



						Mtoe
	1990	1995	2000	2005	2009	2010
Coal++	191.1	129.2	120.0	112.6	95.3	114.9
Oil	262.7	142.7	126.1	129.2	138.0	139.2
Gas++	367.4	316.6	319.0	349.7	350.4	382.8
Nuclear	30.9	26.0	34.1	39.0	42.7	44.4
Hydro	14.3	15.2	14.2	15.0	15.1	14.5
Others	11.5	6.9	5.7	6.2	5.5	5.9
Total	877.8	636.6	619.2	651.7	646.9	701.7

						Share (%)
	1990	1995	2000	2005	2009	2010
Coal++	21.8	20.3	19.4	17.3	14.7	16.4
Oil	29.9	22.4	20.4	19.8	21.3	19.8
Gas++	41.9	49.7	51.5	53.7	54.2	54.6
Nuclear	3.5	4.1	5.5	6.0	6.6	6.3
Hydro	1.6	2.4	2.3	2.3	2.3	2.1
Others	1.3	1.1	0.9	1.0	0.8	0.8

Total Primary Energy Supply by Energy Other East Asia

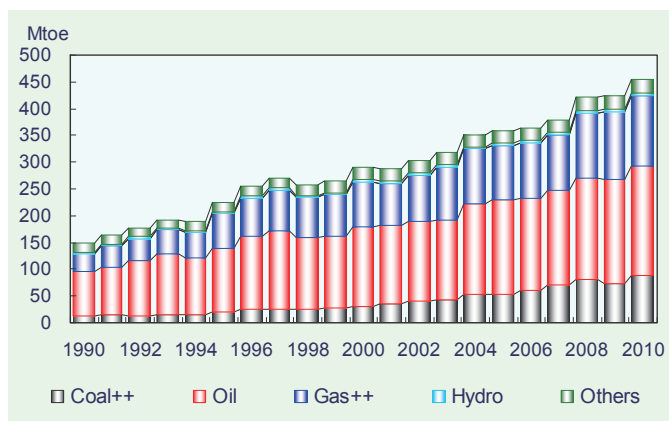


	1990	1995	2000	2005	2009	Mtoe 2010
Coal++	42.1	48.4	73.6	95.8	109.0	118.9
Oil	78.4	129.6	142.3	139.3	136.4	143.2
Gas++	4.5	12.0	24.6	39.9	45.5	55.9
Nuclear	22.3	26.7	38.4	48.7	49.3	49.6
Hydro	1.3	1.2	1.2	1.1	1.2	1.2
Others	0.6	1.5	2.2	4.4	5.9	6.2
Total	149.2	219.4	282.4	329.3	347.4	375.0

	1990	1995	2000	2005	2009	Share (%) 2010
Coal++	28.2	22.1	26.1	29.1	31.4	31.7
Oil	52.6	59.1	50.4	42.3	39.3	38.2
Gas++	3.0	5.5	8.7	12.1	13.1	14.9
Nuclear	15.0	12.2	13.6	14.8	14.2	13.2
Hydro	0.8	0.6	0.4	0.3	0.3	0.3
Others	0.4	0.7	0.8	1.3	1.7	1.7

Primary Energy Supply

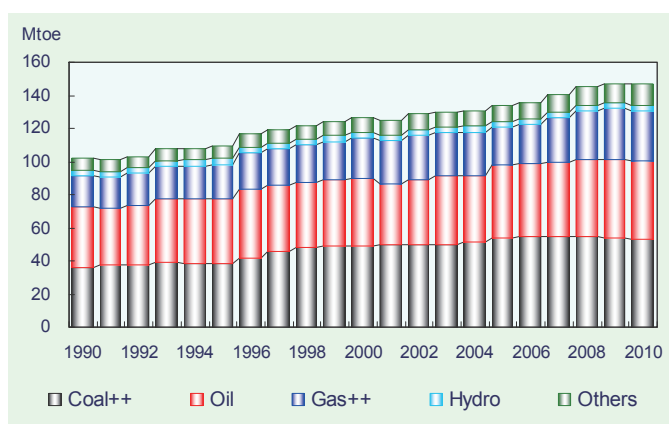
Total Primary Energy Supply by Energy Southeast Asia



	1990	1995	2000	2005	2009	Mtoe 2010
Coal++	12.8	20.2	30.0	53.4	74.2	89.1
Oil	84.1	118.3	148.8	177.6	194.0	204.5
Gas++	31.4	66.1	84.5	101.1	124.5	130.6
Nuclear	-	-	-	-	-	-
Hydro	2.7	3.7	3.9	4.1	5.6	5.7
Others	16.8	16.7	22.8	23.1	25.8	25.8
Total	147.8	225.0	290.0	359.3	424.1	455.7

	1990	1995	2000	2005	2009	Share (%) 2010
Coal++	8.7	9.0	10.3	14.9	17.5	19.6
Oil	56.9	52.6	51.3	49.4	45.7	44.9
Gas++	21.3	29.4	29.1	28.1	29.4	28.7
Nuclear	-	-	-	-	-	-
Hydro	1.8	1.6	1.3	1.2	1.3	1.2
Others	11.4	7.4	7.9	6.4	6.1	5.7

Total Primary Energy Supply by Energy Oceania

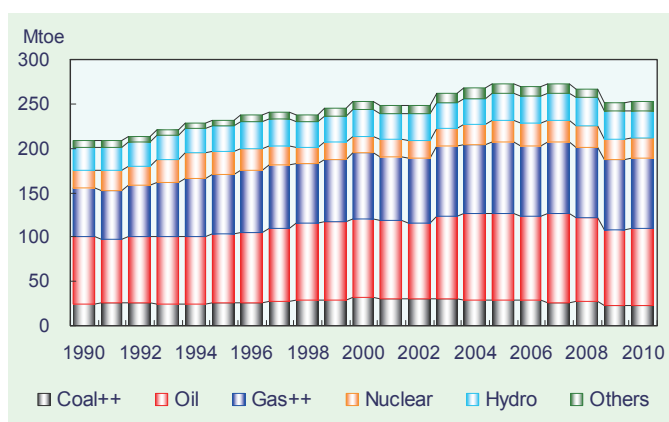


	1990	1995	2000	2005	2009	2010
						Mtoe
Coal++	36.2	38.7	49.3	54.2	53.8	52.7
Oil	36.2	38.7	40.7	44.1	47.5	47.7
Gas++	19.3	20.9	24.3	22.4	30.7	30.3
Nuclear	-	-	-	-	-	-
Hydro	3.3	3.8	3.6	3.4	3.1	3.3
Others	6.7	7.2	8.9	9.6	12.0	12.8
Total	101.7	109.4	126.8	133.8	147.1	146.8

	1990	1995	2000	2005	2009	2010
						Share (%)
Coal++	35.5	35.3	38.8	40.5	36.6	35.9
Oil	35.6	35.4	32.1	33.0	32.3	32.5
Gas++	19.0	19.1	19.1	16.8	20.9	20.7
Nuclear	-	-	-	-	-	-
Hydro	3.3	3.5	2.9	2.6	2.1	2.2
Others	6.6	6.6	7.0	7.2	8.1	8.7

Primary Energy Supply

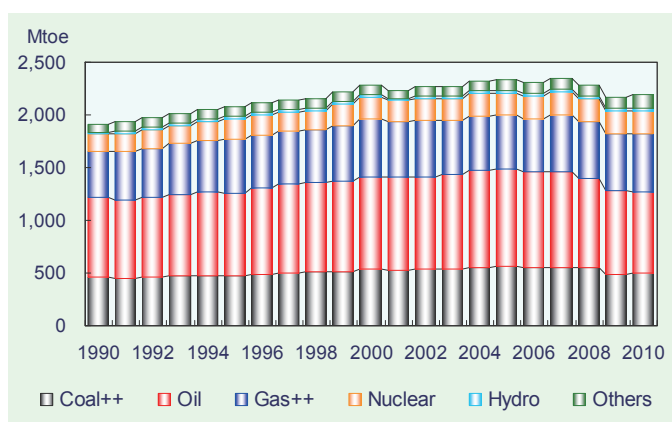
Total Primary Energy Supply by Energy Canada



	Mtoe					
	1990	1995	2000	2005	2009	2010
Coal++	24.3	25.3	31.7	28.8	22.2	22.3
Oil	76.9	78.2	88.3	97.9	86.0	87.2
Gas++	54.7	67.1	74.3	80.6	78.4	78.6
Nuclear	19.0	25.5	19.0	24.0	23.5	23.6
Hydro	25.5	28.9	30.8	31.3	31.7	30.2
Others	8.1	6.7	8.6	10.2	9.6	10.6
Total	208.6	231.8	252.6	272.8	251.4	252.6

	Share (%)					
	1990	1995	2000	2005	2009	2010
Coal++	11.6	10.9	12.5	10.6	8.8	8.8
Oil	36.8	33.7	34.9	35.9	34.2	34.5
Gas++	26.2	29.0	29.4	29.6	31.2	31.1
Nuclear	9.1	11.0	7.5	8.8	9.3	9.4
Hydro	12.2	12.5	12.2	11.5	12.6	12.0
Others	3.9	2.9	3.4	3.7	3.8	4.2

Total Primary Energy Supply by Energy United States of America

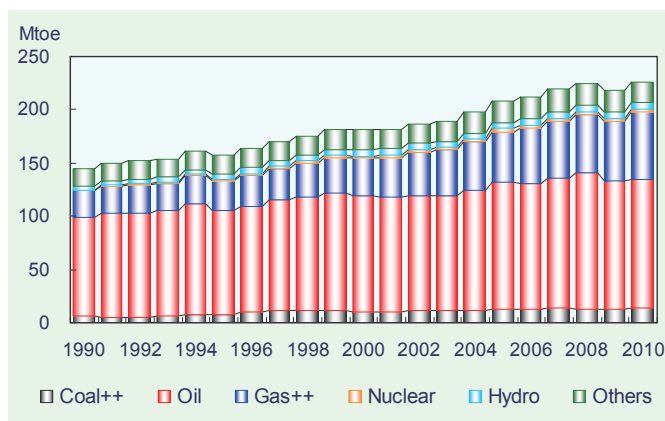


	Mtoe					
	1990	1995	2000	2005	2009	2010
Coal++	460.2	474.0	533.6	558.4	485.0	502.6
Oil	756.8	788.8	874.4	930.9	796.9	767.0
Gas++	438.4	507.4	547.9	507.2	535.4	556.5
Nuclear	159.4	186.0	207.9	211.3	216.4	218.6
Hydro	24.9	29.1	24.1	25.6	25.7	24.6
Others	76.9	87.4	91.4	96.2	109.5	117.8
Total	1,916.5	2,072.5	2,279.2	2,329.5	2,168.8	2,187.2

	Share (%)					
	1990	1995	2000	2005	2009	2010
Coal++	24.0	22.9	23.4	24.0	22.4	23.0
Oil	39.5	38.1	38.4	40.0	36.7	35.1
Gas++	22.9	24.5	24.0	21.8	24.7	25.4
Nuclear	8.3	9.0	9.1	9.1	10.0	10.0
Hydro	1.3	1.4	1.1	1.1	1.2	1.1
Others	4.0	4.2	4.0	4.1	5.0	5.4

Primary Energy Supply

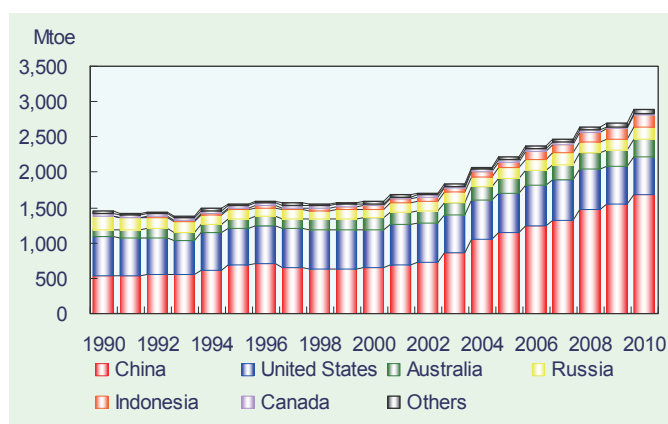
Total Primary Energy Supply by Energy Latin America



	Mtoe					
	1990	1995	2000	2005	2009	2010
Coal++	6.1	8.1	10.5	12.7	12.1	13.9
Oil	92.7	97.8	108.1	119.5	121.8	121.2
Gas++	25.0	26.9	35.7	47.1	54.8	63.3
Nuclear	0.8	2.2	2.1	2.8	2.7	1.5
Hydro	3.7	5.1	5.8	6.2	6.2	6.8
Others	16.0	17.6	19.0	20.4	20.3	19.7
Total	144.3	157.7	181.4	208.7	217.9	226.4

	Share (%)					
	1990	1995	2000	2005	2009	2010
Coal++	4.2	5.1	5.8	6.1	5.6	6.2
Oil	64.3	62.1	59.6	57.3	55.9	53.5
Gas++	17.3	17.1	19.7	22.6	25.2	27.9
Nuclear	0.5	1.4	1.2	1.3	1.3	0.7
Hydro	2.5	3.2	3.2	3.0	2.8	3.0
Others	11.1	11.1	10.5	9.7	9.3	8.7

Indigenous Production of Coal APEC 21

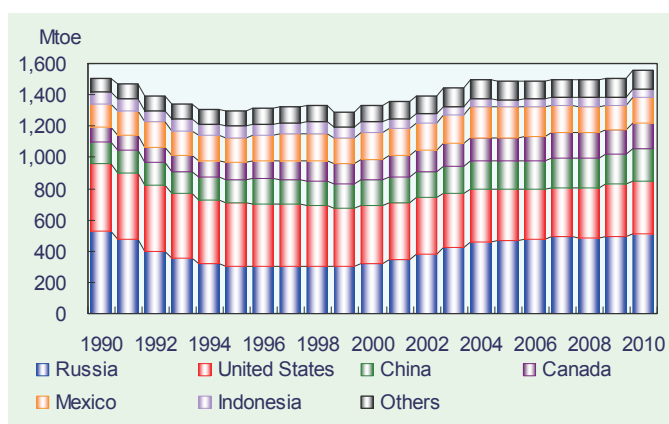


	1990	1995	2000	2005	2009	Mtoe 2010
China	540.0	680.4	649.6	1,143.3	1,557.3	1,691.7
United States	542.3	529.8	536.9	565.3	530.1	531.8
Australia	106.1	127.8	164.6	202.8	225.7	237.3
Russia	192.4	130.7	128.5	157.4	153.6	180.0
Indonesia	5.8	24.0	44.0	82.8	150.8	161.8
Canada	37.9	40.8	34.4	31.9	30.7	33.8
Others	27.0	24.4	25.8	35.7	43.1	43.7
APEC 21	1,451.5	1,557.9	1,583.8	2,219.1	2,691.5	2,880.3

	1990	1995	2000	2005	2009	Share (%) 2010
China	37.2	43.7	41.0	51.5	57.9	58.7
United States	37.4	34.0	33.9	25.5	19.7	18.5
Australia	7.3	8.2	10.4	9.1	8.4	8.2
Russia	13.3	8.4	8.1	7.1	5.7	6.3
Indonesia	0.4	1.5	2.8	3.7	5.6	5.6
Canada	2.6	2.6	2.2	1.4	1.1	1.2
Others	1.9	1.6	1.6	1.6	1.6	1.5

Coal: Hard Coal, Anthracite and Lignite

Indigenous Production of Crude Oil APEC 21

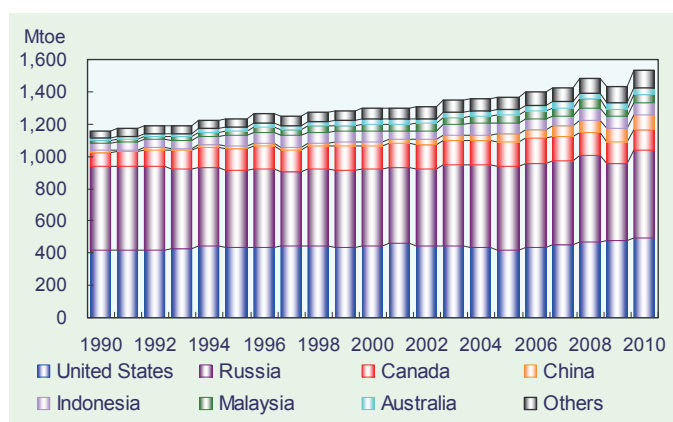


	1990	1995	2000	2005	2009	Mtoe 2010
Russia	526.3	306.6	323.3	468.7	493.6	506.5
United States	432.5	401.1	368.8	324.2	333.9	344.9
China	138.4	150.0	163.0	181.4	189.5	203.0
Canada	94.5	113.9	128.9	148.0	156.9	165.8
Mexico	152.8	155.3	171.1	197.2	157.1	160.6
Indonesia	70.7	72.9	69.0	48.1	54.4	58.0
Others	88.0	96.9	110.7	116.5	117.3	115.2
APEC 21	1,503.2	1,296.7	1,334.8	1,484.2	1,502.8	1,554.2

	1990	1995	2000	2005	2009	Share (%) 2010
Russia	35.0	23.6	24.2	31.6	32.8	32.6
United States	28.8	30.9	27.6	21.8	22.2	22.2
China	9.2	11.6	12.2	12.2	12.6	13.1
Canada	6.3	8.8	9.7	10.0	10.4	10.7
Mexico	10.2	12.0	12.8	13.3	10.5	10.3
Indonesia	4.7	5.6	5.2	3.2	3.6	3.7
Others	5.9	7.5	8.3	7.9	7.8	7.4

Crude Oil includes NGL and condensate

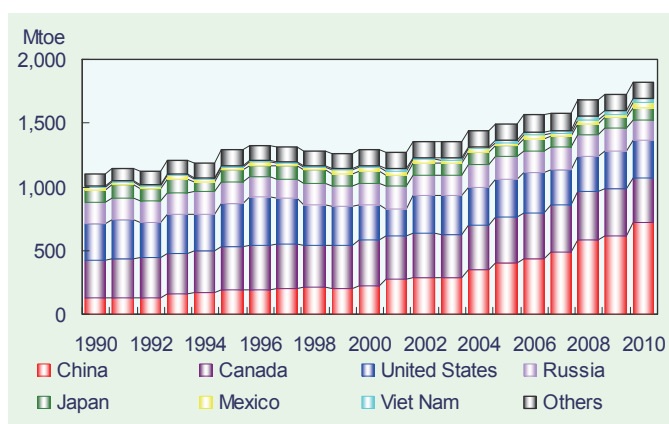
Indigenous Production of Natural Gas APEC 21



	Mtoe					
	1990	1995	2000	2005	2009	2010
United States	418.2	434.6	446.9	421.6	479.7	495.2
Russia	516.8	480.6	470.7	515.8	474.5	540.2
Canada	88.6	130.3	148.4	154.1	135.4	132.3
China	14.2	16.7	25.3	47.4	79.4	88.3
Indonesia	41.0	68.0	65.8	68.7	77.0	76.6
Malaysia	15.5	26.7	44.8	52.0	47.6	47.9
Australia	17.7	25.3	28.4	31.4	39.3	42.5
Others	45.1	51.5	65.3	76.5	95.7	106.5
APEC 21	1,157.1	1,233.6	1,295.7	1,367.5	1,428.6	1,529.7

	Share (%)					
	1990	1995	2000	2005	2009	2010
United States	36.1	35.2	34.5	30.8	33.6	32.4
Russia	44.7	39.0	36.3	37.7	33.2	35.3
Canada	7.7	10.6	11.5	11.3	9.5	8.7
China	1.2	1.4	2.0	3.5	5.6	5.8
Malaysia	1.3	2.2	3.5	3.8	3.3	3.1
Indonesia	3.5	5.5	5.1	5.0	5.4	5.0
Australia	1.5	2.0	2.2	2.3	2.8	2.8
Others	3.9	4.2	5.0	5.6	6.7	7.0

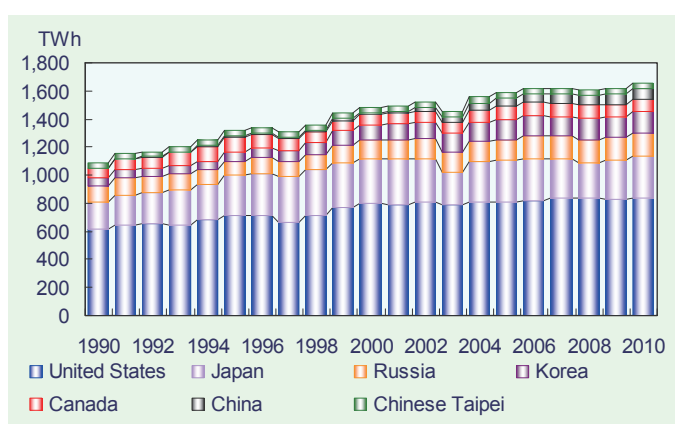
Indigenous Production of Hydro Power APEC 21



	TWh					
	1990	1995	2000	2005	2009	2010
China	126.7	190.6	222.4	397.0	615.6	722.2
Canada	296.8	336.0	358.6	363.7	368.8	351.6
United States	289.0	337.9	280.0	297.9	298.4	286.3
Russia	165.9	176.4	165.4	174.6	176.1	168.4
Japan	95.6	90.0	94.2	87.1	82.4	95.3
Mexico	23.5	27.5	33.1	27.7	26.7	37.1
Viet Nam	5.4	10.6	14.6	17.5	30.0	28.5
Others	98.1	122.7	122.1	128.1	128.7	131.0
APEC 21	1,101.0	1,291.7	1,290.4	1,493.6	1,726.7	1,820.5

	Share (%)					
	1990	1995	2000	2005	2009	2010
China	11.5	14.8	17.2	26.6	35.7	39.7
Canada	27.0	26.0	27.8	24.4	21.4	19.3
United States	26.2	26.2	21.7	19.9	17.3	15.7
Russia	15.1	13.7	12.8	11.7	10.2	9.3
Japan	8.7	7.0	7.3	5.8	4.8	5.2
Mexico	2.1	2.1	2.6	1.9	1.5	2.0
Viet Nam	0.5	0.8	1.1	1.2	1.7	1.6
Others	8.9	9.5	9.5	8.6	7.5	7.2

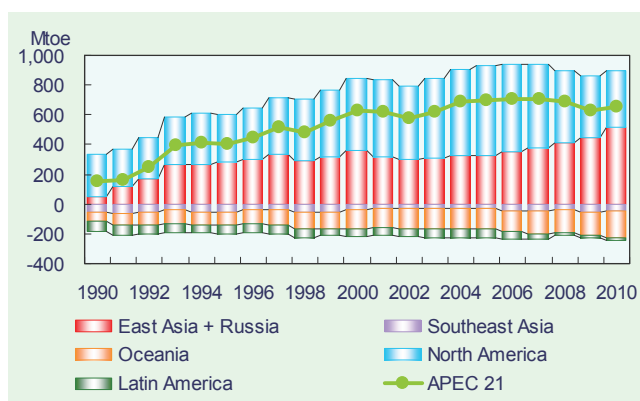
Indigenous Production of Nuclear Power APEC 21



	TWh					
	1990	1995	2000	2005	2009	2010
United States	611.6	713.8	797.7	810.7	830.2	838.9
Japan	195.8	287.9	319.8	293.0	274.7	292.4
Russia	118.3	99.5	130.7	149.4	163.6	170.4
Korea	52.9	67.0	109.0	146.8	147.8	148.6
Canada	73.0	97.8	72.8	92.0	90.1	90.7
China	-	12.8	16.7	53.1	70.1	73.9
Chinese Taipei	32.9	35.3	38.5	40.0	41.6	41.6
Mexico	2.9	8.4	8.2	10.8	10.5	5.9
APEC 21	1,087.3	1,322.7	1,493.4	1,595.9	1,628.5	1,662.3

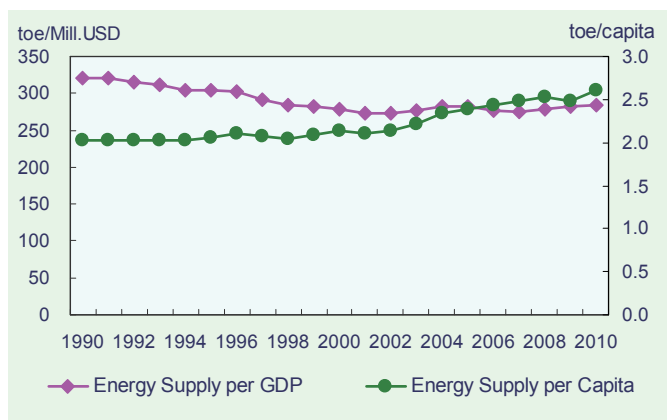
	Share (%)					
	1990	1995	2000	2005	2009	2010
United States	56.2	54.0	53.4	50.8	51.0	50.5
Japan	18.0	21.8	21.4	18.4	16.9	17.6
Russia	10.9	7.5	8.8	9.4	10.0	10.3
Korea	4.9	5.1	7.3	9.2	9.1	8.9
Canada	6.7	7.4	4.9	5.8	5.5	5.5
China	-	1.0	1.1	3.3	4.3	4.4
Chinese Taipei	3.0	2.7	2.6	2.5	2.6	2.5
Mexico	0.3	0.6	0.6	0.7	0.6	0.4

Net Import by Region APEC 21



	1990	1995	2000	2005	2009	Mtoe 2010
Australia	-64.5	-89.2	-127.1	-148.6	-162.5	-185.6
Brunei Darussalam	-12.9	-14.6	-14.8	-19.3	-17.0	-17.0
Canada	-59.3	-119.7	-127.7	-133.9	-144.6	-149.8
Chile	7.0	10.8	17.7	20.5	20.7	22.3
China	-30.5	-8.9	32.4	137.4	282.0	333.7
Hong Kong, China	10.8	14.3	18.2	23.4	29.3	31.1
Indonesia	-65.9	-85.2	-82.4	-73.9	-131.8	-140.7
Japan	371.4	405.7	420.4	433.1	377.1	407.9
Korea	70.1	134.8	165.7	175.6	198.1	221.1
Malaysia	-25.4	-28.3	-27.4	-30.6	-18.7	-15.6
Mexico	-69.9	-68.9	-71.6	-80.3	-42.3	-43.7
New Zealand	2.1	3.1	3.4	4.9	3.4	2.9
Papua New Guinea	-3.7	-4.0	-2.7	-1.1	-0.5	0.9
Peru	-0.6	1.8	3.3	2.8	2.4	-2.8
Philippines	11.9	17.7	20.0	17.0	16.2	17.7
Russia	-412.6	-315.0	-349.6	-539.3	-533.4	-579.0
Singapore	22.9	31.9	40.2	50.9	63.0	67.1
Chinese Taipei	39.4	55.7	76.4	96.4	93.1	101.8
Thailand	18.2	32.6	34.6	48.2	49.7	53.5
United States	341.9	433.4	606.4	736.1	557.0	533.5
Viet Nam	-0.2	-4.7	-9.8	-17.7	-13.8	-7.0
APEC 21	150.4	403.3	625.7	701.6	627.5	651.9

Total Primary Energy Supply per GDP & Capita APEC 21

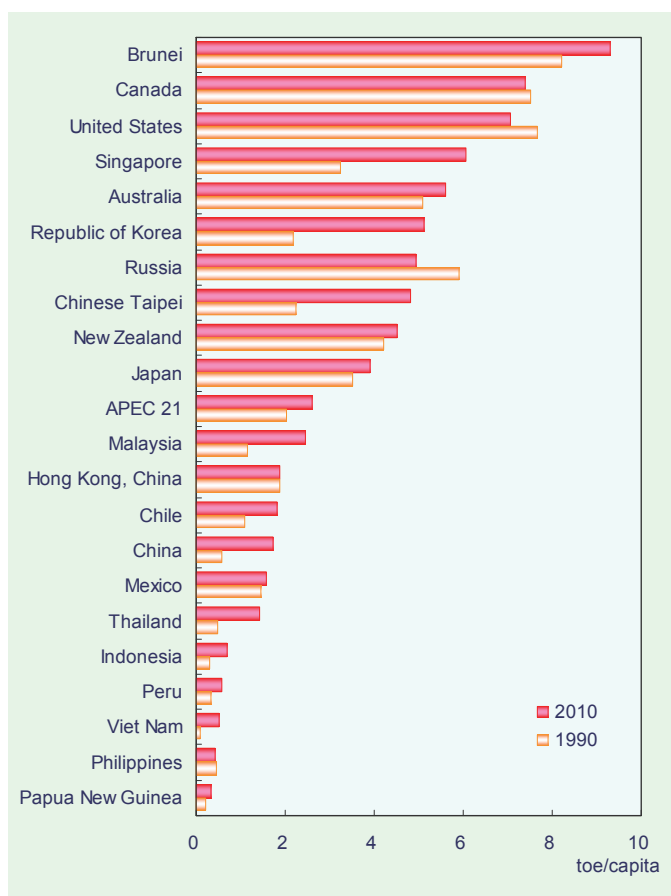


	toe/capita					
	1990	1995	2000	2005	2009	2010
Population (mill.)	2,288	2,428	2,554	2,654	2,729	2,746
Primary Energy Supply per Capita	2.03	2.06	2.14	2.39	2.49	2.60

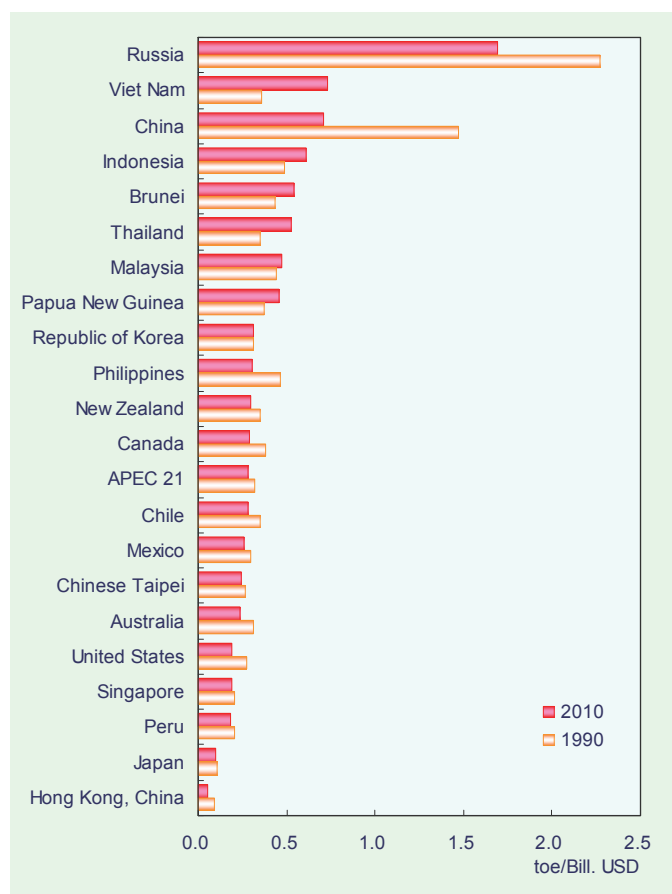
	toe/mill. USD					
	1990	1995	2000	2005	2009	2010
GDP (bill. USD)	14,419	16,419	19,570	22,557	23,988	25,138
Primary Energy Supply per GDP	321.5	304.8	278.6	281.4	282.9	284.1

Primary Energy Supply

Total Primary Energy Supply per Capita 1990 – 2010 by Economy

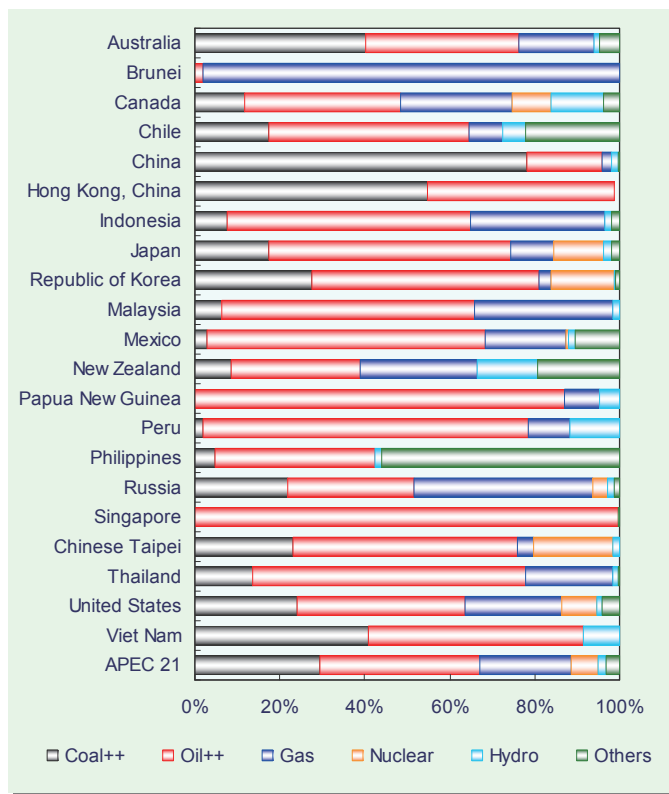


Total Primary Energy Supply per GDP 1990 – 2010 by Economy

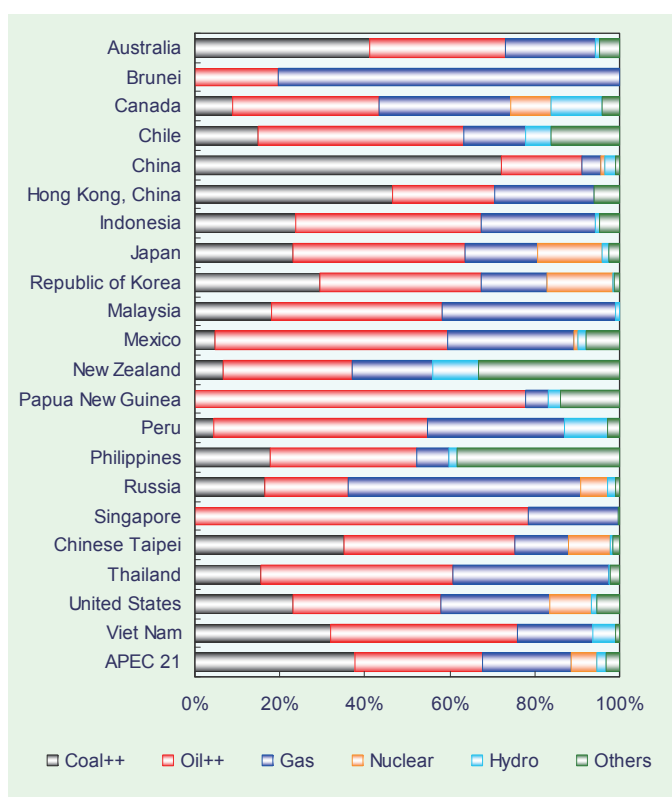


Primary Energy Supply

Primary Energy Mix by Economy 1990

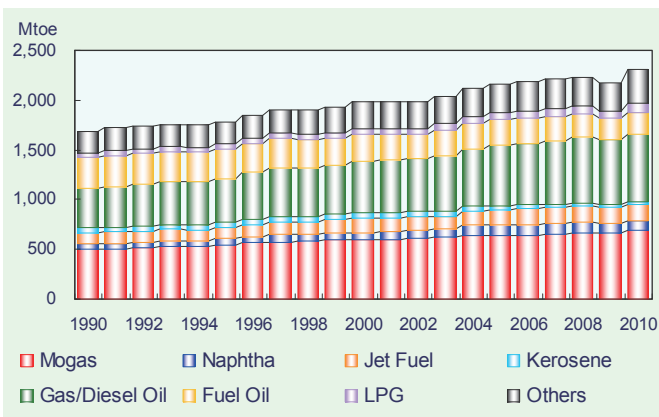


Primary Energy Mix by Economy 2010



Primary Energy Supply

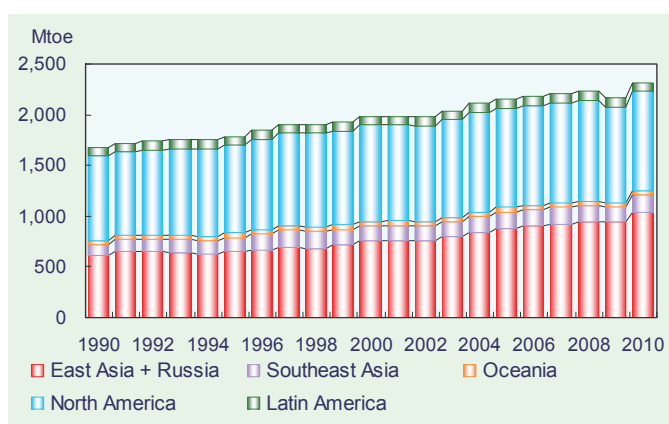
Refining of Petroleum Products by Fuel APEC 21



	Mtoe					
	1990	1995	2000	2005	2009	2010
Mogas	504.4	547.2	599.5	640.6	670.9	688.7
Naphtha	47.7	59.0	72.1	104.5	94.5	102.3
Jet Fuel	120.4	119.7	137.5	153.0	159.4	161.4
Kerosene	41.2	47.2	59.3	45.0	30.0	29.0
Gas/Diesel Oil	401.8	441.7	519.7	604.2	650.1	671.0
Fuel Oil	315.8	297.9	266.8	257.9	212.3	228.8
LPG	42.0	50.8	61.8	68.7	77.7	83.5
Others	207.5	221.3	261.3	280.0	277.0	350.1
Total	1,680.7	1,784.8	1,978.1	2,153.9	2,172.0	2,314.8

	Share (%)					
	1990	1995	2000	2005	2009	2010
Mogas	30.0	30.7	30.3	29.7	30.9	29.8
Naphtha	2.8	3.3	3.6	4.9	4.4	4.4
Jet Fuel	7.2	6.7	7.0	7.1	7.3	7.0
Kerosene	2.4	2.6	3.0	2.1	1.4	1.3
Gas/Diesel Oil	23.9	24.7	26.3	28.1	29.9	29.0
Fuel Oil	18.8	16.7	13.5	12.0	9.8	9.9
LPG	2.5	2.8	3.1	3.2	3.6	3.6
Others	12.3	12.4	13.2	13.0	12.8	15.1

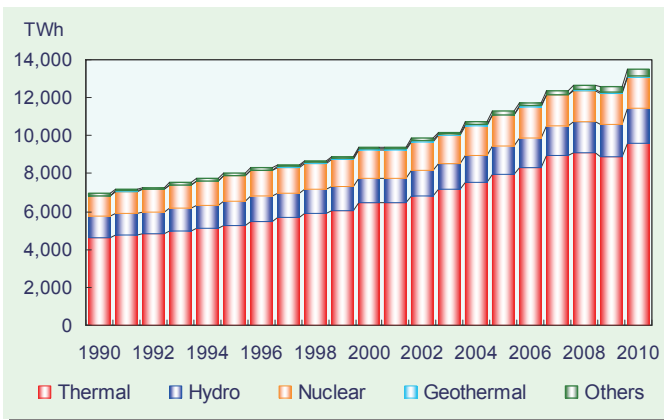
Refining of Petroleum Products by Region APEC 21



	Mtoe					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	614.4	647.3	751.6	877.2	941.5	1,035.5
Southeast Asia	109.8	142.6	154.8	165.7	147.2	169.9
Oceania	37.0	41.2	43.5	40.8	39.2	38.1
North America	840.5	869.5	945.7	979.8	953.0	984.9
Latin America	78.9	84.2	82.6	90.3	91.1	86.3
APEC 21	1,680.7	1,784.8	1,978.1	2,153.9	2,172.0	2,314.8

	Share (%)					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	36.6	36.3	38.0	40.7	43.3	44.7
Southeast Asia	6.5	8.0	7.8	7.7	6.8	7.3
Oceania	2.2	2.3	2.2	1.9	1.8	1.6
North America	50.0	48.7	47.8	45.5	43.9	42.5
Latin America	4.7	4.7	4.2	4.2	4.2	3.7

Electricity Power Generation by Type APEC 21

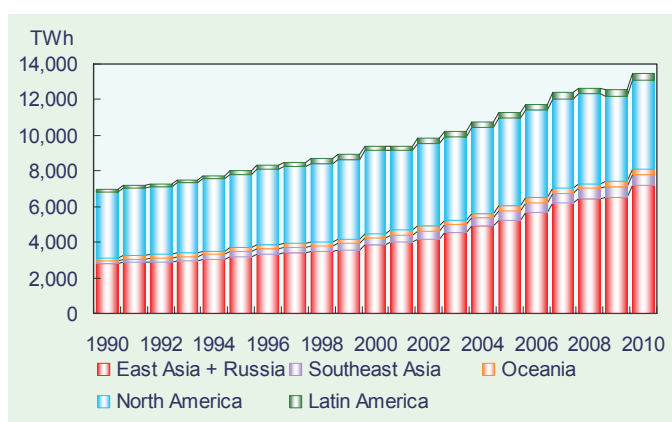


	TWh					
	1990	1995	2000	2005	2009	2010
Thermal	4,629.2	5,272.1	6,451.0	7,967.8	8,871.4	9,591.7
Hydro	1,101.0	1,291.7	1,290.4	1,493.6	1,726.7	1,820.5
Nuclear	1,087.3	1,322.7	1,493.4	1,595.9	1,628.5	1,662.3
Geothermal	31.5	34.1	43.4	47.4	51.1	52.9
Others	113.4	100.6	115.0	170.0	288.3	342.5
Total	6,962.5	8,021.2	9,393.1	11,274.7	12,566.1	13,469.9

	Share (%)					
	1990	1995	2000	2005	2009	2010
Thermal	66.5	65.7	68.7	70.7	70.6	71.2
Hydro	15.8	16.1	13.7	13.2	13.7	13.5
Nuclear	15.6	16.5	15.9	14.2	13.0	12.3
Geothermal	0.5	0.4	0.5	0.4	0.4	0.4
Others	1.6	1.3	1.2	1.5	2.3	2.5

"Others" comprises power generated from renewable energy.

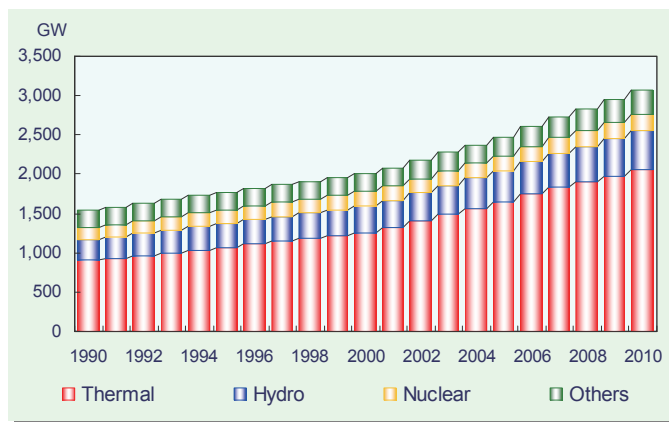
Electricity Power Generation by Region APEC 21



	TWh					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	2,768.5	3,181.2	3,825.5	5,259.4	6,523.5	7,186.0
Southeast Asia	156.7	289.9	393.2	498.4	594.3	640.4
Oceania	189.1	210.8	251.8	274.6	291.3	289.9
North America	3,700.8	4,142.2	4,658.4	4,920.5	4,802.3	4,986.4
Latin America	147.4	197.1	264.2	321.8	354.8	367.3
APEC 21	6,962.5	8,021.2	9,393.1	11,274.7	12,566.1	13,469.9

	Share (%)					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	39.8	39.7	40.7	46.6	51.9	53.3
Southeast Asia	2.3	3.6	4.2	4.4	4.7	4.8
Oceania	2.7	2.6	2.7	2.4	2.3	2.2
North America	53.2	51.6	49.6	43.6	38.2	37.0
Latin America	2.1	2.5	2.8	2.9	2.8	2.7

Power Generation Capacity by Type APEC 21

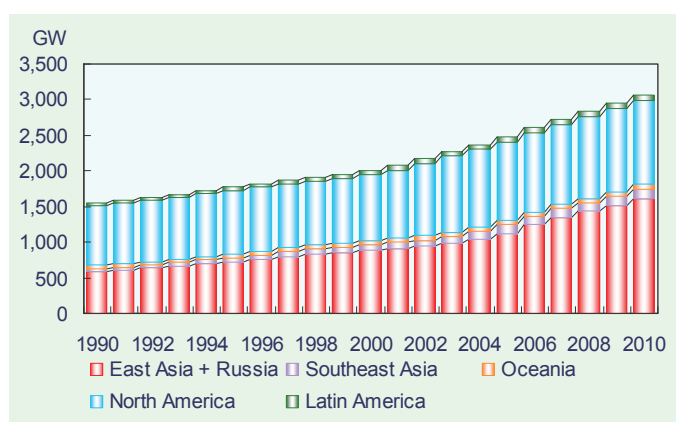


	1990	1995	2000	2005	2009	2010
Thermal	905.1	1,065.3	1,257.1	1,640.1	1,975.7	2,058.0
Hydro	264.6	308.9	344.7	393.2	481.7	502.3
Nuclear	158.3	174.4	176.0	192.1	194.8	197.7
Others	220.7	222.9	223.3	246.4	299.7	313.8
Total	1,548.7	1,771.6	2,001.1	2,471.7	2,951.9	3,071.7

	1990	1995	2000	2005	2009	2010
Thermal	58.4	60.1	62.8	66.4	66.9	67.0
Hydro	17.1	17.4	17.2	15.9	16.3	16.4
Nuclear	10.2	9.8	8.8	7.8	6.6	6.4
Others	14.3	12.6	11.2	10.0	10.2	10.2

Others comprises power generated from renewable energy.

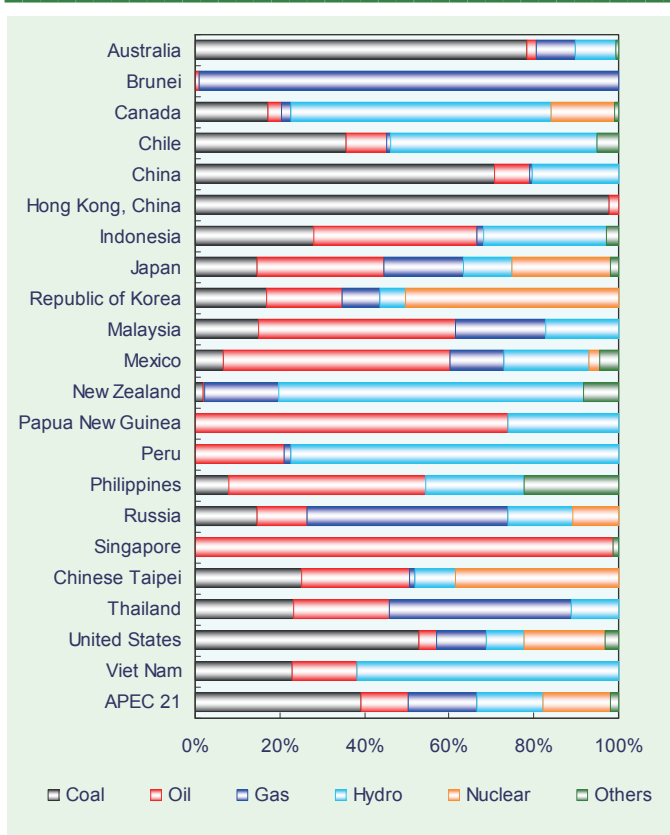
Power Generation Capacity by Region APEC 21



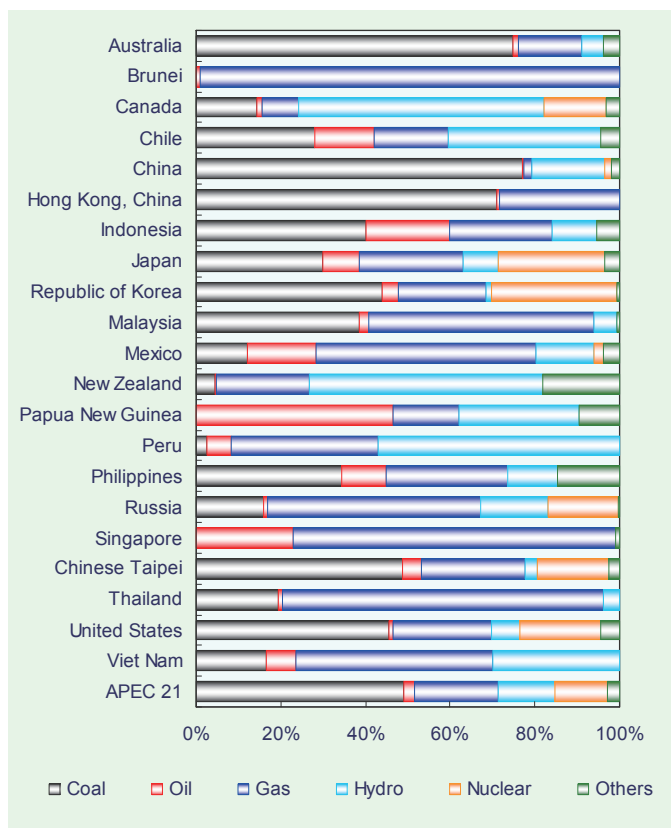
	GW					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	592.3	723.4	883.6	1,124.5	1,518.0	1,614.7
Southeast Asia	37.0	59.8	82.1	115.4	124.0	125.8
Oceania	46.1	50.6	55.1	59.2	64.2	67.0
North America	837.7	891.8	924.0	1,101.4	1,162.3	1,177.9
Latin America	35.6	46.0	56.3	71.3	83.4	86.2
APEC 21	1,548.7	1,771.6	2,001.1	2,471.7	2,951.9	3,071.7

	Share (%)					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	38.2	40.8	44.2	45.5	51.4	52.6
Southeast Asia	2.4	3.4	4.1	4.7	4.2	4.1
Oceania	3.0	2.9	2.8	2.4	2.2	2.2
North America	54.1	50.3	46.2	44.6	39.4	38.3
Latin America	2.3	2.6	2.8	2.9	2.8	2.8

Electricity Power Generation by Economy 1990

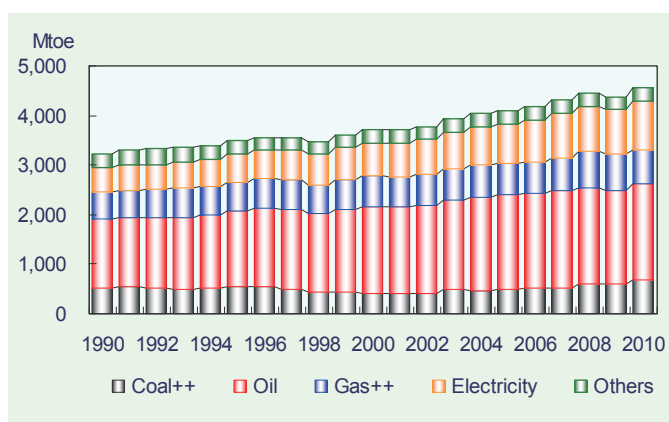


Electricity Power Generation by Economy 2010



Transformation

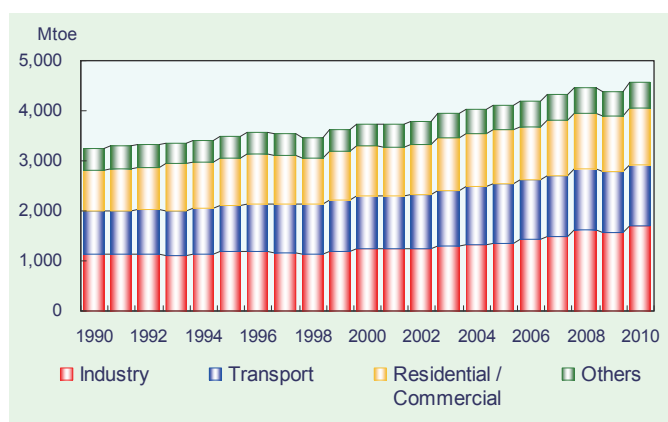
Total Final Energy Consumption by Energy APEC 21



	Mtoe					
	1990	1995	2000	2005	2009	2010
Coal++	519.0	551.5	423.4	492.1	599.6	684.6
Oil	1,388.0	1,520.9	1,723.9	1,910.5	1,887.9	1,939.7
Gas++	551.0	585.3	633.5	627.3	735.8	692.1
Electricity	502.2	563.7	674.3	806.6	903.7	973.1
Others	275.9	272.3	273.7	264.1	258.3	272.1
APEC 21	3,236.1	3,493.7	3,728.7	4,100.5	4,385.2	4,561.6

	Share (%)					
	1990	1995	2000	2005	2009	2010
Coal++	16.0	15.8	11.4	12.0	13.7	15.0
Oil	42.9	43.5	46.2	46.6	43.1	42.5
Gas++	17.0	16.8	17.0	15.3	16.8	15.2
Electricity	15.5	16.1	18.1	19.7	20.6	21.3
Others	8.5	7.8	7.3	6.4	5.9	6.0

Total Final Energy Consumption by Sector APEC 21

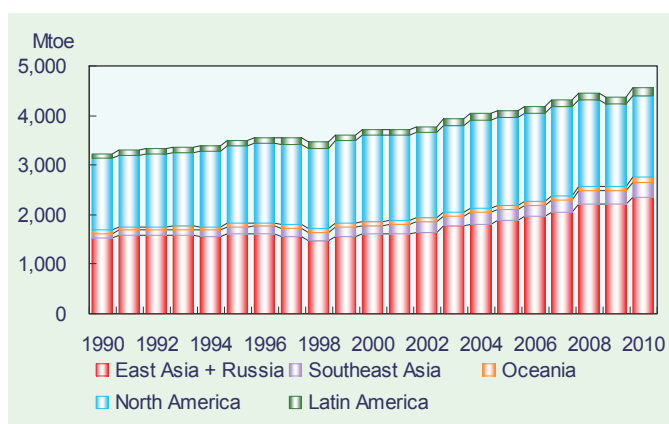


	Mtoe					
	1990	1995	2000	2005	2009	2010
Industry	1,131.1	1,185.6	1,250.1	1,359.0	1,576.4	1,694.0
Transport	862.5	929.0	1,049.7	1,175.9	1,199.8	1,224.1
Residential / Commercial	819.0	951.4	998.0	1,073.9	1,113.5	1,129.8
Others	423.5	427.7	431.0	491.8	495.5	513.8
Total	3,236.1	3,493.7	3,728.7	4,100.5	4,385.2	4,561.6

	Share (%)					
	1990	1995	2000	2005	2009	2010
Industry	35.0	33.9	33.5	33.1	35.9	37.1
Transport	26.7	26.6	28.2	28.7	27.4	26.8
Residential / Commercial	25.3	27.2	26.8	26.2	25.4	24.8
Others	13.1	12.2	11.6	12.0	11.3	11.3

Final Energy Consumption

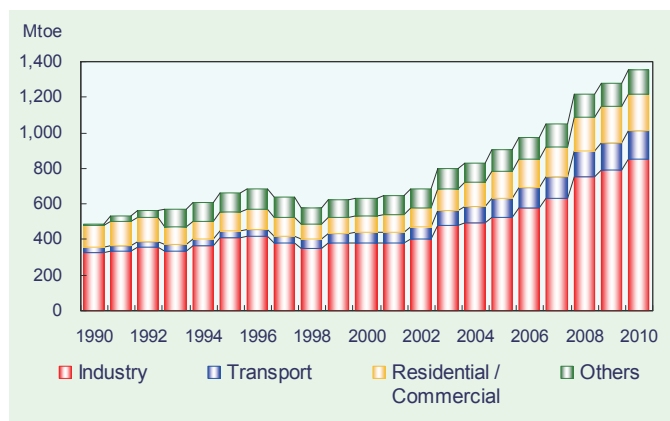
Total Final Energy Consumption by Region APEC 21



	Mtoe					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	1,520.8	1,612.1	1,605.5	1,880.6	2,226.2	2,362.3
Southeast Asia	96.7	145.2	177.4	223.2	262.0	294.1
Oceania	66.8	74.2	83.4	85.8	88.1	89.6
North America	1,450.4	1,550.2	1,734.8	1,775.1	1,664.2	1,665.8
Latin America	101.4	112.1	127.7	135.9	144.6	149.8
APEC 21	3,236.1	3,493.7	3,728.7	4,100.5	4,385.2	4,561.6

	Share (%)					
	1990	1995	2000	2005	2009	2010
East Asia + Russia	47.0	46.1	43.1	45.9	50.8	51.8
Southeast Asia	3.0	4.2	4.8	5.4	6.0	6.4
Oceania	2.1	2.1	2.2	2.1	2.0	2.0
North America	44.8	44.4	46.5	43.3	38.0	36.5
Latin America	3.1	3.2	3.4	3.3	3.3	3.3

Total Final Energy Consumption by Sector China

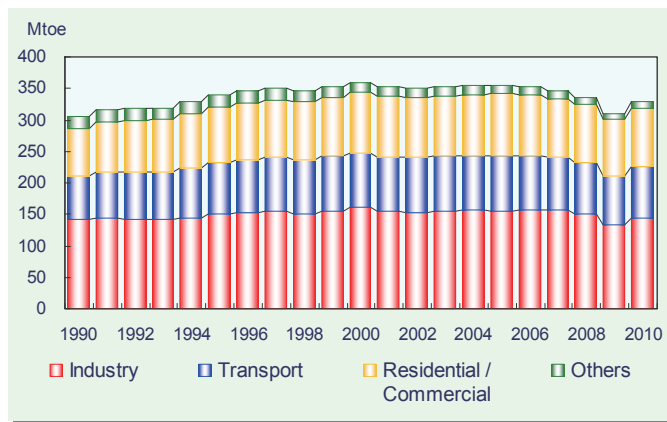


	Mtoe					
	1990	1995	2000	2005	2009	2010
Industry	329.8	410.0	379.3	527.9	794.6	848.6
Transport	28.8	36.4	60.1	105.0	149.6	166.5
Residential / Commercial	118.4	107.0	96.0	153.4	201.4	204.4
Others	13.0	107.3	99.3	117.4	134.1	136.3
Total	489.9	660.7	634.7	903.6	1,279.6	1,355.9

	Share (%)					
	1990	1995	2000	2005	2009	2010
Industry	67.3	62.1	59.8	58.4	62.1	62.6
Transport	5.9	5.5	9.5	11.6	11.7	12.3
Residential / Commercial	24.2	16.2	15.1	17.0	15.7	15.1
Others	2.6	16.2	15.6	13.0	10.5	10.1

Final Energy Consumption

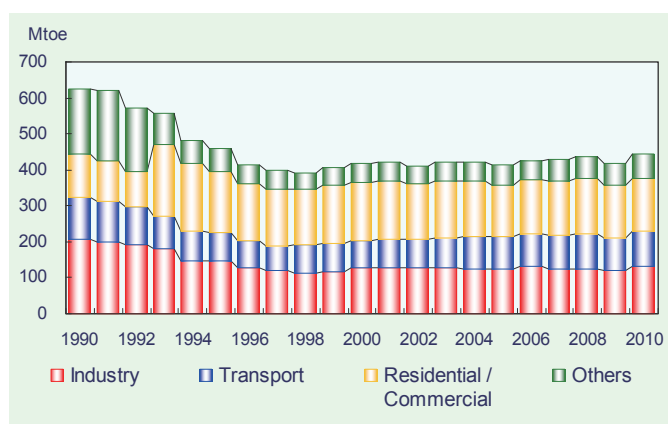
Total Final Energy Consumption by Sector Japan



	1990	1995	2000	2005	2009	Mtoe 2010
Industry	141.0	150.5	160.7	155.7	132.6	144.9
Transport	70.0	81.4	87.4	86.9	78.9	81.0
Residential / Commercial	74.3	88.8	95.3	98.8	88.7	92.8
Others	19.5	19.0	16.6	13.9	9.9	10.0
Total	304.9	339.7	360.1	355.2	310.1	328.6

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	46.3	44.3	44.6	43.8	42.8	44.1
Transport	23.0	24.0	24.3	24.5	25.4	24.6
Residential / Commercial	24.4	26.1	26.5	27.8	28.6	28.2
Others	6.4	5.6	4.6	3.9	3.2	3.0

Total Final Energy Consumption by Sector Russia

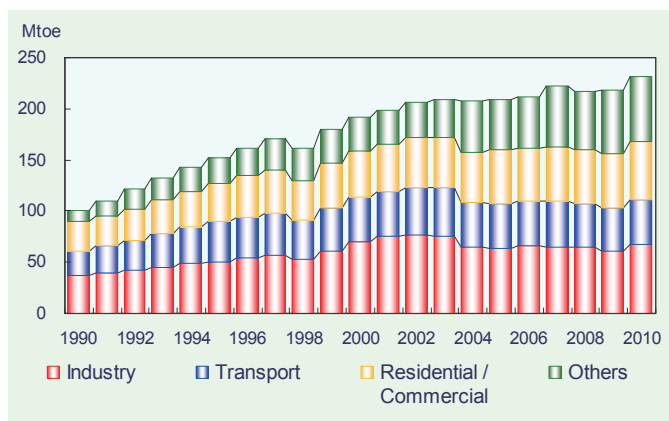


	1990	1995	2000	2005	2008	Mtoe 2009
Industry	208.7	148.3	129.5	124.2	125.4	124.5
Transport	115.9	76.1	74.5	88.6	97.2	89.6
Residential / Commercial	119.8	172.4	162.9	145.3	154.6	147.4
Others	180.7	63.1	51.9	54.4	58.4	61.3
Total	625.0	460.0	418.8	412.4	435.6	422.9

	1990	1995	2000	2005	2008	Share (%) 2009
Industry	33.4	32.2	30.9	30.1	28.8	29.5
Transport	18.5	16.6	17.8	21.5	22.3	21.2
Residential / Commercial	19.2	37.5	38.9	35.2	35.5	34.9
Others	28.9	13.7	12.4	13.2	13.4	14.5

Final Energy Consumption

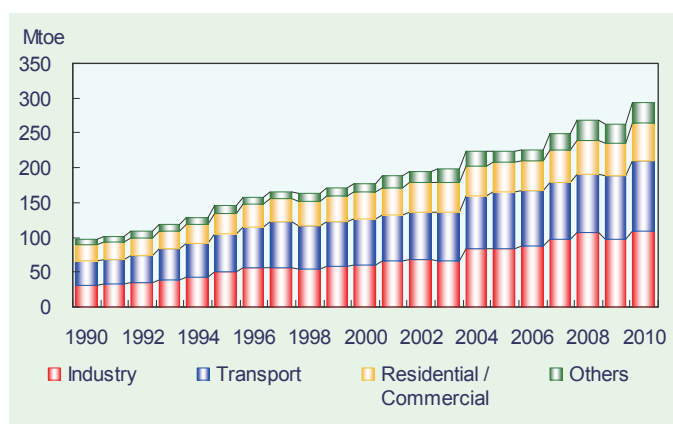
Total Final Energy Consumption by Sector Other East Asia



	1990	1995	2000	2005	2009	Mtoe 2010
Industry	36.4	50.5	69.6	63.4	60.5	67.8
Transport	24.4	38.8	44.5	44.2	42.9	43.9
Residential / Commercial	28.7	37.6	44.7	52.3	53.0	55.7
Others	11.4	24.8	33.1	49.4	61.9	64.6
Total	100.9	151.7	191.9	209.4	218.3	232.0

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	36.1	33.3	36.3	30.3	27.7	29.2
Transport	24.2	25.6	23.2	21.1	19.7	18.9
Residential / Commercial	28.4	24.8	23.3	25.0	24.3	24.0
Others	11.3	16.3	17.2	23.6	28.3	27.8

Total Final Energy Consumption by Sector Southeast Asia

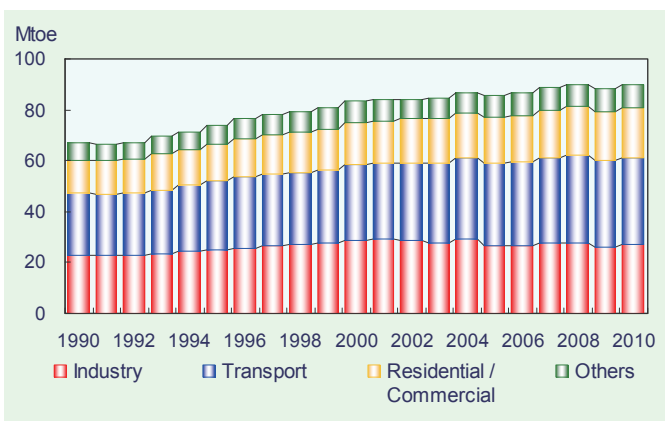


	1990	1995	2000	2005	2009	Mtoe 2010
Industry	31.3	50.9	60.5	83.5	96.3	109.8
Transport	34.4	54.1	65.4	81.1	91.9	101.0
Residential / Commercial	23.1	29.8	38.6	43.0	47.0	54.5
Others	7.9	10.3	12.9	15.5	26.7	28.8
Total	96.7	145.2	177.4	223.2	262.0	294.1

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	32.4	35.1	34.1	37.4	36.8	37.3
Transport	35.5	37.3	36.9	36.4	35.1	34.3
Residential / Commercial	23.9	20.6	21.7	19.3	18.0	18.5
Others	8.2	7.1	7.3	6.9	10.2	9.8

Final Energy Consumption

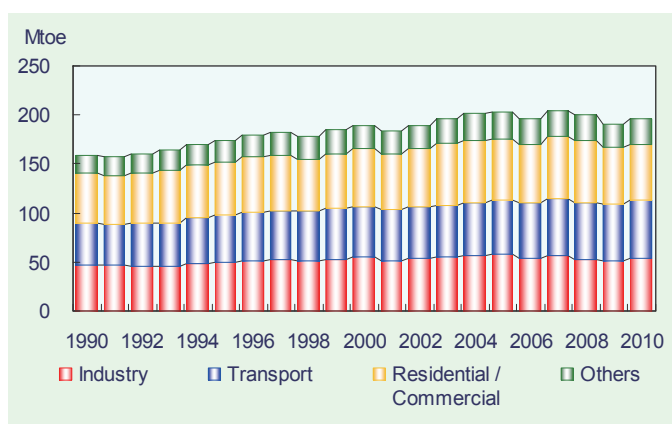
Total Final Energy Consumption by Sector Oceania



	Mtoe					
	1990	1995	2000	2005	2009	2010
Industry	22.9	25.0	28.5	26.8	26.3	27.2
Transport	24.3	27.0	30.0	32.1	33.6	33.8
Residential / Commercial	13.0	14.6	16.5	18.1	19.6	19.7
Others	6.6	7.5	8.4	8.8	8.6	8.9
Total	66.8	74.2	83.4	85.8	88.1	89.6

	Share (%)					
	1990	1995	2000	2005	2009	2010
Industry	34.3	33.8	34.2	31.3	29.8	30.3
Transport	36.4	36.4	36.0	37.4	38.2	37.7
Residential / Commercial	19.5	19.7	19.8	21.1	22.2	22.0
Others	9.9	10.1	10.0	10.3	9.8	10.0

Total Final Energy Consumption by Sector Canada

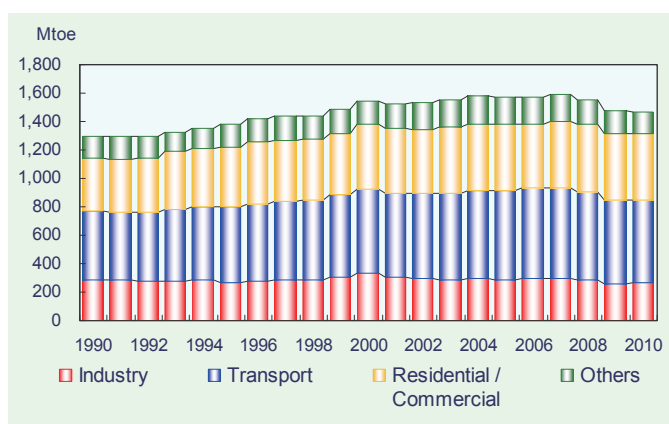


	1990	1995	2000	2005	2009	Mtoe 2010
Industry	47.3	50.1	54.7	57.5	51.4	53.3
Transport	43.1	47.8	52.2	55.8	58.0	60.1
Residential / Commercial	50.4	53.8	58.3	62.3	57.8	56.2
Others	18.0	21.7	23.9	27.1	23.8	26.5
Total	158.8	173.4	189.2	202.7	191.0	196.1

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	29.8	28.9	28.9	28.4	26.9	27.2
Transport	27.2	27.5	27.6	27.5	30.4	30.7
Residential / Commercial	31.8	31.0	30.8	30.7	30.3	28.6
Others	11.3	12.5	12.7	13.4	12.4	13.5

Final Energy Consumption

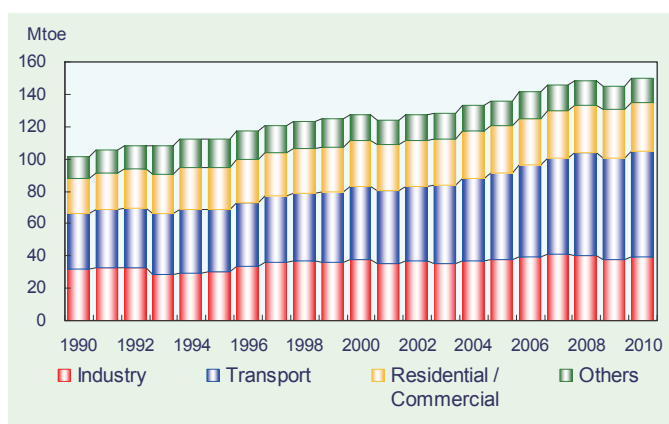
Total Final Energy Consumption by Sector United States of America



	Mtoe					
	1990	1995	2000	2005	2009	2010
Industry	281.8	270.0	329.5	282.4	256.8	270.6
Transport	487.6	529.3	590.4	628.3	592.4	576.1
Residential / Commercial	369.2	421.0	457.1	472.1	468.9	467.7
Others	153.1	156.4	168.6	189.6	155.1	155.3
Total	1,291.6	1,376.8	1,545.6	1,572.4	1,473.2	1,469.7

	Share (%)					
	1990	1995	2000	2005	2009	2010
Industry	21.8	19.6	21.3	18.0	17.4	18.4
Transport	37.7	38.4	38.2	40.0	40.2	39.2
Residential / Commercial	28.6	30.6	29.6	30.0	31.8	31.8
Others	11.9	11.4	10.9	12.1	10.5	10.6

Total Final Energy Consumption by Sector Latin America

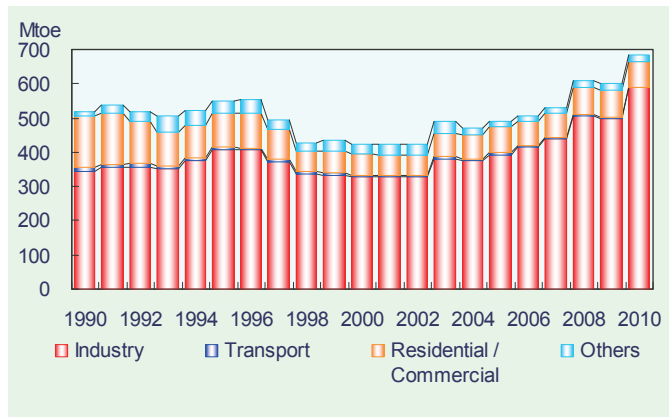


	1990	1995	2000	2005	2009	Mtoe 2010
Industry	31.7	30.2	37.8	37.5	37.9	39.8
Transport	34.1	38.1	45.2	54.1	62.8	65.0
Residential / Commercial	22.1	26.2	28.6	28.6	29.6	30.3
Others	13.5	17.6	16.2	15.7	14.3	14.6
Total	101.4	112.1	127.7	135.9	144.6	149.8

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	31.3	26.9	29.6	27.6	26.2	26.6
Transport	33.6	34.0	35.4	39.8	43.4	43.4
Residential / Commercial	21.8	23.4	22.4	21.0	20.5	20.2
Others	13.3	15.7	12.7	11.5	9.9	9.8

Final Energy Consumption

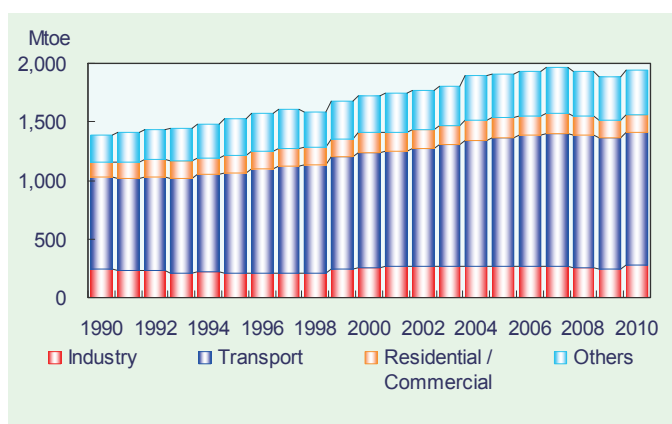
Coal++ Demand by Sector APEC 21



	1990	1995	2000	2005	2009	Mtoe 2010
Industry	345.5	408.2	328.4	392.0	498.2	587.6
Transport	11.2	7.1	5.6	5.6	4.3	3.4
Residential / Commercial	148.7	97.0	60.8	78.0	78.4	72.7
Others	13.6	39.1	28.5	16.4	18.7	20.9
Total	519.0	551.5	423.4	492.1	599.6	684.6

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	66.6	74.0	77.6	79.7	83.1	85.8
Transport	2.2	1.3	1.3	1.1	0.7	0.5
Residential / Commercial	28.6	17.6	14.4	15.9	13.1	10.6
Others	2.6	7.1	6.7	3.3	3.1	3.0

Oil Demand by Sector APEC 21

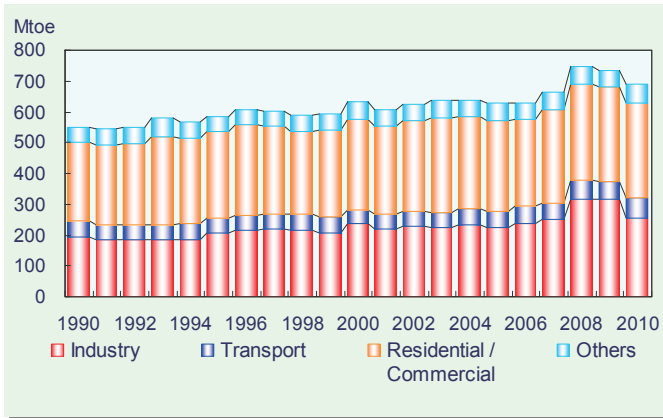


	Mtoe					
	1990	1995	2000	2005	2009	2010
Industry	237.8	203.6	255.8	266.3	242.8	273.3
Transport	786.2	860.6	985.8	1,101.6	1,123.9	1,139.0
Residential / Commercial	135.1	147.5	164.3	167.5	148.6	150.0
Others	228.8	309.2	318.0	375.1	372.6	377.3
Total	1,388.0	1,520.9	1,723.9	1,910.5	1,887.9	1,939.7

	Share (%)					
	1990	1995	2000	2005	2009	2010
Industry	17.1	13.4	14.8	13.9	12.9	14.1
Transport	56.6	56.6	57.2	57.7	59.5	58.7
Residential / Commercial	9.7	9.7	9.5	8.8	7.9	7.7
Others	16.5	20.3	18.4	19.6	19.7	19.5

Final Energy Consumption

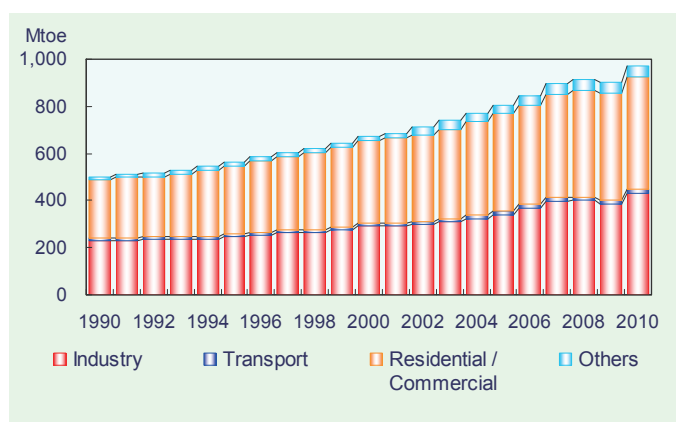
Gas++ Demand by Sector APEC 21



	1990	1995	2000	2005	2009	Mtoe 2010
Industry	194.0	205.5	235.6	222.3	317.7	256.4
Transport	52.5	51.1	47.3	54.1	55.6	64.3
Residential / Commercial	256.7	278.0	292.6	293.7	309.9	309.4
Others	47.8	50.6	58.0	57.2	52.6	62.0
Total	551.0	585.3	633.5	627.3	735.8	692.1

	1990	1995	2000	2005	2009	Share (%) 2010
Industry	35.2	35.1	37.2	35.4	43.2	37.0
Transport	9.5	8.7	7.5	8.6	7.6	9.3
Residential / Commercial	46.6	47.5	46.2	46.8	42.1	44.7
Others	8.7	8.6	9.2	9.1	7.1	9.0

Electricity Demand by Sector APEC 21

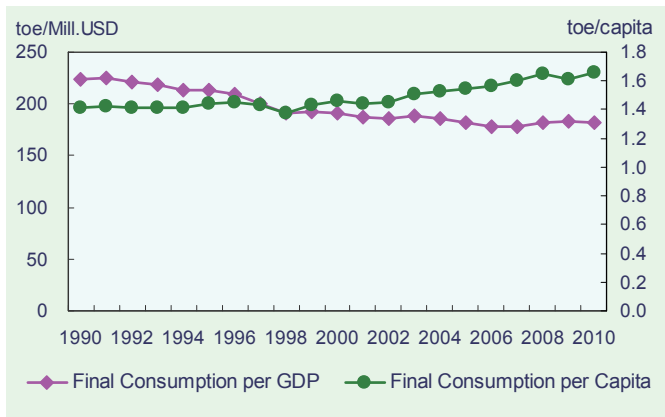


	Mtoe					
	1990	1995	2000	2005	2009	2010
Industry	229.7	246.0	293.3	341.6	386.7	433.3
Transport	12.6	10.1	11.0	14.6	16.0	17.3
Residential / Commercial	246.8	291.7	352.7	412.1	454.6	474.7
Others	13.1	15.9	17.4	38.2	46.4	47.8
Total	502.2	563.7	674.3	806.6	903.7	973.1

	Share (%)					
	1990	1995	2000	2005	2009	2010
Industry	45.7	43.6	43.5	42.4	42.8	44.5
Transport	2.5	1.8	1.6	1.8	1.8	1.8
Residential / Commercial	49.1	51.7	52.3	51.1	50.3	48.8
Others	2.6	2.8	2.6	4.7	5.1	4.9

Final Energy Consumption

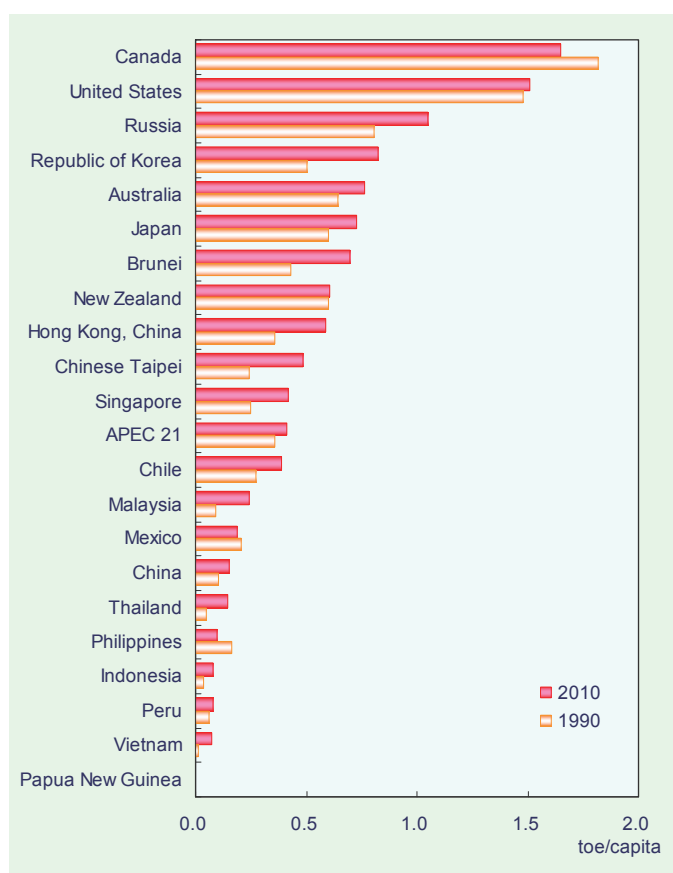
Final Consumption per Capita and GDP APEC 21



	toe/capita					
	1990	1995	2000	2005	2009	2010
Population (mill.)	2,288	2,428	2,554	2,654	2,729	2,746
Final Consumption per Capita	1.41	1.44	1.46	1.55	1.61	1.66

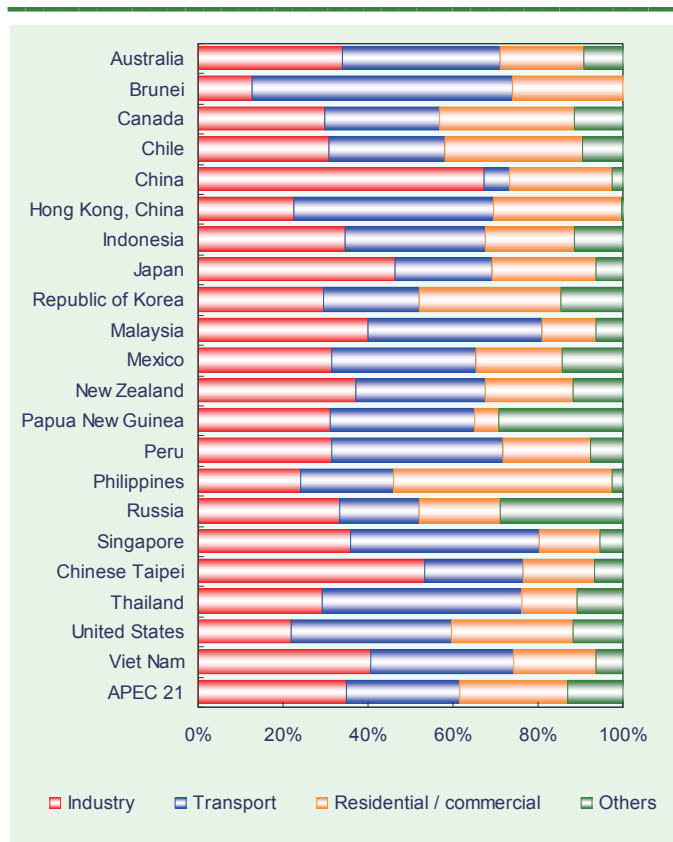
	toe/mill. USD					
	1990	1995	2000	2005	2009	2010
GDP (bill. US\$)	14,419	16,419	19,570	22,557	23,988	25,138
Final Consumption per GDP	224.43	212.78	190.53	181.78	182.81	181.46

Electricity Consumption in Residential/Commercial: APEC 21

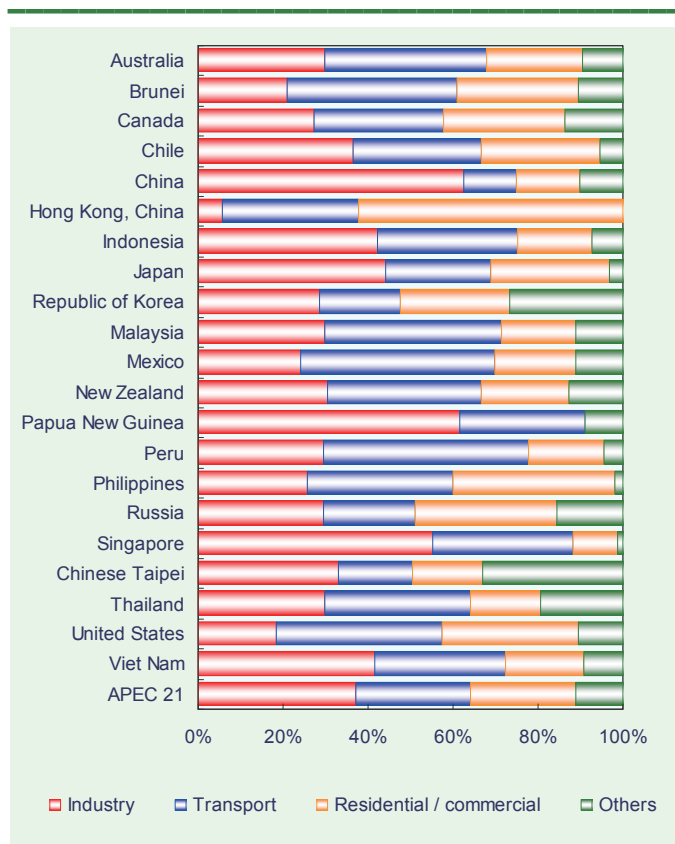


Final Energy Consumption

Final Energy Consumption by Sector 1990

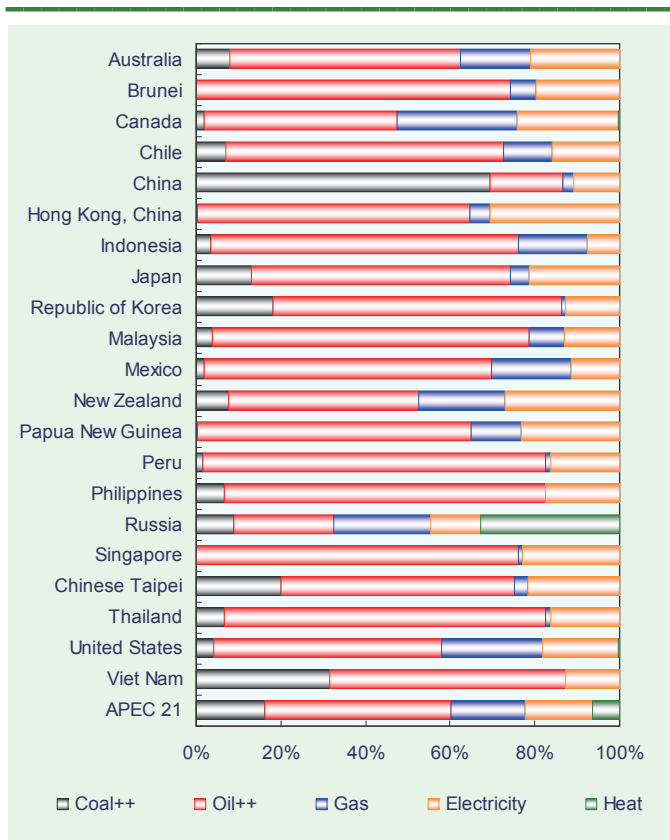


Final Energy Consumption by Sector 2010

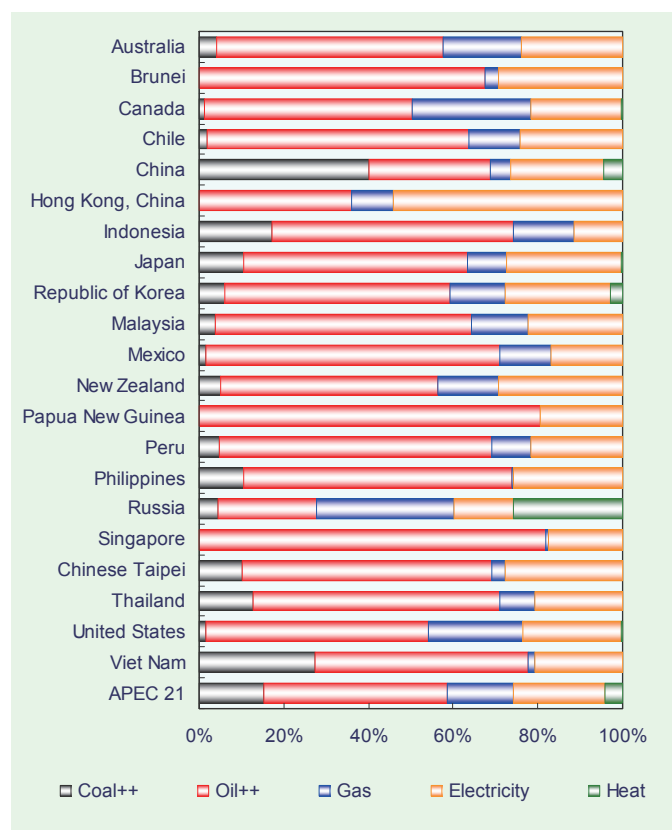


Final Energy Consumption

Final Energy Consumption by Energy 1990

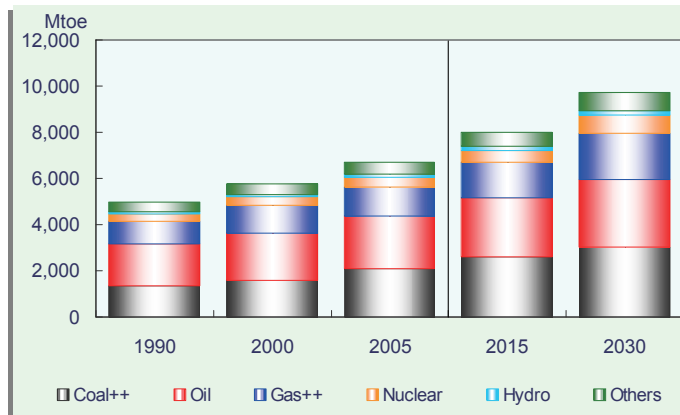


Final Energy Consumption by Energy 2010



Final Energy Consumption

Primary Energy Supply Outlook by Energy

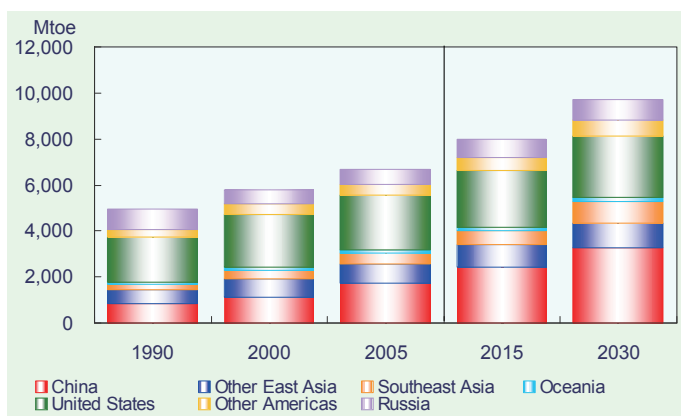


	1990	2000	2005	2015	2030
Coal++	1,367	1,572	2,110	2,596	3,011
Oil	1,793	2,054	2,260	2,544	2,927
Gas++	998	1,193	1,268	1,551	1,993
Nuclear	286	390	419	532	822
Hydro	92	108	125	166	191
Others	423	474	497	596	779
Total	4,959	5,790	6,679	7,985	9,723

	1990	2000	2005	2015	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



	1990	2000	2005	2015	2030
					Mtoe
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 (%)
					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	
	1990	2000	2010	1990	2000	2010	1990	2000
APEC 21	2,288	2,554	2,746	14,419	19,570	25,138	16,224	22,742
East Asia and Russia	1,328	1,465	1,545	5,254	6,941	9,844	4,880	7,739
China	1,135.2	1,262.6	1,338.3	444.6	1,198.5	3,246.0	1,108.4	2,987.9
Hong Kong, China	5.7	6.7	7.1	115.2	169.1	251.2	119.9	176.1
Japan	123.5	126.9	127.5	4,229.5	4,731.2	5,094.4	2,945.3	3,294.7
Republic of Korea	42.9	47.0	48.9	295.6	533.4	801.4	448.0	808.4
Russia	148.3	146.3	141.8	385.9	259.7	415.3	1,485.4	999.7
Chinese Taipei	20.4	22.3	23.2	168.7	308.8	450.9	258.0	472.3
Southeast Asia	324.6	381.6	436.1	348.9	562.9	908.3	853	1,352
Brunei Darussalam	0.3	0.3	0.4	4.8	6.0	6.9	11.3	14.1
Indonesia	184.3	213.4	239.9	109.2	165.0	274.7	328.4	496.6
Malaysia	18.2	23.4	28.4	47.2	93.8	147.3	106.7	212.1
Philippines	61.6	77.3	93.3	61.1	81.0	129.0	139.5	185.0
Singapore	3.0	4.0	5.1	47.3	94.3	162.9	68.2	136.0
Thailand	57.1	63.2	69.1	79.4	122.7	187.5	199.2	308.0
Viet Nam	66.0	77.6	86.9	15.0	31.2	62.8	53.0	110.0
Oceania	24.6	28.4	33.5	318.1	441.7	592.1	429.8	596.8
Australia	17.1	19.2	22.3	275.7	384.9	519.8	362.6	506.1
New Zealand	3.3	3.9	4.4	40.1	53.4	67.2	61.1	81.4
Papua New Guinea	4.2	5.4	6.9	2.3	3.5	5.1	6.2	9.3
North America	277.4	312.9	343.5	7,608	10,624	12,421	7,719	10,773
Canada	27.8	30.8	34.1	543.6	724.9	872.8	655.5	874.1
United States of America	249.6	282.2	309.3	7,064	9,899	11,548	7,064	9,899
Latin America	119.2	141.2	159.6	489.9	710.0	895.1	803.7	1,171.4
Chile	13.2	15.4	17.1	40.4	75.2	110.0	76.8	142.9
Mexico	84.3	100.0	113.4	413.3	581.4	692.5	640.8	901.4
Peru	21.7	25.9	29.1	36.1	53.3	92.6	86.1	127.2

	Energy Indigenous Production			Net Import			Total Primary Energy Supply				
	Mtoe			Mtoe			Mtoe				
	2010	1990	2000	2010	1990	2000	2010	1990	2000	2010	
	32,706	4,638	4,889	6,788	150.4	625.7	651.9	4,635	5,453	7,143	
	13,806	815	1,019	2,246	461.3	713.2	1,095.5	1,239	1,703	3,172	
	8,092.7	705.8	865.5	2,087.1	-30.5	32.4	333.7	654.0	905.2	2,299.4	CHN
	261.6	0.0	0.0	0.1	10.8	18.2	31.1	10.6	15.1	13.4	HKG
	3,547.6	75.8	107.1	100.6	371.4	420.4	407.9	435.5	515.8	498.0	JPN
	1,214.6	22.6	34.6	45.0	70.1	165.7	221.1	93.1	188.3	250.1	KOR
	1,598.7	1,292.8	977.9	1,293.1	-412.6	-349.6	-579.0	877.8	619.2	701.7	RUS
	689.7	10.7	11.5	13.6	39.4	76.4	101.8	45.5	79.0	111.5	TWN
	2,176	210.3	329.1	483.9	-51.1	-29.8	-35.1	142.4	275.2	409.8	
	16.1	15.3	17.4	20.6	-12.9	-14.8	-17.0	2.1	2.7	3.7	BRN
	826.7	119.4	184.0	306.0	-65.9	-82.4	-140.7	53.3	101.2	167.0	IDN
	332.9	46.5	79.5	85.1	-25.4	-27.4	-15.6	21.0	51.5	69.6	MYS
	294.6	17.2	19.6	23.2	11.9	20.0	17.7	28.3	39.0	39.5	PHL
	235.0	0.0	0.1	0.1	22.9	40.2	67.1	9.9	20.4	30.8	SGP
	470.5	11.9	28.6	48.9	18.2	34.6	53.5	27.9	60.4	99.2	THA
	221.7	5.8	25.8	51.3	-0.2	-9.8	-7.0	5.4	14.8	45.9	VNM
	799.5	175.4	252.2	330.4	-66.1	-126.5	-181.9	101.7	126.8	146.8	
	683.5	158.1	233.4	310.6	-64.5	-127.1	-185.6	86.8	108.0	124.7	AUS
	102.5	12.7	15.0	18.4	2.1	3.4	2.9	14.0	17.7	19.8	NZL
	13.5	4.6	3.9	1.4	-3.7	-2.7	0.9	0.9	1.1	2.3	PNG
	12,600	1,928	2,047	2,131	282.6	478.7	383.7	2,125	2,532	2,440	
	1,052.4	273.7	373.9	398.7	-59.3	-127.7	-149.8	208.6	252.6	252.6	CAN
	11,548	1,654.0	1,673.0	1,731.8	341.9	606.4	533.5	1,916.5	2,279.2	2,187.2	USA
	1,503.3	210.8	238.7	252.5	-63.4	-50.6	-24.3	144.3	181.4	226.4	
	209.0	7.9	8.6	9.2	7.0	17.7	22.3	14.2	25.2	30.9	CHL
	1,073.5	194.7	222.3	226.4	-69.9	-71.6	-43.7	122.5	145.1	178.4	MEX
	220.8	8.2	7.8	16.9	-0.6	3.3	-2.8	7.5	11.0	17.0	PER

Energy Indicators

	Total Final Energy Consumption			Final Consumption of Electricity			Total Primary Energy Supply	
	Mtoe			TWh			toe / Person	
	1990	2000	2010	1990	2000	2010	1990	2000
APEC 21	3,236	3,729	4,562	5,840	7,841	11,315	2.03	2.14
East Asia and Russia	895.7	1,186.7	1,916.4	1,543.4	2,477.4	5,191.8	0.93	1.16
China	489.9	634.7	1,355.9	606.4	1,053.7	3,449.9	0.58	0.72
Hong Kong, China	6.7	11.2	6.7	23.8	36.3	41.9	1.87	2.26
Japan	304.9	360.1	328.6	744.8	964.1	1,032.3	3.52	4.07
Republic of Korea	64.9	127.1	157.2	94.4	263.1	449.3	2.17	4.01
Russia	625.0	418.8	445.8	826.6	608.5	726.7	5.92	4.23
Chinese Taipei	29.3	53.6	68.1	74.0	160.1	218.3	2.23	3.55
Southeast Asia	92.5	165.4	258.1	125.2	326.2	500.3	0.44	0.72
Brunei Darussalam	0.4	0.6	1.0	1.0	2.5	3.3	8.22	8.26
Indonesia	34.0	63.6	111.7	30.5	108.9	147.4	0.29	0.47
Malaysia	13.1	29.7	40.3	19.9	61.2	104.5	1.15	2.20
Philippines	19.5	23.5	23.6	21.2	36.6	55.3	0.46	0.50
Singapore	5.3	9.4	19.9	14.2	29.1	40.8	3.25	5.07
Thailand	20.2	38.7	61.6	38.3	87.9	149.0	0.49	0.96
Viet Nam	4.2	11.9	36.0	6.2	22.4	86.9	0.08	0.19
Oceania	66.8	83.4	89.6	159.1	209.3	243.7	4.14	4.47
Australia	56.5	69.6	75.4	129.2	172.7	201.2	5.09	5.64
New Zealand	9.7	12.9	12.8	28.2	34.2	39.3	4.22	4.60
Papua New Guinea	0.6	0.9	1.4	1.7	2.3	3.2	0.21	0.21
North America	1,450.4	1,734.8	1,665.8	3,051.7	3,981.1	4,271.9	7.66	8.09
Canada	158.8	189.2	196.1	418.1	481.6	469.9	7.51	8.21
United States of America	1,291.6	1,545.6	1,469.7	2,633.6	3,499.5	3,801.9	7.68	8.08
Latin America	101.4	127.7	149.8	127.5	216.3	294.2	1.21	1.28
Chile	11.1	20.4	23.8	15.5	36.8	54.7	1.08	1.64
Mexico	84.1	98.2	113.5	100.2	162.2	207.9	1.45	1.45
Peru	6.2	9.2	12.5	11.8	17.3	31.6	0.35	0.43

	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				
	2010	1990	2000	2010	1990	2000	2010	1990	2000		2010
	2.60	321.5	278.6	284.1	285.7	239.8	215.0	1.41	1.46	1.66	
	2.05	235.8	245.4	322.3	244.5	209.9	221.7	0.67	0.81	1.24	
	1.72	1,471.0	755.3	708.4	590.0	302.9	284.1	0.43	0.50	1.01	CHN
	1.89	92.4	89.2	53.2	88.7	85.7	51.1	1.17	1.68	0.95	HKG
	3.91	103.0	109.0	97.7	147.8	156.6	140.4	2.47	2.84	2.58	JPN
	5.12	314.9	353.0	312.1	207.8	232.9	205.9	1.51	2.70	3.22	KOR
	4.95	2,274.7	2,384.0	1,689.4	591.0	619.4	438.9	4.21	2.86	3.15	RUS
	4.81	269.6	255.8	247.3	176.2	167.2	161.7	1.44	2.40	2.94	TWN
	0.94	408.2	488.9	451.2	166.9	203.6	188.3	0.29	0.43	0.59	
	9.29	430.7	450.0	539.3	183.8	192.0	230.1	1.65	1.94	2.46	BRN
	0.70	487.9	613.5	607.8	162.1	203.9	202.0	0.18	0.30	0.47	IDN
	2.45	444.3	549.0	472.6	196.5	242.8	209.0	0.72	1.27	1.42	MYS
	0.42	463.3	480.9	306.1	202.9	210.6	134.1	0.32	0.30	0.25	PHL
	6.06	209.2	216.5	188.9	145.1	150.1	131.0	1.75	2.33	3.93	SGP
	1.44	351.8	491.9	529.3	140.2	196.0	210.9	0.35	0.61	0.89	THA
	0.53	360.5	476.1	730.7	102.2	134.9	207.1	0.06	0.15	0.41	VNM
	4.38	319.9	287.1	248.0	236.7	212.5	183.6	2.72	2.94	2.67	
	5.59	315.0	280.5	240.0	239.5	213.3	182.5	3.31	3.63	3.38	AUS
	4.52	350.4	332.3	293.9	229.9	218.0	192.9	2.92	3.35	2.92	NZL
	0.34	369.7	320.9	459.9	139.0	120.7	172.9	0.15	0.16	0.21	PNG
	7.10	279.3	238.3	196.4	275.3	235.0	193.6	5.23	5.54	4.85	
	7.40	383.7	348.5	289.4	318.2	289.0	240.0	5.71	6.15	5.75	CAN
	7.07	271.3	230.2	189.4	271.3	230.2	189.4	5.17	5.48	4.75	USA
	1.42	294.5	255.4	252.9	179.5	154.8	150.6	0.85	0.90	0.94	
	1.81	351.8	335.4	281.1	185.2	176.5	148.0	0.84	1.32	1.39	CHL
	1.57	296.4	249.5	257.6	191.2	161.0	166.2	1.00	0.98	1.00	MEX
	0.59	208.7	207.1	183.9	87.5	86.9	77.1	0.29	0.36	0.43	PER

	Energy Related CO ₂ Emission			CO ₂ Emission per Capita		
	Mt-C			t-C / Person		
	1990	2000	2010	1990	2000	2010
APEC 21	-	3,902.9	5,085.9	-	1.528	1.852
East Asia and Russia	973.2	1,345.0	2,500.0	0.733	0.918	1.618
China	581.5	847.6	1,971.0	0.512	0.671	1.473
Hong Kong, China	8.9	8.5	11.0	1.565	1.278	1.554
Japan	288.6	317.5	306.3	2.336	2.502	2.404
Republic of Korea	63.8	111.3	140.6	1.489	2.367	2.876
Russia	613.7	408.8	422.8	4.139	2.794	2.983
Chinese Taipei	30.4	60.2	71.2	1.489	2.702	3.072
Southeast Asia	-	172.9	277.1	-	0.453	0.635
Brunei Darussalam	1.2	1.4	2.0	4.839	4.299	4.937
Indonesia	37.3	73.0	123.8	0.202	0.342	0.516
Malaysia	15.7	32.0	48.0	0.861	1.366	1.690
Philippines	9.8	17.5	20.4	0.159	0.226	0.219
Singapore	5.3	9.1	20.1	1.752	2.248	3.963
Thailand	-	40.0	62.7	-	0.633	0.908
Viet Nam	4.7	12.0	36.2	0.071	0.155	0.416
Oceania	77.8	102.0	116.8	3.169	3.594	3.483
Australia	70.7	93.3	107.0	4.145	4.869	4.797
New Zealand	6.5	7.9	8.2	1.938	2.056	1.889
Papua New Guinea	0.6	0.8	1.6	0.152	0.155	0.226
North America	1,484.2	1,746.9	1,593.4	5.350	5.582	4.639
Canada	114.6	141.6	142.4	4.122	4.602	4.174
United States of America	1,369.6	1,605.3	1,451.0	5.487	5.689	4.690
Latin America	84.1	115.2	139.6	0.706	0.816	0.875
Chile	8.0	13.3	16.7	0.607	0.862	0.975
Mexico	70.7	94.5	111.1	0.839	0.945	0.979
Peru	5.4	7.5	11.9	0.249	0.288	0.408

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			
1990	2000	2010	1990	2000	2010	1990	2000	2010	
-	199.4	202.3	-	171.6	155.5	-	0.716	0.712	
185.2	193.8	254.0	199.4	173.8	181.1	0.786	0.790	0.788	
1,308.0	707.2	607.2	524.6	283.7	243.5	0.889	0.936	0.857	CHN
77.5	50.4	43.7	74.5	48.4	42.0	0.839	0.564	0.822	HKG
68.2	67.1	60.1	98.0	96.4	86.3	0.663	0.616	0.615	JPN
215.9	208.6	175.4	142.5	137.6	115.7	0.686	0.591	0.562	KOR
1,590.3	1,574.0	1,018.0	413.2	408.9	264.5	0.699	0.660	0.603	RUS
180.1	194.9	157.8	117.7	127.4	103.2	0.668	0.762	0.638	TWN
-	307.2	305.0	-	127.9	127.3	-	0.628	0.676	
253.7	234.3	286.7	108.2	100.0	122.3	0.589	0.521	0.532	BRN
341.7	442.4	450.8	113.6	147.0	149.8	0.700	0.721	0.742	IDN
332.0	341.1	326.0	146.9	150.9	144.2	0.747	0.621	0.690	MYS
160.4	215.7	158.0	70.3	94.5	69.2	0.346	0.448	0.516	PHL
112.8	96.0	123.5	78.2	66.6	85.6	0.539	0.443	0.654	SGP
-	325.7	334.7	-	129.8	133.4	-	0.662	0.632	THA
310.2	385.7	575.5	87.9	109.3	163.1	0.861	0.810	0.788	VNM
244.6	231.0	197.2	181.0	171.0	146.1	0.765	0.804	0.795	
256.5	242.3	205.8	195.1	184.3	156.5	0.814	0.864	0.858	AUS
161.1	148.6	122.7	105.7	97.5	80.5	0.460	0.447	0.417	NZL
269.4	238.0	305.8	101.3	89.5	115.0	0.729	0.742	0.665	PNG
195.1	164.4	128.3	192.3	162.2	126.5	0.698	0.690	0.653	
210.7	195.3	163.2	174.8	162.0	135.3	0.549	0.560	0.564	CAN
193.9	162.2	125.6	193.9	162.2	125.6	0.715	0.704	0.663	USA
171.7	162.3	156.0	104.7	98.4	92.9	0.583	0.635	0.617	
198.0	176.8	151.7	104.2	93.0	79.9	0.563	0.527	0.540	CHL
171.1	162.5	160.4	110.3	104.8	103.5	0.577	0.651	0.623	MEX
149.8	139.8	128.2	62.8	58.6	53.8	0.718	0.675	0.697	PER

APEC 21, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	2,880,289	-	1,554,171	-
2 Import	377,954	9,221	1,330,588	470,142
3 Export	-489,110	-5,528	-523,166	-470,015
4 International Marine Bunkers	-	-	-	-129,704
5 International Aviation Bunkers	-	-	-	-60,138
6 Stock Change	-74,285	-11,174	-17,720	-3,457
7 Total Primary Energy Supply	2,694,848	-7,481	2,343,873	-194,073
8 Transfers	-	-	-72,936	83,472
9 Main Activity Peoducer	-1,475,443	-6,443	-3,560	-67,992
10 Autoproducers	-158,121	-31,500	-820	-28,976
11 Gas Processing	-7,663	-872	-	-2,964
12 Petroleum Refineries	-	-	-2,273,830	2,314,762
13 Coal Transformation	-394,912	193,808	-	-819
14 Other Transformation	-	-	33,256	-46,672
15 Loss & Own Use	-61,168	-15,317	-12,576	-107,590
16 Discrepancy	-40,715	-4,390	-953	-21,945
17 Total Final Energy Consumption	556,825	127,804	12,455	1,927,204
18 Industry Sector	466,843	120,755	2,331	270,974
19 Transport Sector	3,415	1	32	1,139,015
20 Other Sector	86,567	7,048	757	229,275
20.1 Residential & Commercial	66,184	6,557	646	149,398
20.2 Agriculture	9,543	318	93	47,057
20.3 Other	10,839	173	18	32,820
21 Non-energy	-	-	9,335	287,940

Australia, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	237,339	-	23,752	-
2 Import	-	9	22,321	15,806
3 Export	-190,144	-	-15,150	-2,436
4 International Marine Bunkers	-	-	-	-705
5 International Aviation Bunkers	-	-	-	-3,406
6 Stock Change	4,233	-64	-432	116
7 Total Primary Energy Supply	51,427	-55	30,491	9,376
8 Transfers	-	-	-818	4,071
9 Main Activity Peoducer	-44,951	-28	-	-299
10 Autoproducers	-	-32	-	-556
11 Gas Processing	-	-	-	-9
12 Petroleum Refineries	-	-	-32,254	31,869
13 Coal Transformation	-3,361	1,682	-	-15
14 Other Transformation	-	-	279	-
15 Loss & Own Use	-	-676	-76	-2,839
16 Discrepancy	-987	21	2,393	-3,098
17 Total Final Energy Consumption	2,127	912	13	38,500
18 Industry Sector	1,991	893	13	3,551
19 Transport Sector	123	-	-	27,893
20 Other Sector	13	19	-	2,854
20.1 Residential & Commercial	13	19	-	896
20.2 Agriculture	-	-	-	1,958
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	4,202

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
1,529,651	156,548	433,230	63,251	171,042	-	-	6,788,182
305,752	-	-	-	772	8,277	-	2,502,706
-351,161	-	-	-	-1,555	-9,326	-	-1,850,762
-	-	-	-	-	-	-	-129,704
-	-	-	-	-	-	-	-60,138
-839	-	-	-	-104	-	-	-107,580
1,483,404	156,548	433,230	63,251	170,154	-1,049	-	7,142,704
-	-	-	-	-	-	-	10,537
-515,303	-153,078	-433,230	-59,103	-34,892	1,069,983	106,237	-1,572,825
-117,106	-3,468	-	-1,357	-27,721	88,341	126,350	-154,378
-14,179	-	-	-	-	-	-	-25,678
-	-	-	-	-	-	-	40,933
-76	-	-	-	-	-	-	-202,000
-7,163	-	-	-0	-28,653	-	-	-49,231
-137,173	-3	-	-0	-152	-185,017	-43,680	-562,675
-324	1	-0	-0	2,919	875	-1,243	-65,776
692,081	-	-	2,790	81,656	973,133	187,664	4,561,611
256,354	-	-	258	48,963	433,329	94,162	1,693,970
64,277	-	-	-	-	17,334	-	1,224,073
313,071	-	-	2,532	32,693	522,469	93,501	1,287,913
309,406	-	-	2,515	32,151	474,708	88,231	1,129,795
1,231	-	-	17	538	13,090	3,046	74,935
2,433	-	-	-	4	34,671	2,225	83,183
58,380	-	-	-	-	-	-	355,655

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
42,531	1,077	-	679	5,239	-	-	310,617
4,852	-	-	-	-	-	-	42,988
-20,893	-	-	-	-	-	-	-228,623
-	-	-	-	-	-	-	-705
-	-	-	-	-	-	-	-3,406
-	-	-	-	-	-	-	3,853
26,491	1,077	-	679	5,239	-	-	124,725
-	-	-	-	-	-	-	3,253
-7,125	-1,077	-	-413	-456	19,926	-	-34,423
-1,271	-	-	-24	-1,336	850	-	-2,368
-262	-	-	-	-	-	-	-271
-	-	-	-	-	-	-	-386
-76	-	-	-	-	-	-	-1,770
-	-	-	-	-263	-	-	15
-10,831	-	-	-	-	-3,471	-	-17,894
6,228	-	-	-0	0	0	-	4,557
13,153	-	-	242	3,184	17,305	-	75,436
7,726	-	-	-	1,790	6,443	-	22,408
431	-	-	-	-	327	-	28,775
4,152	-	-	242	1,394	10,535	-	19,208
4,150	-	-	242	1,394	10,336	-	17,048
3	-	-	-	-	199	-	2,160
-	-	-	-	-	-	-	-
844	-	-	-	-	-	-	5,046

Brunei Darussalam, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	9,219	-
2 Import	-	-	14	142
3 Export	-	-	-8,718	-
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-111
6 Stock Change	-	-	183	3
7 Total Primary Energy Supply	-	-	698	34
8 Transfers	-	-	-16	16
9 Main Activity Peoducer	-	-	-	-10
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-733	645
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-17
16 Discrepancy	-	-	51	-4
17 Total Final Energy Consumption	-	-	-	664
18 Industry Sector	-	-	-	150
19 Transport Sector	-	-	-	395
20 Other Sector	-	-	-	104
20.1 Residential & Commercial	-	-	-	16
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	88
21 Non Energy	-	-	-	15

Canada, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	33,800	-	165,816	-
2 Import	7,078	492	39,320	10,940
3 Export	-19,664	-54	-104,795	-20,463
4 International Marine Bunkers	-	-	-	-681
5 International Aviation Bunkers	-	-	-	-1,070
6 Stock Change	622	-	-1,530	-307
7 Total Primary Energy Supply	21,836	438	98,812	-11,582
8 Transfers	-	-	-3,229	7,300
9 Main Activity Peoducer	-18,948	-	-	-1,268
10 Autoproducers	-2	-	-	-561
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-97,939	103,781
13 Coal Transformation	-2,626	1,079	-	-
14 Other Transformation	-	-	1,109	-
15 Loss & Own Use	-27	-	-	-9,545
16 Discrepancy	1,178	-357	1,247	3,758
17 Total Final Energy Consumption	1,411	1,161	-	91,884
18 Industry Sector	1,408	1,161	-	7,216
19 Transport Sector	-	-	-	57,333
20 Other Sector	3	-	-	8,023
20.1 Residential & Commercial	3	-	-	5,189
20.2 Agriculture	-	-	-	2,835
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	19,311

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
11,410	-	-	-	-	-	-	20,630
-	-	-	-	-	-	-	155
-8,436	-	-	-	-	-	-	-17,154
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-111
-	-	-	-	-	-	-	186
2,975	-	-	-	-	-	-	3,706
-	-	-	-	-	-	-	0
-1,153	-	-	-	-	296	-	-867
-150	-	-	-	-	30	-	-120
-430	-	-	-	-	-	-	-430
-	-	-	-	-	-	-	-87
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-446	-	-	-	-	-68	-	-531
-765	-	-	-	-	28	-	-690
31	-	-	-	-	286	-	981
4	-	-	-	-	51	-	205
-	-	-	-	-	-	-	395
27	-	-	-	-	235	-	366
27	-	-	-	-	235	-	278
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	88
-	-	-	-	-	-	-	15

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
132,343	30,237	23,626	835	12,059	-	-	398,716
18,730	-	-	-	487	1,607	-	78,654
-79,151	-	-	-	-551	-3,817	-	-228,495
-	-	-	-	-	-	-	-681
-	-	-	-	-	-	-	-1,070
6,692	-	-	-	-	-	-	5,477
78,615	30,237	23,626	835	11,994	-2,210	-	252,601
-	-	-	-	-	-	-	4,071
-8,269	-27,897	-23,626	-835	-11	48,033	402	-32,419
-3,246	-2,340	-	-0	-2,048	4,251	50	-3,895
-1,933	-	-	-	-	-	-	-1,933
-	-	-	-	-	-	-	5,843
-	-	-	-	-	-	-	-1,547
-800	-	-	-	-1,029	-	-	-719
-13,954	-	-	-	-1	-9,658	-	-33,184
1,518	-	-	-	0	-	-51	7,292
51,931	-	-	-	8,906	40,416	401	196,109
22,401	-	-	-	6,426	14,286	401	53,298
2,464	-	-	-	-	324	-	60,122
24,082	-	-	-	2,480	25,805	0	60,394
23,490	-	-	-	2,480	24,998	0	56,159
593	-	-	-	0	807	-	4,235
-	-	-	-	-	-	-	-
2,983	-	-	-	-	-	-	22,295

Chile, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	254	-	611	-
2 Import	3,808	1	8,659	7,340
3 Export	-	-	-	-627
4 International Marine Bunkers	-	-	-	-401
5 International Aviation Bunkers	-	-	-	-513
6 Stock Change	529	-29	-3	-58
7 Total Primary Energy Supply	4,591	-28	9,267	5,741
8 Transfers	-	-	839	-801
9 Main Activity Peoducer	-3,856	-	-	-1,586
10 Autoproducers	-	-	-	-138
11 Gas Processing	-	-	-	-5
12 Petroleum Refineries	-	-	-9,894	8,874
13 Coal Transformation	-348	207	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-110	-	-385
16 Discrepancy	-54	-12	-211	378
17 Total Final Energy Consumption	332	57	-	12,079
18 Industry Sector	328	57	-	3,020
19 Transport Sector	-	-	-	7,089
20 Other Sector	5	-	-	1,671
20.1 Residential & Commercial	-	-	-	1,396
20.2 Agriculture	-	-	-	-
20.3 Other	5	-	-	275
21 Non Energy	-	-	-	300

China, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,691,720	-	203,014	-
2 Import	83,167	74	237,682	48,262
3 Export	-10,356	-2,278	-3,030	-30,460
4 International Marine Bunkers	-	-	-	-901
5 International Aviation Bunkers	-	-	-	-2,462
6 Stock Change	-92,907	-11,080	-8,900	-5,120
7 Total Primary Energy Supply	1,671,623	-13,284	428,766	9,319
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-730,777	-1,219	-37	-5,649
10 Autoproducers	-118,643	-18,426	-33	-4,395
11 Gas Processing	-5,744	-872	-	-
12 Petroleum Refineries	-	-	-418,694	439,463
13 Coal Transformation	-272,416	119,976	-	-
14 Other Transformation	-	-	-	-37,030
15 Loss & Own Use	-59,737	-5,123	-6,406	-6,106
16 Discrepancy	-17,173	-6,187	-361	-8,860
17 Total Final Energy Consumption	467,133	74,866	3,235	386,742
18 Industry Sector	384,555	69,324	2,174	119,803
19 Transport Sector	3,291	1	-	147,899
20 Other Sector	79,286	5,541	-	83,516
20.1 Residential & Commercial	59,050	5,050	-	43,102
20.2 Agriculture	9,408	318	-	14,127
20.3 Other	10,828	173	-	26,288
21 Non Energy	-	-	1,061	35,523

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
1,554	1,868	-	29	4,904	-	-	9,218
3,007	-	-	-	-	82	-	22,897
-	-	-	-	-	-	-	627
-	-	-	-	-	-	-	-401
-	-	-	-	-	-	-	-513
-86	-	-	-	-	-	-	354
4,475	1,868	-	29	4,904	82	-	30,928
-	-	-	-	-	-	-	38
-1,718	-1,839	-	-29	-33	4,881	-	-4,179
-34	-29	-	-	-334	316	-	-219
-8	-	-	-	-	-	-	-13
-	-	-	-	-	-	-	-1,020
-	-	-	-	-	-	-	-141
-	-	-	-	-310	-	-	-310
-362	-	-	-	-	-655	-	-1,512
18	-	-	-	15	83	-	216
2,370	-	-	-	4,242	4,707	-	23,788
1,100	-	-	-	1,091	3,083	-	8,679
18	-	-	-	-	37	-	7,143
528	-	-	-	3,151	1,587	-	6,942
526	-	-	-	3,151	1,580	-	6,653
-	-	-	-	-	-	-	-
3	-	-	-	-	7	-	289
724	-	-	-	-	-	-	1,024

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
88,303	62,107	19,253	3,837	18,882	-	-	2,087,116
15,511	-	-	-	-	477	-	385,173
-3,752	-	-	-	-	-1,639	-	-51,515
-	-	-	-	-	-	-	-901
-	-	-	-	-	-	-	-2,462
-	-	-	-	-	-	-	-118,007
100,062	62,107	19,253	3,837	18,882	-1,162	-	2,299,404
-	-	-	-	-	-	-	-
-16,137	-62,107	-19,253	-3,837	-18,883	327,247	39,036	-491,616
-3,795	-	-	-	-	34,569	31,850	-78,872
1,149	-	-	-	-	-	-	-5,467
-	-	-	-	-	-	-	20,769
-	-	-	-	-	-	-	-152,440
-	-	-	-	-	-	-	-37,030
-14,690	-	-	-	-	-63,943	-10,260	-166,266
-296	-	-	-	1	-17	293	-32,599
66,293	-	-	-	-	296,693	60,919	1,355,881
25,373	-	-	-	-	205,710	41,663	848,602
9,040	-	-	-	-	6,317	-	166,547
27,489	-	-	-	-	84,667	19,256	299,735
25,002	-	-	-	-	55,183	17,044	204,431
47	-	-	-	-	8,398	22	32,319
2,421	-	-	-	-	21,086	2,190	62,986
4,411	-	-	-	-	-	-	40,996

Hong Kong, China, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	-	-
2 Import	6,503	-	-	21,530
3 Export	-0	-	-	-498
4 International Marine Bunkers	-	-	-	-9,428
5 International Aviation Bunkers	-	-	-	-5,271
6 Stock Change	-278	-	-	-3,130
7 Total Primary Energy Supply	6,225	-	-	3,202
8 Transfers	-	-	-	0
9 Main Activity Peoducer	-6,224	-	-	-37
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-317
12 Petroleum Refineries	-	-	-	-
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-0	-	-	-454
17 Total Final Energy Consumption	0	-	-	2,394
18 Industry Sector	0	-	-	95
19 Transport Sector	-	-	-	2,084
20 Other Sector	-	-	-	214
20.1 Residential & Commercial	-	-	-	214
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	-

Indonesia, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	161,797	-	58,008	-
2 Import	32	-	15,455	23,702
3 Export	-122,304	-	-20,558	-5,500
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	0	-	-	1,721
7 Total Primary Energy Supply	39,525	-	52,904	19,923
8 Transfers	-	-	-2,777	2,606
9 Main Activity Peoducer	-20,233	-	-	-8,428
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-49,087	52,602
13 Coal Transformation	-	-38	-	-
14 Other Transformation	-	-	-	-2,845
15 Loss & Own Use	-	-	-	-34
16 Discrepancy	-176	38	-1,041	-50
17 Total Final Energy Consumption	19,116	-	-	63,774
18 Industry Sector	19,116	-	-	7,786
19 Transport Sector	-	-	-	36,788
20 Other Sector	-	-	-	12,074
20.1 Residential & Commercial	-	-	-	11,068
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	1,006
21 Non Energy	-	-	-	7,127

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
-	-	-	0	53	-	-	54
2,850	-	-	-	9	950	-	31,842
-	-	-	-	-3	-224	-	726
-	-	-	-	-	-	-	-9,428
-	-	-	-	-	-	-	-5,271
295	-	-	-	-	-	-	-3,113
3,145	-	-	0	59	726	-	13,358
-	-	-	-	-	-	-	0
-2,487	-	-	-0	-	3,293	-	-5,455
-	-	-	-0	-3	4	-	0
-	-	-	-	-	-	-	-317
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-20	-	-	-20
-	-	-	-	-	-418	-	-418
-0	-	-	-0	-0	-0	-	-454
659	-	-	0	37	3,604	-	6,693
22	-	-	0	-	265	-	382
637	-	-	0	-	61	-	2,145
637	-	-	0	37	3,278	-	4,166
637	-	-	0	33	3,278	-	4,163
-	-	-	-	-	-	-	-
-	-	-	-	4	-	-	4
-	-	-	-	-	-	-	-

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
76,638	1,518	-	8,047	-	-	-	306,007
-	-	-	-	-	-	-	39,190
-31,576	-	-	-	-	-	-	-179,938
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1,721
45,062	1,518	-	8,047	-	-	-	166,980
-	-	-	-	-	-	-	-171
-7,123	-1,518	-	-8,047	-	14,602	-	-30,747
-1,650	-	-	-	-	-	-	-1,650
-12,727	-	-	-	-	-	-	-12,727
-	-	-	-	-	-	-	3,515
-	-	-	-	-	-	-	-38
-	-	-	-0	-	-	-	-2,845
-5,880	-	-	-	-	-1,876	-	-7,790
-1,543	-	-	-	-	-50	-	-2,822
16,139	-	-	0	-	12,675	-	111,705
15,976	-	-	-	-	4,385	-	47,262
10	-	-	-	-	8	-	36,805
154	-	-	0	-	8,283	-	20,510
154	-	-	0	-	8,283	-	19,504
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1,006
-	-	-	-	-	-	-	7,127

Japan, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	467	-	757	-
2 Import	113,557	521	185,869	43,546
3 Export	-	-533	-	-17,194
4 International Marine Bunkers	-	-	-	-4,857
5 International Aviation Bunkers	-	-	-	-5,389
6 Stock Change	584	-	-1,190	237
7 Total Primary Energy Supply	114,608	-12	185,437	16,342
8 Transfers	-	-	-524	452
9 Main Activity Peoducer	-48,103	-4,238	-3,523	-6,449
10 Autoproducers	-10,423	-3,331	-	-8,272
11 Gas Processing	-	-	-	-1,208
12 Petroleum Refineries	-	-	-181,505	181,229
13 Coal Transformation	-38,268	34,640	-	-804
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-476	-3,067	-	-11,813
16 Discrepancy	-2,688	-4,022	116	2,048
17 Total Final Energy Consumption	14,651	19,969	-	171,527
18 Industry Sector	14,651	19,362	-	57,423
19 Transport Sector	-	-	-	79,148
20 Other Sector	-	607	-	30,683
20.1 Residential & Commercial	-	607	-	25,372
20.2 Agriculture	-	-	-	3,631
20.3 Other	-	-	-	1,680
21 Non Energy	-	-	-	4,273

Republic of Korea, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	959	-	698	-
2 Import	72,508	440	121,570	33,027
3 Export	-	-	-481	-45,315
4 International Marine Bunkers	-	-	-	-9,005
5 International Aviation Bunkers	-	-	-	-4,012
6 Stock Change	-438	-	-795	-574
7 Total Primary Energy Supply	73,029	440	120,992	-25,879
8 Transfers	-	-	-2,695	2,693
9 Main Activity Peoducer	-46,251	-655	-	-3,355
10 Autoproducers	-2,505	-2,793	-	-1,693
11 Gas Processing	-	-	-	-481
12 Petroleum Refineries	-	-	-126,123	123,797
13 Coal Transformation	-19,557	10,287	-	-
14 Other Transformation	-	-	7,338	-6,797
15 Loss & Own Use	-	-2,359	-18	-5,643
16 Discrepancy	-311	-33	506	-441
17 Total Final Energy Consumption	4,406	4,887	-	82,201
18 Industry Sector	4,406	4,032	-	5,902
19 Transport Sector	-	-	-	28,738
20 Other Sector	-	855	-	9,609
20.1 Residential & Commercial	-	855	-	6,429
20.2 Agriculture	-	-	-	1,254
20.3 Other	-	-	-	1,925
21 Non Energy	-	-	-	37,952

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
3,159	8,197	76,188	3,371	8,509	-	-	100,648
82,183	-	-	-	-	-	-	425,676
-	-	-	-	-	-	-	-17,727
-	-	-	-	-	-	-	-4,857
-	-	-	-	-	-	-	-5,389
-15	-	-	-	-	-	-	-384
85,326	8,197	76,188	3,371	8,509	-	-	497,966
-	-	-	-	-	-	-	-72
-51,089	-7,437	-76,188	-2,280	-1,266	79,793	816	-119,962
-3,222	-760	-	-671	-7,719	19,526	-	-14,872
1,138	-	-	-	-	-	-	-70
-	-	-	-	-	-	-	-276
-	-	-	-	-	-	-	-4,433
-	-	-	-	-	-	-	-
-3,691	-	-	-	-	-11,688	-	-30,735
1,528	-	-	-	2,973	1,147	-78	1,024
29,990	-	-	420	2,498	88,778	738	328,570
15,117	-	-	-	2,476	35,835	-	144,863
-	-	-	-	-	1,829	-	80,977
14,873	-	-	420	22	51,114	738	98,457
14,873	-	-	420	22	50,799	668	92,760
-	-	-	-	-	316	70	4,017
-	-	-	-	-	-	-	1,680
-	-	-	-	-	-	-	4,273

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
485	557	38,724	199	3,340	-	-	44,963
39,290	-	-	-	18	-	-	266,854
-	-	-	-	-	-	-	-45,797
-	-	-	-	-	-	-	-9,005
-	-	-	-	-	-	-	-4,012
-1,090	-	-	-	-	-	-	-2,897
38,685	557	38,724	199	3,358	-	-	250,106
-	-	-	-	-	-	-	-2
-17,570	-557	-38,724	-129	-115	40,508	1,658	-65,190
-435	-	-	-8	-695	2,449	2,922	-2,758
365	-	-	-	-	-	-	-116
-	-	-	-	-	-	-	-2,326
-	-	-	-	-	-	-	-9,270
-	-	-	-	-210	-	-	331
-490	-	-	-	-12	-4,295	-135	-12,952
-187	-	-	-0	-13	-19	-113	-611
20,367	-	-	63	2,313	38,644	4,332	157,213
6,872	-	-	1	1,729	19,618	2,338	44,899
1,024	-	-	-	-	188	-	29,950
12,472	-	-	61	584	18,837	1,994	44,412
12,467	-	-	61	584	17,973	1,994	40,364
4	-	-	-	-	688	-	1,947
-	-	-	-	-	175	-	2,101
-	-	-	-	-	-	-	37,952

Malaysia, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,293	-	35,341	-
2 Import	11,188	-	7,985	10,351
3 Export	-53	-	-17,247	-8,416
4 International Marine Bunkers	-	-	-	-59
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	68	-	-336	441
7 Total Primary Energy Supply	12,496	-	25,743	2,317
8 Transfers	-	-	-3,200	3,200
9 Main Activity Peoducer	-11,084	-	-	-540
10 Autoproducers	-	-	-	-201
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-22,645	21,182
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-1,681
16 Discrepancy	151	-	102	107
17 Total Final Energy Consumption	1,563	-	-	24,383
18 Industry Sector	1,563	-	-	2,795
19 Transport Sector	-	-	-	16,551
20 Other Sector	-	-	-	3,003
20.1 Residential & Commercial	-	-	-	1,955
20.2 Agriculture	-	-	-	1,048
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	2,034

Mexico, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	4,839	-	160,623	-
2 Import	3,718	248	399	29,993
3 Export	-3	-1	-80,005	-9,667
4 International Marine Bunkers	-	-	-	-811
5 International Aviation Bunkers	-	-	-	-2,727
6 Stock Change	-115	-53	-131	-103
7 Total Primary Energy Supply	8,439	194	80,886	16,684
8 Transfers	-	-	-10,933	12,999
9 Main Activity Peoducer	-6,810	-	-	-8,753
10 Autoproducers	-	-132	-	-1,319
11 Gas Processing	-	-	-	-817
12 Petroleum Refineries	-	-	-73,827	67,297
13 Coal Transformation	-1,513	1,247	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-84	-	-6,279
16 Discrepancy	-0	286	3,874	-5,053
17 Total Final Energy Consumption	115	1,511	-	73,858
18 Industry Sector	115	1,511	-	5,842
19 Transport Sector	-	-	-	51,732
20 Other Sector	-	-	-	10,875
20.1 Residential & Commercial	-	-	-	8,091
20.2 Agriculture	-	-	-	2,784
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	5,410

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
47,936	540	-	0	-	-	-	85,110
4,730	-	-	-	-	-	-	34,254
-24,162	-	-	-	-	-13	-	-49,891
-	-	-	-	-	-	-	-59
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	172
28,504	540	-	0	-	-13	-	69,587
-	-	-	-	-	-	-	0
-14,559	-540	-	-	-	9,399	-	-17,324
-883	-	-	-0	-	387	-	-697
-2,423	-	-	-	-	-	-	-2,423
-	-	-	-	-	-	-	-1,463
-	-	-	-	-	-	-	-
-4,685	-	-	-	-	-	-	-4,685
-	-	-	-	-	-796	-	-2,477
-599	-	-	-	-	12	-	-227
5,355	-	-	-	-	8,989	-	40,290
3,691	-	-	-	-	3,992	-	12,041
211	-	-	-	-	18	-	16,780
31	-	-	-	-	4,979	-	8,013
31	-	-	-	-	4,955	-	6,941
-	-	-	-	-	24	-	1,072
-	-	-	-	-	-	-	-
1,422	-	-	-	-	-	-	3,456

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
41,911	3,192	1,532	5,918	8,362	-	-	226,377
12,439	-	-	-	-	34	-	46,830
-736	-	-	-	-	-116	-	-90,527
-	-	-	-	-	-	-	-811
-	-	-	-	-	-	-	-2,727
-329	-	-	-	-	-	-	-730
53,285	3,192	1,532	5,918	8,362	-82	-	178,411
-	-	-	-	-	-	-	1,166
-22,491	-3,160	-1,532	-5,706	-	20,858	-	-27,595
-2,819	-33	-	-95	-1,133	2,445	-	-3,086
636	-	-	-	-	-	-	-181
-	-	-	-	-	-	-	-6,530
-	-	-	-	-	-	-	-267
-	-	-	-	-	-	-	-
-15,856	-	-	-	-	-5,386	-	-27,606
-8	-0	-	-	-	41	-	-860
12,746	-	-	117	7,229	17,876	-	113,453
9,016	-	-	5	1,024	9,901	-	27,415
12	-	-	-	-	102	-	51,846
966	-	-	112	6,205	7,873	-	26,030
966	-	-	112	6,205	6,043	-	21,417
-	-	-	-	-	740	-	3,523
-	-	-	-	-	1,090	-	1,090
2,752	-	-	-	-	-	-	8,162

New Zealand, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	3,132	-	2,745	-
2 Import	133	-	5,233	1,771
3 Export	-1,708	-	-2,453	-122
4 International Marine Bunkers	-	-	-	-335
5 International Aviation Bunkers	-	-	-	-778
6 Stock Change	-249	-	-43	20
7 Total Primary Energy Supply	1,307	-	5,482	555
8 Transfers	-	-	-163	167
9 Main Activity Peoducer	-310	-	-	-
10 Autoproducers	-8	-180	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-5,364	5,372
13 Coal Transformation	-416	278	-	-
14 Other Transformation	-	-	4	-
15 Loss & Own Use	-4	-57	-	-353
16 Discrepancy	-10	-0	41	146
17 Total Final Energy Consumption	558	41	-	5,887
18 Industry Sector	469	41	-	347
19 Transport Sector	1	-	-	4,600
20 Other Sector	88	-	-	579
20.1 Residential & Commercial	45	-	-	196
20.2 Agriculture	43	-	-	287
20.3 Other	-	-	-	96
21 Non Energy	-	-	-	360

Papua New Guinea, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	890	-
2 Import	-	-	972	824
3 Export	-	-	-886	-
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-	-	-25	40
7 Total Primary Energy Supply	-	-	952	863
8 Transfers	-	-	-	1
9 Main Activity Peoducer	-	-	-	-125
10 Autoproducers	-	-	-	-462
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-948	901
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-	-	-0	-28
17 Total Final Energy Consumption	-	-	4	1,151
18 Industry Sector	-	-	4	678
19 Transport Sector	-	-	-	421
20 Other Sector	-	-	-	52
20.1 Residential & Commercial	-	-	-	-
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	52
21 Non Energy	-	-	-	-

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
3,855	2,125	-	5,389	1,177	-	-	18,423
-	-	-	-	1	-	-	7,137
-	-	-	-	-	-	-	-4,284
-	-	-	-	-	-	-	-335
-	-	-	-	-	-	-	-778
-127	-	-	-	-	-	-	-399
3,728	2,125	-	5,389	1,177	-	-	19,765
-	-	-	-	-	-	-	4
-1,710	-2,124	-	-5,154	-37	3,734	-	-5,601
-36	-1	-	-	-121	120	31	-195
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	8
-	-	-	-	-	-	-	-139
-	-	-	-	-3	-	-	0
-216	-	-	-	-	-427	-	-1,057
-109	-0	-	-0	-0	-47	-31	-11
1,658	-	-	235	1,016	3,380	-	12,775
801	-	-	146	869	1,221	-	3,895
1	-	-	-	-	9	-	4,610
308	-	-	89	147	2,150	-	3,361
276	-	-	72	147	1,924	-	2,660
32	-	-	17	-	147	-	526
-	-	-	-	-	79	-	175
548	-	-	-	-	-	-	908

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
123	71	-	323	-	-	-	1,407
-	-	-	-	-	-	-	1,796
-	-	-	-	-	-	-	-886
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	15
123	71	-	323	-	-	-	2,333
-	-	-	-	-	-	-	1
-	-40	-	-	-	83	-	-82
-118	-32	-	-323	-	218	-	-716
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-47
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-5	-	-	-	-	-24	-	-30
-0	-	-	-	-	-0	-	-28
-	-	-	-	-	277	-	1,431
-	-	-	-	-	201	-	883
-	-	-	-	-	-	-	421
-	-	-	-	-	75	-	128
-	-	-	-	-	-	-	-
-	-	-	-	-	75	-	128
-	-	-	-	-	-	-	-

Peru, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	60	-	7,115	-
2 Import	589	42	4,881	1,876
3 Export	-70	-	-968	-7,104
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	109	4	120	2,895
7 Total Primary Energy Supply	688	46	11,147	-2,533
8 Transfers	-	-	-709	3,446
9 Main Activity Peoducer	-257	-	-	-445
10 Autoproducers	-	-	-	-188
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-10,435	10,131
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	48	-
15 Loss & Own Use	-	-	-	-562
16 Discrepancy	122	-	-51	-1,783
17 Total Final Energy Consumption	553	46	-	8,067
18 Industry Sector	553	46	-	940
19 Transport Sector	-	-	-	5,681
20 Other Sector	-	-	-	1,119
20.1 Residential & Commercial	-	-	-	974
20.2 Agriculture	-	-	-	33
20.3 Other	-	-	-	112
21 Non Energy	-	-	-	326

Philippines, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	3,510	-	922	-
2 Import	5,788	-	9,095	6,639
3 Export	-2,163	-	-862	-857
4 International Marine Bunkers	-	-	-	-183
5 International Aviation Bunkers	-	-	-	-989
6 Stock Change	-104	-	-100	-83
7 Total Primary Energy Supply	7,030	-	9,054	4,528
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-5,090	-	-	-1,487
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-8,733	8,558
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	83	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-7	-	-404	128
17 Total Final Energy Consumption	1,933	-	-	11,727
18 Industry Sector	1,933	-	-	1,431
19 Transport Sector	-	-	-	8,087
20 Other Sector	-	-	-	2,088
20.1 Residential & Commercial	-	-	-	1,872
20.2 Agriculture	-	-	-	22
20.3 Other	-	-	-	193
21 Non Energy	-	-	-	120

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
7,626	1,724	-	6	414	-	-	16,945
-	-	-	-	84	-	-	7,471
-2,130	-	-	-	-14	-10	-	-10,295
-	-	-	-	-	-	-	-
-	-	-	-	-18	-	-	2,909
5,496	1,724	-	6	465	-10	-	17,030
-	-	-	-	-	-	-	2,737
-2,969	-1,683	-	-	-32	2,885	-	-2,500
-160	-42	-	-6	-200	203	-	-392
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-304
-	-	-	-	-	-	-	-
-	-	-	-	-179	-	-	-131
-1,232	-	-	-	-	-361	-	-2,155
-0	0	-	-	-55	0	-	-1,766
1,135	-	-	-	-	2,717	-	12,518
704	-	-	-	-	1,445	-	3,688
367	-	-	-	-	-	-	6,048
64	-	-	-	-	1,273	-	2,456
56	-	-	-	-	1,206	-	2,236
-	-	-	-	-	48	-	81
8	-	-	-	-	19	-	139
-	-	-	-	-	-	-	326

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,049	671	-	8,544	6,491	-	-	23,188
-	-	-	-	95	-	-	21,617
-	-	-	-	-	-	-	-3,883
-	-	-	-	-	-	-	-183
-	-	-	-	-	-	-	-989
-	-	-	-	31	-	-	-256
3,049	671	-	8,544	6,617	-	-	39,494
-	-	-	-	-	-	-	-
-2,859	-671	-	-8,544	-16	5,826	-	-12,842
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-175
-	-	-	-	-1,527	-	-	-1,444
-118	-	-	-	-	-1,073	-	-1,191
0	-	-	-	0	-	-	-283
72	-	-	-	5,074	4,753	-	23,559
71	-	-	-	1,012	1,598	-	6,045
0	-	-	-	-	10	-	8,097
-	-	-	-	4,063	3,146	-	9,296
-	-	-	-	4,063	3,018	-	8,953
-	-	-	-	-	112	-	135
-	-	-	-	-	15	-	209
-	-	-	-	-	-	-	120

Russia, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	180,041	-	506,545	-
2 Import	15,174	136	1,105	2,833
3 Export	-84,285	-1,585	-248,268	-111,955
4 International Marine Bunkers	-	-	-	-1,531
5 International Aviation Bunkers	-	-	-	-6,238
6 Stock Change	5,424	1	-2,455	-870
7 Total Primary Energy Supply	116,354	-1,448	256,927	-117,761
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-40,629	-	-	-1,579
10 Autoproducers	-16,269	-5,209	-787	-8,744
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-251,180	244,052
13 Coal Transformation	-36,050	16,702	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-729	-1,500	-5,064	-12,261
16 Discrepancy	-17,344	5,466	214	-51
17 Total Final Energy Consumption	5,333	14,012	110	103,657
18 Industry Sector	1,258	13,985	79	11,366
19 Transport Sector	-	-	-	56,298
20 Other Sector	4,075	26	30	10,149
20.1 Residential & Commercial	3,996	26	-	6,381
20.2 Agriculture	73	-	12	2,964
20.3 Other	6	-	18	804
21 Non Energy	-	-	-	25,844

Singapore, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	-	-
2 Import	-	-	41,211	96,649
3 Export	-	-	-39	-77,323
4 International Marine Bunkers	-	-	-	-36,387
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-	-	-	-
7 Total Primary Energy Supply	-	-	41,172	-17,062
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-	-	-	-1,994
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-128
12 Petroleum Refineries	-	-	-41,172	41,494
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-980
16 Discrepancy	-	-	-0	-5,014
17 Total Final Energy Consumption	-	-	-	16,316
18 Industry Sector	-	-	-	9,481
19 Transport Sector	-	-	-	6,586
20 Other Sector	-	-	-	-
20.1 Residential & Commercial	-	-	-	-
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	250

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
540,188	14,482	44,434	435	6,955	-	-	1,293,080
3,498	-	-	-	0	141	-	22,887
-154,175	-	-	-	0	-1,642	-	-601,910
-	-	-	-	-	-	-	-1,531
-	-	-	-	-	-	-	-6,238
-6,708	-	-	-	-13	-	-	-4,620
382,803	14,482	44,434	435	6,943	-1,500	-	701,668
-	-	-	-	-	-	-	-
-139,983	-14,404	-44,434	-435	-	83,947	52,186	-105,330
-82,602	-78	-	-	-4,457	5,324	91,495	-21,326
-0	-	-	-	-	-	-	-0
-	-	-	-	-	-	-	-7,128
-	-	-	-	-	-	-	-19,347
-1,677	-	-	-	-	-	-	-1,677
-15,292	-	-	-	-139	-25,275	-27,782	-88,043
-20	0	-0	-	0	0	-1,262	-12,997
143,229	-	-	-	2,347	62,495	114,636	445,819
32,366	-	-	-	357	28,109	44,516	132,036
32,858	-	-	-	-	7,334	-	96,490
44,020	-	-	-	1,990	27,051	70,121	157,463
43,464	-	-	-	1,826	25,678	67,132	148,504
553	-	-	-	165	1,349	2,954	8,070
2	-	-	-	-	24	34	889
33,986	-	-	-	-	-	-	59,830

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	86	-	-	86
6,573	-	-	-	-	-	-	144,433
-	-	-	-	-	-	-	-77,362
-	-	-	-	-	-	-	-36,387
-	-	-	-	-	-	-	-
6,573	-	-	-	86	-	-	30,769
-	-	-	-	-	-	-	-
-6,573	-	-	-	-86	3,902	-	-4,751
-	-	-	-	-	-	-	-
113	-	-	-	-	-	-	-15
-	-	-	-	-	-	-	322
-	-	-	-	-	-	-	-
-	-	-	-	-	-358	-	-1,338
6	-	-	-	-	-36	-	-5,045
119	-	-	-	-	3,507	-	19,942
70	-	-	-	-	1,436	-	10,986
-	-	-	-	-	-	-	6,586
49	-	-	-	-	2,071	-	2,120
49	-	-	-	-	2,067	-	2,115
-	-	-	-	-	4	-	4
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	250

Chinese Taipei, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	13	-
2 Import	38,977	129	46,059	18,569
3 Export	-	-78	-	-15,763
4 International Marine Bunkers	-	-	-	-1,780
5 International Aviation Bunkers	-	-	-	-1,979
6 Stock Change	158	-	-157	-82
7 Total Primary Energy Supply	39,134	51	45,915	-1,035
8 Transfers	-	-	-	-1,077
9 Main Activity Peoducer	-22,047	-	-	-1,969
10 Autoproducers	-6,011	-642	-	-1,021
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-46,059	47,002
13 Coal Transformation	-5,524	3,165	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-962	-	-1,804
16 Discrepancy	-293	44	144	75
17 Total Final Energy Consumption	5,259	1,656	-	40,170
18 Industry Sector	5,259	1,656	-	3,869
19 Transport Sector	-	-	-	11,754
20 Other Sector	-	-	-	2,526
20.1 Residential & Commercial	-	-	-	2,221
20.2 Agriculture	-	-	-	4
20.3 Other	-	-	-	301
21 Non Energy	-	-	-	22,021

Thailand, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	4,586	-	17,128	-
2 Import	4,476	6,292	42,757	163
3 Export	-1	-13	-1,587	-10,423
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-3,628
6 Stock Change	-	-	-	541
7 Total Primary Energy Supply	9,062	6,279	58,297	-13,347
8 Transfers	-	-	-6,334	5,099
9 Main Activity Peoducer	-6,315	-	-	-258
10 Autoproducers	-505	-	-	-5
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-49,224	39,684
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	802	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-957	365	1,989	-850
17 Total Final Energy Consumption	1,285	6,645	5,530	30,323
18 Industry Sector	1,285	6,645	-	2,817
19 Transport Sector	-	-	-	19,576
20 Other Sector	-	-	-	6,374
20.1 Residential & Commercial	-	-	-	2,871
20.2 Agriculture	-	-	-	3,504
20.3 Other	-	-	-	-
21 Non Energy	-	-	5,530	1,556

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
237	626	10,848	193	1,708	-	-	13,625
13,866	-	-	-	-	-	-	117,600
-	-	-	-	-	-	-	-15,841
-	-	-	-	-	-	-	-1,780
-	-	-	-	-	-	-	-1,979
-20	-	-	-	-	-	-	-101
14,082	626	10,848	193	1,708	-	-	111,523
-	-	-	-	-	-	-	-1,077
-10,361	-624	-10,848	-87	-	17,965	-	-27,971
-111	-	-	-2	-1,708	3,280	-	-6,216
-1,067	-	-	-	-	-	-	-1,067
-	-	-	-	-	-	-	943
-	-	-	-	-	-	-	-2,359
-	-	-	-	-	-	-	-
-545	-3	-	-0	-	-1,821	-	-5,135
126	1	-	-1	-	-646	-	-551
2,124	-	-	103	-	18,777	-	68,090
1,014	-	-	-	-	10,677	-	22,476
-	-	-	-	-	100	-	11,854
1,110	-	-	103	-	8,000	-	11,739
1,110	-	-	103	-	7,775	-	11,209
-	-	-	-	-	148	-	152
-	-	-	-	-	77	-	378
-	-	-	-	-	-	-	22,021

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
25,000	476	-	4	1,678	-	-	48,872
11,307	-	-	-	-	627	-	65,621
-	-	-	-	-	-139	-	-12,163
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-3,628
-	-	-	-	-	-	-	541
36,307	476	-	4	1,678	488	-	99,243
-	-	-	-	-	-	-	-1,235
-22,510	-476	-	-4	-	12,415	-	-17,148
-2,473	-	-	-	-1,678	-	-	-4,660
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-9,540
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	802
-6,271	-	-	-	-	-523	-	-6,794
-0	-	-	0	-	433	-	980
5,053	-	-	-	-	12,813	-	61,648
2,191	-	-	-	-	5,444	-	18,381
1,612	-	-	-	-	6	-	21,194
1	-	-	-	-	7,363	-	13,738
1	-	-	-	-	7,266	-	10,138
-	-	-	-	-	29	-	3,532
-	-	-	-	-	68	-	68
1,250	-	-	-	-	-	-	8,336

United States of America, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	531,848	-	344,921	-
2 Import	10,682	758	540,002	83,477
3 Export	-47,327	-914	-9,997	-105,259
4 International Marine Bunkers	-	-	-	-62,639
5 International Aviation Bunkers	-	-	-	-21,565
6 Stock Change	7,549	46	-1,429	-543
7 Total Primary Energy Supply	502,752	-110	873,497	-106,529
8 Transfers	-	-	-41,559	43,384
9 Main Activity Peoducer	-458,840	-304	-	-23,130
10 Autoproducers	-3,638	-754	-	-892
11 Gas Processing	-1,919	-	-	-
12 Petroleum Refineries	-	-	-842,408	881,122
13 Coal Transformation	-14,831	4,582	-	-
14 Other Transformation	-	-	23,593	-
15 Loss & Own Use	-195	-1,379	-	-47,288
16 Discrepancy	-2,165	-0	-9,560	-2,899
17 Total Final Energy Consumption	21,164	2,035	3,563	743,768
18 Industry Sector	19,656	2,035	60	24,333
19 Transport Sector	-	-	32	559,197
20 Other Sector	1,509	-	727	41,678
20.1 Residential & Commercial	1,509	-	646	29,578
20.2 Agriculture	-	-	81	12,100
20.3 Other	-	-	-	-
21 Non Energy	-	-	2,744	118,560

Viet Nam, 2010

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	24,646	-	16,053	-
2 Import	576	79	-	12,703
3 Export	-11,031	-72	-8,121	-1,531
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	532	-	-499	1,597
7 Total Primary Energy Supply	14,723	7	7,434	12,769
8 Transfers	-	-	-817	817
9 Main Activity Peoducer	-4,720	-	-	-632
10 Autoproducers	-117	-	-	-529
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-5,606	5,706
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-1,011	-
16 Discrepancy	-0	-0	-0	0
17 Total Final Energy Consumption	9,886	7	-	18,131
18 Industry Sector	8,298	7	-	2,127
19 Transport Sector	-	-	-	11,164
20 Other Sector	1,588	-	-	2,084
20.1 Residential & Commercial	1,568	-	-	1,577
20.2 Agriculture	20	-	-	507
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	2,756

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
495,180	24,625	218,625	25,441	91,184	-	-	1,731,824
86,918	-	-	-	79	3,877	-	725,792
26,153	-	-	-	-987	-1,643	-	-192,280
-	-	-	-	-	-	-	-62,639
-	-	-	-	-	-	-	-21,565
548	-	-	-	-105	-	-	6,067
556,493	24,625	218,625	25,441	90,171	2,234	-	2,187,199
-	-	-	-	-	-	-	1,825
-171,238	-24,471	-218,625	-23,603	-13,959	362,444	12,140	-559,585
-13,849	-153	-	-228	-6,290	14,100	-	-11,705
1,272	-	-	-	-	-	-	-647
-	-	-	-	-	-	-	38,714
-	-	-	-	-	-	-	-10,249
-	-	-	-	-25,112	-	-	-1,519
-47,293	-	-	-	-	-51,813	-5,503	-153,471
-6,221	0	-	0	-1	0	-	-20,846
319,163	-	-	1,610	44,810	326,965	6,637	1,469,716
111,346	-	-	106	32,190	75,630	5,244	270,601
16,230	-	-	-	-	663	-	576,123
182,128	-	-	1,505	12,620	250,672	1,393	492,230
182,128	-	-	1,505	12,247	238,717	1,393	467,721
-	-	-	-	373	-	-	12,554
-	-	-	-	-	11,955	-	11,955
9,459	-	-	-	-	-	-	130,762

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
8,123	2,455	-	-	-	-	-	51,277
-	-	-	-	-	482	-	13,840
-	-	-	-	-	-83	-	-20,838
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1,630
8,123	2,455	-	-	-	399	-	45,910
-	-	-	-	-	-	-	-
-7,378	-2,455	-	-	-	7,947	-	-7,238
-253	-	-	-	-	268	-	-631
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	100
-	-	-	-	-	-	-	-
-	-	-	-	-	-1,085	-	-2,095
0	-	-	-	-	-53	-	-53
493	-	-	-	-	7,476	-	35,992
493	-	-	-	-	4,000	-	14,926
-	-	-	-	-	-	-	11,164
-	-	-	-	-	3,475	-	7,147
-	-	-	-	-	3,394	-	6,539
-	-	-	-	-	81	-	607
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	2,756

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 item 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:

- Domestic Air transport
- 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.