



APEC

ENERGY HANDBOOK 2011

ENERGY WORKING GROUP
NOVEMBER 2013

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



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Preface

The APEC Energy Handbook 2011 is a handy, pocket-sized summary of key energy data and a supplement to APEC Energy Statistics 2011 which has been released in November 2013 by the APEC Secretariat in Singapore.

This handbook consists of the following parts:

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

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

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

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

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Regional Coverage

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

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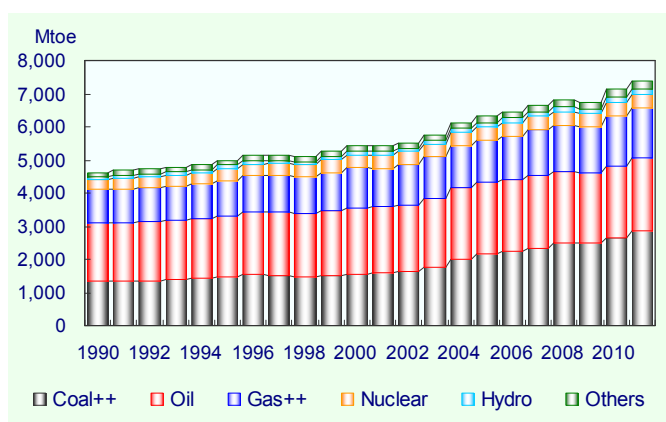
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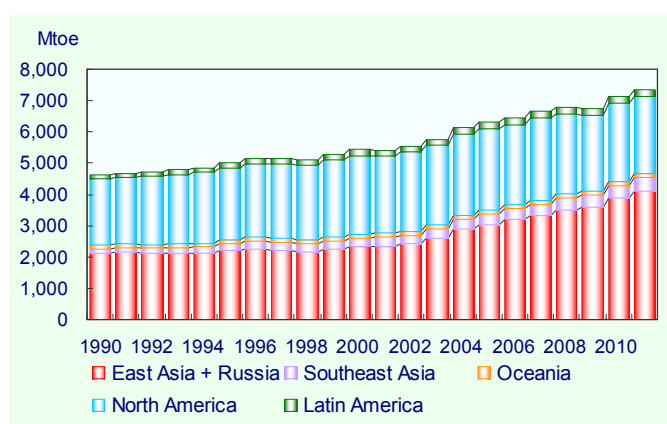
Total Primary Energy Supply by Energy APEC 20



	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	1,358.1	1,482.6	1,567.6	2,143.8	2,670.8	2,842.2
Oil	1,748.8	1,815.3	1,999.3	2,187.6	2,162.0	2,204.5
Gas++	997.7	1,085.4	1,195.7	1,260.3	1,475.6	1,537.0
Nuclear	283.4	344.7	389.2	415.9	433.2	402.4
Hydro	94.2	110.2	109.7	126.9	154.1	159.1
Others	147.1	157.6	173.2	187.4	230.0	226.1
Total	4,629.4	4,995.8	5,434.7	6,322.0	7,125.7	7,371.3

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	29.3	29.7	28.8	33.9	37.5	38.6
Oil	37.8	36.3	36.8	34.6	30.3	29.9
Gas++	21.6	21.7	22.0	19.9	20.7	20.9
Nuclear	6.1	6.9	7.2	6.6	6.1	5.5
Hydro	2.0	2.2	2.0	2.0	2.2	2.2
Others	3.2	3.2	3.2	3.0	3.2	3.1

Total Primary Energy Supply by Region APEC 20

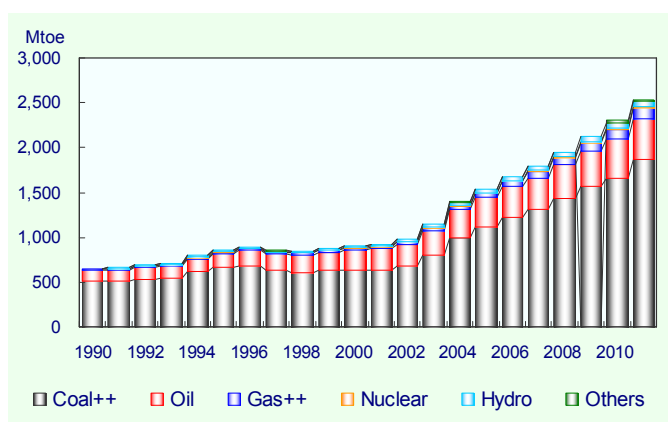


	Mtoe					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	2,116.5	2,208.8	2,323.1	3,046.2	3,876.3	4,123.9
Southeast Asia	142.5	215.9	271.4	330.8	401.1	413.5
Oceania	101.1	109.0	126.8	133.0	144.6	144.9
North America	2,125.1	2,304.3	2,531.8	2,602.3	2,476.6	2,451.1
Latin America	144.3	157.8	181.6	209.8	227.2	238.0
Total	4,629.4	4,995.8	5,434.7	6,322.0	7,125.7	7,371.3

	Share (%)					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	45.7	44.2	42.7	48.2	54.4	55.9
Southeast Asia	3.1	4.3	5.0	5.2	5.6	5.6
Oceania	2.2	2.2	2.3	2.1	2.0	2.0
North America	45.9	46.1	46.6	41.2	34.8	33.3
Latin America	3.1	3.2	3.3	3.3	3.2	3.2

Primary Energy Supply

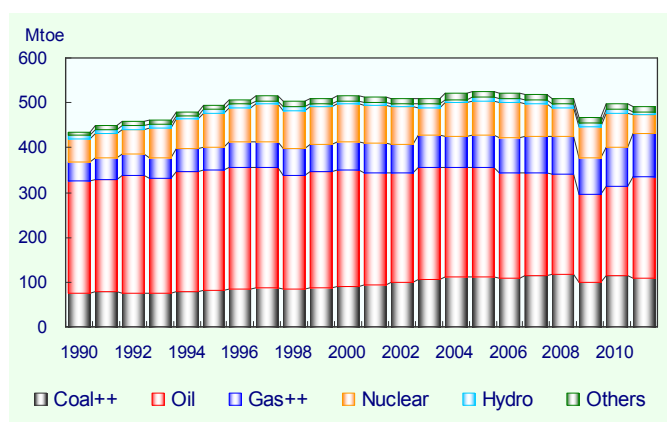
Total Primary Energy Supply by Energy China



	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	512.2	659.2	631.2	1,122.1	1,658.3	1,866.7
Oil	114.4	158.5	224.7	319.1	438.1	452.0
Gas++	14.2	16.7	22.4	44.7	100.1	121.9
Nuclear	-	3.3	4.4	13.8	19.3	22.5
Hydro	10.9	16.4	19.1	34.1	62.1	60.1
Others	2.3	3.8	3.4	5.5	21.6	13.0
Total	654.0	858.0	905.2	1,539.4	2,299.4	2,536.2

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	78.3	76.8	69.7	72.9	72.1	73.6
Oil	17.5	18.5	24.8	20.7	19.1	17.8
Gas++	2.2	1.9	2.5	2.9	4.4	4.8
Nuclear	-	0.4	0.5	0.9	0.8	0.9
Hydro	1.7	1.9	2.1	2.2	2.7	2.4
Others	0.3	0.4	0.4	0.4	0.9	0.5

Total Primary Energy Supply by Energy Japan

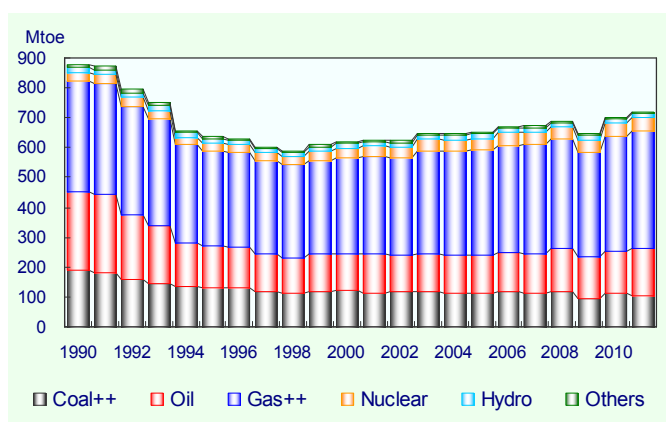


	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	75.4	82.9	91.8	112.7	113.2	107.1
Oil	249.1	267.4	256.5	244.3	201.8	227.6
Gas++	43.5	52.0	64.9	70.9	85.3	95.3
Nuclear	51.0	75.0	83.3	76.4	76.2	42.5
Hydro	8.2	7.7	8.1	7.5	8.1	7.7
Others	8.2	9.8	11.2	12.1	12.2	11.4
Total	435.4	494.8	515.8	523.9	496.9	491.4

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	17.3	16.7	17.8	21.5	22.8	21.8
Oil	57.2	54.0	49.7	46.6	40.6	46.3
Gas++	10.0	10.5	12.6	13.5	17.2	19.4
Nuclear	11.7	15.2	16.2	14.6	15.3	8.6
Hydro	1.9	1.6	1.6	1.4	1.6	1.6
Others	1.9	2.0	2.2	2.3	2.5	2.3

Primary Energy Supply

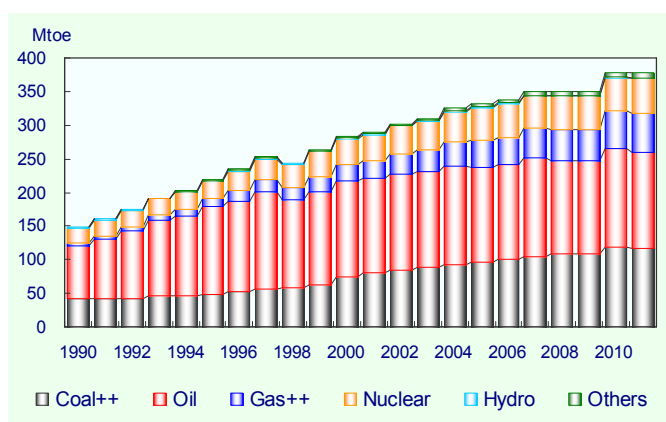
Total Primary Energy Supply by Energy Russia



	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	191.1	129.2	120.0	112.6	114.8	103.9
Oil	262.7	142.7	126.1	129.2	139.1	158.6
Gas++	367.4	316.6	319.0	349.7	383.6	391.4
Nuclear	30.9	26.0	34.1	39.0	44.4	45.1
Hydro	14.3	15.2	14.2	15.0	14.5	14.4
Others	11.5	6.9	5.7	6.2	5.9	5.6
Total	877.8	636.6	619.2	651.7	702.3	718.9

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	21.8	20.3	19.4	17.3	16.3	14.4
Oil	29.9	22.4	20.4	19.8	19.8	22.1
Gas++	41.9	49.7	51.5	53.7	54.6	54.4
Nuclear	3.5	4.1	5.5	6.0	6.3	6.3
Hydro	1.6	2.4	2.3	2.3	2.1	2.0
Others	1.3	1.1	0.9	1.0	0.8	0.8

Total Primary Energy Supply by Energy Other East Asia

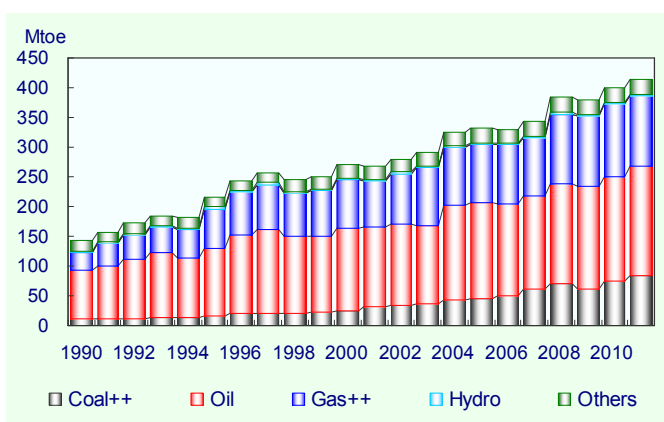


	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	42.1	48.4	73.6	95.8	118.9	116.6
Oil	78.4	129.6	142.9	141.3	146.0	141.7
Gas++	4.5	12.0	24.6	39.9	55.8	59.7
Nuclear	22.3	26.7	38.4	48.7	49.6	51.3
Hydro	1.3	1.2	1.2	1.1	1.2	1.3
Others	0.6	1.5	2.2	4.4	6.2	6.7
Total	149.2	219.4	283.0	331.3	377.7	377.3

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	28.2	22.1	26.0	28.9	31.5	30.9
Oil	52.6	59.1	50.5	42.7	38.6	37.6
Gas++	3.0	5.5	8.7	12.1	14.8	15.8
Nuclear	15.0	12.2	13.6	14.7	13.1	13.6
Hydro	0.8	0.6	0.4	0.3	0.3	0.3
Others	0.4	0.7	0.8	1.3	1.7	1.8

Primary Energy Supply

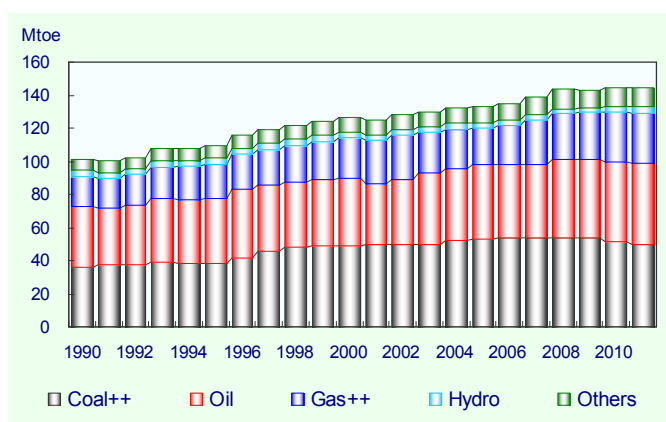
Total Primary Energy Supply by Energy Southeast Asia



	Mtoe					
	1990	1995	2000	2005	2010	2011
Coal++	10.6	16.8	25.6	46.3	74.4	83.6
Oil	81.7	113.6	137.7	161.0	175.6	183.5
Gas++	31.2	66.0	82.6	98.0	122.5	118.4
Nuclear	-	-	-	-	-	-
Hydro	2.2	2.8	2.6	2.6	3.2	3.2
Others	16.8	16.7	22.8	22.9	25.5	24.7
Total	142.5	215.9	271.4	330.8	401.1	413.5

	Share (%)					
	1990	1995	2000	2005	2010	2011
Coal++	7.4	7.8	9.4	14.0	18.5	20.2
Oil	57.3	52.6	50.7	48.7	43.8	44.4
Gas++	21.9	30.6	30.5	29.6	30.5	28.6
Nuclear	-	-	-	-	-	-
Hydro	1.6	1.3	1.0	0.8	0.8	0.8
Others	11.8	7.7	8.4	6.9	6.3	6.0

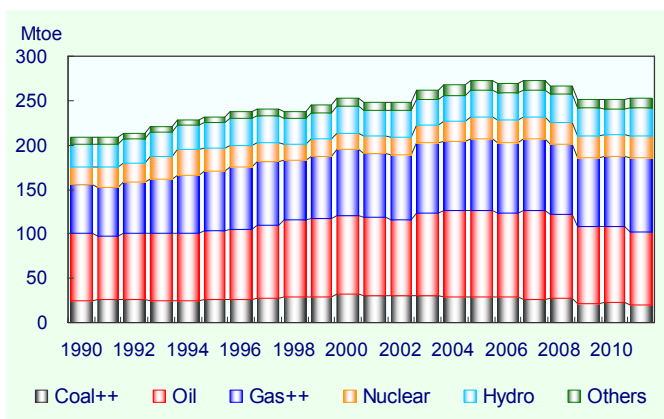
Total Primary Energy Supply by Energy Oceania



	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	36.2	38.7	49.3	53.2	51.4	49.6
Oil	36.1	38.6	40.7	44.4	48.0	49.0
Gas++	18.7	20.7	24.3	22.3	30.1	30.6
Nuclear	-	-	-	-	-	-
Hydro	3.3	3.8	3.6	3.4	3.4	3.7
Others	6.7	7.2	8.9	9.6	11.8	12.0
Total	101.1	109.0	126.8	133.0	144.6	144.9

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	35.8	35.5	38.9	40.0	35.5	34.2
Oil	35.7	35.4	32.1	33.4	33.2	33.9
Gas++	18.5	18.9	19.1	16.8	20.8	21.1
Nuclear	-	-	-	-	-	-
Hydro	3.3	3.5	2.9	2.6	2.3	2.5
Others	6.7	6.6	7.0	7.2	8.1	8.3

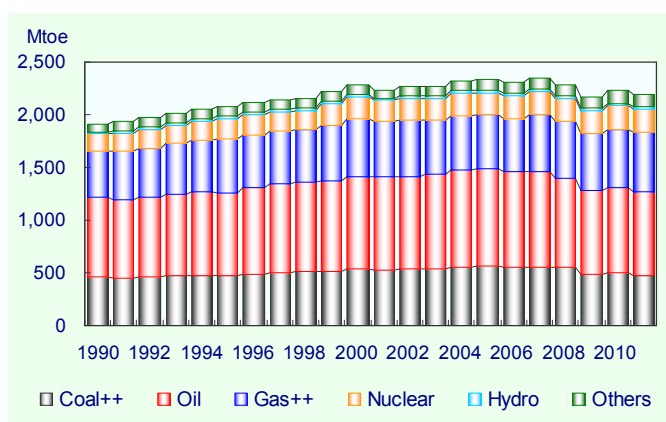
Total Primary Energy Supply by Energy Canada



	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	24.3	25.3	31.7	28.8	22.3	19.6
Oil	76.9	78.2	88.3	97.9	86.4	82.7
Gas++	54.7	67.1	74.3	80.6	78.7	83.6
Nuclear	19.0	25.5	19.0	24.0	23.6	24.4
Hydro	25.5	28.9	30.8	31.3	30.2	32.3
Others	8.1	6.7	8.6	10.2	10.5	10.0
Total	208.6	231.8	252.6	272.8	251.7	252.6

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	11.6	10.9	12.5	10.6	8.9	7.8
Oil	36.8	33.7	34.9	35.9	34.3	32.8
Gas++	26.2	29.0	29.4	29.6	31.3	33.1
Nuclear	9.1	11.0	7.5	8.8	9.4	9.7
Hydro	12.2	12.5	12.2	11.5	12.0	12.8
Others	3.9	2.9	3.4	3.7	4.2	3.9

Total Primary Energy Supply by Energy United States of America

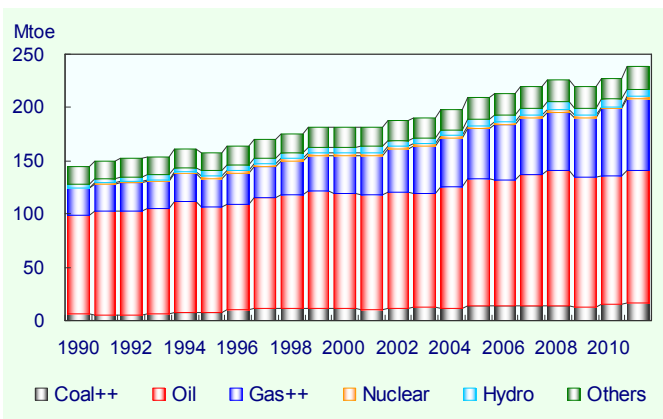


	1990	1995	2000	2005	2010	Mtoe 2011
Coal++	460.2	474.0	533.6	558.4	502.6	479.0
Oil	756.8	788.8	874.4	930.9	805.9	784.8
Gas++	438.4	507.4	547.9	507.2	556.3	568.9
Nuclear	159.4	186.0	207.9	211.3	218.6	214.1
Hydro	24.9	29.1	24.1	25.6	24.6	29.6
Others	76.9	87.4	91.4	96.2	116.7	122.2
Total	1,916.5	2,072.6	2,279.2	2,329.5	2,224.8	2,198.5

	1990	1995	2000	2005	2010	Share (%) 2011
Coal++	24.0	22.9	23.4	24.0	22.6	21.8
Oil	39.5	38.1	38.4	40.0	36.2	35.7
Gas++	22.9	24.5	24.0	21.8	25.0	25.9
Nuclear	8.3	9.0	9.1	9.1	9.8	9.7
Hydro	1.3	1.4	1.1	1.1	1.1	1.3
Others	4.0	4.2	4.0	4.1	5.2	5.6

Primary Energy Supply

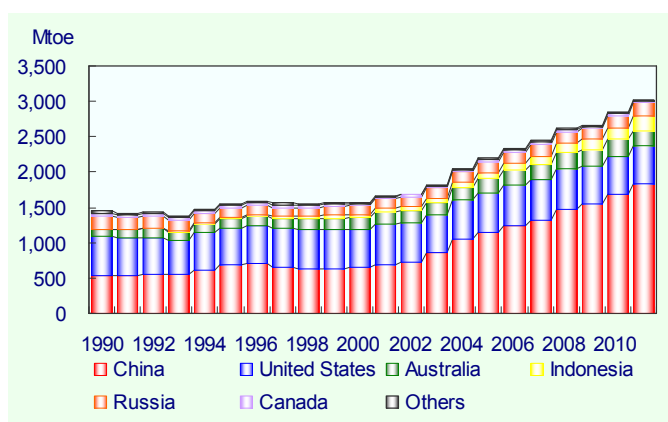
Total Primary Energy Supply by Energy Latin America



						Mtoe
	1990	1995	2000	2005	2010	2011
Coal++	6.1	8.2	10.8	13.8	14.8	16.0
Oil	92.7	97.8	108.1	119.5	121.1	124.7
Gas++	25.0	26.9	35.7	47.1	63.3	67.3
Nuclear	0.8	2.2	2.1	2.8	1.5	2.6
Hydro	3.7	5.1	5.8	6.2	6.8	6.8
Others	16.0	17.6	19.0	20.4	19.7	20.6
Total	144.3	157.8	181.6	209.8	227.2	238.0

						Share (%)
	1990	1995	2000	2005	2010	2011
Coal++	4.2	5.2	6.0	6.6	6.5	6.7
Oil	64.3	62.0	59.5	57.0	53.3	52.4
Gas++	17.3	17.1	19.6	22.5	27.8	28.3
Nuclear	0.5	1.4	1.2	1.3	0.7	1.1
Hydro	2.5	3.2	3.2	3.0	3.0	2.8
Others	11.1	11.1	10.5	9.7	8.7	8.7

Indigenous Production of Coal APEC 20

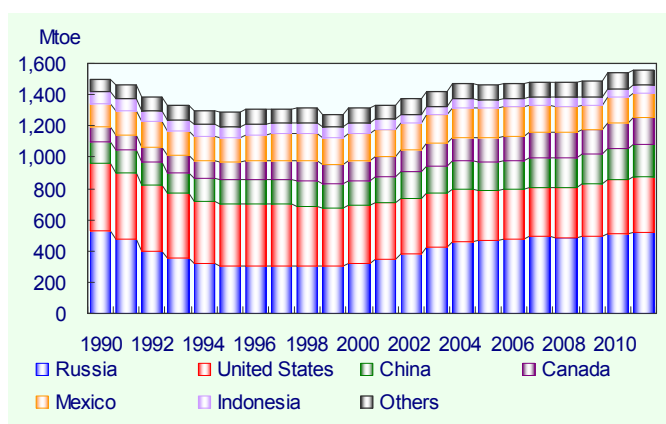


	1990	1995	2000	2005	2010	Mtoe 2011
China	540.0	680.4	649.6	1,143.3	1,691.7	1,828.2
United States	542.3	529.8	536.9	565.3	531.8	536.4
Australia	105.9	127.6	164.1	200.9	236.2	222.1
Indonesia	5.8	24.0	44.0	82.8	161.8	207.7
Russia	192.4	130.7	128.5	157.4	180.0	180.0
Canada	37.9	40.8	34.4	31.9	33.8	33.7
Others	24.4	19.7	19.3	17.6	20.6	23.2
Total	1,448.7	1,553.0	1,576.9	2,199.1	2,856.0	3,031.2

	1990	1995	2000	2005	2010	Share (%) 2011
China	37.3	43.8	41.2	52.0	59.2	60.3
United States	37.4	34.1	34.0	25.7	18.6	17.7
Australia	7.3	8.2	10.4	9.1	8.3	7.3
Russia	13.3	8.4	8.2	7.2	6.3	5.9
Indonesia	0.4	1.5	2.8	3.8	5.7	6.9
Canada	2.6	2.6	2.2	1.4	1.2	1.1
Others	1.7	1.3	1.2	0.8	0.7	0.8

Coal: Hard Coal, Anthracite and Lignite

Indigenous Production of Crude Oil APEC 20

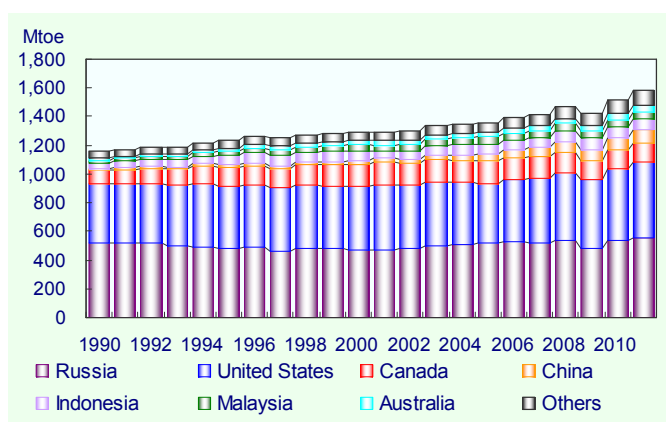


	1990	1995	2000	2005	2010	Mtoe 2011
Russia	526.3	306.6	323.3	468.7	506.5	514.9
United States	432.5	397.9	365.6	322.5	346.8	360.8
China	138.4	150.0	163.0	181.4	203.0	202.9
Canada	94.5	113.9	128.9	148.0	163.9	174.1
Mexico	152.8	155.3	171.1	197.2	160.6	159.1
Indonesia	70.7	72.9	69.0	48.1	58.0	51.3
Others	85.2	89.2	94.2	97.2	99.3	91.9
Total	1,500.5	1,285.8	1,315.1	1,463.1	1,538.2	1,554.9

	1990	1995	2000	2005	2010	Share (%) 2011
Russia	35.1	23.8	24.6	32.0	32.9	33.1
United States	28.8	30.9	27.8	22.0	22.5	23.2
China	9.2	11.7	12.4	12.4	13.2	13.0
Canada	6.3	8.9	9.8	10.1	10.7	11.2
Mexico	10.2	12.1	13.0	13.5	10.4	10.2
Indonesia	4.7	5.7	5.2	3.3	3.8	3.3
Others	5.7	6.9	7.2	6.6	6.5	5.9

Crude Oil includes NGL and condensate

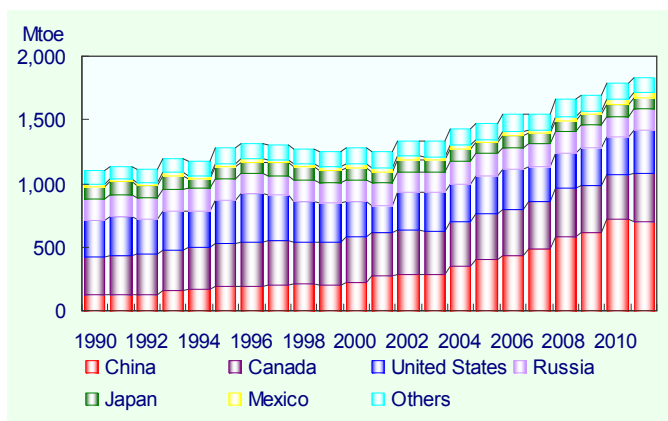
Indigenous Production of Natural Gas APEC 20



	1990	1995	2000	2005	2010	Mtoe 2011
Russia	516.8	480.6	470.7	515.8	540.2	552.9
United States	418.2	434.6	446.9	421.6	494.8	531.1
Canada	88.6	130.3	148.4	154.1	132.4	132.4
China	14.2	16.7	25.3	47.4	88.3	95.6
Indonesia	41.0	68.0	65.8	68.7	76.6	72.8
Malaysia	15.5	26.7	44.8	52.0	47.9	48.1
Australia	17.1	25.0	28.4	31.4	42.3	44.8
Others	45.6	51.0	63.7	70.5	98.4	108.6
Total	1,157.1	1,232.7	1,294.0	1,361.4	1,520.9	1,586.2

	1990	1995	2000	2005	2010	Share (%) 2011
Russia	44.7	39.0	36.4	37.9	35.5	34.9
United States	36.1	35.3	34.5	31.0	32.5	33.5
Canada	7.7	10.6	11.5	11.3	8.7	8.3
China	1.2	1.4	2.0	3.5	5.8	6.0
Malaysia	1.3	2.2	3.5	3.8	3.2	3.0
Indonesia	3.5	5.5	5.1	5.0	5.0	4.6
Australia	1.5	2.0	2.2	2.3	2.8	2.8
Others	3.9	4.1	4.9	5.2	6.5	6.8

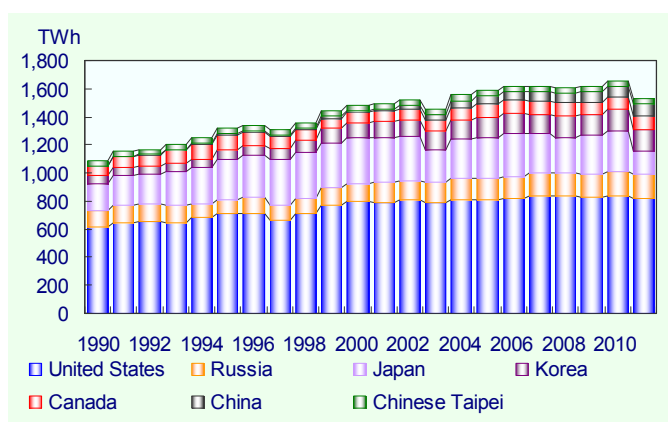
Indigenous Production of Hydro Power APEC 20



	TWh					
	1990	1995	2000	2005	2010	2011
China	126.7	190.6	222.4	397.0	722.2	698.9
Canada	296.8	336.0	358.6	363.7	351.5	375.8
United States	289.0	337.9	280.0	297.9	286.3	344.7
Russia	165.9	176.4	165.4	174.6	168.4	167.6
Japan	95.6	90.0	94.2	87.1	95.3	89.3
Mexico	23.5	27.5	33.1	27.7	37.1	36.3
Others	98.1	122.7	122.1	128.1	132.0	113.6
Total	1,095.6	1,281.2	1,275.8	1,476.1	1,792.8	1,826.2

	Share (%)					
	1990	1995	2000	2005	2010	2011
China	11.6	14.9	17.4	26.9	40.3	38.3
Canada	27.1	26.2	28.1	24.6	19.6	20.6
United States	26.4	26.4	21.9	20.2	16.0	18.9
Russia	15.1	13.8	13.0	11.8	9.4	9.2
Japan	8.7	7.0	7.4	5.9	5.3	4.9
Mexico	2.1	2.1	2.6	1.9	2.1	2.0
Others	9.0	9.6	9.6	8.7	7.4	6.2

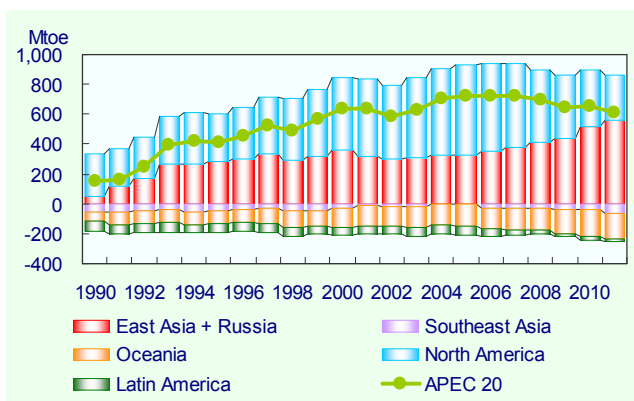
Indigenous Production of Nuclear Power APEC 20



	TWh					
	1990	1995	2000	2005	2010	2011
United States	611.6	713.8	797.7	810.7	838.9	821.4
Russia	118.3	99.5	130.7	149.4	170.4	172.9
Japan	195.8	287.9	319.8	293.0	292.4	162.9
Korea	52.9	67.0	109.0	146.8	148.6	154.7
Canada	73.0	97.8	72.8	92.0	90.7	93.6
China	-	12.8	16.7	53.1	73.9	86.4
Chinese Taipei	32.9	35.3	38.5	40.0	41.6	42.1
Mexico	2.9	8.4	8.2	10.8	5.9	10.1
Total	1,087.3	1,322.7	1,493.4	1,595.9	1,662.3	1,544.1

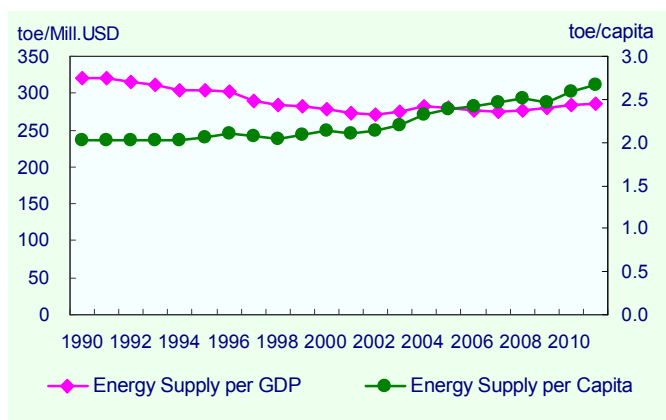
	Share (%)					
	1990	1995	2000	2005	2010	2011
United States	56.2	54.0	53.4	50.8	50.5	53.2
Russia	10.9	7.5	8.8	9.4	10.3	11.2
Japan	18.0	21.8	21.4	18.4	17.6	10.6
Korea	4.9	5.1	7.3	9.2	8.9	10.0
Canada	6.7	7.4	4.9	5.8	5.5	6.1
China	-	1.0	1.1	3.3	4.4	5.6
Chinese Taipei	3.0	2.7	2.6	2.5	2.5	2.7
Mexico	0.3	0.6	0.6	0.7	0.4	0.7

Net Import by Region APEC 20



	1990	1995	2000	2005	2010	Mtoe 2011
Australia	-64.4	-89.1	-126.8	-148.1	-185.4	-179.2
Brunei Darussalam	-13.7	-14.3	-15.2	-17.8	-17.0	-17.2
Canada	-59.3	-119.7	-127.7	-133.9	-150.6	-158.5
Chile	7.0	10.8	17.7	20.5	22.3	24.9
China	-30.5	-8.9	32.4	137.4	333.7	381.3
Hong Kong, China	10.8	14.3	18.2	23.4	31.1	31.9
Indonesia	-65.9	-85.2	-82.4	-73.9	-140.7	-176.3
Japan	371.4	405.7	420.4	433.1	406.6	409.3
Korea	70.1	134.8	165.7	175.6	221.0	227.4
Malaysia	-25.4	-28.3	-27.4	-30.6	-15.6	-8.0
Mexico	-69.9	-68.8	-71.3	-79.2	-43.0	-36.2
New Zealand	2.1	3.1	3.4	4.9	2.9	3.2
Papua New Guinea	-3.7	-4.0	-2.7	-1.0	0.8	0.8
Peru	-0.6	1.8	3.3	2.8	-2.8	-1.9
Philippines	11.9	17.7	20.0	17.0	17.7	18.1
Russia	-412.6	-315.0	-349.6	-539.3	-579.1	-583.9
Singapore	22.9	31.9	40.3	50.8	67.1	67.8
Chinese Taipei	39.4	55.7	76.4	96.4	101.8	96.7
Thailand	18.2	32.6	34.6	48.2	53.5	52.5
United States	341.9	433.4	606.4	736.1	533.9	456.4
Total	149.9	408.6	635.8	722.3	658.0	609.1

Total Primary Energy Supply per GDP & Capita APEC 20

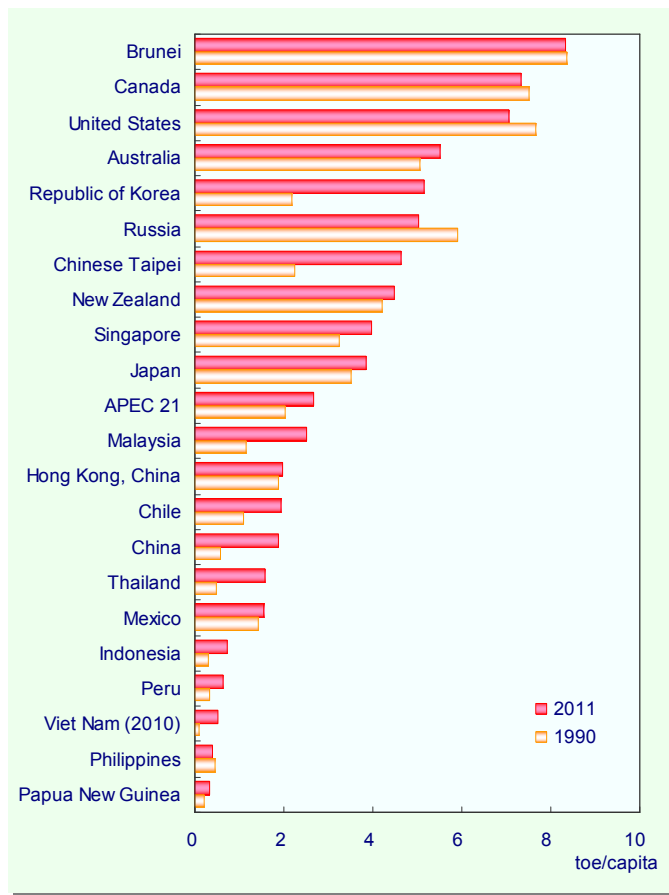


	toe/capita					
	1990	1995	2000	2005	2010	2011
Population (mill.)	2,284	2,426	2,553	2,654	2,749	2,769
Primary Energy Supply per Capita	2.03	2.06	2.13	2.38	2.59	2.66

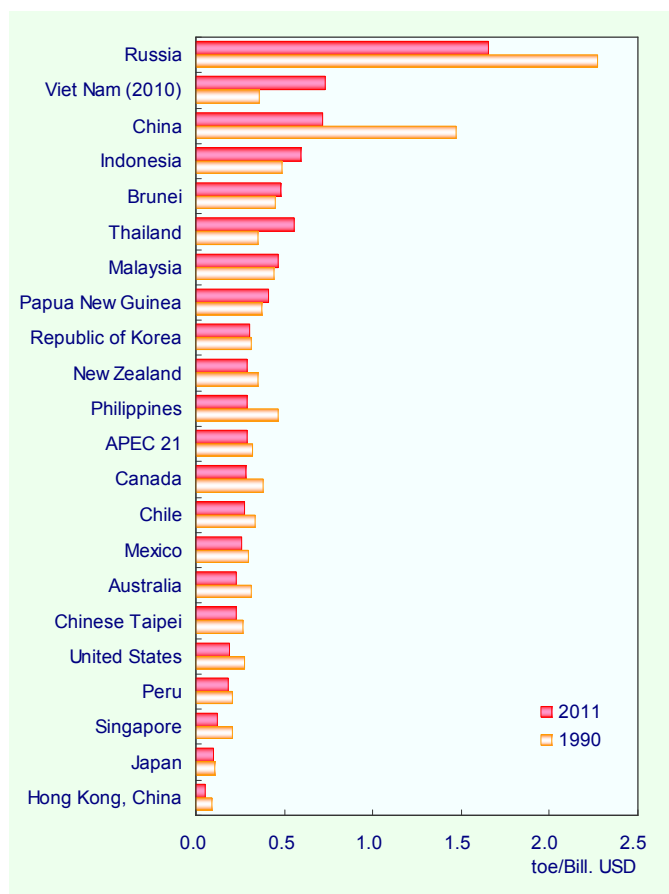
	toe/mill. USD					
	1990	1995	2000	2005	2010	2011
GDP (bill. USD)	14,423	16,425	19,576	22,566	25,138	25,815
Primary Energy Supply per GDP	321.0	304.2	277.6	280.2	283.5	285.5

Primary Energy Supply

Total Primary Energy Supply per Capita 1990 – 2011 by Economy

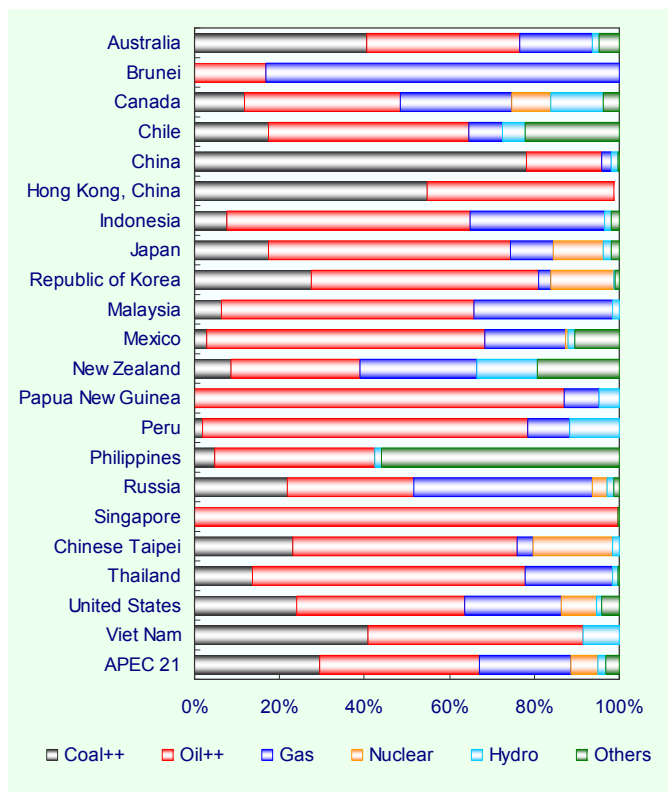


Total Primary Energy Supply per GDP 1990 – 2011 by Economy

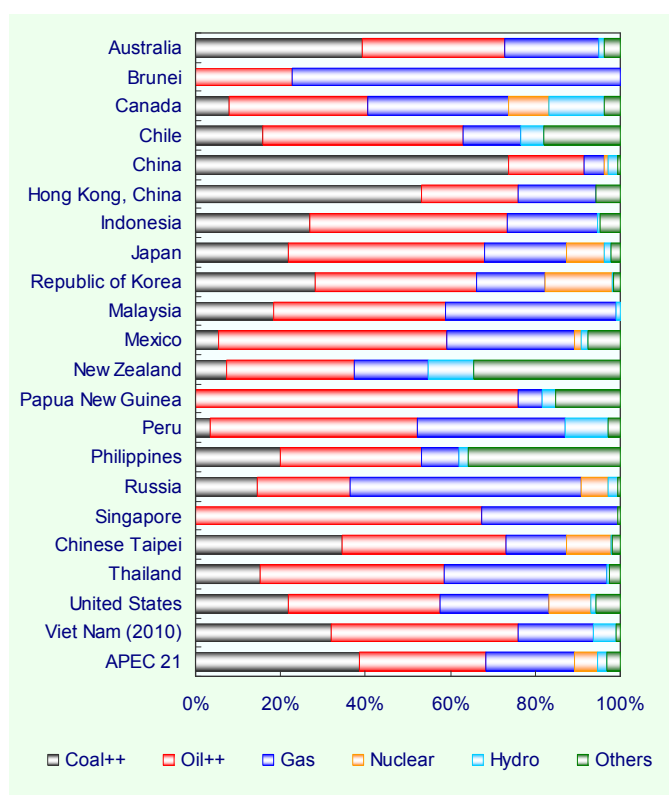


Primary Energy Supply

Primary Energy Mix by Economy 1990

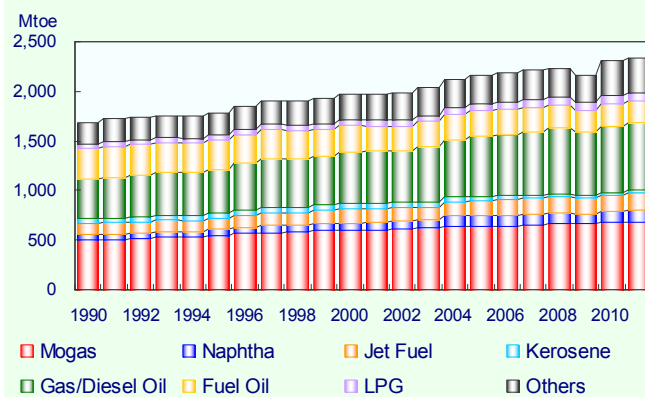


Primary Energy Mix by Economy 2011



Primary Energy Supply

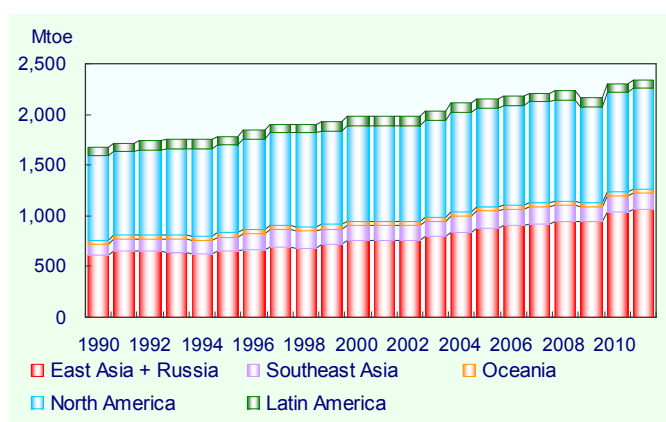
Refining of Petroleum Products by Fuel APEC 20



	1990	1995	2000	2005	2010	Mtoe 2011
Mogas	504.4	547.2	599.5	640.4	683.2	685.5
Naphtha	47.7	59.0	72.1	104.5	99.9	118.5
Jet Fuel	120.4	119.7	137.9	153.9	165.2	168.3
Kerosene	41.2	47.2	59.3	45.0	29.0	26.5
Gas/Diesel Oil	401.8	441.7	516.7	604.1	669.2	688.2
Fuel Oil	315.9	297.9	267.0	258.1	228.6	219.5
LPG	42.0	50.8	61.8	68.7	83.1	83.8
Others	207.5	221.3	261.4	280.3	349.0	352.3
Total	1,680.7	1,784.8	1,975.7	2,155.0	2,307.2	2,342.6

	1990	1995	2000	2005	2010	Share (%) 2011
Mogas	30.0	30.7	30.3	29.7	29.6	29.3
Naphtha	2.8	3.3	3.7	4.9	4.3	5.1
Jet Fuel	7.2	6.7	7.0	7.1	7.2	7.2
Kerosene	2.4	2.6	3.0	2.1	1.3	1.1
Gas/Diesel Oil	23.9	24.7	26.2	28.0	29.0	29.4
Fuel Oil	18.8	16.7	13.5	12.0	9.9	9.4
LPG	2.5	2.8	3.1	3.2	3.6	3.6
Others	12.3	12.4	13.2	13.0	15.1	15.0

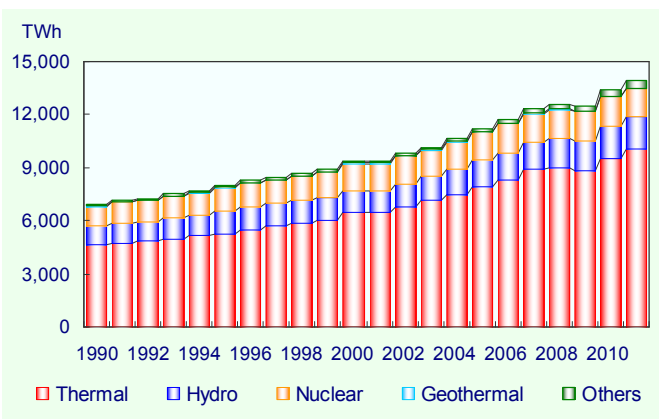
Refining of Petroleum Products by Region APEC 20



	Mtoe					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	614.4	647.3	751.6	877.2	1,035.5	1,064.1
Southeast Asia	109.9	142.6	152.3	166.8	164.9	165.2
Oceania	37.0	41.2	43.5	40.8	38.2	40.0
North America	840.5	869.5	945.7	979.8	982.2	988.3
Latin America	78.9	84.2	82.6	90.3	86.3	85.0
Total	1,680.7	1,784.8	1,975.7	2,155.0	2,307.2	2,342.6

	Share (%)					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	36.6	36.3	38.0	40.7	44.9	45.4
Southeast Asia	6.5	8.0	7.7	7.7	7.1	7.1
Oceania	2.2	2.3	2.2	1.9	1.7	1.7
North America	50.0	48.7	47.9	45.5	42.6	42.2
Latin America	4.7	4.7	4.2	4.2	3.7	3.6

Electricity Power Generation by Type APEC 20

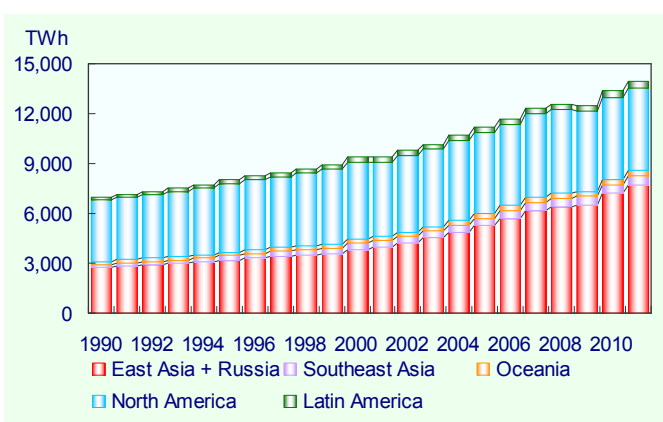


	TWh					
	1990	1995	2000	2005	2010	2011
Thermal	4,625.9	5,268.0	6,439.0	7,931.2	9,529.3	10,068.8
Hydro	1,095.6	1,281.2	1,275.8	1,476.1	1,792.8	1,826.2
Nuclear	1,087.3	1,322.7	1,493.4	1,595.9	1,662.3	1,544.1
Geothermal	31.5	34.1	43.4	47.4	52.9	53.4
Others	113.4	100.6	115.0	170.6	341.8	445.0
Total	6,953.8	8,006.6	9,366.6	11,221.2	13,379.2	13,937.5

	Share (%)					
	1990	1995	2000	2005	2010	2011
Thermal	66.5	65.8	68.7	70.7	71.2	72.2
Hydro	15.8	16.0	13.6	13.2	13.4	13.1
Nuclear	15.6	16.5	15.9	14.2	12.4	11.1
Geothermal	0.5	0.4	0.5	0.4	0.4	0.4
Others	1.6	1.3	1.2	1.5	2.6	3.2

"Others" comprises power generated from renewable energy.

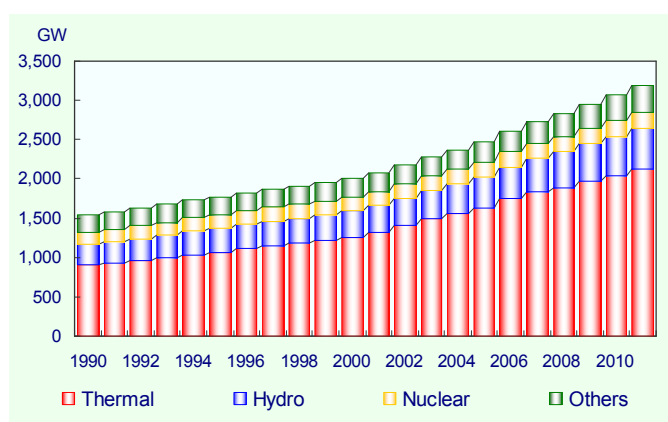
Electricity Power Generation by Region APEC 20



	TWh					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	2,768.5	3,181.2	3,825.5	5,259.4	7,186.0	7,691.3
Southeast Asia	148.0	275.2	366.7	444.9	544.8	590.5
Oceania	189.1	210.8	251.8	274.6	300.5	305.1
North America	3,700.8	4,142.2	4,658.4	4,920.5	4,980.4	4,985.1
Latin America	147.4	197.1	264.2	321.8	367.4	365.6
Total	6,953.8	8,006.6	9,366.6	11,221.2	13,379.2	13,937.5

	Share (%)					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	39.8	39.7	40.8	46.9	53.7	55.2
Southeast Asia	2.1	3.4	3.9	4.0	4.1	4.2
Oceania	2.7	2.6	2.7	2.4	2.2	2.2
North America	53.2	51.7	49.7	43.9	37.2	35.8
Latin America	2.1	2.5	2.8	2.9	2.7	2.6

Power Generation Capacity by Type APEC 20

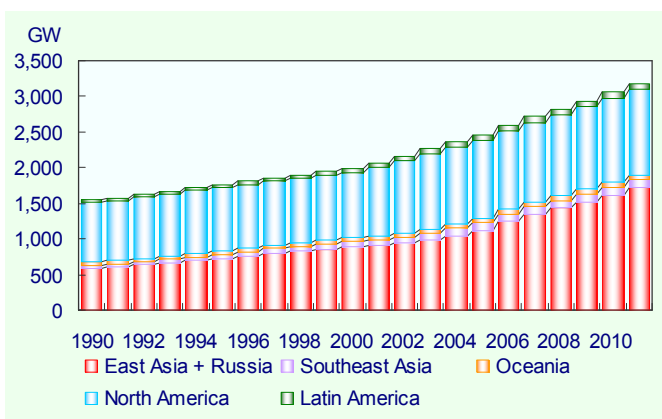


	GW					
	1990	1995	2000	2005	2010	2011
Thermal	903.7	1,063.7	1,254.1	1,636.0	2,049.5	2,124.4
Hydro	263.4	306.1	341.4	388.3	494.4	517.5
Nuclear	158.3	174.4	176.0	192.1	197.7	200.8
Others	223.3	227.4	229.5	255.0	331.4	342.1
Total	1,548.7	1,771.6	2,001.0	2,471.3	3,073.1	3,184.8

	Share (%)					
	1990	1995	2000	2005	2010	2011
Thermal	58.4	60.0	62.7	66.2	66.7	66.7
Hydro	17.0	17.3	17.1	15.7	16.1	16.3
Nuclear	10.2	9.8	8.8	7.8	6.4	6.3
Others	14.4	12.8	11.5	10.3	10.8	10.7

"Others" comprises power generated from renewable energy.

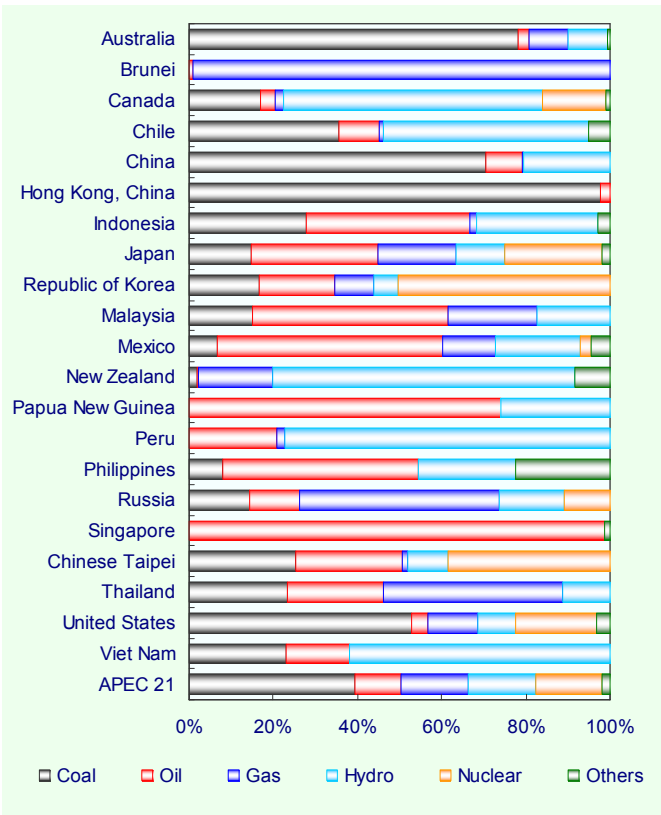
Power Generation Capacity by Region APEC 20



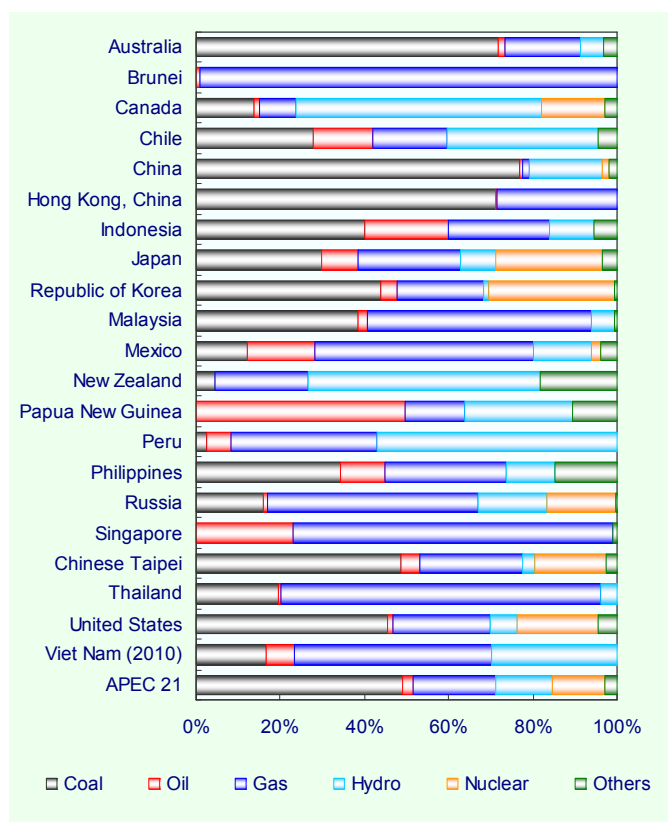
	GW					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	592.3	723.4	883.6	1,124.5	1,614.7	1,718.1
Southeast Asia	34.5	55.4	75.9	104.0	114.0	113.1
Oceania	46.1	50.6	55.1	58.7	68.0	68.6
North America	837.7	891.8	924.0	1,101.4	1,178.1	1,194.0
Latin America	35.6	46.0	56.3	71.3	86.5	79.2
Total	1,546.2	1,767.1	1,994.8	2,459.9	3,061.3	3,173.0

	Share (%)					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	38.3	40.9	44.3	45.7	52.7	54.1
Southeast Asia	2.2	3.1	3.8	4.2	3.7	3.6
Oceania	3.0	2.9	2.8	2.4	2.2	2.2
North America	54.2	50.5	46.3	44.8	38.5	37.6
Latin America	2.3	2.6	2.8	2.9	2.8	2.5

Electricity Power Generation by Economy 1990

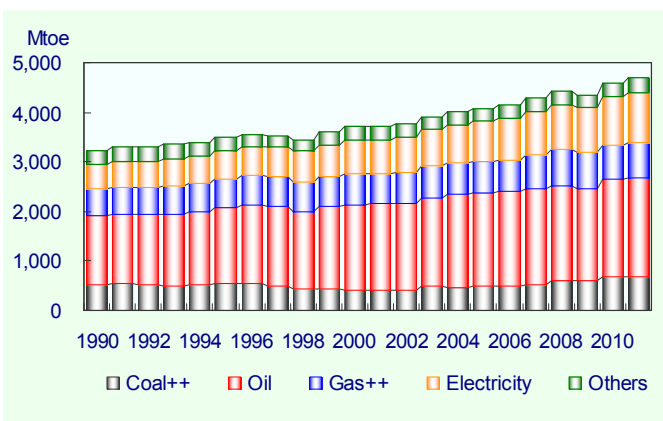


Electricity Power Generation by Economy 2011



Transformation

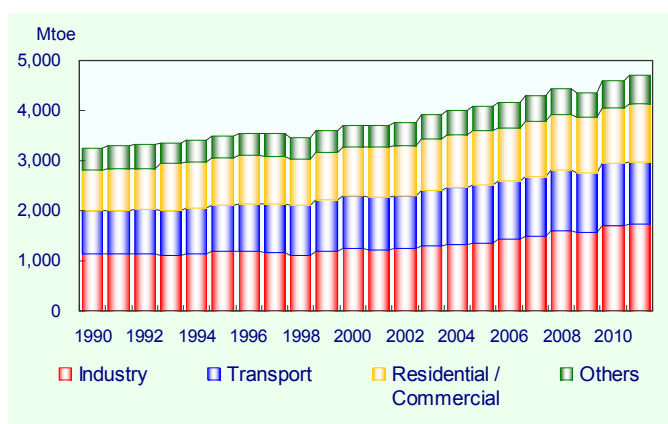
Total Final Energy Consumption by Energy APEC 20



	Mtoe					
	1990	1995	2000	2005	2010	2011
Coal++	517.8	549.1	420.2	487.7	676.4	691.8
Oil	1,385.7	1,516.6	1,714.3	1,895.9	1,966.6	1,987.2
Gas++	551.0	585.3	633.5	626.8	700.1	720.7
Electricity	501.7	562.8	672.4	802.5	968.7	1,006.8
Others	275.9	272.3	273.7	264.2	271.9	285.8
Total	3,232.1	3,485.9	3,714.1	4,077.1	4,583.7	4,692.4

	Share (%)					
	1990	1995	2000	2005	2010	2011
Coal++	16.0	15.8	11.3	12.0	14.8	14.7
Oil	42.9	43.5	46.2	46.5	42.9	42.3
Gas++	17.0	16.8	17.1	15.4	15.3	15.4
Electricity	15.5	16.1	18.1	19.7	21.1	21.5
Others	8.5	7.8	7.4	6.5	5.9	6.1

Total Final Energy Consumption by Sector APEC 20

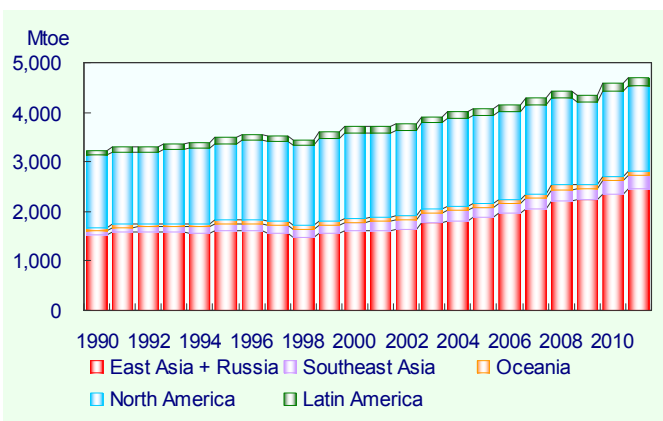


	Mtoe					
	1990	1995	2000	2005	2010	2011
Industry	1,129.6	1,182.7	1,245.6	1,351.4	1,694.2	1,729.0
Transport	861.0	926.4	1,042.9	1,165.6	1,242.3	1,255.5
Residential / Commercial	818.1	949.6	994.8	1,068.9	1,129.7	1,143.4
Others	423.4	427.2	430.7	491.1	517.6	564.5
Total	3,232.1	3,485.9	3,714.1	4,077.1	4,583.7	4,692.4

	Share (%)					
	1990	1995	2000	2005	2010	2011
Industry	34.9	33.9	33.5	33.1	37.0	36.8
Transport	26.6	26.6	28.1	28.6	27.1	26.8
Residential / Commercial	25.3	27.2	26.8	26.2	24.6	24.4
Others	13.1	12.3	11.6	12.0	11.3	12.0

Final Energy Consumption

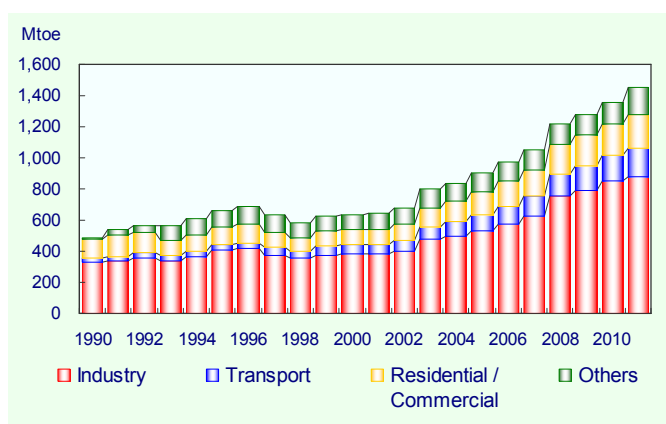
Total Final Energy Consumption by Region APEC 20



	Mtoe					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	1,520.8	1,612.1	1,605.5	1,881.0	2,362.1	2,466.6
Southeast Asia	92.5	137.2	162.6	199.1	250.6	257.1
Oceania	66.8	74.2	83.4	85.9	90.7	91.6
North America	1,450.4	1,550.2	1,734.8	1,775.1	1,730.5	1,721.2
Latin America	101.6	112.3	127.9	136.0	149.9	156.0
Total	3,232.1	3,485.9	3,714.1	4,077.1	4,583.7	4,692.4

	Share (%)					
	1990	1995	2000	2005	2010	2011
East Asia + Russia	47.1	46.2	43.2	46.1	51.5	52.6
Southeast Asia	2.9	3.9	4.4	4.9	5.5	5.5
Oceania	2.1	2.1	2.2	2.1	2.0	2.0
North America	44.9	44.5	46.7	43.5	37.8	36.7
Latin America	3.1	3.2	3.4	3.3	3.3	3.3

Total Final Energy Consumption by Sector China

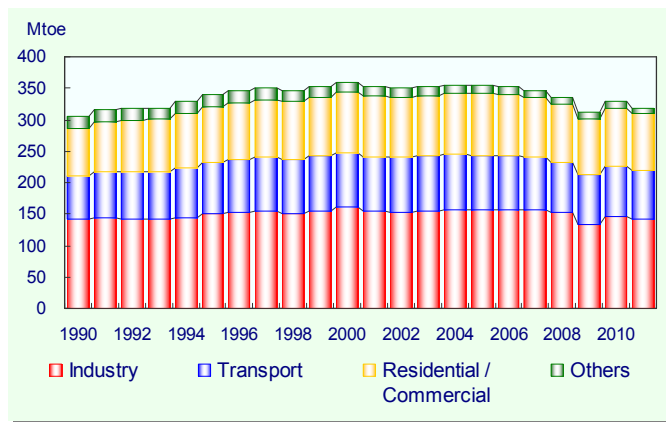


	Mtoe					
	1990	1995	2000	2005	2010	2011
Industry	329.8	410.0	379.3	527.9	848.6	876.0
Transport	28.8	36.4	60.1	105.0	166.5	182.5
Residential / Commercial	118.4	107.0	96.0	153.4	204.4	221.9
Others	13.0	107.3	99.3	117.4	136.3	172.0
Total	489.9	660.7	634.7	903.6	1,355.9	1,452.4

	Share (%)					
	1990	1995	2000	2005	2010	2011
Industry	67.3	62.1	59.8	58.4	62.6	60.3
Transport	5.9	5.5	9.5	11.6	12.3	12.6
Residential / Commercial	24.2	16.2	15.1	17.0	15.1	15.3
Others	2.6	16.2	15.6	13.0	10.1	11.8

Final Energy Consumption

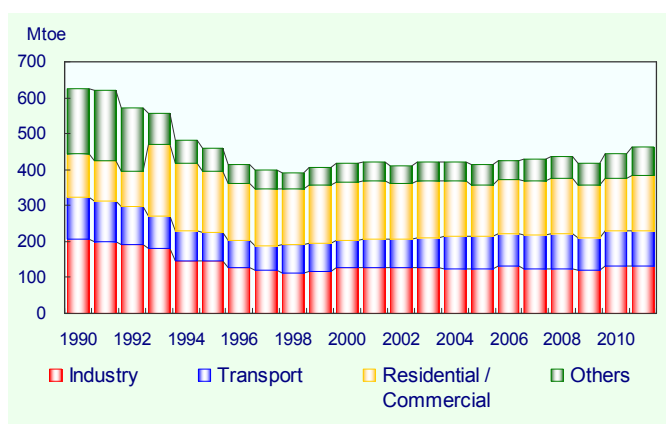
Total Final Energy Consumption by Sector Japan



	1990	1995	2000	2005	2010	Mtoe 2011
Industry	141.0	150.5	160.7	156.1	145.8	142.5
Transport	70.0	81.4	87.4	86.9	80.5	77.8
Residential / Commercial	74.3	88.8	95.3	98.8	92.4	89.4
Others	19.5	19.0	16.6	13.9	9.5	9.2
Total	304.9	339.7	360.1	355.6	328.2	319.0

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	46.3	44.3	44.6	43.9	44.4	44.7
Transport	23.0	24.0	24.3	24.4	24.5	24.4
Residential / Commercial	24.4	26.1	26.5	27.8	28.2	28.0
Others	6.4	5.6	4.6	3.9	2.9	2.9

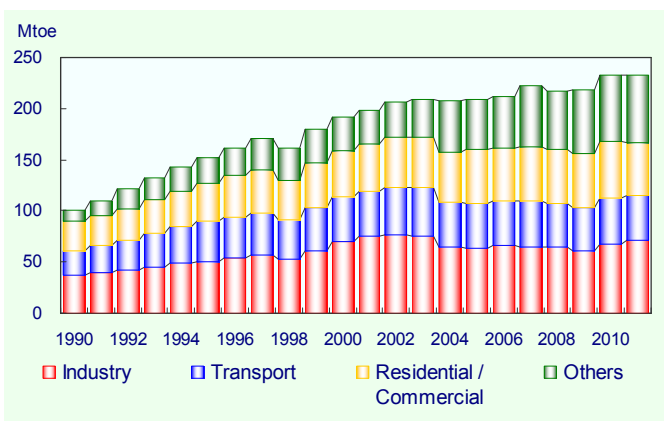
Total Final Energy Consumption by Sector Russia



	1990	1995	2000	2005	2010	Mtoe 2011
Industry	208.7	148.3	129.5	124.2	131.7	132.6
Transport	115.9	76.1	74.5	88.6	96.5	98.4
Residential / Commercial	119.8	172.4	162.9	145.3	148.5	153.4
Others	180.7	63.1	51.9	54.4	69.1	78.4
Total	625.0	460.0	418.8	412.4	445.8	462.8

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	33.4	32.2	30.9	30.1	29.5	28.7
Transport	18.5	16.6	17.8	21.5	21.6	21.3
Residential / Commercial	19.2	37.5	38.9	35.2	33.3	33.1
Others	28.9	13.7	12.4	13.2	15.5	16.9

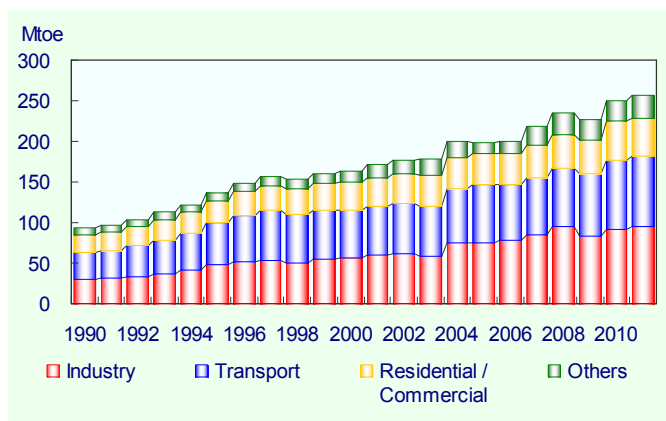
Total Final Energy Consumption by Sector Other East Asia



	Mtoe					
	1990	1995	2000	2005	2010	2011
Industry	36.4	50.5	69.6	63.4	68.0	71.2
Transport	24.4	38.8	44.5	44.2	43.9	43.2
Residential / Commercial	28.7	37.6	44.7	52.3	55.7	52.0
Others	11.4	24.8	33.1	49.4	64.6	65.9
Total	100.9	151.7	191.9	209.4	232.2	232.3

	Share (%)					
	1990	1995	2000	2005	2010	2011
Industry	36.1	33.3	36.3	30.3	29.3	30.6
Transport	24.2	25.6	23.2	21.1	18.9	18.6
Residential / Commercial	28.4	24.8	23.3	25.0	24.0	22.4
Others	11.3	16.3	17.2	23.6	27.8	28.4

Total Final Energy Consumption by Sector Southeast Asia

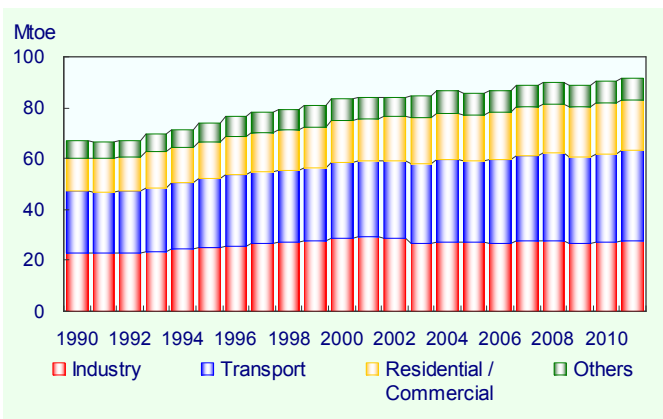


	1990	1995	2000	2005	2010	Mtoe 2011
Industry	29.6	47.8	55.9	75.4	92.4	94.8
Transport	32.9	51.5	58.6	70.8	84.8	86.8
Residential / Commercial	22.3	28.1	35.4	38.1	47.9	47.0
Others	7.7	9.8	12.6	14.7	25.4	28.5
Total	92.5	137.2	162.6	199.1	250.6	257.1

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	32.0	34.9	34.4	37.9	36.9	36.9
Transport	35.5	37.5	36.0	35.6	33.8	33.8
Residential / Commercial	24.1	20.4	21.8	19.2	19.1	18.3
Others	8.4	7.2	7.8	7.4	10.1	11.1

Final Energy Consumption

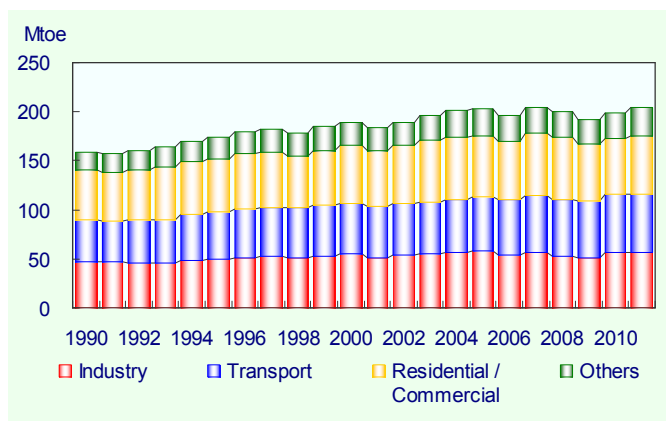
Total Final Energy Consumption by Sector Oceania



	1990	1995	2000	2005	2010	Mtoe 2011
Industry	22.9	25.0	28.5	26.9	27.3	27.9
Transport	24.3	27.0	30.0	32.0	34.4	35.1
Residential / Commercial	13.0	14.6	16.5	18.1	19.9	20.0
Others	6.6	7.5	8.4	8.9	9.0	8.5
Total	66.8	74.2	83.4	85.9	90.7	91.6

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	34.3	33.8	34.2	31.3	30.1	30.5
Transport	36.4	36.4	36.0	37.3	38.0	38.3
Residential / Commercial	19.5	19.7	19.8	21.1	22.0	21.9
Others	9.9	10.1	10.0	10.3	9.9	9.3

Total Final Energy Consumption by Sector Canada

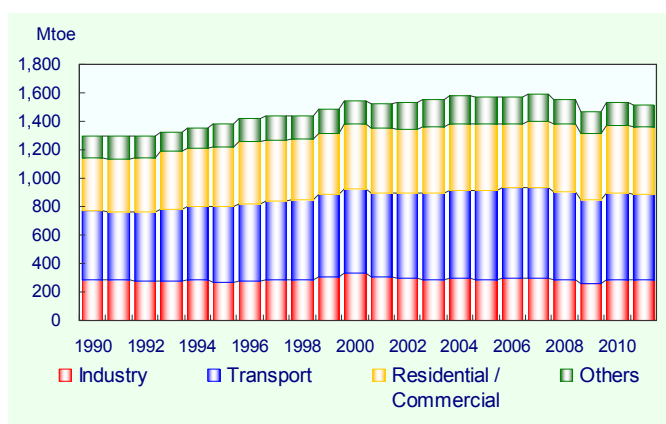


	1990	1995	2000	2005	2010	Mtoe 2011
Industry	47.3	50.1	54.7	57.5	56.6	56.8
Transport	43.1	47.8	52.2	55.8	59.5	59.7
Residential / Commercial	50.4	53.8	58.3	62.3	56.0	59.3
Others	18.0	21.7	23.9	27.1	27.4	28.8
Total	158.8	173.4	189.2	202.7	199.4	204.6

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	29.8	28.9	28.9	28.4	28.4	27.7
Transport	27.2	27.5	27.6	27.5	29.8	29.2
Residential / Commercial	31.8	31.0	30.8	30.7	28.1	29.0
Others	11.3	12.5	12.7	13.4	13.7	14.1

Final Energy Consumption

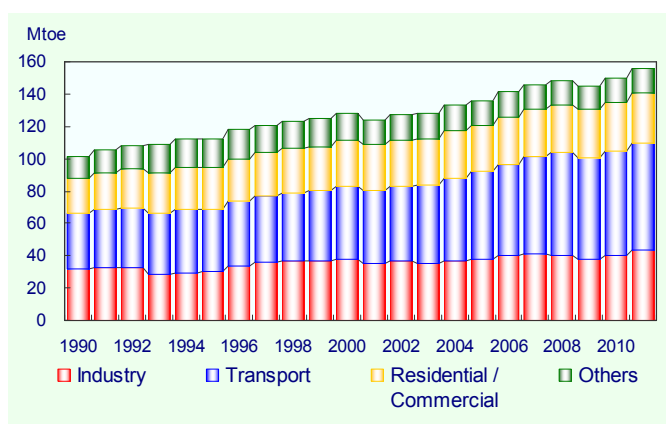
Total Final Energy Consumption by Sector United States of America



	Mtoe					
	1990	1995	2000	2005	2010	2011
Industry	281.8	270.0	329.5	282.4	283.8	284.0
Transport	487.6	529.3	590.4	628.3	611.1	605.3
Residential / Commercial	369.2	421.0	457.1	472.1	474.4	469.0
Others	153.1	156.4	168.6	189.6	161.7	158.3
Total	1,291.6	1,376.8	1,545.6	1,572.4	1,531.0	1,516.6

	Share (%)					
	1990	1995	2000	2005	2010	2011
Industry	21.8	19.6	21.3	18.0	18.5	18.7
Transport	37.7	38.4	38.2	40.0	39.9	39.9
Residential / Commercial	28.6	30.6	29.6	30.0	31.0	30.9
Others	11.9	11.4	10.9	12.1	10.6	10.4

Total Final Energy Consumption by Sector Latin America

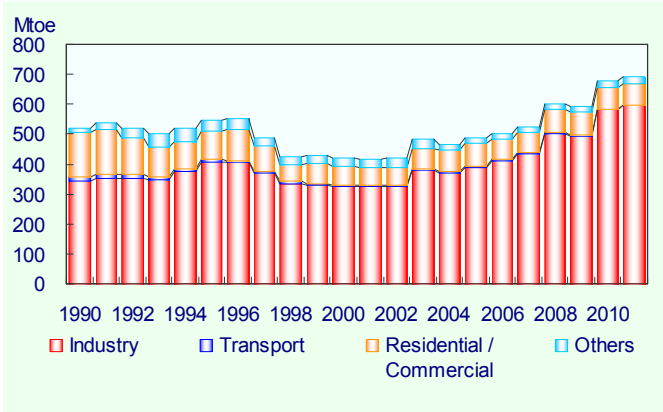


	1990	1995	2000	2005	2010	Mtoe 2011
Industry	31.9	30.4	37.9	37.7	39.9	43.2
Transport	34.1	38.1	45.2	54.1	65.0	66.6
Residential / Commercial	22.1	26.2	28.6	28.6	30.3	31.3
Others	13.5	17.6	16.2	15.7	14.6	14.9
Total	101.6	112.3	127.9	136.0	149.9	156.0

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	31.4	27.1	29.6	27.7	26.6	27.7
Transport	33.5	33.9	35.4	39.8	43.4	42.7
Residential / Commercial	21.7	23.3	22.3	21.0	20.2	20.1
Others	13.3	15.7	12.7	11.5	9.8	9.6

Final Energy Consumption

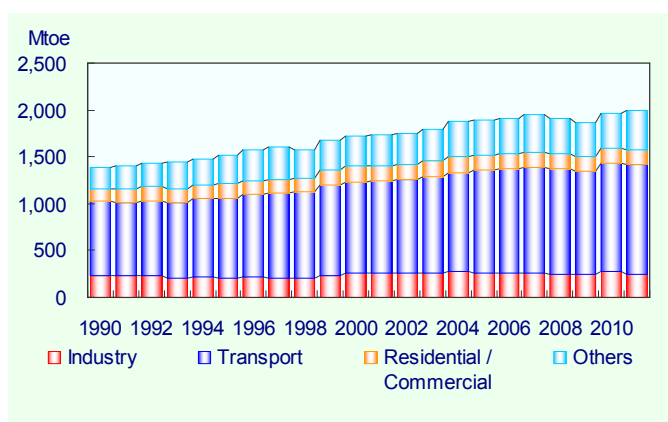
Coal++ Demand by Sector APEC 20



	1990	1995	2000	2005	2010	Mtoe 2011
Industry	344.7	406.5	326.2	388.8	580.8	595.1
Transport	11.2	7.1	5.6	5.7	3.5	3.4
Residential / Commercial	148.5	96.4	60.0	76.8	71.2	71.6
Others	13.5	39.0	28.5	16.4	20.9	21.7
Total	517.8	549.1	420.2	487.7	676.4	691.8

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	66.6	74.0	77.6	79.7	85.9	86.0
Transport	2.2	1.3	1.3	1.2	0.5	0.5
Residential / Commercial	28.7	17.6	14.3	15.7	10.5	10.3
Others	2.6	7.1	6.8	3.4	3.1	3.1

Oil Demand by Sector APEC 20

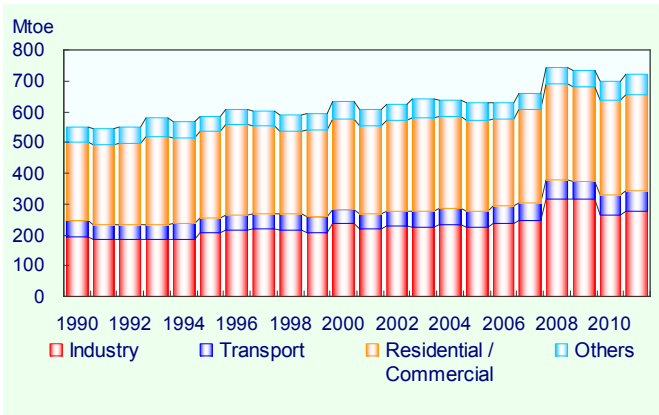


	Mtoe					
	1990	1995	2000	2005	2010	2011
Industry	237.4	202.9	254.3	264.2	273.2	246.6
Transport	784.8	858.0	979.1	1,091.3	1,157.1	1,166.7
Residential / Commercial	134.8	146.9	163.2	165.8	155.6	158.7
Others	228.7	308.7	317.6	374.6	380.7	415.2
Total	1,385.7	1,516.6	1,714.3	1,895.9	1,966.6	1,987.2

	Share (%)					
	1990	1995	2000	2005	2010	2011
Industry	17.1	13.4	14.8	13.9	13.9	12.4
Transport	56.6	56.6	57.1	57.6	58.8	58.7
Residential / Commercial	9.7	9.7	9.5	8.7	7.9	8.0
Others	16.5	20.4	18.5	19.8	19.4	20.9

Final Energy Consumption

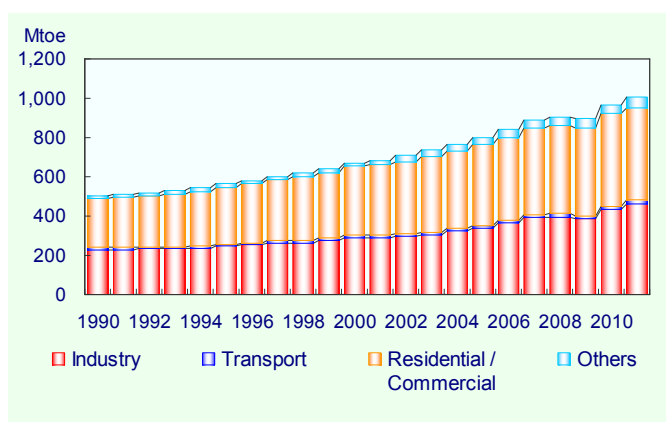
Gas++ Demand by Sector APEC 20



	1990	1995	2000	2005	2010	Mtoe 2011
Industry	194.0	205.5	235.5	222.0	263.7	276.2
Transport	52.5	51.1	47.3	54.0	64.4	66.5
Residential / Commercial	256.7	278.0	292.6	293.7	309.5	312.5
Others	47.8	50.6	58.0	57.1	62.5	65.5
Total	551.0	585.3	633.5	626.8	700.1	720.7

	1990	1995	2000	2005	2010	Share (%) 2011
Industry	35.2	35.1	37.2	35.4	37.7	38.3
Transport	9.5	8.7	7.5	8.6	9.2	9.2
Residential / Commercial	46.6	47.5	46.2	46.9	44.2	43.4
Others	8.7	8.6	9.2	9.1	8.9	9.1

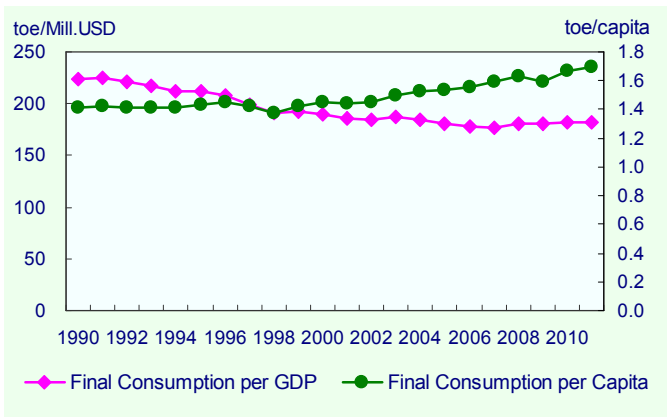
Electricity Demand by Sector APEC 20



	Mtoe					
	1990	1995	2000	2005	2010	2011
Industry	229.5	245.6	292.5	339.6	433.0	462.8
Transport	12.6	10.1	10.9	14.6	17.3	18.9
Residential / Commercial	246.5	291.1	351.5	410.1	470.7	471.2
Others	13.1	15.9	17.5	38.2	47.7	54.0
Total	501.7	562.8	672.4	802.5	968.7	1,006.8

	Share (%)					
	1990	1995	2000	2005	2010	2011
Industry	45.7	43.6	43.5	42.3	44.7	46.0
Transport	2.5	1.8	1.6	1.8	1.8	1.9
Residential / Commercial	49.1	51.7	52.3	51.1	48.6	46.8
Others	2.6	2.8	2.6	4.8	4.9	5.4

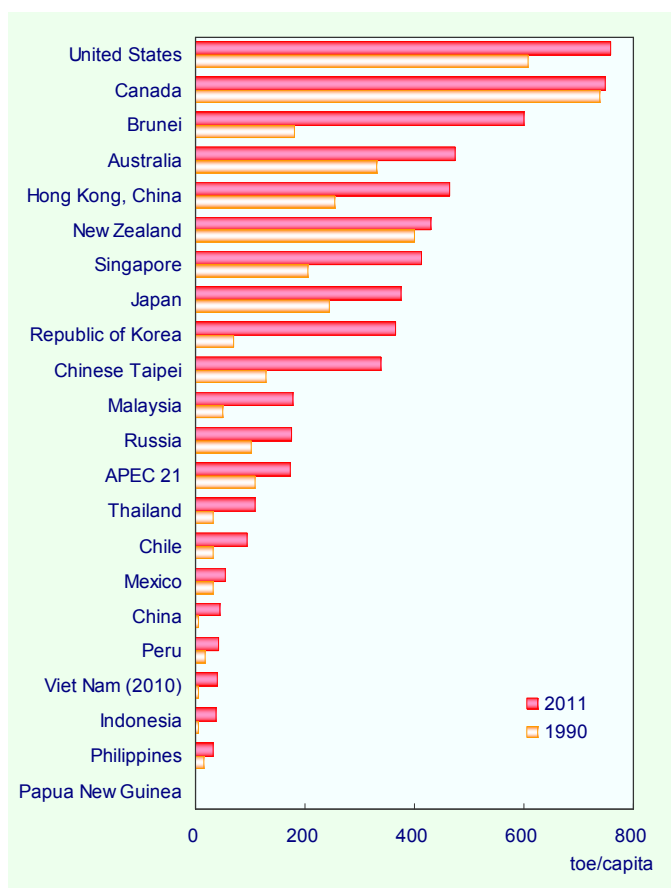
Final Consumption per Capita and GDP APEC 20



	1990	1995	2000	2005	2010	2011
Population (mill.)	2,284	2,426	2,553	2,654	2,749	2,769
Final Consumption per Capita	1.42	1.44	1.45	1.54	1.67	1.69

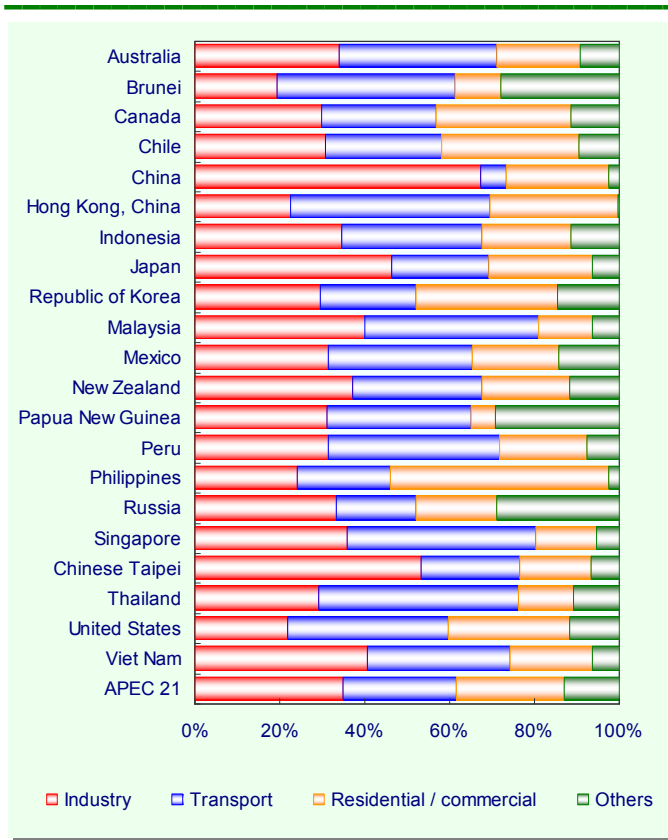
	1990	1995	2000	2005	2010	2011
GDP (bill. US\$)	14,423	16,425	19,576	22,566	25,138	25,815
Final Consumption per GDP	224.09	212.23	189.73	180.68	182.34	181.77

Electricity Consumption in Residential/Commercial: APEC 21

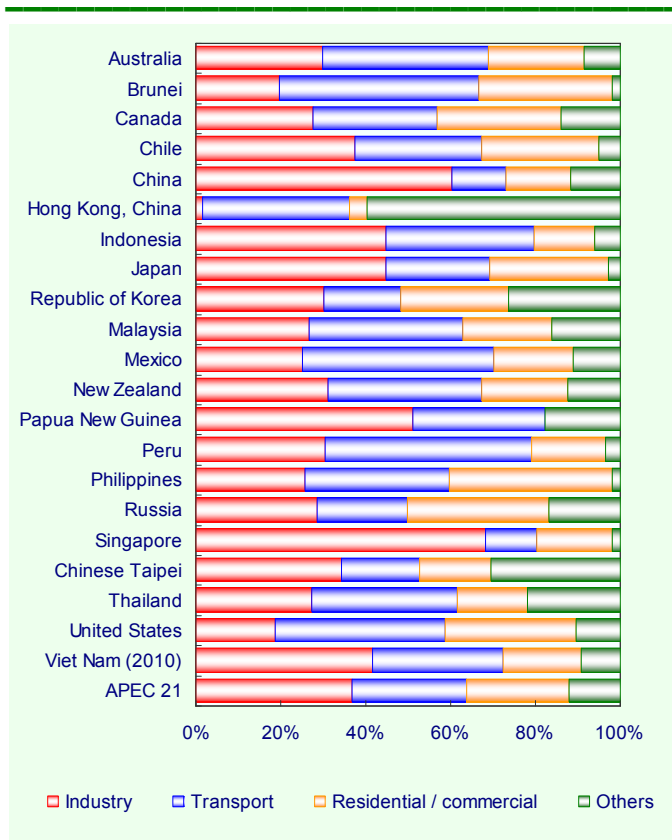


Final Energy Consumption

Final Energy Consumption by Sector 1990

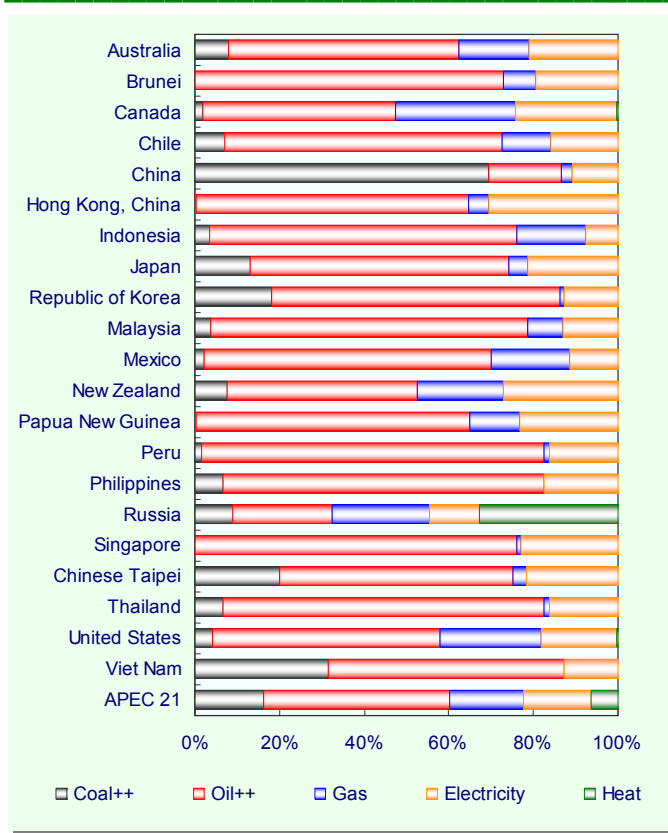


Final Energy Consumption by Sector 2011

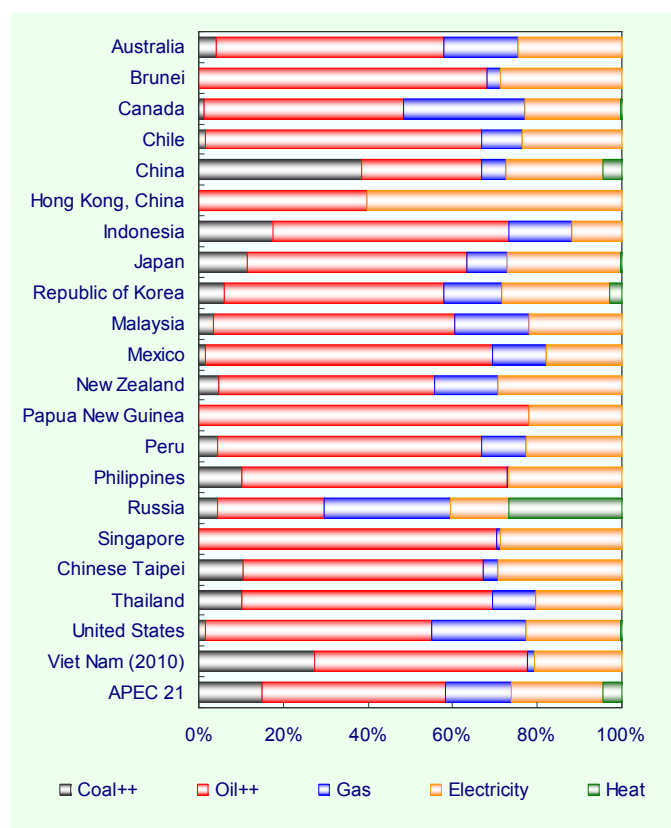


Final Energy Consumption

Final Energy Consumption by Energy 1990



Final Energy Consumption by Energy 2011



Final Energy Consumption

APEC 20, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	3,031,233	-	1,554,907	6,374
2 Import	371,423	9,906	1,330,678	472,787
3 Export	-516,821	-5,384	-525,525	-484,916
4 International Marine Bunkers	-1	-	-	-100,638
5 International Aviation Bunkers	-	-	-	-66,497
6 Stock Change	-33,057	-15,120	10,727	6,616
7 Total Primary Energy Supply	2,852,778	-10,598	2,370,787	-166,275
8 Transfers	-	-	-68,501	78,030
9 Main Activity Peoducer	-1,544,963	-6,835	-7,667	-62,482
10 Autoproducers	-169,738	-34,075	-838	-28,040
11 Gas Processing	-6,756	-741	-	-3,176
12 Petroleum Refineries	-	-	-2,297,439	2,342,617
13 Coal Transformation	-435,391	214,491	-	-898
14 Other Transformation	-	-	37,563	-65,284
15 Loss & Own Use	-57,248	-17,794	-9,662	-107,594
16 Discrepancy	-83,667	-7,618	-14,658	-9,310
17 Total Final Energy Consumption	555,014	136,830	9,585	1,977,588
18 Industry Sector	484,754	130,338	975	245,634
19 Transport Sector	3,444	1	14	1,166,639
20 Other Sector	86,815	6,492	368	247,957
20.1 Residential & Commercial	65,631	5,937	298	158,418
20.2 Agriculture	9,790	368	51	51,034
20.3 Other	11,395	187	18	38,505
21 Non-energy	-	-	8,228	317,358

Australia, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	222,087	-	23,092	9
2 Import	-	-	25,955	14,821
3 Export	-183,584	-	-16,469	-2,198
4 International Marine Bunkers	-	-	-	-624
5 International Aviation Bunkers	-	-	-	-3,431
6 Stock Change	9,689	-46	576	-351
7 Total Primary Energy Supply	48,193	-46	33,154	8,227
8 Transfers	-	-	33	4,305
9 Main Activity Peoducer	-41,739	-28	-	-86
10 Autoproducers	-	-73	-	-701
11 Gas Processing	-	-	-	-7
12 Petroleum Refineries	-	-	-33,983	33,447
13 Coal Transformation	-3,601	1,827	-	-
14 Other Transformation	-	-	295	-2,790
15 Loss & Own Use	-	-738	-56	-3,470
16 Discrepancy	-806	-4	572	1,108
17 Total Final Energy Consumption	2,047	938	14	40,033
18 Industry Sector	1,916	920	14	4,063
19 Transport Sector	121	-	-	29,197
20 Other Sector	10	19	-	2,978
20.1 Residential & Commercial	10	19	-	919
20.2 Agriculture	-	-	-	2,060
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	3,795

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
1,586,224	159,109	402,428	68,350	161,339	-	-	6,969,964
339,210	-	-	-	1,494	8,232	-	2,533,728
-378,946	-	-	-	-3,051	-9,952	-	-1,924,594
-	-	-	-	-	-	-	-100,639
-	-	-	-	-	-	-	-66,497
-9,532	-	-	-	-279	-	-	-40,645
1,536,955	159,109	402,428	68,350	159,503	-1,720	-	7,371,317
-	-	-	-	-	-	-	9,529
-539,826	-155,459	-402,428	-64,105	-23,881	1,104,165	113,334	-1,590,147
-124,131	-3,650	-	-1,245	-28,654	97,760	133,357	-159,255
-9,912	-	-	-	-	-	-	-20,585
-	-	-	-	-	-	-	45,178
-68	-	-	-	-	-	-	-221,866
-6,487	-	-	-0	-29,269	-	-	-63,477
-142,230	-	-	-0	-147	-190,790	-45,180	-570,646
6,423	-0	-	-135	4,281	-2,575	-368	-107,626
720,726	-	-	2,864	81,832	1,006,839	201,143	4,692,421
276,189	-	-	262	48,458	462,778	99,592	1,728,980
66,533	-	-	-	-	18,898	-	1,255,529
316,429	-	-	2,602	33,374	525,163	101,551	1,320,750
312,540	-	-	2,580	32,832	471,174	93,936	1,143,346
1,344	-	-	22	526	13,499	5,187	81,820
2,545	-	-	-	15	40,490	2,428	95,584
61,576	-	-	-	-	-	-	387,162

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
44,754	1,445	-	837	4,021	-	-	296,246
5,611	-	-	-	-	-	-	46,387
-23,338	-	-	-	-	-	-	-225,589
-	-	-	-	-	-	-	-624
-	-	-	-	-	-	-	-3,431
-	-	-	-	-	-	-	9,869
27,028	1,445	-	837	4,021	-	-	122,858
-	-	-	-	-	-	-	4,338
-8,323	-1,445	-	-501	-302	20,403	-	-32,021
-2,474	-	-	-73	-298	1,496	-	-2,124
-260	-	-	-	-	-	-	-267
-	-	-	-	-	-	-	-536
-68	-	-	-	-	-	-	-1,842
-	-	-	-	-313	-	-	-2,809
-12,100	-	-	-	-	-3,758	-	-20,121
9,204	-	-	0	0	-	-	10,074
13,007	-	-	262	3,108	18,140	-	77,551
7,597	-	-	-	1,722	7,031	-	23,263
462	-	-	-	-	338	-	30,119
4,246	-	-	262	1,386	10,771	-	19,673
4,244	-	-	262	1,386	10,583	-	17,422
3	-	-	-	-	189	-	2,251
-	-	-	-	-	-	-	-
702	-	-	-	-	-	-	4,497

Brunei Darussalam, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	8,859	17
2 Import	-	-	11	265
3 Export	-	-	-8,078	-121
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-114
6 Stock Change	-	-	-68	3
7 Total Primary Energy Supply	-	-	723	50
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-	-	-	-10
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-708	599
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-16
16 Discrepancy	-	-	-15	2
17 Total Final Energy Consumption	-	-	-	624
18 Industry Sector	-	-	-	160
19 Transport Sector	-	-	-	431
20 Other Sector	-	-	-	17
20.1 Residential & Commercial	-	-	-	17
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	17

Canada, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	33,658	-	174,119	-
2 Import	5,690	264	34,510	12,790
3 Export	-19,844	-231	-118,761	-19,054
4 International Marine Bunkers	-	-	-	-524
5 International Aviation Bunkers	-	-	-	-1,214
6 Stock Change	97	-30	1,064	-206
7 Total Primary Energy Supply	19,600	3	90,932	-8,208
8 Transfers	-	-	-3,717	7,904
9 Main Activity Peoducer	-17,628	-	-	-1,362
10 Autoproducers	-1	-	-	-498
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-94,159	98,033
13 Coal Transformation	-2,843	1,301	-	-
14 Other Transformation	-	-	2,422	-
15 Loss & Own Use	-4	-	-	-7,955
16 Discrepancy	2,572	-243	4,522	4,668
17 Total Final Energy Consumption	1,697	1,061	-	92,581
18 Industry Sector	1,663	1,061	-	6,067
19 Transport Sector	-	-	-	56,976
20 Other Sector	33	-	-	8,935
20.1 Residential & Commercial	33	-	-	5,656
20.2 Agriculture	-	-	-	3,280
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	20,603

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
11,890	-	-	0	-	-	-	20,766
-	-	-	-	-	-	-	276
-9,291	-	-	-	-	-	-	-17,491
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-114
22	-	-	-	-	-	-	-43
2,621	-	-	0	-	-	-	3,394
-	-	-	-	-	-	-	-
-1,101	-	-	-0	-	292	-	-819
-154	-	-	-	-	28	-	-126
13	-	-	-	-	-	-	13
-	-	-	-	-	-	-	-108
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-1,328	-	-	-	-	-57	-	-1,401
-25	-	-	-	-	0	-	-38
27	-	-	-	-	264	-	915
-	-	-	-	-	19	-	179
-	-	-	-	-	-	-	431
27	-	-	-	-	244	-	288
27	-	-	-	-	244	-	288
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	17

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
132,386	32,319	24,389	898	12,071	-	-	409,840
25,968	-	-	-	704	1,287	-	81,213
-76,853	-	-	-	-570	-4,430	-	-239,744
-	-	-	-	-	-	-	-524
-	-	-	-	-	-	-	-1,214
2,092	-	-	-	-	-	-	3,017
83,593	32,319	24,389	898	12,205	-3,144	-	252,587
-	-	-	-	-	-	-	4,187
-9,975	-29,694	-24,389	-898	-8	50,061	527	-33,366
-3,321	-2,624	-	-0	-2,519	4,893	50	-4,020
-1,940	-	-	-	-	-	-	-1,940
-	-	-	-	-	-	-	3,874
-	-	-	-	-	-	-	-1,542
-849	-	-	-	-1,547	-	-	26
-13,990	-	-	-	-1	-7,185	-	-29,136
2,410	-	-	-	-	-0	-32	13,897
55,928	-	-	-	8,130	44,625	546	204,567
23,883	-	-	-	5,840	17,698	545	56,757
2,437	-	-	-	-	331	-	59,745
26,215	-	-	-	2,289	26,596	0	64,069
25,491	-	-	-	2,289	25,784	0	59,253
724	-	-	-	0	812	-	4,816
-	-	-	-	-	-	-	-
3,393	-	-	-	-	-	-	23,996

Chile, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	245	-	641	-
2 Import	5,432	23	9,269	7,315
3 Export	-	-	-	-481
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-442
6 Stock Change	-354	-	64	-546
7 Total Primary Energy Supply	5,323	23	9,973	5,846
8 Transfers	-	-	901	-866
9 Main Activity Peoducer	-4,786	-	-	-1,304
10 Autoproducers	-	-	-	-135
11 Gas Processing	-	-	-	-89
12 Petroleum Refineries	-	-	-10,951	9,980
13 Coal Transformation	-464	248	-	-
14 Other Transformation	-	-	-	-280
15 Loss & Own Use	-	-150	-	-194
16 Discrepancy	139	-9	77	775
17 Total Final Energy Consumption	212	111	-	13,734
18 Industry Sector	210	111	-	3,440
19 Transport Sector	-	-	-	7,726
20 Other Sector	3	-	-	2,026
20.1 Residential & Commercial	-	-	-	1,664
20.2 Agriculture	-	-	-	-
20.3 Other	3	-	-	362
21 Non Energy	-	-	-	542

China, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,828,168	-	202,876	-
2 Import	92,919	79	253,779	52,117
3 Export	-8,238	-2,242	-2,514	-29,814
4 International Marine Bunkers	-	-	-	-1,181
5 International Aviation Bunkers	-	-	-	-2,645
6 Stock Change	-36,928	-7,026	-14,530	-6,101
7 Total Primary Energy Supply	1,875,921	-9,190	439,610	12,376
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-828,347	-1,265	-113	-4,001
10 Autoproducers	-131,640	-21,794	-46	-3,783
11 Gas Processing	-4,824	-741	-	-
12 Petroleum Refineries	-	-	-432,502	464,742
13 Coal Transformation	-306,704	133,372	-	-
14 Other Transformation	-	-	-	-48,457
15 Loss & Own Use	-55,871	-6,886	-4,730	-6,742
16 Discrepancy	-74,755	-8,272	-668	-1,785
17 Total Final Energy Consumption	473,780	85,222	1,552	412,350
18 Industry Sector	389,131	80,154	864	96,703
19 Transport Sector	3,322	1	-	159,989
20 Other Sector	81,327	5,068	-	93,519
20.1 Residential & Commercial	60,277	4,513	-	48,920
20.2 Agriculture	9,664	368	-	14,984
20.3 Other	11,386	187	-	29,614
21 Non Energy	-	-	688	62,139

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
1,244	1,807	-	29	5,915	-	-	9,881
3,327	-	-	-	-	63	-	25,428
-	-	-	-	-	-	-	-481
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-442
-5	-	-	-	-	-	-	-842
4,566	1,807	-	29	5,915	63	-	33,545
-	-	-	-	-	-	-	35
-2,353	-1,747	-	-29	-24	5,303	-	-4,939
-55	-59	-	-1	-596	521	-	-324
77	-	-	-	-	-	-	-13
-	-	-	-	-	-	-	-971
-	-	-	-	-	-	-	-216
-	-	-	-	-313	-	-	-594
-460	-	-	-	-	-841	-	-1,645
195	-	-	-	17	-64	-	1,131
1,970	-	-	-	4,999	4,982	-	26,009
993	-	-	-	1,668	3,305	-	9,728
17	-	-	-	-	41	-	7,784
523	-	-	-	3,331	1,636	-	7,519
523	-	-	-	3,331	1,626	-	7,144
-	-	-	-	-	-	-	-
-	-	-	-	-	10	-	375
437	-	-	-	-	-	-	979

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
95,603	60,109	22,503	6,048	8,058	-	-	2,223,366
29,230	-	-	-	-	564	-	428,688
-2,968	-	-	-	-	-1,660	-	-47,437
-	-	-	-	-	-	-	-1,181
-	-	-	-	-	-	-	-2,645
-	-	-	-	-	-	-	-64,586
121,866	60,109	22,503	6,048	8,058	-1,096	-	2,536,205
-	-	-	-	-	-	-	-
-19,459	-60,109	-22,503	-6,048	-8,019	365,643	41,727	-542,496
-4,212	-	-	-	-	39,677	34,140	-87,657
1,009	-	-	-	-	-	-	-4,557
-	-	-	-	-	-	-	32,240
-	-	-	-	-	-	-	-173,332
-	-	-	-	-10	-	-	-48,467
-16,737	-	-	-	-	-72,264	-10,687	-173,916
-73	-	-	-	-29	-16	-1	-85,599
82,394	-	-	-	-	331,944	65,179	1,452,421
33,193	-	-	-	-	231,001	44,970	876,017
11,908	-	-	-	-	7,296	-	182,516
31,695	-	-	-	-	93,646	20,210	325,464
29,116	-	-	-	-	61,259	17,769	221,854
52	-	-	-	-	8,711	22	33,800
2,527	-	-	-	-	23,676	2,419	69,810
5,597	-	-	-	-	-	-	68,425

Hong Kong, China, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	-	-
2 Import	7,891	-	-	21,525
3 Export	-0	-	-	-497
4 International Marine Bunkers	-	-	-	-9,428
5 International Aviation Bunkers	-	-	-	-5,271
6 Stock Change	-488	-	-	-3,130
7 Total Primary Energy Supply	7,403	-	-	3,199
8 Transfers	-	-	-	4
9 Main Activity Producer	-7,403	-	-	-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	-	-	2,395
18 Industry Sector	0	-	-	97
19 Transport Sector	-	-	-	2,084
20 Other Sector	-	-	-	214
20.1 Residential & Commercial	-	-	-	214
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	-

Indonesia, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	207,723	-	51,322	-
2 Import	25	-	14,808	26,315
3 Export	-160,331	-	-20,726	-606
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-637	-	5,636	4,984
7 Total Primary Energy Supply	46,780	-	51,040	30,693
8 Transfers	-	-	-	-
9 Main Activity Producer	-26,530	-	-	-10,003
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-50,058	48,155
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-4,228
15 Loss & Own Use	-	-	-	-97
16 Discrepancy	-11	-	-981	-0
17 Total Final Energy Consumption	20,239	-	-	64,519
18 Industry Sector	20,239	-	-	9,971
19 Transport Sector	-	-	-	40,134
20 Other Sector	-	-	-	10,633
20.1 Residential & Commercial	-	-	-	7,296
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	3,337
21 Non Energy	-	-	-	3,781

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
-	-	-	0	53	-	-	54
2,270	-	-	-	13	975	-	32,674
-	-	-	-	-4	-254	-	-755
-	-	-	-	-	-	-	-9,428
-	-	-	-	-	-	-	-5,271
289	-	-	-	-	-	-	-3,329
2,559	-	-	0	62	721	-	13,944
-	-	-	-	-	-	-	4
-2,559	-	-	-0	-3	3,356	-	-6,643
-	-	-	-0	-3	4	-	0
-	-	-	-	-	-	-	-317
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-24	-	-	-24
-	-	-	-	-	-460	-	-460
-0	-	-	-0	1	0	-	-453
-	-	-	0	36	3,621	-	6,052
-	-	-	0	-	-	-	97
-	-	-	-	-	-	-	2,084
-	-	-	0	36	3,621	-	3,872
-	-	-	0	36	-	-	250
-	-	-	-	-	-	-	-
-	-	-	-	-	3,621	-	3,621
-	-	-	-	-	-	-	-

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
72,796	1,068	-	8,124	-	-	-	341,034
-	-	-	-	-	-	-	41,148
-35,778	-	-	-	-	-	-	-217,441
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	9,983
37,018	1,068	-	8,124	-	-	-	174,724
-	-	-	-	-	-	-	-
-8,414	-1,068	-	-8,124	-	15,774	-	-38,364
-	-	-	-	-	-	-	-
-5,589	-	-	-	-	-	-	-5,589
-	-	-	-	-	-	-	-1,904
-	-	-	-	-	-	-	-
-413	-	-	-0	-	-	-	-4,642
-5,410	-	-	-	-	-2,015	-	-7,522
-195	-	-	-0	-	-11	-	-1,198
16,996	-	-	-	-	13,749	-	115,504
16,774	-	-	-	-	4,706	-	51,691
25	-	-	-	-	8	-	40,167
197	-	-	-	-	9,035	-	19,865
197	-	-	-	-	9,035	-	16,527
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	3,337
-	-	-	-	-	-	-	3,761

Japan, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	650	-	722	-
2 Import	106,262	504	178,607	48,198
3 Export	-	-483	-	-16,014
4 International Marine Bunkers	-	-	-	-4,309
5 International Aviation Bunkers	-	-	-	-5,726
6 Stock Change	140	-	13,985	12,091
7 Total Primary Energy Supply	107,052	22	193,314	34,241
8 Transfers	-	-	-463	396
9 Main Activity Producer	-44,326	-4,003	-7,554	-11,614
10 Autoproducers	-8,685	-2,008	-	-8,972
11 Gas Processing	-	-	-	-1,224
12 Petroleum Refineries	-	-	-171,020	172,092
13 Coal Transformation	-36,692	33,986	-	-898
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-502	-3,014	-	-11,201
16 Discrepancy	-666	-5,104	-14,276	-8,784
17 Total Final Energy Consumption	16,181	19,879	-	164,036
18 Industry Sector	16,181	19,315	-	53,639
19 Transport Sector	-	-	-	76,114
20 Other Sector	-	564	-	30,296
20.1 Residential & Commercial	-	564	-	25,484
20.2 Agriculture	-	-	-	3,286
20.3 Other	-	-	-	1,527
21 Non Energy	-	-	-	3,987

Republic of Korea, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	959	-	707	3,228
2 Import	79,200	284	127,915	32,960
3 Export	-	-	-584	-54,304
4 International Marine Bunkers	-	-	-	-8,757
5 International Aviation Bunkers	-	-	-	-4,048
6 Stock Change	-164	-8,042	-13	-169
7 Total Primary Energy Supply	79,995	-7,758	128,025	-31,089
8 Transfers	-	-	87	-92
9 Main Activity Producer	-48,087	-1,327	-	-2,445
10 Autoproducers	-3,129	-3,038	-	-1,763
11 Gas Processing	-	-	-	-640
12 Petroleum Refineries	-	-	-134,662	131,811
13 Coal Transformation	-22,965	11,402	-	-
14 Other Transformation	-	-	8,505	-7,936
15 Loss & Own Use	-	-2,764	-19	-5,914
16 Discrepancy	-755	7,861	-1,936	41
17 Total Final Energy Consumption	5,059	4,377	-	81,972
18 Industry Sector	5,059	3,538	-	6,385
19 Transport Sector	-	-	-	27,864
20 Other Sector	-	838	-	9,602
20.1 Residential & Commercial	-	838	-	6,354
20.2 Agriculture	-	-	-	1,229
20.3 Other	-	-	-	2,020
21 Non Energy	-	-	-	38,121

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,100	7,666	42,459	2,920	8,447	-	-	65,963
92,188	-	-	-	-	-	-	425,760
-	-	-	-	-	-	-	-16,496
-	-	-	-	-	-	-	-4,309
-	-	-	-	-	-	-	-5,726
13	-	-	-	-	-	-	26,230
95,301	7,666	42,459	2,920	8,447	-	-	491,421
-	-	-	-	-	-	-	-67
-60,966	-7,072	-42,459	-2,216	-1,288	74,319	784	-106,394
-2,914	-594	-	-319	-7,757	20,806	-	-10,442
1,155	-	-	-	-	-	-	-70
-	-	-	-	-	-	-	1,072
-	-	-	-	-	-	-	-3,605
-	-	-	-	-	-	-	-
-4,058	-	-	-	-	-11,130	-	-29,905
2,315	-0	-	0	2,935	620	-74	-23,035
30,833	-	-	385	2,337	84,615	710	318,976
16,342	-	-	-	2,313	34,728	-	142,518
-	-	-	-	-	1,727	-	77,841
14,491	-	-	385	24	48,160	710	94,630
14,491	-	-	385	24	47,854	638	89,440
-	-	-	-	-	306	72	3,663
-	-	-	-	-	-	-	1,527
-	-	-	-	-	-	-	3,987

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
406	673	40,321	228	3,771	-	-	50,293
41,911	-	-	-	-	-	-	262,271
-	-	-	-	-	-	-	-54,889
-	-	-	-	-	-	-	-8,757
-	-	-	-	-	-	-	-4,048
-724	-	-	-	-	-	-	-9,111
41,594	673	40,321	228	3,771	-	-	255,760
-	-	-	-	-	-	-	-6
-19,456	-673	-40,321	-135	-137	42,622	1,707	-68,252
-579	-	-	-18	-985	2,553	3,153	-3,805
506	-	-	-	-	-	-	-135
-	-	-	-	-	-	-	-2,851
-	-	-	-	-	-	-	-11,562
-	-	-	-	-198	-	-	372
-505	-	-	-	-	-4,659	-138	-14,000
18	-	-	-0	-24	-43	-225	4,936
21,577	-	-	75	2,428	40,473	4,497	160,457
8,277	-	-	2	1,673	21,160	2,432	48,525
1,074	-	-	-	-	193	-	29,131
12,226	-	-	74	755	19,120	2,065	44,680
12,222	-	-	68	732	18,210	2,065	40,490
4	-	-	5	23	723	-	1,964
-	-	-	-	-	186	-	2,206
-	-	-	-	-	-	-	38,121

Malaysia, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	1,570	-	28,306	3,005
2 Import	11,786	-	9,314	11,568
3 Export	-120	-	-11,912	-9,403
4 International Marine Bunkers	-	-	-	-202
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	78	-	-1,687	136
7 Total Primary Energy Supply	13,314	-	24,022	5,105
8 Transfers	-	-	-	-
9 Main Activity Producer	-11,119	-	-	-2,079
10 Autoproducers	-	-	-	-125
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-24,688	23,842
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-3,384
16 Discrepancy	-692	-	666	544
17 Total Final Energy Consumption	1,503	-	-	23,903
18 Industry Sector	1,503	-	-	1,937
19 Transport Sector	-	-	-	15,002
20 Other Sector	-	-	-	4,494
20.1 Residential & Commercial	-	-	-	3,551
20.2 Agriculture	-	-	-	943
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	2,470

Mexico, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	7,789	-	159,058	-
2 Import	4,352	213	367	31,924
3 Export	-6	-	-78,607	-9,013
4 International Marine Bunkers	-	-	-	-925
5 International Aviation Bunkers	-	-	-	-2,741
6 Stock Change	-2,364	31	-517	366
7 Total Primary Energy Supply	9,771	244	80,300	19,611
8 Transfers	-	-	-7,290	8,358
9 Main Activity Producer	-8,106	-	-	-9,926
10 Autoproducers	-38	-126	-	-1,263
11 Gas Processing	-	-	-	-770
12 Petroleum Refineries	-	-	-73,744	66,839
13 Coal Transformation	-2,014	1,360	-	-
14 Other Transformation	-	-	1,796	-1,593
15 Loss & Own Use	-	-80	-	-6,725
16 Discrepancy	467	245	-1,062	-587
17 Total Final Energy Consumption	79	1,643	-	73,944
18 Industry Sector	79	1,643	-	5,913
19 Transport Sector	-	-	-	51,945
20 Other Sector	-	-	-	10,893
20.1 Residential & Commercial	-	-	-	8,017
20.2 Agriculture	-	-	-	2,876
20.3 Other	-	-	-	-
21 Non Energy	-	-	-	5,192

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
48,075	656	-	-	111	-	-	81,723
5,977	-	-	-	-	32	-	38,677
25,233	-	-	-	-32	-1	-	-46,701
-	-	-	-	-	-	-	-202
-	-	-	-	-63	-	-	-1,536
28,819	656	-	-	15	31	-	71,962
-	-	-	-	-	-	-	-
-9,383	-656	-	-	-	10,630	-	-12,606
-1,453	-	-	-	-	442	-	-1,136
-6,184	-	-	-	-	-	-	-6,184
-	-	-	-	-	-	-	-846
-	-	-	-	-	-	-	-
-3,496	-	-	-	-	-	-	-3,496
-957	-	-	-	-	-1,211	-	-5,552
-0	-	-	-	-	-656	-	-138
7,347	-	-	-	15	9,235	-	42,003
3,683	-	-	-	-	4,058	-	11,181
233	-	-	-	-	18	-	15,253
34	-	-	-	15	5,159	-	9,703
34	-	-	-	-	5,134	-	8,718
-	-	-	-	-	26	-	969
-	-	-	-	15	-	-	15
3,398	-	-	-	-	-	-	5,867

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
41,800	3,119	2,629	5,880	8,268	-	-	228,543
14,872	-	-	-	-	51	-	51,780
-209	-	-	-	-	-100	-	-87,936
-	-	-	-	-	-	-	-925
-	-	-	-	-	-	-	-2,741
-226	-	-	-	-	-	-	-2,711
56,237	3,119	2,629	5,880	8,268	-49	-	186,010
-	-	-	-	-	-	-	1,068
-23,812	-3,078	-2,629	-5,626	-	23,080	-	-30,099
-3,251	-40	-	-114	-1,079	2,535	-	-3,377
666	-	-	-	-	-	-	-104
-	-	-	-	-	-	-	-6,905
-	-	-	-	-	-	-	-655
-	-	-	-	-	-	-	203
-16,079	-	-	-	-	-6,159	-	-29,044
-110	0	-	-	-	23	-	-1,025
13,651	-	-	140	7,189	19,429	-	116,073
9,896	-	-	6	995	10,671	-	29,203
13	-	-	-	-	96	-	52,055
937	-	-	134	6,193	8,662	-	26,819
937	-	-	134	6,193	6,474	-	21,755
-	-	-	-	-	959	-	3,835
-	-	-	-	-	1,229	-	1,229
2,805	-	-	-	-	-	-	7,997

New Zealand, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	2,894	-	2,386	-
2 Import	91	-	5,401	1,892
3 Export	-1,535	-	-2,371	-296
4 International Marine Bunkers	-1	-	-	-316
5 International Aviation Bunkers	-	-	-	-785
6 Stock Change	-13	-	155	-112
7 Total Primary Energy Supply	1,436	-	5,572	384
8 Transfers	-	-	-162	167
9 Main Activity Peoducer	-375	-	-	-
10 Autoproducers	-7	-157	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-5,573	5,607
13 Coal Transformation	-412	241	-	-
14 Other Transformation	-	-	6	-
15 Loss & Own Use	-5	-49	-	-364
16 Discrepancy	-116	0	158	10
17 Total Final Energy Consumption	521	35	-	5,804
18 Industry Sector	411	35	-	331
19 Transport Sector	1	-	-	4,571
20 Other Sector	108	-	-	625
20.1 Residential & Commercial	46	-	-	213
20.2 Agriculture	62	-	-	319
20.3 Other	-	-	-	93
21 Non Energy	-	-	-	277

Papua New Guinea, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	890	-
2 Import	-	-	982	740
3 Export	-	-	-886	-
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	-	-	-13	1
7 Total Primary Energy Supply	-	-	973	741
8 Transfers	-	-	-	-4
9 Main Activity Peoducer	-	-	-	-104
10 Autoproducers	-	-	-	-495
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-966	956
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-	-	-2	1
17 Total Final Energy Consumption	-	-	4	1,095
18 Industry Sector	-	-	4	484
19 Transport Sector	-	-	-	438
20 Other Sector	-	-	-	173
20.1 Residential & Commercial	-	-	-	-
20.2 Agriculture	-	-	-	-
20.3 Other	-	-	-	173
21 Non Energy	-	-	-	-

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
3,482	2,157	-	5,611	1,202	-	-	17,732
-	-	-	-	1	-	-	7,385
-	-	-	-	-	-	-	-4,201
-	-	-	-	-	-	-	-316
-	-	-	-	-	-	-	-785
-70	-	-	-	-	-	-	-39
3,411	2,157	-	5,611	1,204	-	-	19,774
-	-	-	-	-	-	-	5
-1,480	-2,156	-	-5,381	-36	3,889	-	-5,539
-29	-1	-	-	-119	111	36	-165
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	34
-	-	-	-	-	-	-	-171
-	-	-	-	-5	-	-	1
-240	-	-	-	-	-600	-	-1,258
42	0	-	0	0	-78	-36	-22
1,704	-	-	231	1,043	3,321	-	12,659
901	-	-	148	899	1,207	-	3,932
1	-	-	-	-	5	-	4,578
278	-	-	82	144	2,109	-	3,348
242	-	-	66	144	1,888	-	2,600
36	-	-	16	-	154	-	587
-	-	-	-	-	68	-	160
525	-	-	-	-	-	-	802

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal. Solar, etc.	Others	Electricity	Heat	Total
128	71	-	344	-	-	-	1,433
-	-	-	-	-	-	-	1,722
-	-	-	-	-	-	-	-886
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-12
128	71	-	344	-	-	-	2,257
-	-	-	-	-	-	-	-4
-	-40	-	-	-	83	-	-61
-123	-32	-	-344	-	255	-	-738
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-11
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-5	-	-	-	-	-26	-	-31
0	-	-	-	-	0	-	-1
-	-	-	-	-	312	-	1,411
-	-	-	-	-	235	-	722
-	-	-	-	-	-	-	438
-	-	-	-	-	77	-	251
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	77	-	251
-	-	-	-	-	-	-	-

Peru, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	114	-	6,678	-
2 Import	434	9	4,970	2,374
3 Export	-122	-	-822	-3,687
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-
6 Stock Change	210	21	-93	-483
7 Total Primary Energy Supply	637	30	10,733	-1,796
8 Transfers	-	-	-3,167	3,388
9 Main Activity Producer	-211	-	-	-503
10 Autoproducers	-	-	-	-346
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-10,404	8,192
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-238
16 Discrepancy	169	-	2,838	-30
17 Total Final Energy Consumption	595	30	-	8,667
18 Industry Sector	595	30	-	1,236
19 Transport Sector	-	-	-	6,034
20 Other Sector	-	-	-	1,137
20.1 Residential & Commercial	-	-	-	981
20.2 Agriculture	-	-	-	36
20.3 Other	-	-	-	120
21 Non Energy	-	-	-	259

Philippines, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	3,632	-	313	-
2 Import	5,786	-	9,124	5,905
3 Export	-1,444	-	-329	-1,091
4 International Marine Bunkers	-	-	-	-212
5 International Aviation Bunkers	-	-	-	-1,071
6 Stock Change	-248	-	-88	202
7 Total Primary Energy Supply	7,726	-	9,019	3,734
8 Transfers	-	-	-	-
9 Main Activity Producer	-5,785	-	-	-796
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-9,277	9,059
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	90	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-103	-	168	-702
17 Total Final Energy Consumption	1,838	-	-	11,296
18 Industry Sector	1,838	-	-	1,318
19 Transport Sector	-	-	-	7,778
20 Other Sector	-	-	-	2,083
20.1 Residential & Commercial	-	-	-	1,897
20.2 Agriculture	-	-	-	23
20.3 Other	-	-	-	163
21 Non Energy	-	-	-	117

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
11,759	1,855	-	6	300	-	-	20,713
-	-	-	-	220	0	-	8,008
-5,306	-	-	-	-	-	-	-9,938
-	-	-	-	-	-	-	-
-	-	-	-	-16	-	-	-360
6,453	1,855	-	6	505	0	-	18,423
-	-	-	-	-	-	-	221
-3,405	-1,810	-	-0	-35	3,120	-	-2,844
-256	-46	-	-	-197	253	-	-592
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-2,212
-	-	-	-	-	-	-	-
-	-	-	-	-272	-	-	-272
-1,368	-	-	-	-	-224	-	-1,830
0	-	-	-0	-0	-1	-	2,977
1,423	-	-	6	-	3,149	-	13,871
834	-	-	-	-	1,553	-	4,249
407	-	-	-	-	294	-	6,735
182	-	-	6	-	1,302	-	2,627
169	-	-	6	-	1,229	-	2,365
-	-	-	0	-	53	-	89
13	-	-	-	-	21	-	153
-	-	-	-	-	-	-	259

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
3,473	812	-	8,558	5,051	-	-	21,838
-	-	-	-	149	-	-	20,964
-	-	-	-	-	-	-	-2,864
-	-	-	-	-	-	-	-212
-	-	-	-	-	-	-	-1,071
-	-	-	-	31	-	-	-102
3,473	812	-	8,558	5,231	-	-	38,553
-	-	-	-	-	-	-	-
-3,296	-812	-	-8,558	-62	5,938	-	-13,371
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-218
-	-	-	-	-	-	-	-
-	-	-	-	-1,551	-	-	-1,461
-94	-	-	-	-	-462	-	-557
0	-	-	-	1,383	-651	-	95
82	-	-	-	5,001	4,824	-	23,042
81	-	-	-	1,030	1,663	-	5,930
1	-	-	-	-	10	-	7,789
-	-	-	-	3,971	3,152	-	9,206
-	-	-	-	3,971	3,037	-	8,905
-	-	-	-	-	101	-	124
-	-	-	-	-	14	-	177
-	-	-	-	-	-	-	117

Russia, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	180,042	-	514,868	-
2 Import	4,162	111	468	4,199
3 Export	-78,818	-1,754	-248,815	-102,730
4 International Marine Bunkers	-	-	-	-2,989
5 International Aviation Bunkers	-	-	-	-6,426
6 Stock Change	131	-	511	-522
7 Total Primary Energy Supply	105,517	-1,643	267,033	-108,468
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-41,646	-	-	-6,992
10 Autoproducers	-17,689	-5,215	-792	-8,832
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-261,286	252,422
13 Coal Transformation	-39,214	22,639	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-722	-1,517	-4,857	-11,979
16 Discrepancy	-601	-0	0	-1
17 Total Final Energy Consumption	5,644	14,264	97	116,150
18 Industry Sector	1,809	14,261	65	10,115
19 Transport Sector	-	-	-	59,341
20 Other Sector	4,034	3	32	13,047
20.1 Residential & Commercial	3,965	3	-	8,275
20.2 Agriculture	64	-	14	3,976
20.3 Other	6	-	18	796
21 Non Energy	-	-	-	33,647

Singapore, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	-	-
2 Import	-	-	41,468	103,526
3 Export	-	-	-20	-83,770
4 International Marine Bunkers	-	-	-	-43,154
5 International Aviation Bunkers	-	-	-	-4,188
6 Stock Change	-	-	-	-
7 Total Primary Energy Supply	-	-	41,448	-27,586
8 Transfers	-	-	-	-
9 Main Activity Peoducer	-	-	-	-2,005
10 Autoproducers	-	-	-	-
11 Gas Processing	-	-	-	-128
12 Petroleum Refineries	-	-	-41,448	43,659
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-	-	-980
16 Discrepancy	-	-	-	-4,194
17 Total Final Energy Consumption	-	-	-	8,766
18 Industry Sector	-	-	-	6,994
19 Transport Sector	-	-	-	1,523
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
552,915	14,414	45,094	449	7,091	-	-	1,314,872
6,553	-	-	-	0	134	-	15,627
-165,316	-	-	-	0	-2,074	-	-599,506
-	-	-	-	-	-	-	-2,989
-	-	-	-	-	-	-	-6,426
-2,797	-	-	-	-3	-	-	-2,681
391,354	14,414	45,094	449	7,088	-1,940	-	718,898
-	-	-	-	-	-	-	-
-149,575	-14,319	-45,094	-449	-	85,197	56,440	-116,438
-87,303	-95	-	-	-4,493	5,513	95,977	-22,930
-0	-	-	-	-	-	-	-0
-	-	-	-	-	-	-	-8,864
-	-	-	-	-	-	-	-16,575
-1,729	-	-	-	-	-	-	-1,729
-14,741	-	-	-	-146	-26,091	-28,848	-88,901
-17	-	-	-	-0	0	-	-620
137,989	-	-	-	2,448	62,679	123,569	462,841
31,222	-	-	-	354	28,622	46,396	132,645
31,305	-	-	-	-	7,771	-	98,416
42,719	-	-	-	2,094	26,286	77,173	165,390
42,189	-	-	-	1,934	24,985	72,069	153,420
526	-	-	-	160	1,277	5,094	11,111
5	-	-	-	-	24	10	859
32,743	-	-	-	-	-	-	66,390

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
-	-	-	-	120	-	-	120
6,605	-	-	-	-	-	-	151,599
-	-	-	-	-	-	-	-83,790
-	-	-	-	-	-	-	-43,154
-	-	-	-	-	-	-	-4,188
6,605	-	-	-	120	-	-	20,587
-	-	-	-	-	-	-	-
-6,605	-	-	-	-120	3,956	-	-4,774
-	-	-	-	-	-	-	-
113	-	-	-	-	-	-	-15
-	-	-	-	-	-	-	2,211
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-362	-	-1,342
10	-	-	-	-	-37	-	-4,221
123	-	-	-	-	3,556	-	12,446
74	-	-	-	-	1,410	-	8,478
-	-	-	-	-	-	-	1,523
50	-	-	-	-	2,146	-	2,196
50	-	-	-	-	2,141	-	2,191
-	-	-	-	-	5	-	5
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	250

Chinese Taipei, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	-	-	10	-
2 Import	37,012	69	41,908	15,869
3 Export	-	-66	-	-13,360
4 International Marine Bunkers	-	-	-	-1,629
5 International Aviation Bunkers	-	-	-	-1,974
6 Stock Change	-22	-	730	36
7 Total Primary Energy Supply	36,990	2	42,648	-1,057
8 Transfers	-	-	-	-949
9 Main Activity Producer	-19,800	-	-	-1,763
10 Autoproducers	-5,383	-757	-	-801
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-42,627	43,028
13 Coal Transformation	-5,394	3,211	-	-
14 Other Transformation	-	-	-	-
15 Loss & Own Use	-	-1,009	-	-1,603
16 Discrepancy	-1,007	90	-21	360
17 Total Final Energy Consumption	5,406	1,538	-	37,225
18 Industry Sector	5,406	1,538	-	3,413
19 Transport Sector	-	-	-	11,921
20 Other Sector	-	-	-	2,447
20.1 Residential & Commercial	-	-	-	2,144
20.2 Agriculture	-	-	-	4
20.3 Other	-	-	-	300
21 Non Energy	-	-	-	19,443

Thailand, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	5,332	-	19,259	-
2 Import	3,035	7,464	41,814	2,076
3 Export	-3	-1	-1,808	-9,336
4 International Marine Bunkers	-	-	-	-
5 International Aviation Bunkers	-	-	-	-4,580
6 Stock Change	-	-	-	-2,201
7 Total Primary Energy Supply	8,364	7,462	59,265	-14,042
8 Transfers	-	-	-6,920	5,571
9 Main Activity Producer	-6,912	-	-	-450
10 Autoproducers	-241	-	-	-7
11 Gas Processing	-	-	-	-
12 Petroleum Refineries	-	-	-49,324	39,890
13 Coal Transformation	-	-	-	-
14 Other Transformation	-	-	928	-
15 Loss & Own Use	-	-	-	-
16 Discrepancy	-12	-2,182	2,325	237
17 Total Final Energy Consumption	1,199	5,280	6,273	31,199
18 Industry Sector	1,199	5,280	-	2,936
19 Transport Sector	-	-	-	19,579
20 Other Sector	-	-	-	6,825
20.1 Residential & Commercial	-	-	-	3,131
20.2 Agriculture	-	-	-	3,694
20.3 Other	-	-	-	-
21 Non Energy	-	-	6,273	1,859

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
264	594	10,976	237	1,702	-	-	13,782
15,260	-	-	-	-	-	-	110,117
-	-	-	-	-	-	-	-13,426
-	-	-	-	-	-	-	-1,629
-	-	-	-	-	-	-	-1,974
8	-	-	-	-	-	-	752
15,532	594	10,976	237	1,702	-	-	107,622
-	-	-	-	-	-	-	-949
-11,202	-594	-10,976	-	-	18,472	-	-25,853
-92	-	-	-	-1,702	3,215	-	-5,520
-665	-	-	-	-	-	-	-665
-	-	-	-	-	-	-	401
-	-	-	-	-	-	-	-2,183
-	-	-	-	-	-	-	-
-702	-	-	-0	-	-1,816	-	-5,129
-493	-	-	-135	-	-693	-	-1,898
2,378	-	-	102	-	19,178	-	65,827
1,218	-	-	-	-	10,989	-	22,564
-	-	-	-	-	103	-	12,025
1,160	-	-	102	-	8,086	-	11,795
1,160	-	-	102	-	7,852	-	11,257
-	-	-	-	-	154	-	158
-	-	-	-	-	80	-	380
-	-	-	-	-	-	-	19,443

Unit: ktoe							
Natural Gas. LNG	Hydro	Nuclear	Geothermal, Solar, etc.	Others	Electricity	Heat	Total
31,093	702	-	9	2,093	-	-	58,488
8,820	-	-	-	-	627	-	63,835
-	-	-	-	-	-139	-	-11,288
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-4,580
-	-	-	-	-	-	-	-2,201
39,913	702	-	9	2,093	488	-	104,254
-	-	-	-	-	-	-	-1,349
-23,064	-702	-	-9	-	12,415	-	-18,722
-3,534	-	-	-	-2,093	1,303	-	-4,572
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-9,434
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	928
-4,449	-	-	-	-	-426	-	-4,875
-2,452	-	-	-	-	-967	-	-3,051
6,414	-	-	-	-	12,813	-	63,179
2,469	-	-	-	-	5,444	-	17,329
2,055	-	-	-	-	6	-	21,640
2	-	-	-	-	7,363	-	14,190
2	-	-	-	-	7,266	-	10,399
-	-	-	-	-	29	-	3,723
-	-	-	-	-	68	-	68
1,888	-	-	-	-	-	-	10,020

United States of America, 2011

	Coal	Coal Products	Crude Oil, NGL	Petroleum Products
1 Indigenous Production	536,369	-	360,803	116
2 Import	7,346	886	530,008	76,406
3 Export	-62,775	-606	-12,823	-129,142
4 International Marine Bunkers	-	-	-	-26,390
5 International Aviation Bunkers	-	-	-	-21,840
6 Stock Change	-2,184	-27	5,016	2,616
7 Total Primary Energy Supply	478,756	253	883,005	-98,233
8 Transfers	-	-	-47,802	49,848
9 Main Activity Producer	-432,163	-212	-	-7,014
10 Autoproducers	-2,926	-907	-	-318
11 Gas Processing	-1,932	-	-	-
12 Petroleum Refineries	-	-	-850,058	890,264
13 Coal Transformation	-15,087	4,904	-	-
14 Other Transformation	-	-	23,521	-
15 Loss & Own Use	-145	-1,586	-	-46,732
16 Discrepancy	-7,490	-0	-7,021	-520
17 Total Final Energy Consumption	19,013	2,452	1,644	787,294
18 Industry Sector	17,713	2,452	27	30,432
19 Transport Sector	-	-	14	587,993
20 Other Sector	1,300	-	335	48,011
20.1 Residential & Commercial	1,300	-	298	33,688
20.2 Agriculture	-	-	37	14,323
20.3 Other	-	-	-	-
21 Non Energy	-	-	1,267	120,858

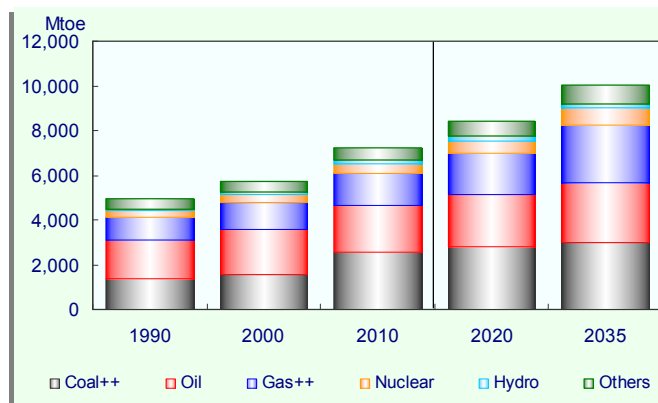
Viet Nam, 2010

	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 Producer	-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
531,056	29,642	214,058	28,170	93,064	-	-	1,793,278
80,618	-	-	-	406	4,498	-	700,168
-34,654	-	-	-	-2,445	-1,293	-	-243,737
-	-	-	-	-	-	-	-26,390
-	-	-	-	-	-	-	-21,840
-8,134	-	-	-	-229	-	-	-2,941
568,886	29,642	214,058	28,170	90,797	3,205	-	2,198,539
-	-	-	-	-	-	-	2,046
-175,396	-29,484	-214,058	-26,130	-13,850	359,614	12,149	-526,546
-14,382	-158	-	-377	-6,812	14,153	-	-11,726
1,189	-	-	-	-	-	-	-743
-	-	-	-	-	-	-	40,206
-	-	-	-	-	-	-	-10,183
-	-	-	-	-25,036	-	-	-1,515
-49,010	-	-	-	-	-51,042	-5,507	-154,022
-4,405	0	-	-0	-1	-0	-	-19,438
326,883	-	-	1,662	45,098	325,929	6,642	1,516,617
118,753	-	-	106	31,963	77,279	5,248	283,973
16,596	-	-	-	-	660	-	605,263
181,447	-	-	1,557	13,135	247,991	1,394	495,168
181,447	-	-	1,557	12,792	236,574	1,394	469,048
-	-	-	-	343	-	-	14,704
-	-	-	-	-	11,417	-	11,417
10,088	-	-	-	-	-	-	132,213

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

Primary Energy Supply Outlook by Energy

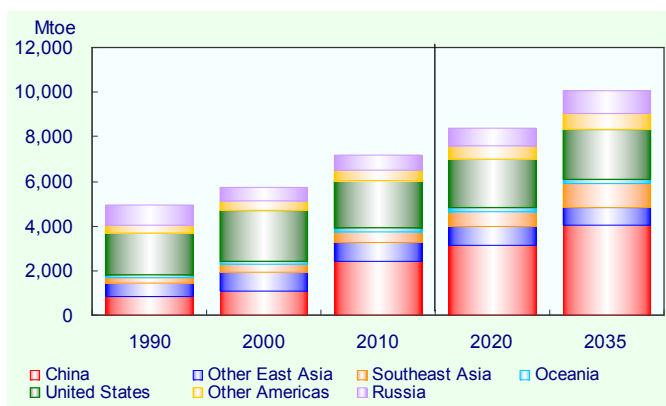


	1990	2000	2010	2020	Mtoe 2035
Coal++	1,377	1,574	2,571	2,800	2,988
Oil	1,754	2,006	2,113	2,363	2,678
Gas++	996	1,182	1,397	1,795	2,569
Nuclear	286	390	431	577	753
Hydro	92	107	158	210	232
Others	428	468	526	651	818
Total	4,932	5,727	7,198	8,400	10,043

	1990	2000	2010	2020	Share (%) 2035
Coal++	27.9	27.5	35.7	33.3	29.7
Oil	35.6	35.0	29.3	28.1	26.7
Gas++	20.2	20.6	19.4	21.4	25.6
Nuclear	5.8	6.8	6.0	6.9	7.5
Hydro	1.9	1.9	2.2	2.5	2.3
Others	8.7	8.2	7.3	7.7	8.1

By Asia Pacific Energy Research Centre, February 2013.

Primary Energy Supply Outlook by Region



	Mtoe				
	1990	2000	2010	2020	2035
China	863	1,095	2,397	3,142	4,027
Other East Asia	589	806	850	852	814
Southeast Asia	232	374	513	666	1,039
Oceania	100	126	146	164	181
United States	1,915	2,273	2,143	2,178	2,249
Other Americas	354	433	481	580	724
Russia	879	619	669	819	1,009
APEC 21	4,933	5,727	7,198	8,400	10,043

	Share (%)				
	1990	2000	2010	2020	2035
China	17.5	19.1	33.3	37.4	40.1
Other East Asia	11.9	14.1	11.8	10.1	8.1
Southeast Asia	4.7	6.5	7.1	7.9	10.3
Oceania	2.0	2.2	2.0	1.9	1.8
United States	38.8	39.7	29.8	25.9	22.4
Other Americas	7.2	7.6	6.7	6.9	7.2
Russia	17.8	10.8	9.3	9.7	10.0

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	2011	1990	2000	2011	1990	2000
APEC 21	2,281	2,544	2,769	14,282	19,349	25,815	16,259	22,607
East Asia and Russia	1,328	1,465	1,552	5,140	6,873	10,192	4,785	7,669
China	1,135.2	1,262.6	1,344.1	444.6	1,198.5	3,547.8	1,104.2	2,976.5
Hong Kong, China	5.7	6.7	7.1	115.2	169.1	268.3	119.6	175.7
Japan	123.5	126.9	127.8	4,122.3	4,667.4	5,075.9	2,867.2	3,246.3
Republic of Korea	42.9	47.0	49.8	295.6	533.4	830.9	446.5	805.6
Russia	148.3	146.3	143.0	385.9	259.7	434.1	1,657.1	1,115.3
Chinese Taipei	20.4	22.2	23.2	161.8	304.1	469.1	247.5	465.1
Southeast Asia	318.7	373.9	439.8	341.4	556.2	947.4	830	1,324
Brunei Darussalam	0.3	0.3	0.4	4.8	6.0	7.0	11.2	14.0
Indonesia	178.2	206.3	243.8	109.2	165.0	292.7	327.6	495.3
Malaysia	18.1	23.3	28.8	47.2	93.8	154.3	106.5	211.5
Philippines	62.4	77.7	95.1	56.2	75.9	134.1	131.7	177.8
Singapore	3.0	4.0	5.2	44.7	92.7	171.8	64.3	133.5
Thailand	56.7	62.3	66.6	79.4	122.7	187.6	189.0	292.3
Viet Nam	66.2	77.6	87.8	15.0	31.2	66.6	52.9	109.7
Oceania	24.6	28.4	33.7	312.1	430.1	605.1	421.3	580.6
Australia	17.1	19.2	22.3	270.1	374.0	531.5	354.7	491.1
New Zealand	3.4	3.9	4.4	39.6	52.7	68.1	60.3	80.2
Papua New Guinea	4.1	5.4	7.0	2.3	3.5	5.5	6.3	9.3
North America	277.4	312.9	346.1	7,599	10,490	12,628	7,710	10,638
Canada	27.8	30.8	34.5	543.6	724.9	894.8	654.7	873.0
United States of America	249.6	282.2	311.6	7,055	9,765	11,733	7,055	9,765
Latin America	118.2	139.4	166.3	489.9	710.0	941.4	802.7	1,170.0
Chile	13.2	15.4	17.3	40.4	75.2	122.4	76.8	142.8
Mexico	83.2	98.0	119.4	413.3	581.4	720.0	640.0	900.3
Peru	21.8	26.0	29.6	36.1	53.3	99.0	85.9	126.8

	Energy Indigenous Production			Net Import			Total Primary Energy Supply				
	Mtoe			Mtoe			Mtoe				
	2011	1990	2000	2011*	1990	2000	2011*	1990	2000	2011*	
	34,031	4,638	4,889	6,970	149.7	626.1	609.1	4,635	5,450	7,371	
	14,629	815	1,019	2,353	461.3	713.2	1,146.5	1,239	1,704	3,405	
	8,845.3	705.8	865.5	2,223.4	-30.5	32.4	381.3	654.0	905.2	2,536.2	CHN
	280.0	0.0	0.0	0.1	10.8	18.2	31.9	10.6	15.1	13.9	HKG
	3,526.5	75.8	107.1	66.0	371.4	420.4	409.3	435.4	515.8	491.4	JPN
	1,259.3	22.6	35.2	50.3	70.1	165.7	227.4	93.1	188.9	255.8	KOR
	1,670.7	1,292.8	977.9	1,314.9	-412.6	-349.6	-583.9	877.8	619.2	718.9	RUS
	717.5	10.7	11.5	13.8	39.4	76.4	96.7	45.5	79.0	107.6	TWN
	2,285	211.0	328.9	524.0	-51.9	-30.0	-63.1	142.5	271.4	413.5	
	16.5	15.9	17.3	20.8	-13.7	-15.2	-17.2	2.1	2.1	3.4	BRN
	880.6	119.4	184.0	341.0	-65.9	-82.4	-176.3	53.3	101.2	174.7	IDN
	362.9	46.5	79.5	81.7	-25.4	-27.4	-8.0	21.0	51.5	72.0	MYS
	306.1	17.2	19.6	21.8	11.9	20.0	18.1	28.3	39.0	38.6	PHL
	247.8	0.0	0.1	0.1	22.9	40.3	67.8	9.9	17.2	20.6	SGP
	470.9	11.9	28.6	58.5	18.2	34.6	52.5	27.9	60.4	104.3	THA
	234.9	5.8	25.8	-	-0.2	-9.8	-	5.4	14.8	-	VNM
	815.4	174.7	251.8	315.4	-66.0	-126.1	-175.2	101.1	126.8	144.9	
	696.7	157.4	233.0	296.2	-64.4	-126.8	-179.2	86.2	107.9	122.9	AUS
	103.9	12.7	15.0	17.7	2.1	3.4	3.2	14.0	17.7	19.8	NZL
	14.7	4.6	3.9	1.4	-3.7	-2.7	0.8	0.9	1.1	2.3	PNG
	12,812	1,928	2,047	2,203	282.6	478.7	297.9	2,125	2,532	2,451	
	1,079.0	273.7	373.9	409.8	-59.3	-127.7	-158.5	208.6	252.6	252.6	CAN
	11,733	1,654.0	1,673.0	1,793.3	341.9	606.4	456.4	1,916.5	2,279.2	2,198.5	USA
	1,583.9	210.8	238.7	259.1	-63.4	-50.3	-13.1	144.3	181.6	238.0	
	231.7	7.9	8.6	9.9	7.0	17.7	24.9	14.2	25.2	33.5	CHL
	1,116.2	194.7	222.3	228.5	-69.9	-71.3	-36.2	122.5	145.4	186.0	MEX
	236.0	8.2	7.8	20.7	-0.6	3.3	-1.9	7.5	11.0	18.4	PER

Note: * excluding Viet Nam.

	Total Final Energy Consumption			Final Consumption of Electricity			Total Primary Energy Supply	
	Mtoe			TWh			toe / Person	
	1990	2000	2011*	1990	2000	2011*	1990	2000
APEC 21	3,236	3,726	4,692	5,840	7,841	11,707	2.03	2.14
East Asia and Russia	895.7	1,186.7	2,003.7	1,543.4	2,477.4	5,579.4	0.93	1.16
China	489.9	634.7	1,452.4	606.4	1,053.7	3,859.8	0.58	0.72
Hong Kong, China	6.7	11.2	6.1	23.8	36.3	42.1	1.87	2.26
Japan	304.9	360.1	319.0	744.8	964.1	983.9	3.52	4.07
Republic of Korea	64.9	127.1	160.5	94.4	263.1	470.6	2.17	4.02
Russia	625.0	418.8	462.8	826.6	608.5	728.8	5.92	4.23
Chinese Taipei	29.3	53.6	65.8	74.0	160.1	223.0	2.23	3.56
Southeast Asia	92.5	162.6	257.1	125.2	326.2	516.8	0.45	0.73
Brunei Darussalam	0.4	0.7	0.9	1.0	2.5	3.1	8.36	6.27
Indonesia	34.0	63.6	115.5	30.5	108.9	159.9	0.30	0.49
Malaysia	13.1	29.7	42.0	19.9	61.2	107.4	1.16	2.21
Philippines	19.5	23.5	23.0	21.2	36.6	56.1	0.45	0.50
Singapore	5.3	6.4	12.4	14.2	29.1	41.4	3.25	4.28
Thailand	20.2	38.7	63.2	38.3	87.9	149.0	0.49	0.97
Viet Nam	4.2	11.9	-	6.2	22.4	-	0.08	0.19
Oceania	66.8	83.4	91.6	159.1	209.3	253.2	4.10	4.47
Australia	56.5	69.6	77.6	129.2	172.7	210.9	5.05	5.63
New Zealand	9.7	12.9	12.7	28.2	34.3	38.6	4.07	4.60
Papua New Guinea	0.6	0.9	1.4	1.7	2.3	3.6	0.21	0.21
North America	1,450.4	1,734.8	1,721.2	3,051.7	3,981.1	4,308.8	7.66	8.09
Canada	158.8	189.2	204.6	418.1	481.6	518.9	7.51	8.21
United States of America	1,291.6	1,545.6	1,516.6	2,633.6	3,499.5	3,789.9	7.68	8.08
Latin America	101.6	127.9	156.0	127.5	216.3	320.5	1.22	1.30
Chile	11.1	20.4	26.0	15.5	36.8	57.9	1.08	1.64
Mexico	84.3	98.3	116.1	100.2	162.2	225.9	1.47	1.48
Peru	6.2	9.2	13.9	11.8	17.3	36.6	0.35	0.42

	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			
2011*	1990	2000	2011*	1990	2000	2011*	1990	2000	2011*	
2.66	324.5	281.6	285.5	285.1	241.1	213.4	1.42	1.46	1.69	
2.19	241.0	247.9	334.1	249.4	211.9	225.4	0.67	0.81	1.29	
1.89	1,471.0	755.3	714.9	592.3	304.1	286.7	0.43	0.50	1.08	CHN
1.97	92.4	89.2	52.0	89.0	85.9	49.8	1.17	1.68	0.86	HKG
3.84	105.6	110.5	96.8	151.9	158.9	139.4	2.47	2.84	2.50	JPN
5.14	314.9	354.2	307.8	208.5	234.5	203.1	1.51	2.70	3.22	KOR
5.03	2,274.7	2,384.0	1,656.2	529.7	555.2	430.3	4.21	2.86	3.24	RUS
4.63	281.0	259.7	229.4	183.7	169.8	150.0	1.44	2.41	2.83	TWN
0.94	417.4	488.0	436.4	171.6	204.9	181.0	0.29	0.43	0.58	
8.35	446.5	348.3	483.2	191.0	149.0	206.2	1.64	2.23	2.25	BRN
0.72	487.9	613.5	597.0	162.6	204.4	198.4	0.19	0.31	0.47	IDN
2.50	444.3	549.0	466.5	197.0	243.5	198.3	0.73	1.28	1.46	MYS
0.41	503.5	513.3	287.6	214.9	219.1	126.0	0.31	0.30	0.24	PHL
3.97	221.6	185.9	119.8	153.9	129.1	83.1	1.75	1.59	2.40	SGP
1.57	351.8	491.9	555.6	147.7	206.6	221.4	0.36	0.62	0.95	THA
-	360.5	476.1	-	102.4	135.3	-	0.06	0.15	-	VNM
4.29	323.9	294.7	239.5	239.9	218.3	177.7	2.71	2.94	2.72	
5.50	319.0	288.5	231.2	242.9	219.7	176.3	3.31	3.63	3.47	AUS
4.49	354.3	336.9	290.5	232.7	221.3	190.2	2.82	3.35	2.87	NZL
0.32	369.7	320.9	408.2	138.4	120.1	153.5	0.15	0.16	0.20	PNG
7.08	279.7	241.4	194.1	275.6	238.0	191.3	5.23	5.54	4.97	
7.32	383.7	348.5	282.3	318.6	289.4	234.1	5.71	6.15	5.93	CAN
7.06	271.7	233.4	187.4	271.7	233.4	187.4	5.17	5.48	4.87	USA
1.43	294.5	255.8	252.8	179.7	155.2	150.2	0.86	0.92	0.94	
1.94	351.8	335.4	274.0	185.2	176.6	144.8	0.84	1.32	1.50	CHL
1.56	296.4	250.0	258.4	191.4	161.5	166.7	1.01	1.00	0.97	MEX
0.62	208.7	207.1	186.1	87.7	87.1	78.1	0.29	0.35	0.47	PER

	Energy Related CO ₂ Emission			CO ₂ Emission per Capita		
	Mt-C			t-C / Person		
	1990	2000	2011*	1990	2000	2011*
APEC 20	-	3,982.4	5,376.5	-	1.565	1.942
East Asia and Russia	971.3	1,341.0	2,667.0	0.732	0.915	1.718
China	581.5	847.6	2,120.1	0.512	0.671	1.577
Hong Kong, China	8.9	8.5	11.9	1.565	1.278	1.680
Japan	288.6	317.5	318.6	2.336	2.502	2.493
Republic of Korea	62.4	109.2	145.0	1.455	2.323	2.912
Russia	935.1	429.6	440.4	6.306	2.936	3.080
Chinese Taipei	29.9	58.2	71.4	1.468	2.621	3.075
Southeast Asia	-	173.3	281.4	-	0.464	0.640
Brunei Darussalam	1.5	1.8	2.2	5.804	5.479	5.360
Indonesia	37.3	73.0	132.6	0.209	0.354	0.544
Malaysia	15.7	32.0	49.9	0.866	1.375	1.736
Philippines	9.8	17.5	20.3	0.157	0.225	0.214
Singapore	5.3	9.1	13.9	1.751	2.248	2.690
Thailand	-	40.0	62.4	-	0.641	0.938
Viet Nam	4.7	12.0	-	0.070	0.155	-
Oceania	78.1	102.0	117.4	3.169	3.593	3.481
Australia	70.7	93.3	107.8	4.145	4.869	4.828
New Zealand	6.7	7.9	8.1	1.956	2.056	1.847
Papua New Guinea	0.6	0.8	1.5	0.153	0.155	0.217
North America	1,553.5	1,809.3	1,721.7	5.600	5.782	4.975
Canada	114.6	141.6	142.1	4.122	4.602	4.121
United States of America	1,438.9	1,667.7	1,579.6	5.764	5.910	5.070
Latin America	84.2	115.1	148.5	0.713	0.826	0.893
Chile	8.0	13.3	18.4	0.608	0.862	1.064
Mexico	70.8	94.4	117.3	0.851	0.963	0.983
Peru	5.4	7.5	12.8	0.248	0.287	0.433

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	2011*	1990	2000	2011*	1990	2000	2011*	
-	205.8	208.3	-	176.2	158.0	-	0.731	0.729	
189.0	195.1	261.7	203.0	174.9	182.3	0.784	0.787	0.783	
1,308.0	707.2	597.6	526.6	284.8	239.7	0.889	0.936	0.836	CHN
77.5	50.4	44.3	74.7	48.5	42.4	0.839	0.564	0.852	HKG
70.0	68.0	62.8	100.6	97.8	90.3	0.663	0.616	0.648	JPN
211.0	204.7	174.5	139.7	135.6	115.1	0.670	0.578	0.567	KOR
2,423.2	1,654.1	1,014.5	564.3	385.2	263.6	1.065	0.694	0.613	RUS
184.6	191.5	152.2	120.7	125.2	99.5	0.657	0.737	0.664	TWN
-	311.7	297.0	-	130.9	123.2	-	0.639	0.681	
310.1	304.5	310.3	132.7	130.2	132.4	0.695	0.874	0.642	BRN
341.7	442.4	452.9	113.9	147.4	150.5	0.700	0.721	0.759	IDN
332.0	341.1	323.7	147.2	151.3	137.6	0.747	0.621	0.694	MYS
174.3	230.2	151.8	74.4	98.3	66.5	0.346	0.448	0.528	PHL
119.5	97.7	81.2	83.0	67.8	56.3	0.539	0.525	0.677	SGP
-	325.7	332.8	-	136.8	132.6	-	0.662	0.599	THA
310.2	385.7	-	88.1	109.6	-	0.861	0.810	-	VNM
250.3	237.2	194.1	185.4	175.7	144.0	0.773	0.805	0.811	
261.8	249.4	202.8	199.4	189.9	154.7	0.821	0.864	0.877	AUS
170.2	150.6	119.5	111.8	98.9	78.3	0.480	0.447	0.411	NZL
269.6	238.1	274.8	100.9	89.1	103.3	0.729	0.742	0.673	PNG
204.4	172.5	136.3	201.5	170.1	134.4	0.731	0.715	0.702	
210.7	195.3	158.8	175.0	162.2	131.7	0.549	0.560	0.563	CAN
204.0	170.8	134.6	204.0	170.8	134.6	0.751	0.732	0.718	USA
171.9	162.1	157.8	104.9	98.4	93.8	0.584	0.634	0.624	
198.0	176.8	150.4	104.2	93.1	79.5	0.563	0.527	0.549	CHL
171.3	162.3	162.9	110.6	104.8	105.1	0.578	0.649	0.631	MEX
149.8	139.8	129.4	63.0	58.8	54.3	0.718	0.675	0.695	PER

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.

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