

Selected Energy Indicators APEC Region

	Population			Real GDP			Real GDP	
	Millions			Billions of 1995 Price and 1995 USD			Billions of 1995 Price and 1995 PPP	
	1980	1990	2003	1980	1990	2003	1980	1990
APEC 19	1,787	2,064	2,378	9,762	14,177	20,592	9,404	14,025
APEC 21	1,980	2,278	2,603	-	14,696	21,028	-	15,509
East Asia	1,159	1,328	1,493	3,758	5,968	8,409	2,681	4,814
China	981.2	1,135.2	1,288.4	163.6	397.6	1,324.8	706.2	1,716.2
Hong Kong, China	5.0	5.7	6.8	58.1	108.0	177.7	54.6	101.5
Japan	116.8	123.5	127.6	3,297.7	4,924.8	5,817.0	1,762.4	2,632.0
Republic of Korea	38.1	42.9	47.9	153.8	355.0	733.4	157.8	364.4
Chinese Taipei	17.8	20.4	22.5	85.2	182.5	355.7	-	-
Southeast Asia	259	316	388	247	432	778	568	951
Brunei Darussalam	0.2	0.3	0.4	5.7	4.8	6.1	6.2	5.3
Indonesia	148.3	178.2	214.7	74.6	138.4	233.7	197.2	365.9
Malaysia	13.8	18.2	24.8	31.6	56.5	123.5	52.0	92.8
Philippines	48.0	61.0	81.5	56.3	66.6	101.0	178.7	211.2
Singapore	2.4	3.0	4.3	26.8	54.5	115.9	20.1	41.0
Thailand	46.7	55.6	62.0	52.2	111.1	197.6	107.9	229.7
Oceania	21	24	29	281	373	581	294	389
Australia	14.7	17.1	19.9	235.4	317.8	499.1	243.4	328.5
New Zealand	3.1	3.4	4.0	43.4	52.2	77.2	44.5	53.6
Papua New Guinea	3.1	4.0	5.5	2.7	3.0	4.8	6.2	7.0
North America	252	277	322	5,179	7,055	10,290	5,248	7,146
Canada	24.6	27.8	31.6	406.8	534.4	765.3	457.2	600.7
United States of America	227.2	249.4	290.8	4,771.9	6,520.5	9,525.1	4,790.3	6,545.6
Latin America	96.0	117.9	145.2	296.0	349.3	534.0	618.8	729.3
Chile	11.1	13.1	15.8	29.7	43.0	87.6	47.6	68.9
Mexico	67.6	83.2	102.3	221.8	265.3	380.4	487.6	583.3
Peru	17.3	21.6	27.1	44.5	41.1	66.0	83.6	77.1
Russia	139.0	148.3	143.4	-	504.4	400.9	-	1,414.8
Viet Nam	53.7	66.2	81.3	-	14.0	35.6	-	69.9

Note: Chinese Taipei is not included in the Real GDP (1995 Price and 1995 PPP) of APEC 19, APEC 21 and East Asia.

	Energy Indigenous Production			Net Import			Total Primary Energy Supply			
	Mtoe			Mtoe			Mtoe			
2003	1980	1990	2003	1980	1990	2003	1980	1990	2003	
23,572	2,558.2	3,196.4	3,985.3	500.6	540.9	1,075.9	3,030.9	3,650.0	5,005.6	
24,877	2,558.2	3,202.2	5,104.8	-	-	608.9	-	-	5,646.8	
9,725	478	775	1,152	341	452	750	821	1,200	1,888	
5,672.3	414.1	670.5	1,022.6	-18.6	-29.0	48.3	399.6	621.2	1,067.7	CHN
166.9	0.0	0.0	0.0	6.0	10.8	20.6	5.3	10.6	15.6	HKG
3,132.9	48.7	72.6	78.6	303.2	361.6	421.6	352.6	432.5	498.2	JPN
752.7	9.2	21.7	39.0	29.6	69.5	175.9	38.3	89.4	214.3	KOR
-	5.7	10.7	11.4	20.3	39.4	83.0	25.1	46.0	92.6	TWN
1,649	132	199	337	-54	-52	-20	71	133	293	
5.8	20.7	15.3	21.8	-17.4	-12.9	-18.0	3.2	2.1	3.8	BRN
617.9	92.1	119.4	185.0	-60.7	-65.9	-81.4	31.1	53.3	103.4	IDN
202.8	16.1	46.5	83.7	-5.0	-25.4	-26.2	10.6	21.0	58.4	MYS
320.5	2.7	6.0	13.3	10.4	11.4	17.7	12.4	17.3	30.1	PHL
87.2	0.0	0.0	0.1	6.7	22.9	44.4	2.0	9.9	20.0	SGP
408.7	0.5	11.9	32.9	12.0	18.2	43.8	12.1	29.9	77.6	THA
609	92	175	274	-14	-67	-128	79	103	144	
517.9	86.1	158.2	257.2	-18.3	-65.3	-131.0	69.3	87.9	123.5	AUS
79.6	6.0	12.4	14.4	4.0	2.2	4.5	9.5	14.2	18.7	NZL
11.2	0.0	4.6	2.6	0.6	-3.7	-1.1	0.6	0.9	1.6	PNG
10,493	1,689	1,839	1,964	278	266	536	1,943	2,070	2,488	
856.5	207.7	277.4	395.3	-11.0	-68.4	-127.4	194.2	206.0	271.1	CAN
9,636.9	1,481.4	1,561.4	1,568.5	288.6	334.8	663.0	1,748.6	1,863.6	2,217.0	USA
1,102.5	167.2	207.8	258.7	-49.9	-59.4	-61.8	116.3	144.2	192.1	
140.4	7.0	7.8	9.9	4.1	7.0	16.4	11.0	14.3	25.0	CHL
838.1	149.0	191.9	240.8	-51.0	-65.7	-81.5	97.2	122.4	156.8	MEX
124.0	11.1	8.2	8.0	-3.0	-0.6	3.2	8.2	7.5	10.3	PER
1,126.3	0.0	0.0	1,086.6	-	-	-455.5	-	-	620.2	RUS
178.1	0.0	5.8	32.9	-	-	10.5	-	-	21.0	VNM

	Total Final Energy Consumption			Final Consumption of Electricity			Total Primary Energy Supply	
	Mtoe			TWh			toe / Person	
	1980	1990	2003	1980	1990	2003	1980	1990
APEC 19	2,388.1	2,783.6	3,452.7	3,491.5	5,060.0	7,814.5	1.70	1.77
APEC 21	-	-	3,888.0	-	-	8,481.6	-	-
East Asia	610.2	882.8	1,277.1	864.1	1,510.1	2,967.9	0.71	0.90
China	301.4	469.3	690.3	271.6	573.1	1,484.1	0.41	0.55
Hong Kong, China	3.5	6.7	10.5	10.9	23.8	38.4	1.05	1.87
Japan	252.7	305.1	357.2	511.9	744.8	970.1	3.02	3.50
Republic of Korea	35.7	71.9	156.7	32.7	94.4	293.6	1.01	2.08
Chinese Taipei	17.0	29.8	62.3	36.9	74.0	181.7	1.41	2.26
Southeast Asia	48.1	85.3	181.8	50.5	123.2	379.6	0.28	0.42
Brunei Darussalam	0.2	0.4	0.7	0.3	1.0	2.7	16.81	8.06
Indonesia	21.1	34.0	66.9	7.3	30.5	121.9	0.21	0.30
Malaysia	6.4	13.1	34.6	8.7	19.9	73.4	0.77	1.15
Philippines	9.0	10.3	17.7	15.0	19.3	42.6	0.26	0.28
Singapore	2.1	5.3	11.5	6.1	14.2	32.0	0.82	3.25
Thailand	9.3	22.2	50.4	13.1	38.3	107.0	0.26	0.54
Oceania	59.3	74.0	94.4	101.6	162.4	239.6	3.80	4.20
Australia	51.5	63.2	79.8	81.0	133.1	201.4	4.72	5.15
New Zealand	7.3	10.1	13.5	19.4	27.7	35.2	3.05	4.11
Papua New Guinea	0.4	0.6	1.1	1.2	1.7	3.0	0.20	0.22
North America	1,591.0	1,639.9	1,773.8	2,404.6	3,144.9	4,002.6	7.72	7.47
Canada	156.7	164.6	199.7	307.4	432.9	527.6	7.90	7.41
United States of America	1,434.3	1,475.2	1,574.1	2,097.2	2,712.0	3,475.0	7.70	7.47
Latin America	79.6	101.7	125.6	70.7	119.3	224.9	1.21	1.22
Chile	8.3	11.0	19.7	9.7	15.4	44.3	0.98	1.09
Mexico	65.1	84.4	97.4	52.3	92.1	160.4	1.44	1.47
Peru	6.2	6.2	8.5	8.7	11.8	20.2	0.47	0.35
Russia	-	-	418.4	-	-	632.2	-	-
Viet Nam	-	-	17.0	-	-	34.8	-	-

	Total Primary Energy Supply per Real GDP			Total Primary Energy Supply per Real GDP			Total Final Energy Consumption per Capita			
	toe / Million 1995 USD			toe / Million 1995 PPP			toe / Person			
	2003	1980	1990	2003	1980	1990	2003	1980	1990	
2.11	310.5	257.5	243.1	319.7	257.0	208.4	1.3	1.3	1.5	
2.17	-	-	268.5	-	-	223.3	-	-	1.5	
1.26	218.4	201.0	224.6	296.8	239.7	184.7	0.5	0.7	0.9	
0.83	2,442.7	1,562.5	806.0	565.9	362.0	188.2	0.3	0.4	0.5	CHN
2.29	91.0	98.5	87.8	97.0	104.9	93.4	0.7	1.2	1.5	HKG
3.91	106.9	87.8	85.6	200.1	164.3	159.0	2.2	2.5	2.8	JPN
4.47	249.2	251.7	292.2	242.8	245.2	284.7	0.9	1.7	3.3	KOR
4.11	294.6	252.0	260.3	-	-	-	1.0	1.5	2.8	TWN
0.76	288.8	308.9	377.1	125.6	140.3	177.9	0.2	0.3	0.5	
10.65	571.2	430.8	624.4	520.8	392.8	651.2	1.2	1.6	2.0	BRN
0.48	416.5	384.7	442.3	157.6	145.6	167.3	0.1	0.2	0.3	IDN
2.36	333.8	371.2	473.2	203.1	225.9	288.2	0.5	0.7	1.4	MYS
0.37	220.8	260.1	297.9	69.6	82.0	93.9	0.2	0.2	0.2	PHL
4.71	73.8	181.5	172.9	98.2	241.5	229.8	0.9	1.7	2.7	SGP
1.25	231.9	269.5	392.7	112.2	130.3	189.9	0.2	0.4	0.8	THA
4.89	282.2	276.1	247.4	270.0	264.6	236.2	2.8	3.0	3.2	
6.21	294.3	276.7	247.5	284.7	267.7	238.5	3.5	3.7	4.0	AUS
4.66	219.1	271.5	242.3	213.3	264.4	234.8	2.3	2.9	3.4	NZL
0.28	234.7	283.6	320.4	101.9	123.1	138.8	0.1	0.2	0.2	PNG
7.72	375.2	293.3	241.8	370.2	289.6	237.1	6.3	5.9	5.5	
8.57	477.6	385.4	354.2	424.8	342.9	316.5	6.4	5.9	6.3	CAN
7.62	366.4	285.8	232.8	365.0	284.7	230.1	6.3	5.9	5.4	USA
1.32	393.0	412.9	359.7	188.0	197.8	174.2	0.8	0.9	0.9	
1.59	369.3	331.6	285.7	230.4	206.9	178.1	0.7	0.8	1.2	CHL
1.53	438.1	461.6	412.1	199.2	209.9	187.1	1.0	1.0	1.0	MEX
0.38	183.9	183.5	155.6	98.0	97.7	82.8	0.4	0.3	0.3	PER
4.32	-	-	1,547.0	-	-	550.6	-	-	2.9	RUS
0.26	-	-	590.0	-	-	118.0	-	-	0.2	VNM

Note: Chinese Taipei is not included in the Total Primary Energy Supply per Real GDP (1995 PPP) of APEC 19, APEC 21 and East Asia.

	Energy Related CO ₂ Emission			CO ₂ Emission per Capita		
	Mt-C			t-C / Person		
	1980	1990	2003	1980	1990	2003
APEC 19	-	-	3,729	-	-	1.568
APEC 21	-	-	4,197	-	-	1.613
East Asia	661.2	942.2	1,526.8	0.571	0.710	1.022
China	354.4	554.2	1,005.9	0.361	0.488	0.781
Hong Kong, China	4.0	9.2	10.2	0.793	1.613	1.496
Japan	251.5	287.2	324.5	2.154	2.325	2.544
Republic of Korea	32.8	60.6	117.7	0.861	1.413	2.457
Chinese Taipei	18.5	30.9	68.4	1.038	1.520	3.037
Southeast Asia	-	-	207.1	-	-	0.534
Brunei Darussalam	0.6	1.1	2.0	3.337	4.440	5.513
Indonesia	17.3	37.0	78.2	0.117	0.208	0.364
Malaysia	8.1	15.5	39.6	0.586	0.851	1.597
Philippines	8.2	9.7	18.4	0.171	0.159	0.226
Singapore	1.7	8.3	16.0	0.688	2.714	3.769
Thailand	-	-	52.9	-	-	0.853
Oceania	-	-	124.9	-	-	4.249
Australia	-	68.9	92.7	-	4.036	4.664
New Zealand	-	22.4	30.9	-	6.482	7.715
Papua New Guinea	-	-	1.2	-	-	0.221
North America	1,415.8	1,488.3	1,739.8	5.622	5.369	5.396
Canada	119.1	124.3	157.4	4.844	4.472	4.976
United States of America	1,296.7	1,364.0	1,582.4	5.707	5.468	5.441
Latin America	75.3	91.5	130.1	0.784	0.776	0.896
Chile	6.4	9.3	16.4	0.577	0.707	1.039
Mexico	63.0	76.8	106.4	0.932	0.923	1.040
Peru	5.9	5.5	7.4	0.338	0.253	0.272
Russia	-	-	450.8	-	-	3.143
Viet Nam	-	-	17.5	-	-	0.215

CO ₂ Emission per Real GDP			CO ₂ Emission per Real GDP			CO ₂ Emission per Total Primary Energy Supply			
kt-C / Billions of 1995 USD			kt-C / Billions of 1995 PPP			t-C / toe			
1980	1990	2003	1980	1990	2003	1980	1990	2003	
-	-	181.1	-	-	155.3	-	-	0.745	
-	-	199.6	-	-	166.0	-	-	0.743	
175.9	157.9	181.6	239.7	189.3	150.0	0.805	0.785	0.809	
2,166.5	1,393.9	759.3	501.9	322.9	177.3	0.887	0.892	0.942	CHN
68.8	85.2	57.4	73.2	90.7	61.1	0.755	0.864	0.654	HKG
76.3	58.3	55.8	142.7	109.1	103.6	0.713	0.664	0.651	JPN
213.3	170.7	160.5	207.9	166.3	156.4	0.856	0.678	0.549	KOR
216.9	169.5	192.4	-	-	-	0.736	0.673	0.739	TWN
-	-	266.2	-	-	125.6	-	-	0.706	
113.4	237.3	323.1	103.4	216.4	336.9	0.198	0.551	0.517	BRN
232.1	267.2	334.5	87.8	101.1	126.5	0.557	0.695	0.756	IDN
255.0	274.0	320.4	155.2	166.7	195.1	0.764	0.738	0.677	MYS
145.5	146.1	182.4	45.9	46.1	57.5	0.659	0.562	0.612	PHL
62.0	151.7	138.2	82.5	201.9	183.7	0.840	0.836	0.800	SGP
-	-	267.8	-	-	129.5	-	-	0.682	THA
-	-	214.9	-	-	205.1	-	-	0.868	
-	216.8	185.8	-	209.7	179.0	-	0.783	0.751	AUS
-	427.9	400.9	-	416.6	388.5	-	1.576	1.655	NZL
-	-	250.7	-	-	108.6	-	-	0.783	PNG
273.4	211.0	169.1	269.8	208.3	165.8	0.729	0.719	0.699	
292.9	232.6	205.6	260.6	206.9	183.8	0.613	0.603	0.581	CAN
271.7	209.2	166.1	270.7	208.4	164.2	0.742	0.732	0.714	USA
254.4	262.0	243.7	121.7	125.5	118.0	0.647	0.634	0.678	
216.6	215.2	187.2	135.1	134.3	116.7	0.587	0.649	0.655	CHL
284.1	289.5	279.6	129.2	131.7	126.9	0.648	0.627	0.678	MEX
131.6	132.8	111.8	70.1	70.7	59.5	0.715	0.724	0.719	PER
-	-	1,124.7	-	-	400.3	-	-	0.727	RUS
-	-	490.8	-	-	98.1	-	-	0.832	VNM

Note: Chinese Taipei is not included in the CO₂ Emission per Real GDP (1995 PPP) of APEC 19, APEC 21 and East Asia.