

## 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	2002	1980	1990	2002	1980	1990
APEC 19	1,787	2,064	2,358	9,757	14,164	19,894	9,403	14,021
APEC 21	1,980	2,278	2,583	-	14,682	20,299	-	15,505
East Asia	1,159.0	1,327.6	1,484.4	3,753.7	5,954.5	8,131.7	2,680.4	4,809.9
China	981.2	1,135.2	1,280.4	163.6	397.6	1,208.8	706.2	1,716.2
Hong Kong, China	5.0	5.7	6.8	58.1	108.0	172.8	54.6	101.5
Japan	116.8	123.5	127.2	3,297.7	4,924.8	5,725.5	1,762.4	2,632.0
Republic of Korea	38.1	42.9	47.6	149.1	341.6	680.3	157.3	360.3
Chinese Taipei	17.8	20.4	22.5	85.2	182.5	344.4	-	-
Southeast Asia	259.4	316.4	382.1	247.2	432.0	742.1	568.3	951.1
Brunei Darussalam	0.2	0.3	0.4	5.7	4.8	5.8	6.2	5.3
Indonesia	148.3	178.2	211.7	74.6	138.4	224.4	197.2	365.9
Malaysia	13.8	18.2	24.3	31.6	56.5	116.8	52.0	92.8
Philippines	48.0	61.0	79.9	56.3	66.6	96.7	178.7	211.2
Singapore	2.4	3.0	4.2	26.8	54.5	113.5	20.1	41.0
Thailand	46.7	55.6	61.6	52.2	111.1	185.0	107.9	229.7
Oceania	20.9	24.5	29.0	281.4	373.0	560.2	294.1	389.2
Australia	14.7	17.1	19.7	235.4	317.8	480.9	243.4	328.5
New Zealand	3.1	3.4	3.9	43.4	52.2	74.6	44.5	53.6
Papua New Guinea	3.1	4.0	5.4	2.7	3.0	4.7	6.2	7.0
North America	251.8	277.2	319.7	5,178.7	7,054.9	9,937.2	5,247.5	7,146.4
Canada	24.6	27.8	31.4	406.8	534.4	740.8	457.2	600.7
United States of America	227.2	249.4	288.4	4,771.9	6,520.5	9,196.4	4,790.3	6,545.6
Latin America	96.0	117.9	143.2	296.0	349.3	523.1	618.8	729.3
Chile	11.1	13.1	15.6	29.7	43.0	84.7	47.6	68.9
Mexico	67.6	83.2	100.8	221.8	265.3	374.7	487.6	583.3
Peru	17.3	21.6	26.7	44.5	41.1	63.6	83.6	77.1
Russia	139.0	148.3	144.1	-	504.4	371.8	-	1,414.8
Viet Nam	53.7	66.2	80.4	-	14.0	33.2	-	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			
2002	1980	1990	2002	1980	1990	2002	1980	1990	2002		
22,451	2,558.2	3,196.3	3,848.1	501.0	541.8	938.3	3,031.4	3,650.8	4,724.0		
23,660	2,558.2	3,202.1	4,959.1	-	-	502.5	-	-	5,391.9		
9,157.2	477.7	775.5	1,019.9	340.6	452.3	694.2	820.9	1,199.8	1,702.9		
5,217.5	414.1	670.5	872.9	-18.6	-29.0	30.2	399.6	621.2	898.2	CHN	
162.2	0.0	0.0	0.0	6.0	10.8	20.0	5.3	10.6	15.3	HKG	
3,059.9	48.7	72.6	99.6	303.2	361.6	396.0	352.6	432.5	500.7	JPN	
717.6	9.2	21.7	35.8	29.6	69.5	168.4	38.3	89.4	199.4	KOR	
-	5.7	10.7	11.6	20.3	39.4	79.6	25.1	46.0	89.3	TWN	
1,572.0	132.1	199.0	322.1	-53.6	-50.7	-13.2	71.8	134.2	287.1		
6.3	20.7	15.3	20.8	-17.4	-12.9	-17.5	3.2	2.1	3.3	BRN	
593.0	92.1	119.4	175.7	-60.7	-65.9	-74.8	31.1	53.3	100.8	IDN	
192.0	16.1	46.5	80.5	-5.0	-25.4	-27.2	10.6	21.0	53.0	MYS	
306.5	2.7	6.0	14.4	10.4	11.4	17.9	12.4	17.3	32.3	PHL	
85.3	0.0	0.0	0.0	7.1	24.0	48.8	2.4	10.9	26.1	SGP	
382.5	0.5	11.7	30.7	12.0	18.0	39.6	12.1	29.7	71.7	THA	
584.6	92.1	175.2	276.8	-13.7	-66.8	-128.6	79.4	103.0	144.0		
497.1	86.1	158.2	258.2	-18.3	-65.3	-131.0	69.3	87.9	123.2	AUS	
76.7	6.0	12.4	15.8	4.0	2.2	3.8	9.5	14.2	19.5	NZL	
10.8	0.0	4.6	2.8	0.6	-3.7	-1.4	0.6	0.9	1.4	PNG	
10,064.6	1,689.1	1,838.9	1,981.7	277.6	266.4	439.5	1,942.9	2,069.5	2,404.1		
832.8	207.7	277.4	388.5	-11.0	-68.4	-136.6	194.2	206.0	256.5	CAN	
9,231.9	1,481.4	1,561.4	1,593.1	288.6	334.8	576.1	1,748.6	1,863.6	2,147.7	USA	
1,079.3	167.2	207.8	247.6	-49.9	-59.4	-53.7	116.3	144.2	185.8		
135.8	7.0	7.8	10.6	4.1	7.0	16.0	11.0	14.3	25.3	CHL	
824.0	149.0	191.9	229.1	-51.0	-65.7	-72.6	97.2	122.4	149.8	MEX	
119.5	11.1	8.2	8.0	-3.0	-0.6	2.9	8.2	7.5	10.8	PER	
1,042.8	0.0	0.0	1,080.8	-	-	-424.9	-	-	648.5	RUS	
166.0	0.0	5.8	30.2	-	-0.2	10.1	-	5.4	19.4	VNM	

	Total Final Energy Consumption			Final Consumption of Electricity			Total Primary Energy Supply	
	Mtoe			TWh			toe / Person	
	1980	1990	2002	1980	1991	2002	1980	1990
APEC 19	2,387.1	2,780.3	3,370.0	3,491.5	5,135.6	7,381.5	1.70	1.77
APEC 21	-	-	3,814.7	-	-	8,029.8	-	-
East Asia	610.2	882.8	1,212.2	864.1	1,509.0	2,716.3	0.71	0.90
China	301.4	469.3	632.5	271.6	523.8	1,264.3	0.41	0.55
Hong Kong, China	3.5	6.7	10.8	10.9	25.3	38.1	1.05	1.87
Japan	252.7	305.1	353.5	511.9	774.6	963.5	3.02	3.50
Republic of Korea	35.7	71.9	153.2	32.7	104.4	278.5	1.01	2.08
Chinese Taipei	17.0	29.8	62.2	36.9	80.9	171.9	1.41	2.26
Southeast Asia	47.0	82.0	168.3	50.5	137.1	326.5	0.28	0.42
Brunei Darussalam	0.2	0.4	0.7	0.3	1.0	2.6	16.81	8.06
Indonesia	21.1	34.0	67.4	7.3	34.2	87.1	0.21	0.30
Malaysia	6.4	13.1	33.3	8.7	22.4	68.9	0.77	1.15
Philippines	9.0	10.3	17.3	15.0	21.4	36.7	0.26	0.28
Singapore	1.0	2.2	2.8	6.1	15.1	31.1	1.01	3.59
Thailand	9.3	22.0	46.9	13.1	43.0	100.2	0.26	0.53
Oceania	59.3	74.0	92.7	101.6	165.7	226.5	3.80	4.20
Australia	51.5	63.2	77.5	81.0	135.6	190.0	4.72	5.15
New Zealand	7.3	10.1	14.2	19.4	28.4	33.8	3.05	4.11
Papua New Guinea	0.4	0.6	1.0	1.2	1.7	2.7	0.20	0.22
North America	1,591.0	1,639.9	1,773.1	2,404.6	3,199.5	3,890.0	7.72	7.47
Canada	156.7	164.6	194.3	307.4	438.1	512.8	7.90	7.41
United States of America	1,434.3	1,475.2	1,578.8	2,097.2	2,761.4	3,377.3	7.70	7.47
Latin America	79.6	101.7	123.7	70.7	124.3	222.1	1.21	1.22
Chile	8.3	11.0	19.5	9.7	16.9	40.8	0.98	1.09
Mexico	65.1	84.4	95.5	52.3	94.7	162.0	1.44	1.47
Peru	6.2	6.2	8.6	8.7	12.7	19.3	0.47	0.35
Russia	-	-	429.3	-	-	618.2	-	-
Viet Nam	-	4.2	15.4	-	6.6	30.1	-	0.08

	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			
	2002	1980	1990	2002	1980	1990	2002	1980	1990	
2.00	310.7	257.8	237.5	319.7	257.1	206.4	1,335.7	1,347.3	1,428.9	
2.09	-	-	265.6	-	-	224.1	-	-	1,476.9	
1.15	218.7	201.5	209.4	296.9	239.9	176.2	526.5	664.9	816.6	
0.70	2,442.7	1,562.5	743.1	565.9	362.0	172.1	307.2	413.4	494.0	CHN
2.26	91.1	98.6	88.7	97.0	105.0	94.4	687.5	1,172.4	1,592.1	HKG
3.94	106.9	87.8	87.4	200.1	164.3	163.6	2,163.4	2,469.7	2,779.9	JPN
4.19	257.1	261.6	293.2	243.7	248.0	277.9	936.0	1,676.3	3,216.8	KOR
3.98	294.6	252.0	259.2	-	-	-	954.6	1,464.8	2,768.8	TWN
0.75	290.6	310.7	386.9	126.4	141.1	182.7	181.2	259.3	440.6	
9.46	571.2	430.8	573.5	520.8	392.8	522.9	1,247.4	1,621.5	1,961.8	BRN
0.48	416.5	384.7	449.2	157.6	145.6	170.0	142.1	190.5	318.4	IDN
2.18	333.8	371.2	453.6	203.1	225.9	276.1	463.9	722.2	1,369.6	MYS
0.40	220.8	260.1	333.9	69.6	82.0	105.3	188.2	168.3	216.3	PHL
6.26	91.1	200.4	229.7	121.2	266.7	305.8	415.7	734.1	667.9	SGP
1.16	231.9	267.0	387.4	112.2	129.2	187.4	198.5	396.0	760.6	THA
4.97	282.2	276.1	257.2	270.0	264.6	246.4	2,837.3	3,020.4	3,198.0	
6.26	294.3	276.7	256.1	284.7	267.7	247.8	3,507.6	3,705.6	3,939.1	AUS
4.95	219.1	271.5	261.1	213.3	264.4	254.2	2,345.3	2,937.8	3,609.2	NZL
0.26	234.7	283.6	297.9	101.9	123.1	129.3	142.9	154.0	187.4	PNG
7.52	375.2	293.3	241.9	370.2	289.6	238.9	6,318.1	5,915.2	5,545.6	
8.18	477.6	385.4	346.2	424.8	342.9	308.0	6,372.7	5,923.7	6,195.7	CAN
7.45	366.4	285.8	233.5	365.0	284.7	232.6	6,312.2	5,914.2	5,474.9	USA
1.30	393.0	412.9	355.2	188.0	197.8	172.1	828.5	862.3	864.1	
1.62	369.3	331.6	298.4	230.4	206.9	186.2	742.0	841.5	1,253.2	CHL
1.49	438.1	461.6	399.7	199.2	209.9	181.8	963.3	1,014.5	947.5	MEX
0.40	183.9	183.5	169.0	98.0	97.7	90.0	358.7	287.8	323.2	PER
4.50	-	-	1,744.3	-	-	621.9	-	-	2,979.8	RUS
0.24	-	0.4	584.9	-	0.1	117.0	-	0.1	191.3	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 <sub>2</sub> Emission			CO <sub>2</sub> Emission per Capita		
	Mt-C			t-C / Person		
	1980	1990	2002	1980	1990	2002
APEC 19	-	-	3,513.8	-	-	1.490
APEC 21	-	-	3,982.5	-	-	1.542
<b>East Asia</b>	<b>661.2</b>	<b>942.2</b>	<b>1,375.6</b>	<b>0.571</b>	<b>0.710</b>	<b>0.927</b>
China	354.4	554.2	840.6	0.361	0.488	0.657
Hong Kong, China	4.0	9.2	9.6	0.793	1.613	1.413
Japan	251.5	287.2	317.9	2.154	2.325	2.500
Republic of Korea	32.8	60.6	141.9	0.861	1.413	2.978
Chinese Taipei	18.5	30.9	65.6	1.038	1.520	2.923
<b>Southeast Asia</b>	<b>-</b>	<b>-</b>	<b>193.8</b>	<b>-</b>	<b>-</b>	<b>0.507</b>
Brunei Darussalam	0.6	1.1	2.2	3.337	4.440	6.342
Indonesia	17.3	37.0	73.1	0.117	0.208	0.345
Malaysia	8.1	15.5	32.8	0.586	0.851	1.350
Philippines	8.2	9.7	17.9	0.171	0.159	0.224
Singapore	2.0	9.1	23.3	0.848	2.998	5.593
Thailand	-	-	44.5	-	-	0.722
<b>Oceania</b>	<b>-</b>	<b>-</b>	<b>100.4</b>	<b>-</b>	<b>-</b>	<b>3.465</b>
Australia	-	68.9	91.0	-	4.038	4.628
New Zealand	-	6.1	8.3	-	1.780	2.114
Papua New Guinea	-	-	1.1	-	-	0.199
<b>North America</b>	<b>1,413.3</b>	<b>1,484.9</b>	<b>1,716.9</b>	<b>5.612</b>	<b>5.356</b>	<b>5.370</b>
Canada	119.1	124.5	155.2	4.844	4.478	4.949
United States of America	1,294.2	1,360.4	1,561.7	5.696	5.454	5.416
<b>Latin America</b>	<b>75.3</b>	<b>91.5</b>	<b>127.0</b>	<b>0.784</b>	<b>0.776</b>	<b>0.887</b>
Chile	6.4	9.3	14.9	0.577	0.707	0.953
Mexico	63.0	76.8	104.6	0.932	0.923	1.037
Peru	5.9	5.5	7.6	0.338	0.253	0.284
Russia	-	-	453.0	-	-	3.145
Viet Nam	-	4,657	15.7	-	70.347	0.195

CO <sub>2</sub> Emission per Real GDP			CO <sub>2</sub> Emission per Real GDP			CO <sub>2</sub> Emission per Total Primary Energy Supply			
kt-C / Billions of 1995 USD			kt-C / Billions of 1995 PPP			t-C / toe			
1980	1990	2002	1980	1990	2002	1980	1990	2002	
-	-	176.6	-	-	153.6	-	-	0.744	
-	-	196.2	-	-	165.5	-	-	0.739	
176.2	158.2	169.2	239.8	189.4	143.1	0.805	0.785	0.808	
2,166.5	1,393.9	695.4	501.9	322.9	161.1	0.887	0.892	0.936	CHN
68.8	85.2	55.5	73.2	90.7	59.1	0.755	0.864	0.626	HKG
76.3	58.3	55.5	142.7	109.1	103.9	0.713	0.664	0.635	JPN
220.1	177.4	208.6	208.6	168.2	197.7	0.856	0.678	0.711	KOR
216.9	169.5	190.6	-	-	-	0.736	0.673	0.735	TWN
-	-	261.1	-	-	123.3	-	-	0.675	
113.4	237.3	384.5	103.4	216.4	350.6	0.198	0.551	0.670	BRN
232.1	267.2	325.7	87.8	101.1	123.2	0.557	0.695	0.725	IDN
255.0	274.0	280.9	155.2	166.7	170.9	0.764	0.738	0.619	MYS
145.5	146.1	185.3	45.9	46.1	58.4	0.659	0.562	0.555	PHL
76.4	167.5	205.2	101.7	222.9	273.1	0.839	0.836	0.893	SGP
-	-	240.4	-	-	116.3	-	-	0.620	THA
-	-	179.2	-	-	171.8	-	-	0.697	
-	216.8	189.3	-	209.7	183.1	-	0.784	0.739	AUS
-	117.5	111.6	-	114.4	108.7	-	0.433	0.427	NZL
-	-	229.1	-	-	99.4	-	-	0.769	PNG
272.9	210.5	172.8	269.3	207.8	170.6	0.727	0.717	0.714	
292.9	232.9	209.5	260.6	207.2	186.4	0.613	0.604	0.605	CAN
271.2	208.6	169.8	270.2	207.8	169.2	0.740	0.730	0.727	USA
254.4	262.0	242.9	121.7	125.5	117.7	0.647	0.634	0.684	
216.6	215.2	175.4	135.1	134.3	109.4	0.587	0.649	0.588	CHL
284.1	289.5	279.0	129.2	131.7	126.9	0.648	0.627	0.698	MEX
131.6	132.8	119.6	70.1	70.7	63.7	0.715	0.724	0.707	PER
-	-	1,218.6	-	-	434.5	-	-	0.699	RUS
-	333.1	471.6	-	66.6	94.3	-	860.168	0.806	VNM

Note: Chinese Taipei is not included in the CO<sub>2</sub> Emission per Real GDP (1995 PPP) of APEC 19, APEC 21 and East Asia.