

# Annex

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## ANNEX

### 1. Self-sufficiency

#### 1-1 TPES Self-sufficiency (including Nuclear)

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	120.0%	161.9%	196.4%	232.4%	234.7%
Brunei	2186.2%	1088.5%	796.4%	837.0%	623.9%
Cambodia	-	-	82.9%	80.3%	74.8%
China	101.9%	104.9%	101.2%	97.3%	93.1%
India	91.5%	94.0%	86.9%	79.9%	75.8%
Indonesia	234.0%	194.2%	163.7%	151.2%	169.9%
Japan	10.5%	16.6%	19.4%	19.0%	18.7%
Korea	29.0%	27.1%	16.8%	18.6%	19.7%
Lao PDR	-	-	91.7%	99.0%	92.4%
Malaysia	120.9%	205.6%	183.0%	155.5%	132.9%
Myanmar	97.8%	101.0%	98.1%	134.7%	149.3%
New Zealand	56.0%	78.7%	88.0%	81.0%	83.7%
Philippines	47.5%	62.3%	50.1%	51.2%	57.9%
Singapore	0.0%	0.0%	0.0%	0.2%	0.2%
Thailand	54.9%	62.1%	58.7%	56.8%	59.2%
Vietnam	90.6%	93.7%	116.0%	129.9%	127.0%
OECD Total	67.0%	76.7%	75.1%	71.6%	70.7%
ERIA Total	79.2%	86.8%	84.3%	84.1%	85.5%

#### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.8	2.1	2.7	3.2	3.3	1.6	2.2	2.7	3.2	3.2	1.5	1.9	2.3	2.8	2.7
Brunei	32.6	14.2	10.9	11.7	8.8	30.0	15.0	10.9	11.5	8.6	27.6	12.5	9.4	10.0	7.3
Cambodia	-	-	1.1	1.1	1.1	-	-	1.1	1.1	1.0	-	-	1.0	1.0	0.9
China	1.5	1.4	1.4	1.4	1.3	1.4	1.2	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.1
India	1.4	1.2	1.2	1.1	1.1	1.3	1.3	1.2	1.1	1.0	1.2	1.1	1.0	1.0	0.9
Indonesia	3.5	2.5	2.2	2.1	2.4	3.2	2.7	2.2	2.1	2.3	3.0	2.2	1.9	1.8	2.0
Japan	0.2	0.2	0.3	0.3	0.3	0.1	0.2	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2
Korea	0.4	0.4	0.2	0.3	0.3	0.4	0.4	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.2
Lao PDR	-	-	1.3	1.4	1.3	-	-	1.3	1.4	1.3	-	-	1.1	1.2	1.1
Malaysia	1.8	2.7	2.5	2.2	1.9	1.7	2.8	2.5	2.1	1.8	1.5	2.4	2.2	1.8	1.6
Myanmar	1.5	1.3	1.3	1.9	2.1	1.3	1.4	1.3	1.9	2.1	1.2	1.2	1.2	1.6	1.7
New Zealand	0.8	1.0	1.2	1.1	1.2	0.8	1.1	1.2	1.1	1.2	0.7	0.9	1.0	1.0	1.0
Philippines	0.7	0.8	0.7	0.7	0.8	0.7	0.9	0.7	0.7	0.8	0.6	0.7	0.6	0.6	0.7
Singapore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7
Vietnam	1.4	1.2	1.6	1.8	1.8	1.2	1.3	1.6	1.8	1.7	1.1	1.1	1.4	1.5	1.5

## 1-2 TPES Self-sufficiency (excluding Nuclear)

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	120.0%	161.9%	196.4%	232.4%	234.7%
Brunei	2186.2%	1088.5%	796.4%	837.0%	623.9%
Cambodia	-	-	82.9%	80.3%	74.8%
China	101.9%	104.9%	101.0%	96.6%	92.3%
India	91.2%	93.6%	86.3%	78.9%	75.0%
Indonesia	234.0%	194.2%	163.7%	151.2%	169.9%
Japan	8.1%	6.5%	4.7%	4.1%	4.3%
Korea	28.4%	17.6%	3.6%	2.4%	2.4%
Lao PDR			91.7%	99.0%	92.4%
Malaysia	120.9%	205.6%	183.0%	155.5%	132.9%
Myanmar	97.8%	101.0%	98.1%	134.7%	149.3%
New Zealand	56.0%	78.7%	88.0%	81.0%	83.7%
Philippines	47.5%	62.3%	50.1%	51.2%	57.9%
Singapore	0.0%	0.0%	0.0%	0.2%	0.2%
Thailand	54.9%	62.1%	58.7%	56.8%	59.2%
Vietnam	90.6%	93.7%	116.0%	129.9%	127.0%
OECD Total	64.7%	69.5%	64.4%	60.6%	59.8%
ERIA Total	78.5%	84.2%	80.4%	80.1%	82.2%

## Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.8	2.1	2.6	3.2	3.3	1.9	2.5	3.1	3.6	3.6	1.5	1.9	2.3	2.8	2.7
Brunei	32.6	14.2	10.6	11.7	8.8	34.0	16.9	12.4	13.0	9.7	27.6	12.5	9.4	10.0	7.3
Cambodia	-	-	1.1	1.1	1.1	-	-	1.3	1.2	1.2	-	-	1.0	1.0	0.9
China	1.5	1.4	1.3	1.3	1.3	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.2	1.1	1.1
India	1.4	1.2	1.1	1.1	1.1	1.4	1.5	1.3	1.2	1.2	1.2	1.1	1.0	0.9	0.9
Indonesia	3.5	2.5	2.2	2.1	2.4	3.6	3.0	2.5	2.3	2.6	3.0	2.2	1.9	1.8	2.0
Japan	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
Korea	0.4	0.2	0.0	0.0	0.0	0.4	0.3	0.1	0.0	0.0	0.4	0.2	0.0	0.0	0.0
Lao PDR	-	-	1.2	1.4	1.3	-	-	1.4	1.5	1.4	-	-	1.1	1.2	1.1
Malaysia	1.8	2.7	2.4	2.2	1.9	1.9	3.2	2.8	2.4	2.1	1.5	2.4	2.2	1.8	1.6
Myanmar	1.5	1.3	1.3	1.9	2.1	1.5	1.6	1.5	2.1	2.3	1.2	1.2	1.2	1.6	1.7
New Zealand	0.8	1.0	1.2	1.1	1.2	0.9	1.2	1.4	1.3	1.3	0.7	0.9	1.0	1.0	1.0
Philippines	0.7	0.8	0.7	0.7	0.8	0.7	1.0	0.8	0.8	0.9	0.6	0.7	0.6	0.6	0.7
Singapore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7
Vietnam	1.4	1.2	1.5	1.8	1.8	1.4	1.5	1.8	2.0	2.0	1.1	1.1	1.4	1.5	1.5

### 1-3 Coal Self-sufficiency

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	185.4%	266.2%	320.6%	377.9%	412.4%
Brunei	-	-	-	-	-
Cambodia	-	-	-	-	0.0%
China	100.7%	101.9%	102.8%	107.0%	102.2%
India	103.5%	102.9%	96.9%	91.3%	87.0%
Indonesia	105.8%	127.1%	363.9%	395.1%	514.5%
Japan	28.2%	13.7%	4.1%	0.5%	0.0%
Korea	82.2%	46.5%	13.0%	4.3%	2.1%
Lao PDR	-	-	24669.2%	14877.4%	2434.6%
Malaysia	0.0%	2.9%	7.6%	5.6%	9.1%
Myanmar	8.7%	24.1%	93.4%	624.8%	541.6%
New Zealand	101.1%	124.0%	164.8%	178.5%	172.3%
Philippines	48.6%	57.7%	30.5%	19.0%	29.8%
Singapore	0.0%	0.0%	0.0%	0.0%	0.0%
Thailand	87.2%	90.3%	81.6%	58.8%	37.2%
Vietnam	120.3%	114.6%	138.7%	173.2%	213.9%
OECD Total	99.7%	98.8%	95.8%	88.7%	90.6%
ERIA Total	95.3%	98.2%	101.2%	106.3%	105.9%

### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.9	2.7	3.3	4.3	4.5	1.9	2.8	3.4	4.0	4.3	1.9	2.7	3.2	3.6	3.9
Brunei	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	0.0
China	1.0	1.0	1.1	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
India	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	0.9	1.1	1.0	1.0	0.9	0.8
Indonesia	1.1	1.3	3.8	4.5	5.7	1.1	1.3	3.8	4.1	5.4	1.1	1.3	3.6	3.7	4.9
Japan	0.3	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0
Korea	0.8	0.5	0.1	0.0	0.0	0.9	0.5	0.1	0.0	0.0	0.9	0.5	0.1	0.0	0.0
Lao PDR	-	-	257.5	167.7	26.9	-	-	258.1	155.7	25.5	-	-	243.7	140.0	23.0
Malaysia	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
Myanmar	0.1	0.2	1.0	7.0	6.0	0.1	0.3	1.0	6.5	5.7	0.1	0.2	0.9	5.9	5.1
New Zealand	1.0	1.3	1.7	2.0	1.9	1.1	1.3	1.7	1.9	1.8	1.1	1.3	1.6	1.7	1.6
Philippines	0.5	0.6	0.3	0.2	0.3	0.5	0.6	0.3	0.2	0.3	0.5	0.6	0.3	0.2	0.3
Singapore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	0.9	0.9	0.9	0.7	0.4	0.9	0.9	0.9	0.6	0.4	0.9	0.9	0.8	0.6	0.4
Vietnam	1.2	1.2	1.4	2.0	2.4	1.3	1.2	1.5	1.8	2.2	1.3	1.2	1.4	1.6	2.0

## 1-4 Crude oil Self-sufficiency

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	68.2%	80.2%	79.7%	91.8%	80.5%
Brunei	-	5926.0%	2648.9%	1528.4%	1293.0%
Cambodia	-	-	-	-	-
China	109.6%	121.5%	100.5%	68.1%	53.7%
India	39.2%	64.6%	51.9%	29.9%	22.5%
Indonesia	533.1%	292.7%	164.9%	118.0%	93.3%
Japan	0.3%	0.3%	0.4%	0.3%	0.4%
Korea	0.0%	0.0%	0.1%	0.5%	0.5%
Lao PDR	-	-	-	-	-
Malaysia	146.9%	297.5%	210.9%	144.3%	126.0%
Myanmar	91.5%	113.3%	63.9%	89.9%	114.7%
New Zealand	9.7%	36.3%	45.1%	28.0%	42.3%
Philippines	1.3%	4.7%	1.3%	3.8%	9.4%
Singapore	0.0%	0.0%	0.0%	0.0%	0.0%
Thailand	0.1%	9.3%	17.8%	22.0%	28.1%
Vietnam	-	-	32235.2%	3827.9%	1462.5%
OECD Total	37.6%	53.1%	48.6%	46.1%	41.9%
ERIA Total	45.1%	59.3%	48.9%	41.0%	35.6%

## Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.8	1.5	1.6	2.0	1.9	1.5	1.7	1.7	2.0	1.7	1.5	1.4	1.6	2.2	2.3
Brunei	-	111.6	54.5	33.1	30.8	-	128.7	57.5	33.2	28.1	-	99.9	54.2	37.3	36.3
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
China	2.9	2.3	2.1	1.5	1.3	2.4	2.6	2.2	1.5	1.2	2.4	2.0	2.1	1.7	1.5
India	1.0	1.2	1.1	0.6	0.5	0.9	1.4	1.1	0.7	0.5	0.9	1.1	1.1	0.7	0.6
Indonesia	14.2	5.5	3.4	2.6	2.2	11.6	6.4	3.6	2.6	2.0	11.8	4.9	3.4	2.9	2.6
Japan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	3.9	5.6	4.3	3.1	3.0	3.2	6.5	4.6	3.1	2.7	3.3	5.0	4.3	3.5	3.5
Myanmar	2.4	2.1	1.3	1.9	2.7	2.0	2.5	1.4	2.0	2.5	2.0	1.9	1.3	2.2	3.2
New Zealand	0.3	2.7	0.9	0.6	1.0	0.2	0.8	1.0	0.6	0.9	0.2	0.6	0.9	0.7	1.2
Philippines	0.0	0.1	0.0	0.1	0.2	0.0	0.1	0.0	0.1	0.2	0.0	0.1	0.0	0.1	0.3
Singapore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	0.0	0.2	0.4	0.5	0.7	0.0	0.2	0.4	0.5	0.6	0.0	0.2	0.4	0.5	0.8
Vietnam	-	-	662.6	83.0	34.9	-	-	700.3	83.2	31.8	-	-	659.8	93.4	41.1

## 1-5 Natural gas Self-sufficiency

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	100.0%	100.0%	142.5%	144.8%	147.2%
Brunei	728.7%	591.4%	462.2%	545.1%	417.8%
Cambodia	-	-	-	-	-
China	100.0%	100.0%	105.1%	106.9%	98.2%
India	100.0%	100.0%	100.0%	94.3%	75.7%
Indonesia	172.1%	290.6%	207.4%	216.1%	207.0%
Japan	25.0%	6.1%	3.9%	3.7%	4.2%
Korea	-	0.0%	0.0%	0.3%	1.1%
Lao PDR	-	-	-	-	-
Malaysia	100.4%	200.8%	199.6%	181.8%	162.9%
Myanmar	100.0%	100.0%	132.9%	411.1%	348.8%
New Zealand	100.0%	100.0%	100.0%	100.0%	100.6%
Philippines	-	-	100.0%	100.0%	100.0%
Singapore	-	-	0.0%	0.0%	0.0%
Thailand	-	100.0%	100.0%	75.0%	72.6%
Vietnam	-	100.0%	100.0%	107.7%	109.3%
OECD Total	97.2%	88.5%	83.1%	77.6%	74.4%
ERIA Total	93.5%	95.7%	97.4%	92.2%	85.6%

## Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.0	1.1	1.7	1.9	2.0	1.2	1.2	1.7	1.7	1.7	1.1	1.0	1.5	1.6	1.7
Brunei	7.5	6.7	5.6	7.0	5.6	8.6	7.0	5.5	6.5	4.9	7.8	6.2	4.7	5.9	4.9
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
China	1.0	1.1	1.3	1.4	1.3	1.2	1.2	1.2	1.3	1.2	1.1	1.0	1.1	1.2	1.1
India	1.0	1.1	1.2	1.2	1.0	1.2	1.2	1.2	1.1	0.9	1.1	1.0	1.0	1.0	0.9
Indonesia	1.8	3.3	2.5	2.8	2.8	2.0	3.4	2.5	2.6	2.5	1.8	3.0	2.1	2.3	2.4
Japan	0.3	0.1	0.0	0.0	0.1	0.3	0.1	0.0	0.0	0.1	0.3	0.1	0.0	0.0	0.0
Korea	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	1.0	2.3	2.4	2.3	2.2	1.2	2.4	2.4	2.2	1.9	1.1	2.1	2.1	2.0	1.9
Myanmar	1.0	1.1	1.6	5.3	4.7	1.2	1.2	1.6	4.9	4.1	1.1	1.0	1.4	4.5	4.1
New Zealand	1.0	1.1	1.2	1.3	1.4	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.1	1.2
Philippines	-	-	1.2	1.3	1.3	-	-	1.2	1.2	1.2	-	-	1.0	1.1	1.2
Singapore	-	-	0.0	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	0.0
Thailand	-	1.1	1.2	1.0	1.0	-	1.2	1.2	0.9	0.9	-	1.0	1.0	0.8	0.8
Vietnam	-	1.1	1.2	1.4	1.5	-	1.2	1.2	1.3	1.3	-	1.0	1.0	1.2	1.3

## 2. Reserve/ Production ratio

### 2-1 Natural Resource Reserve/ Production ratio

(Weighted Average of primary supply of Coal, Crude oil and Natural gas)

Country	1980s	1990s	2000s-1	2000s-2
Australia	182.6	176.9	135.1	115.4
Brunei	29.8	34.2	25.7	24.5
Cambodia	-	-	-	-
China	131.9	80.6	53.3	35.3
India	87.0	158.3	133.9	84.5
Indonesia	92.4	37.5	40.3	49.1
Japan	18.2	33.0	100.5	75.9
Korea	2.3	5.1	5.9	12.4
Lao PDR	-	-	-	-
Malaysia	330.6	38.7	29.5	24.8
Myanmar	108.6	134.8	45.8	31.6
New Zealand	11.7	6.8	17.2	24.9
Philippines	-	-	-	-
Singapore	-	-	-	-
Thailand	51.9	9.4	17.4	16.6
Vietnam	-	36.0	29.0	25.8
OECD Total	-	66.2	60.1	52.2
ERIA Total	109.6	88.6	67.5	49.4

### Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	-	2.7	2.2	2.2	-	2.8	2.2	1.9	1.7	2.0	2.0	2.3
Brunei	-	0.5	0.4	0.5	-	0.5	0.4	0.4	0.3	0.4	0.4	0.5
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	-	1.2	0.9	0.7	-	1.3	0.9	0.6	1.2	0.9	0.8	0.7
India	-	2.4	2.2	1.6	-	2.5	2.2	1.4	0.8	1.8	2.0	1.7
Indonesia	-	0.6	0.7	0.9	-	0.6	0.6	0.8	0.8	0.4	0.6	1.0
Japan	-	0.5	1.7	1.5	-	0.5	1.6	1.2	0.0	0.1	0.1	0.3
Korea	-	0.1	0.1	0.2	-	0.1	0.1	0.2	0.0	0.1	0.1	0.3
Lao PDR	-	0.2	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0.3	0.5	0.5	-	0.6	0.5	0.4	3.0	0.4	0.4	0.5
Myanmar	-	0.4	0.8	0.6	-	2.2	0.7	0.5	1.0	1.5	0.7	0.6
New Zealand	-	0.5	0.3	0.5	-	0.1	0.3	0.4	0.1	0.1	0.3	0.5
Philippines	-	0.6	-	-	-	-	-	-	-	-	-	-
Singapore	-	0.7	-	-	-	-	-	-	-	-	-	-
Thailand	-	0.8	0.3	0.3	-	0.2	0.3	0.3	0.5	0.1	0.3	0.3
Vietnam	-	0.9	0.5	0.5	-	0.6	0.5	0.4	-	0.4	0.4	0.5

## 2-2 Coal Reserve/ Production ratio

Country	1980s	1990s	2000s-1	2000s-2
Australia	403.1	370.0	239.1	193.9
Brunei				
Cambodia				
China	163.4	97.2	66.6	41.8
India	121.9	243.7	228.9	135.7
Indonesia	775.0	171.5	65.8	85.8
Japan	75.0	141.9	370.8	269.9
Korea	5.7	23.0	23.5	44.0
Lao PDR				
Malaysia				
Myanmar				
New Zealand	75.3	63.8	127.1	114.6
Philippines				
Singapore				
Thailand			66.1	74.2
Vietnam			6.8	3.6
OECD Total	-	214.4	204.4	170.1
ERIA Total	186.3	154.8	112.0	71.4

## Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	-	1.7	1.2	1.1	2.0	1.8	1.2	1.0	2.2	2.4	2.1	2.7
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	-	0.5	0.3	0.2	0.8	0.5	0.3	0.2	0.9	0.6	0.6	0.6
India	-	1.1	1.1	0.8	0.6	1.2	1.1	0.7	0.7	1.6	2.0	1.9
Indonesia	-	0.8	0.3	0.5	3.8	0.8	0.3	0.4	4.2	1.1	0.6	1.2
Japan	-	0.7	1.8	1.6	0.4	0.7	1.8	1.3	0.4	0.9	3.3	3.8
Korea	-	0.1	0.1	0.3	0.0	0.1	0.1	0.2	0.0	0.1	0.2	0.6
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Myanmar	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	-	0.3	0.6	0.7	0.4	0.3	0.6	0.6	0.4	0.4	1.1	1.6
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	-	-	0.3	0.4	-	-	0.3	0.4	-	-	0.6	1.0
Vietnam	-	-	0.0	0.0	-	-	0.0	0.0	-	-	0.1	0.1



## 2-3 Crude oil Reserve/ Production ratio

Country	1980s	1990s	2000s-1	2000s-2
Australia	14.1	16.7	17.5	19.2
Brunei	22.6	18.5	15.0	16.2
Cambodia				
China	17.9	14.8	12.4	11.1
India	21.9	22.2	20.6	20.4
Indonesia	56.7	17.6	20.9	23.6
Japan				
Korea				
Lao PDR				
Malaysia	19.3	18.2	17.4	18.7
Myanmar	11.4	33.4	36.0	28.1
New Zealand				5.7
Philippines				
Singapore				
Thailand	7.1	7.4	7.1	4.0
Vietnam	10.0	13.4	19.8	32.1
OECD Total	17.1	14.6	11.3	13.1
ERIA Total	17.1	15.4	14.2	13.0

## Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	0.8	1.1	1.5	1.5	1.0	1.1	1.5	1.5	0.8	1.1	1.2	1.5
Brunei	1	1.3	1.3	1.2	1	1.3	1.3	1.2	1	1.2	1.1	1.2
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	1.0	1.0	1.1	0.8	1.2	1.0	0.9	0.8	1.0	1.0	0.9	0.8
India	1.3	1.5	1.8	1.6	1.5	1.5	1.4	1.4	1.3	1.4	1.4	1.6
Indonesia	3.3	1.2	1.9	1.8	3.9	1.2	1.4	1.6	3.3	1.1	1.5	1.8
Japan	-	-	-	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-	-	-	-
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	1.1	1.2	1.5	1.4	1.3	1.2	1.2	1.3	1.1	1.2	1.2	1.4
Myanmar	0.7	2.3	3.2	2.1	0.8	2.3	2.5	1.9	0.7	2.2	2.5	2.2
New Zealand	-	-	-	0.4	-	-	-	0.4	-	-	-	0.4
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	0.413	0.5	0.6	0.3	0.485	0.5	0.5	0.3	0.4	0.5	0.5	0.5
Vietnam	0.6	0.9	1.8	2.4	0.7	0.9	1.4	2.2	0.6	0.9	1.4	2.5

## 2-4 Natural gas Reserve/ Production ratio

Country	1980s	1990s	2000s-1	2000s-2
Australia	51.8	48.6	72.2	62.3
Brunei	30.6	37.0	29.7	27.0
Cambodia				
China	64.7	72.9	39.7	31.0
India	133.0	40.3	30.4	34.0
Indonesia	112.3	42.6	59.7	58.3
Japan				
Korea				
Lao PDR				
Malaysia	943.4	73.4	48.4	37.6
Myanmar	302.0	224.1	53.4	34.0
New Zealand				9.7
Philippines				
Singapore				
Thailand	246.1	21.2	17.8	11.9
Vietnam		435.4	79.7	64.6
OECD Total	19.1	15.4	14.1	14.4
ERIA Total	95.9	50.1	48.8	41.9

## Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	2.7	3.2	5.1	4.3	3.2	3.0	4.4	3.8	0.5	1.0	1.5	1.5
Brunei	1.6	2.4	2.1	1.9	1.9	2.3	1.8	1.7	0.0	0.7	0.6	0.6
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	3.4	4.7	2.8	2.2	4.0	4.5	2.4	1.9	0.7	1.5	0.8	0.7
India	7.0	2.6	2.2	2.4	8.2	2.5	1.9	2.1	1.4	0.8	0.6	0.8
Indonesia	5.9	2.8	4.2	4.0	6.9	2.6	3.7	3.6	1.2	0.9	1.2	1.4
Japan	-	-	-	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-	-	-	-
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	49.5	4.8	3.4	2.6	58.1	4.5	3.0	2.3	9.8	1.5	1.0	0.9
Myanmar	15.8	14.5	3.8	2.4	18.6	13.8	3.3	2.1	3.1	4.5	1.1	0.8
New Zealand	-	-	-	0.7	-	-	-	0.6	-	-	-	0.2
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	12.9	1.4	1.3	0.8	15.2	1.3	1.1	0.7	2.6	0.4	0.4	0.3
Vietnam	-	28.0	5.7	4.5	-	27.0	4.9	4.0	-	8.7	1.6	1.5

### 3. Reserve/Consumption ratio

#### 3-1 Natural Resource Reserve/ Consumption ratio

(Weighted Average of primary supply of Coal, Crude oil and Natural gas)

Country	1980s	1990s	2000s-1	2000s-2
Australia	450.2	466.3	375.0	333.4
Brunei	1,256.2	273.0	202.3	142.1
Cambodia				
China	128.3	75.5	53.0	31.5
India	81.9	148.1	114.9	69.6
Indonesia	209.3	90.2	97.0	130.5
Japan	1.5	1.0	0.7	0.4
Korea	1.0	0.6	0.2	0.3
Lao PDR				
Malaysia	164.7	108.5	63.2	51.5
Myanmar	130.2	155.4	187.8	112.5
New Zealand	12.6	8.7	24.0	29.7
Philippines				
Singapore				
Thailand	12.6	7.1	12.9	10.3
Vietnam		304.1	75.4	72.3
OECD Total	-	55.8	47.9	41.3
ERIA Total	94.4	75.4	58.5	40.1

#### Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	-	8.4	7.8	8.1	-	9.1	7.3	6.5	4.8	6.2	6.4	8.3
Brunei	-	4.9	4.2	3.4	-	5.3	4.0	2.8	13.3	3.6	3.5	3.5
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	-	1.4	1.1	0.8	-	1.5	1.0	0.3	1.4	1.0	0.9	0.8
India	-	2.7	2.4	1.7	-	2.9	2.2	1.4	0.9	2.0	2.0	1.7
Indonesia	-	1.6	2.0	3.2	-	1.8	1.9	2.6	2.2	1.2	1.7	3.3
Japan	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Korea	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	1.9	1.3	1.2	-	2.1	1.2	1.0	1.7	1.4	1.1	1.3
Myanmar	-	2.8	3.9	2.7	-	3.0	3.7	2.2	1.4	2.1	3.2	2.8
New Zealand	-	0.2	0.5	0.7	-	0.2	0.5	0.6	0.1	0.1	0.4	0.7
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	-	0.1	0.3	0.2	-	0.1	0.3	0.2	0.1	0.1	0.2	0.3
Vietnam	-	5.5	1.6	1.7	-	5.9	1.5	1.4	-	4.0	1.3	1.8

### 3-2 Coal Reserve/ Consumption ratio

Country	1980s	1990s	2000s-1	2000s-2
Australia	1,040.1	1,019.8	721.4	619.8
Brunei	-	-	-	-
Cambodia	-	-	-	-
China	157.6	90.2	67.0	37.9
India	118.2	231.8	203.6	120.0
Indonesia	734.2	401.9	191.0	301.2
Japan	6.1	4.4	2.8	1.4
Korea	2.4	2.7	0.8	0.9
Lao PDR	-	-	-	-
Malaysia	-	-	-	-
Myanmar	-	-	-	-
New Zealand	81.6	81.4	176.9	151.9
Philippines	-	-	-	-
Singapore	-	-	-	-
Thailand	-	-	57.0	42.6
Vietnam	-	-	9.9	6.3
OECD avg.	-	188.4	167.9	142.2
ERIA avg.	172.6	141.9	108.9	66.0

### Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	-	5.4	4.3	4.4	-	5.9	4.2	3.6	6.0	7.2	6.6	9.4
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	-	0.5	0.4	0.3	-	0.5	0.4	0.2	0.9	0.6	0.6	0.6
India	-	1.2	1.2	0.8	-	1.3	1.2	0.7	0.7	1.6	1.9	1.8
Indonesia	-	2.1	1.1	2.1	-	2.3	1.1	1.7	4.3	2.8	1.8	4.6
Japan	-	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	0.0
Korea	-	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	0.0
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Myanmar	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	-	0.4	1.1	1.1	-	0.5	1.0	0.9	0.5	0.6	1.6	2.3
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	-	-	0.3	0.3	-	-	0.3	0.2	-	-	0.5	0.6
Vietnam	-	-	0.1	0.0	-	-	0.1	0.0	-	-	0.1	0.1

### 3-3 Crude oil Reserve/ Consumption ratio

Country	1980s	1990s	2000s-1	2000s-2
Australia	12.1	14.5	17.5	17.1
Brunei	10,681.9	655.8	223.2	200.7
Cambodia	-	-	-	-
China	21.3	15.1	8.6	6.0
India	12.8	11.6	6.1	4.6
Indonesia	64.4	28.7	24.2	22.0
Japan	-	-	-	-
Korea	-	-	-	-
Lao PDR	-	-	-	-
Malaysia	58.1	49.1	27.5	26.8
Myanmar	12.6	19.7	31.6	32.3
New Zealand	-	-	-	3.0
Philippines	-	-	-	-
Singapore	-	-	-	-
Thailand	1.0	1.6	1.6	1.1
Vietnam	-	13,463.2	782.4	651.3
OECD avg.	9.2	7.3	5.4	5.7
ERIA avg.	10.6	8.2	6.5	5.6

### Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	1.3	2.0	3.2	3.0	1.7	2.0	2.4	2.3	1.1	1.8	2.7	3.1
Brunei	1.164	90.1	41.4	35.4	1.459	89.6	30.5	27.4	1.006	80.4	34.4	35.9
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	2.3	2.1	1.6	1.0	2.9	2.1	1.2	0.8	2.0	1.8	1.3	1.1
India	1.4	1.6	1.1	0.8	1.8	1.6	0.8	0.6	1.2	1.4	0.9	0.8
Indonesia	7.0	3.9	4.5	3.9	8.8	3.9	3.3	3.0	6.1	3.5	3.7	3.9
Japan	-	-	-	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-	-	-	-
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	6.3	6.7	5.1	4.7	7.9	6.7	3.8	3.7	5.5	6.0	4.2	4.8
Myanmar	1.4	2.7	5.9	5.7	1.7	2.7	4.3	4.4	1.2	2.4	4.9	5.8
New Zealand	-	-	-	0.5	-	-	-	0.4	-	-	-	0.5
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	0.1	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.2
Vietnam	-	1.85	145.1	114.8	-	1.839	106.9	89.0	-	1.65	120.6	116.5

### 3-4 Natural gas Reserve/ Consumption ratio

Country	1980s	1990s	2000s-1	2000s-2
Australia	64.2	81.7	112.6	100.4
Brunei	200.2	206.5	194.3	125.0
Cambodia	-	-	-	-
China	77.1	89.8	51.0	36.6
India	141.7	45.4	32.6	28.8
Indonesia	574.1	128.8	170.9	155.7
Japan	-	-	-	-
Korea	-	-	-	-
Lao PDR	-	-	-	-
Malaysia	377.7	208.9	114.7	88.6
Myanmar	363.7	274.4	285.2	141.3
New Zealand	-	-	-	10.0
Philippines	-	-	-	-
Singapore	-	-	-	-
Thailand	-	27.5	17.3	11.7
Vietnam	-	2,485.0	99.5	79.0
OECD Total	20.0	15.2	13.0	12.8
ERIA Total	15.9	8.3	7.3	5.8

### Comparison

Country	vs. OECD				vs. OECD (whole periods)				vs. ERIA			
	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2	1980s	1990s	2000s 1	2000s 2
Australia	3.2	5.4	8.7	7.8	4.0	5.1	7.0	6.3	4.0	10	15.5	17.3
Brunei	10	13.6	14.9	9.8	12	12.9	12.1	7.8	13	25	26.7	21.6
Cambodia	-	-	-	-	-	-	-	-	-	-	-	-
China	3.9	5.9	3.9	2.9	4.8	5.6	3.2	2.3	4.8	11	7.0	6.3
India	7.1	3.0	2.5	2.2	8.8	2.8	2.0	1.8	8.9	5	4.5	5.0
Indonesia	28.7	8.5	13.1	12.1	35.8	8.0	10.7	9.7	36.1	15	23.5	26.9
Japan	-	-	-	-	-	-	-	-	-	-	-	-
Korea	-	-	-	-	-	-	-	-	-	-	-	-
Lao PDR	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	18.9	13.7	8.8	6.9	23.5	13.0	7.2	5.5	23.8	25	15.8	15.3
Myanmar	18.2	18.0	21.9	11.0	22.7	17.1	17.8	8.8	22.9	33	39.3	24.4
New Zealand	-	-	-	0.8	-	-	-	0.6	-	-	-	1.7
Philippines	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-	-
Thailand	-	1.8	1.3	0.9	-	1.7	1.1	0.7	-	3	2.4	2.0
Vietnam	-	163	7.7	6.2	-	155	6.2	4.9	-	298	13.7	13.6

#### 4. Diverseness of energy sources

##### 4-1 HHI (Diverseness of energy sources) (TPES + Generation)/2

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	4,572	4,571	5,048	4,917	4,829
Brunei	9,647	8,987	8,653	7,911	8,155
Cambodia	-	-	10,000	9,637	9,589
China	4,066	4,369	5,185	5,331	5,718
India	4,286	4,217	4,175	4,079	3,984
Indonesia	5,310	3,725	2,923	2,802	2,858
Japan	5,127	2,960	2,693	2,567	2,508
Korea	6,286	3,551	3,606	3,377	3,245
Lao PDR	-	-	8,419	8,032	7,467
Malaysia	6,293	4,432	4,020	4,708	4,198
Myanmar	5,801	5,217	5,520	5,136	4,999
New Zealand	4,350	4,082	3,756	3,203	2,882
Philippines	6,127	3,348	3,202	2,338	2,230
Singapore	9,996	9,997	8,123	6,797	7,319
Thailand	5,011	3,261	3,207	4,286	4,168
Vietnam	7,148	5,440	5,869	4,188	3,580
OECD avg.	3,018	2,770	2,633	2,592	2,521
ERIA avg.	3,120	2,648	2,840	3,215	3,662

#### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.7	0.6	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.7	0.6	0.6	0.7	0.8
Brunei	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Cambodia	-	-	0.3	0.3	0.3	-	-	0.3	0.3	0.3	-	-	0.3	0.3	0.4
China	0.7	0.6	0.5	0.5	0.4	0.6	0.6	0.5	0.5	0.5	0.8	0.6	0.5	0.6	0.6
India	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.8	0.9
Indonesia	0.6	0.7	0.9	0.9	0.9	0.5	0.7	0.9	0.9	0.9	0.6	0.7	1.0	1.1	1.3
Japan	0.6	0.9	1.0	1.0	1.0	0.5	0.9	1.0	1.0	1.1	0.6	0.9	1.1	1.3	1.5
Korea	0.5	0.8	0.7	0.8	0.8	0.4	0.7	0.7	0.8	0.8	0.5	0.7	0.8	1.0	1.1
Lao PDR	-	-	0.3	0.3	0.3	-	-	0.3	0.3	0.4	-	-	0.3	0.4	0.5
Malaysia	0.5	0.6	0.7	0.6	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.6	0.7	0.7	0.9
Myanmar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7
New Zealand	0.7	0.7	0.7	0.8	0.9	0.6	0.6	0.7	0.8	0.9	0.7	0.6	0.8	1.0	1.3
Philippines	0.5	0.8	0.8	1.1	1.1	0.4	0.8	0.8	1.1	1.2	0.5	0.8	0.9	1.4	1.6
Singapore	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.5	0.5
Thailand	0.6	0.8	0.8	0.6	0.6	0.5	0.8	0.8	0.6	0.6	0.6	0.8	0.9	0.8	0.9
Vietnam	0.4	0.5	0.4	0.6	0.7	0.4	0.5	0.4	0.6	0.7	0.4	0.5	0.5	0.8	1.0

#### 4-2 HHI (Diverseness of energy sources :TPES)

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	3,773	3,367	3,314	3,317	3,309
Brunei	9,575	8,120	7,475	5,997	6,503
Cambodia	-	-	10,000	9,988	9,978
China	3,807	4,050	4,362	4,274	4,816
India	4,358	3,631	3,147	2,930	2,952
Indonesia	5,134	3,832	3,029	2,531	2,326
Japan	5,866	3,696	3,239	2,906	2,779
Korea	5,406	4,171	4,343	3,591	3,209
Lao PDR	-	-	6,842	6,064	4,935
Malaysia	5,358	3,956	4,084	3,908	3,595
Myanmar	6,901	6,679	6,699	6,140	5,408
New Zealand	2,669	2,148	2,337	2,226	2,086
Philippines	4,828	3,443	3,194	2,479	2,129
Singapore	9,992	9,994	9,648	8,620	7,902
Thailand	4,822	3,642	3,172	3,354	3,180
Vietnam	7,654	7,393	7,077	5,005	3,832
OECD Total	3,486	2,893	2,732	2,673	2,600
ERIA Total	3,084	2,837	2,766	2,799	3,114

#### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9
Brunei	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.5
Cambodia	-	-	0.3	0.3	0.3	-	-	0.3	0.3	0.3	-	-	0.3	0.3	0.3
China	0.9	0.7	0.6	0.6	0.5	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.6	0.7	0.6
India	0.8	0.8	0.9	0.9	0.9	0.7	0.8	0.9	1.0	1.0	0.7	0.8	0.9	1.0	1.1
Indonesia	0.7	0.8	0.9	1.1	1.1	0.6	0.7	0.9	1.1	1.2	0.6	0.7	0.9	1.1	1.3
Japan	0.6	0.8	0.8	0.9	0.9	0.5	0.8	0.9	1.0	1.0	0.5	0.8	0.9	1.0	1.1
Korea	0.6	0.7	0.6	0.7	0.8	0.5	0.7	0.7	0.8	0.9	0.6	0.7	0.6	0.8	1.0
Lao PDR	-	-	0.4	0.4	0.5	-	-	0.4	0.5	0.6	-	-	0.4	0.5	0.6
Malaysia	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.7	0.7	0.8	0.6	0.7	0.7	0.7	0.9
Myanmar	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.6
New Zealand	1.3	1.3	1.2	1.2	1.2	1.1	1.3	1.2	1.3	1.4	1.2	1.3	1.2	1.3	1.5
Philippines	0.7	0.8	0.9	1.1	1.2	0.6	0.8	0.9	1.2	1.3	0.6	0.7	0.9	1.1	1.5
Singapore	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4
Thailand	0.7	0.8	0.9	0.8	0.8	0.6	0.8	0.9	0.9	0.9	0.6	0.8	0.9	0.8	1.0
Vietnam	0.5	0.4	0.4	0.5	0.7	0.4	0.4	0.4	0.6	0.7	0.4	0.4	0.4	0.6	0.8



#### 4-3 HHI (Diverseness of energy sources :electricity)

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	5,371	5,776	6,782	6,516	6,349
Brunei	9,719	9,854	9,832	9,825	9,807
Cambodia	-	-	10,000	9,287	9,201
China	4,325	4,689	6,008	6,388	6,621
India	4,214	4,803	5,204	5,227	5,016
Indonesia	5,487	3,619	2,817	3,072	3,391
Japan	4,388	2,224	2,146	2,227	2,237
Korea	7,166	2,931	2,870	3,164	3,280
Lao PDR	-	-	9,997	10,000	10,000
Malaysia	7,228	4,908	3,957	5,508	4,801
Myanmar	4,700	3,755	4,341	4,131	4,590
New Zealand	6,031	6,016	5,176	4,180	3,679
Philippines	7,427	3,254	3,209	2,196	2,331
Singapore	10,000	10,000	6,599	4,975	6,735
Thailand	5,200	2,881	3,242	5,218	5,155
Vietnam	6,642	3,488	4,660	3,372	3,329
OECD Total	2,549	2,646	2,534	2,510	2,442
ERIA Total	3,156	2,459	2,913	3,631	4,211

#### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.6	0.4	0.4	0.6	0.7
Brunei	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.4	0.4
Cambodia	-	-	0.3	0.3	0.3	-	-	0.2	0.3	0.3	-	-	0.3	0.4	0.5
China	0.6	0.6	0.4	0.4	0.4	0.6	0.5	0.4	0.4	0.4	0.7	0.4	0.4	0.6	0.6
India	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.7	0.5	0.6	0.7	0.8
Indonesia	0.5	0.7	0.9	0.8	0.7	0.4	0.7	0.9	0.8	0.7	0.6	0.7	1.0	1.2	1.2
Japan	0.6	1.2	1.2	1.1	1.1	0.6	1.1	1.1	1.1	1.1	0.7	1.1	1.4	1.6	1.9
Korea	0.4	0.9	0.9	0.8	0.7	0.3	0.8	0.9	0.8	0.7	0.4	0.8	1.0	1.1	1.3
Lao PDR	-	-	0.3	0.3	0.2	-	-	0.2	0.2	0.2	-	-	0.3	0.4	0.4
Malaysia	0.4	0.5	0.6	0.5	0.5	0.3	0.5	0.6	0.4	0.5	0.4	0.5	0.7	0.7	0.9
Myanmar	0.5	0.7	0.6	0.6	0.5	0.5	0.7	0.6	0.6	0.5	0.7	0.7	0.7	0.9	0.9
New Zealand	0.4	0.4	0.5	0.6	0.7	0.4	0.4	0.5	0.6	0.7	0.5	0.4	0.6	0.9	1.1
Philippines	0.3	0.8	0.8	1.1	1.0	0.3	0.8	0.8	1.1	1.1	0.4	0.8	0.9	1.7	1.8
Singapore	0.3	0.3	0.4	0.5	0.4	0.2	0.2	0.4	0.5	0.4	0.3	0.2	0.4	0.7	0.6
Thailand	0.5	0.9	0.8	0.5	0.5	0.5	0.8	0.8	0.5	0.5	0.6	0.9	0.9	0.7	0.8
Vietnam	0.4	0.8	0.5	0.7	0.7	0.4	0.7	0.5	0.7	0.7	0.5	0.7	0.6	1.1	1.3

## 5. Reserve margin of generation capacity

### 5-1 Reserve margin of generation capacity

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	32.6%	36.5%	29.0%	27.5%	25.7%
Brunei					
Cambodia					
China				34.9%	37.0%
India			35.8%	35.5%	36.2%
Indonesia			33.6%	19.0%	10.1%
Japan	23.7%	29.2%	20.0%	24.1%	26.4%
Korea	31.9%	37.9%	14.9%	14.5%	10.3%
Lao PDR					
Malaysia			0.9%	26.4%	32.1%
Myanmar					
New Zealand			31.5%	31.9%	31.3%
Philippines			41.8%	44.7%	43.4%
Singapore					
Thailand			20.5%	24.9%	21.9%
Vietnam		24.3%	34.7%	18.2%	15.1%
OECD Total	31.7%	35.3%	29.0%	29.1%	31.7%
ERIA Total	25.1%	31.0%	21.8%	27.7%	32.2%

### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.0	1.0	1.0	0.9	0.8	1.0	1.2	0.9	0.9	0.8	1.3	1.2	1.3	1.0	0.8
Brunei															
Cambodia															
China				1.2	1.2				1.1	1.2				1.3	1.1
India			1.2	1.2	1.1			1.1	1.1	1.2			1.6	1.3	1.1
Indonesia			1.2	0.7	0.3			1.1	0.6	0.3			1.5	0.7	0.3
Japan	0.7	0.8	0.7	0.8	0.8	0.8	0.9	0.6	0.8	0.8	0.9	0.9	0.9	0.9	0.8
Korea	1.0	1.1	0.5	0.5	0.3	1.0	1.2	0.5	0.5	0.3	1.3	1.2	0.7	0.5	0.3
Lao PDR															
Malaysia			0.0	0.9	1.0			0.0	0.8	1.0			0.0	1.0	1.0
Myanmar															
New Zealand			1.1	1.1	1.0			1.0	1.0	1.0			1.4	1.2	1.0
Philippines			1.4	1.5	1.4			1.3	1.4	1.4			1.9	1.6	1.3
Singapore															
Thailand			0.7	0.9	0.7			0.7	0.8	0.7			0.9	0.9	0.7
Vietnam		0.7	1.2	0.6	0.5		0.8	1.1	0.6	0.5		0.8	1.6	0.7	0.5

## 6. Commercial energy access

### 6-1 Commercial energy access ratio

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	-	98.5%	96.2%	96.3%	96.9%
Brunei	98.1%	99.6%	100.0%	100.0%	100.0%
Cambodia	-	-	21.9%	28.2%	33.7%
China	65.7%	72.6%	79.6%	85.0%	90.5%
India	40.8%	50.6%	62.9%	69.0%	73.7%
Indonesia	38.4%	54.1%	65.3%	71.0%	73.6%
Japan	-	99.5%	99.5%	99.5%	99.5%
Korea	-	-	99.8%	99.9%	99.9%
Lao PDR	-	-	25.7%	31.2%	38.3%
Malaysia	-	94.6%	96.8%	97.6%	98.0%
Myanmar	28.9%	29.5%	26.1%	31.3%	36.4%
New Zealand	97.1%	95.8%	94.9%	93.9%	94.3%
Philippines	65.0%	68.7%	77.9%	85.5%	87.4%
Singapore	99.8%	100.0%	100.0%	100.0%	100.0%
Thailand	76.9%	81.3%	89.2%	91.4%	91.3%
Vietnam	27.3%	26.7%	33.2%	49.7%	59.5%
OECD avg.	99.2%	98.8%	97.9%	97.8%	97.7%
ERIA avg.	58.4%	73.6%	81.8%	85.2%	88.4%

### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	-	1.0	1.0	1.0	1.0	-	1.0	1.0	1.0	1.0	-	1.4	1.2	1.2	1.1
Brunei	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.4	1.2	1.2	1.2
Cambodia	-	-	0.2	0.3	0.3	-	-	0.2	0.3	0.3	-	-	0.3	0.3	0.4
China	0.7	0.7	0.8	0.9	0.9	0.7	0.7	0.8	0.9	0.9	1.1	1.0	1.0	1.0	1.0
India	0.4	0.5	0.6	0.7	0.8	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.9	0.9
Indonesia	0.4	0.5	0.7	0.7	0.8	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.9	0.9
Japan	-	1.0	1.0	1.0	1.0	-	1.0	1.0	1.0	1.0	-	1.4	1.2	1.2	1.2
Korea	-	-	1.0	1.0	1.0	-	-	1.0	1.0	1.0	-	-	1.2	1.2	1.2
Lao PDR	-	-	0.3	0.3	0.4	-	-	0.3	0.3	0.4	-	-	0.3	0.4	0.4
Malaysia	-	1.0	1.0	1.0	1.0	-	1.0	1.0	1.0	1.0	-	1.3	1.2	1.2	1.1
Myanmar	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.3	0.4	0.4
New Zealand	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.3	1.2	1.1	1.1
Philippines	0.7	0.7	0.8	0.9	0.9	0.7	0.7	0.8	0.9	0.9	1.1	0.9	1.0	1.0	1.0
Singapore	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.4	1.2	1.2	1.2
Thailand	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	1.3	1.1	1.1	1.1	1.1
Vietnam	0.3	0.3	0.3	0.5	0.6	0.3	0.3	0.3	0.5	0.6	0.5	0.4	0.4	0.6	0.7

## 7. Energy Intensity

### 7-1 TPES per GDP

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	0.321	0.299	0.280	0.250	0.243
Brunei	0.165	0.313	0.402	0.382	0.483
Cambodia	-	-	1.158	0.879	0.665
China	3.676	2.348	1.307	0.877	0.800
India	1.322	1.248	1.102	0.913	0.776
Indonesia	1.053	0.878	0.871	0.912	0.803
Japan	0.146	0.114	0.109	0.108	0.099
Korea	0.331	0.317	0.348	0.333	0.304
Lao PDR	-	-	1.096	0.897	0.844
Malaysia	0.417	0.463	0.492	0.514	0.511
Myanmar	2.797	2.270	1.958	1.114	0.827
New Zealand	0.269	0.287	0.328	0.286	0.255
Philippines	0.509	0.498	0.535	0.470	0.363
Singapore	0.266	0.222	0.275	0.192	0.124
Thailand	0.658	0.517	0.542	0.612	0.593
Vietnam	2.178	1.911	1.369	1.168	1.074
OECD Total	0.299	0.247	0.217	0.196	0.180
ERIA Total	0.413	0.366	0.356	0.359	0.379

### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.9	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.9	0.9	1.3	1.2	1.3	1.4	1.5
Brunei	1.8	0.8	0.5	0.5	0.4	1.4	0.7	0.6	0.6	0.5	2.5	1.2	0.9	0.9	0.8
Cambodia	-	-	0.2	0.2	0.3	-	-	0.2	0.3	0.3	-	-	0.3	0.4	0.6
China	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.1	0.2	0.3	0.4	0.5
India	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.5
Indonesia	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.5
Japan	2.1	2.2	2.0	1.8	1.8	1.5	2.0	2.1	2.1	2.3	2.8	3.2	3.2	3.3	3.8
Korea	0.9	0.8	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	1.2	1.1	1.0	1.1	1.2
Lao PDR	-	-	0.2	0.2	0.2	-	-	0.2	0.3	0.3	-	-	0.3	0.4	0.4
Malaysia	0.7	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	1.0	0.8	0.7	0.7	0.7
Myanmar	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.2	0.3	0.5
New Zealand	1.1	0.9	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.9	1.5	1.3	1.1	1.2	1.5
Philippines	0.6	0.5	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.6	0.8	0.7	0.7	0.8	1.0
Singapore	1.1	1.1	0.8	1.0	1.4	0.8	1.0	0.8	1.2	1.8	1.5	1.6	1.3	1.8	3.0
Thailand	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.6	0.7	0.6	0.6	0.6
Vietnam	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3

## 7-2 TFEC per GDP

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	0.218	0.197	0.182	0.159	0.109
Brunei	0.026	0.056	0.092	0.095	0.168
Cambodia	-	-	1.027	0.757	0.412
China	3.125	1.933	0.985	0.587	0.371
India	1.186	1.047	0.823	0.622	0.373
Indonesia	0.932	0.753	0.644	0.683	0.431
Japan	0.105	0.076	0.073	0.072	0.050
Korea	0.258	0.223	0.246	0.224	0.148
Lao PDR	-	-	0.996	0.816	0.544
Malaysia	0.283	0.278	0.297	0.319	0.234
Myanmar	2.504	1.967	1.729	0.993	0.565
New Zealand	0.198	0.211	0.249	0.218	0.139
Philippines	0.411	0.340	0.358	0.284	0.158
Singapore	0.105	0.107	0.095	0.097	0.072
Thailand	0.841	0.608	0.630	0.603	0.385
Vietnam	2.067	1.760	1.270	1.039	0.677
OECD avg.	0.222	0.176	0.149	0.135	0.094
ERIA avg.	0.336	0.285	0.259	0.245	0.249

## Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	1.4	1.3	1.2	1.2	1.6	0.7	0.8	0.8	1.0	1.4	1.9	1.8	1.9	2.2	3.4
Brunei	11.4	4.5	2.4	2.1	1.1	5.9	2.8	1.7	1.6	0.9	15.6	6.6	3.8	3.7	2.2
Cambodia	-	-	0.2	0.3	0.4	-	-	0.1	0.2	0.4	-	-	0.3	0.5	0.9
China	0.1	0.1	0.2	0.3	0.5	0.0	0.1	0.2	0.3	0.4	0.1	0.2	0.4	0.6	1.0
India	0.3	0.2	0.3	0.3	0.5	0.1	0.1	0.2	0.2	0.4	0.3	0.3	0.4	0.6	1.0
Indonesia	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.9
Japan	2.9	3.3	3.0	2.7	3.6	1.5	2.0	2.1	2.1	3.1	3.9	4.8	4.8	4.9	7.5
Korea	1.2	1.1	0.9	0.9	1.2	0.6	0.7	0.6	0.7	1.0	1.6	1.6	1.4	1.6	2.5
Lao PDR	-	-	0.2	0.2	0.3	-	-	0.2	0.2	0.3	-	-	0.4	0.4	0.7
Malaysia	1.1	0.9	0.7	0.6	0.8	0.5	0.6	0.5	0.5	0.7	1.4	1.3	1.2	1.1	1.6
Myanmar	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.4	0.7
New Zealand	1.5	1.2	0.9	0.9	1.3	0.8	0.7	0.6	0.7	1.1	2.1	1.7	1.4	1.6	2.7
Philippines	0.7	0.7	0.6	0.7	1.1	0.4	0.5	0.4	0.5	1.0	1.0	1.1	1.0	1.2	2.4
Singapore	2.9	2.3	2.3	2.0	2.5	1.5	1.4	1.6	1.6	2.1	3.9	3.4	3.7	3.6	5.1
Thailand	0.4	0.4	0.3	0.3	0.5	0.2	0.3	0.2	0.3	0.4	0.5	0.6	0.6	0.6	1.0
Vietnam	0.1	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.6

## 8. CO<sub>2</sub> Emissions

### 8-1 CO<sub>2</sub> Emissions per TPES

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	2.90	2.98	3.04	3.23	3.09
Brunei	1.92	1.93	1.96	2.01	1.55
Cambodia	-	-	0.53	0.76	0.91
China	2.19	2.49	2.80	2.87	3.05
India	1.34	1.67	2.02	2.14	2.29
Indonesia	0.93	1.27	1.51	1.77	1.87
Japan	2.76	2.45	2.33	2.33	2.34
Korea	3.07	2.76	2.41	2.24	2.22
Lao PDR	-	-	0.34	0.71	0.67
Malaysia	2.11	2.03	2.27	2.40	2.47
Myanmar	0.50	0.49	0.52	0.68	0.76
New Zealand	1.99	1.78	1.71	1.89	1.92
Philippines	1.56	1.29	1.65	1.79	1.77
Singapore	2.29	2.43	2.04	2.19	2.58
Thailand	1.37	1.63	2.17	2.23	2.24
Vietnam	0.81	0.81	0.92	1.43	1.70
OECD Total	2.71	2.55	2.42	2.38	2.34
ERIA Total	2.17	2.25	2.41	2.50	2.66

### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.9	0.9	0.8	0.7	0.8	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.9
Brunei	1.4	1.3	1.2	1.2	1.5	1.3	1.3	1.3	1.2	1.6	1.1	1.2	1.2	1.2	1.7
Cambodia	-	-	4.6	3.2	2.6	-	-	4.7	3.3	2.7	-	-	4.5	3.3	2.9
China	1.2	1.0	0.9	0.8	0.8	1.1	1.0	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9
India	2.0	1.5	1.2	1.1	1.0	1.9	1.5	1.2	1.2	1.1	1.6	1.4	1.2	1.2	1.2
Indonesia	2.9	2.0	1.6	1.3	1.3	2.7	2.0	1.6	1.4	1.3	2.3	1.8	1.6	1.4	1.4
Japan	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.1	1.1	3.1	0.8	0.9	1.0	1.1	1.1
Korea	0.9	0.9	1.0	1.1	1.1	0.8	0.9	1.0	1.1	1.1	0.7	0.8	1.0	1.1	1.2
Lao PDR	-	-	7.1	3.3	3.5	-	-	7.3	3.5	3.7	-	-	7.1	3.5	4.0
Malaysia	1.3	1.3	1.1	1.0	0.9	1.2	1.2	1.1	1.0	1.0	1.0	1.1	1.1	1.0	1.1
Myanmar	5.4	5.2	4.7	3.5	3.1	4.9	5.0	4.8	3.7	3.3	4.3	4.6	4.7	3.7	3.5
New Zealand	1.4	1.4	1.4	1.3	1.2	1.3	1.4	1.5	1.3	1.3	1.1	1.3	1.4	1.3	1.4
Philippines	1.7	2.0	1.5	1.3	1.3	1.6	1.9	1.5	1.4	1.4	1.4	1.8	1.5	1.4	1.5
Singapore	1.2	1.0	1.2	1.1	0.9	1.1	1.0	1.2	1.1	1.0	0.9	0.9	1.2	1.1	1.0
Thailand	2.0	1.6	1.1	1.1	1.0	1.8	1.5	1.1	1.1	1.1	1.6	1.4	1.1	1.1	1.2
Vietnam	3.3	3.1	2.6	1.7	1.4	3.1	3.1	2.7	1.7	1.5	2.7	2.8	2.6	1.7	1.6

## 8-2 CO<sub>2</sub> Emissions per Fossil fuel primary supply

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	3.15	3.20	3.24	3.43	3.28
Brunei	1.96	1.94	1.96	2.01	2.27
Cambodia	-	-	2.95	2.98	2.95
China	3.38	3.48	3.61	3.50	3.52
India	3.43	3.38	3.30	3.22	3.23
Indonesia	2.64	2.68	2.49	2.89	2.86
Japan	2.90	2.82	2.84	2.85	2.85
Korea	3.10	3.07	2.80	2.74	2.74
Lao PDR	-	-	2.32	3.81	2.09
Malaysia	2.62	2.35	2.47	2.55	2.60
Myanmar	2.93	2.73	2.61	2.54	2.48
New Zealand	2.88	2.61	2.60	2.77	2.88
Philippines	2.93	3.15	3.03	3.11	3.12
Singapore	2.29	2.43	2.02	2.12	2.59
Thailand	2.82	2.98	2.94	2.79	2.79
Vietnam	3.48	3.62	3.40	3.25	3.20
OECD Total	2.93	2.94	2.91	2.88	2.86
ERIA Total	3.14	3.19	3.22	3.20	3.27

## Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.8	0.9	1.0	1.0	1.0	0.9	1.0
Brunei	1.5	1.5	1.5	1.4	1.3	1.5	1.5	1.5	1.4	1.3	1.6	1.6	1.6	1.6	1.4
Cambodia	-	-	1.0	1.0	1.0	-	-	1.0	1.0	1.0	-	-	1.1	1.1	1.1
China	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9
India	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0
Indonesia	1.1	1.1	1.2	1.0	1.0	1.1	1.1	1.2	1.0	1.0	1.2	1.2	1.3	1.1	1.1
Japan	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1
Korea	0.9	1.0	1.0	1.1	1.0	0.9	0.9	1.0	1.1	1.1	1.0	1.0	1.1	1.2	1.2
Lao PDR	-	-	1.3	0.8	1.4	-	-	1.3	0.8	1.4	-	-	1.4	0.8	1.6
Malaysia	1.1	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.2	1.4	1.3	1.3	1.3
Myanmar	1.0	1.1	1.1	1.1	1.2	1.0	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.3	1.3
New Zealand	1.0	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.1	1.2	1.2	1.2	1.1
Philippines	1.0	0.9	1.0	0.9	0.9	1.0	0.9	1.0	0.9	0.9	1.1	1.0	1.1	1.0	1.0
Singapore	1.3	1.2	1.4	1.4	1.1	1.3	1.2	1.4	1.4	1.1	1.4	1.3	1.6	1.5	1.3
Thailand	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.2
Vietnam	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0

### 8-3 CO<sub>2</sub> Emissions per GDP

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	0.93	0.89	0.85	0.81	0.75
Brunei	0.32	0.60	0.79	0.77	1.10
Cambodia	-	-	0.61	0.66	0.60
China	8.07	5.84	3.66	2.52	2.44
India	1.77	2.08	2.23	1.96	1.78
Indonesia	0.98	1.11	1.32	1.61	1.50
Japan	0.40	0.28	0.25	0.25	0.23
Korea	1.02	0.88	0.84	0.75	0.68
Lao PDR	-	-	0.37	0.64	0.56
Malaysia	0.88	0.94	1.12	1.23	1.26
Myanmar	1.41	1.12	1.01	0.76	0.63
New Zealand	0.54	0.51	0.56	0.54	0.49
Philippines	0.80	0.64	0.88	0.84	0.64
Singapore	0.61	0.54	0.56	0.42	0.32
Thailand	0.90	0.84	1.18	1.36	1.33
Vietnam	1.78	1.55	1.26	1.67	1.83
OECD Total	0.81	0.63	0.52	0.47	0.42
ERIA Total	0.90	0.83	0.86	0.90	1.01

### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.9	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	1.0	0.9	1.0	1.1	1.3
Brunei	2.6	1.0	0.7	0.6	0.4	1.8	0.9	0.7	0.7	0.5	2.8	1.4	1.1	1.2	0.9
Cambodia	-	-	0.9	0.7	0.7	-	-	0.9	0.8	0.9	-	-	1.4	1.4	1.7
China	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.4	0.4
India	0.5	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.4	0.5	0.6
Indonesia	0.8	0.6	0.4	0.3	0.3	0.6	0.5	0.4	0.3	0.4	0.9	0.7	0.7	0.6	0.7
Japan	2.0	2.3	2.1	1.9	1.8	1.4	2.0	2.2	2.2	2.4	2.2	3.0	3.4	3.6	4.4
Korea	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.2	1.5
Lao PDR	-	-	1.4	0.7	0.8	-	-	1.5	0.9	1.0	-	-	2.3	1.4	1.8
Malaysia	0.9	0.7	0.5	0.4	0.3	0.6	0.6	0.5	0.5	0.4	1.0	0.9	0.8	0.7	0.8
Myanmar	0.6	0.6	0.5	0.6	0.7	0.4	0.5	0.6	0.7	0.9	0.6	0.7	0.8	1.2	1.6
New Zealand	1.5	1.2	0.9	0.9	0.9	1.0	1.1	1.0	1.0	1.1	1.7	1.6	1.5	1.7	2.1
Philippines	1.0	1.0	0.6	0.6	0.7	0.7	0.9	0.6	0.7	0.9	1.1	1.3	1.0	1.1	1.6
Singapore	1.3	1.2	0.9	1.1	1.3	0.9	1.0	1.0	1.3	1.7	1.5	1.5	1.5	2.1	3.1
Thailand	0.9	0.7	0.4	0.3	0.3	0.6	0.7	0.5	0.4	0.4	1.0	1.0	0.7	0.7	0.8
Vietnam	0.5	0.4	0.4	0.3	0.2	0.3	0.4	0.4	0.3	0.3	0.5	0.5	0.7	0.5	0.6



#### 8-4 CO<sub>2</sub> Emissions per Population

Country	1970s	1980s	1990s	2000s-1	2000s-2
Australia	12.55	13.98	15.87	18.19	18.30
Brunei	8.07	13.33	14.67	13.99	19.49
Cambodia	-	-	0.15	0.23	0.30
China	1.17	1.64	2.32	2.97	4.72
India	0.39	0.55	0.82	1.00	1.24
Indonesia	0.30	0.53	1.01	1.40	1.59
Japan	7.84	7.37	8.94	9.42	9.19
Korea	2.30	3.80	7.32	9.41	10.22
Lao PDR	-	-	0.10	0.23	0.26
Malaysia	1.32	2.04	3.82	5.23	6.30
Myanmar	0.14	0.14	0.14	0.19	0.24
New Zealand	5.64	5.80	6.92	7.97	7.70
Philippines	0.69	0.58	0.80	0.87	0.77
Singapore	4.04	5.99	10.36	10.19	9.61
Thailand	0.57	0.81	2.12	2.94	3.43
Vietnam	0.30	0.30	0.38	0.78	1.15
OECD Total	10.98	10.37	10.57	10.93	10.51
ERIA Total	1.30	1.54	2.09	2.52	3.33

#### Comparison

Country	vs. OECD					vs. OECD (whole periods)					vs. ERIA				
	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2	1970s	1980s	1990s	2000s 1	2000s 2
Australia	0.9	0.7	0.7	0.6	0.6	0.8	0.8	0.7	0.6	0.6	0.1	0.1	0.1	0.1	0.2
Brunei	1.4	0.8	0.7	0.8	0.5	1.3	0.8	0.7	0.8	0.5	0.2	0.1	0.1	0.2	0.2
Cambodia	-	-	69.2	47.2	35.0	-	-	69.8	46.1	35.5	-	-	13.7	10.9	11.1
China	9.3	6.3	4.6	3.7	2.2	9.1	6.5	4.6	3.6	2.3	1.1	0.9	0.9	0.8	0.7
India	28.4	18.8	12.8	11.0	8.5	27.6	19.3	12.9	10.7	8.6	3.4	2.8	2.5	2.5	2.7
Indonesia	36.2	19.4	10.4	7.8	6.6	35.1	20.0	10.5	7.6	6.7	4.3	2.9	2.1	1.8	2.1
Japan	1.4	1.4	1.2	1.2	1.1	1.4	1.4	1.2	1.1	1.2	0.2	0.2	0.2	0.3	0.4
Korea	4.8	2.7	1.4	1.2	1.0	4.6	2.8	1.5	1.1	1.0	0.6	0.4	0.3	0.3	0.3
Lao PDR	-	-	106.0	46.8	40.8	-	-	106.8	45.6	41.3	-	-	21.0	10.8	12.9
Malaysia	8.3	5.1	2.8	2.1	1.7	8.1	5.2	2.8	2.0	1.7	1.0	0.8	0.5	0.5	0.5
Myanmar	77.0	75.5	78.0	56.4	44.4	74.8	77.5	78.6	55.0	45.0	9.1	11.2	15.4	13.0	14.1
New Zealand	1.9	1.8	1.5	1.4	1.4	1.9	1.8	1.5	1.3	1.4	0.2	0.3	0.3	0.3	0.4
Philippines	16.0	17.9	13.3	12.6	13.6	15.6	18.4	13.4	12.3	13.8	1.9	2.7	2.6	2.9	4.3
Singapore	2.7	1.7	1.0	1.1	1.1	2.6	1.8	1.0	1.0	1.1	0.3	0.3	0.2	0.2	0.3
Thailand	19.2	12.8	5.0	3.7	3.1	18.6	13.1	5.0	3.6	3.1	2.3	1.9	1.0	0.9	1.0
Vietnam	36.0	34.4	27.8	14.1	9.1	35.0	35.4	28.1	13.7	9.3	4.3	5.1	5.5	3.2	2.9