

ANNEX

Future ESIs and Evaluations

1-1: Self-Sufficiency (including Nuclear)

Self-sufficiency (including Nuclear)

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035*2	2020/2000s-2	2035/2020	2020	2035*2	2020/2000s-2	2035/2020
Australia	212%	256%	254%	377%	444%	Improved	Improved	377%	444%	=BAU	
Brunei	797%	837%	624%	721%	619%	Improved	Worsened	721%	619%	=BAU	
Cambodia	29%	21%	16%	11%	12%	Worsened	Improved	11%	12%	=BAU	
China	102%	97%	92%	62%	53%	Worsened	Worsened	69%	68%	=BAU	
India	79%	71%	67%	38%	32%	Worsened	Worsened	44%	46%	Worsened	Improved
Indonesia	198%	172%	195%	126%	121%	Worsened	Worsened	148%	161%	Worsened	Improved
Japan	19%	19%	18%	17%	12%	Worsened	Worsened	21%	27%	Improved	Improved
Korea	17%	19%	20%	18%	19%	Worsened	Improved	23%	29%	Improved	Improved
Laos	68%	97%	80%	158%	100%	Improved	Worsened	188%	112%	=BAU	
Malaysia	186%	157%	134%	85%	53%	Worsened	Worsened	97%	65%	=BAU	
Myanmar	93%	211%	235%	248%	209%	Improved	Worsened	253%	234%	=BAU	
New Zealand	87%	80%	83%	79%	81%	Worsened	Improved	108%	113%	Improved	Improved
Philippines	36%	43%	52%	51%	39%	Worsened	Worsened	65%	65%	Improved	No Change
Singapore	0%	0%	0%	0%	1%	No Change	Improved	0%	1%	=BAU	
Thailand	54%	53%	55%	29%	21%	Worsened	Worsened	34%	27%	=BAU	
Vietnam	148%	160%	145%	81%	48%	Worsened	Worsened	88%	57%	=BAU	
ASEAN average	131%	123%	130%	84%		Worsened		94%		=BAU	
ERIA average	81%	81%	83%	63%		Worsened		70%		=BAU	
OECD average*1	72%	72%	72%								

*1 average of 1971-2009

*2 Indonesia, Malaysia, Myanmar: 2030, New Zealand: 2025

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	29.3	35.4	35.1	52.2	61.4	52.2	61.4
Brunei	110.2	115.7	86.3	99.7	85.6	99.7	85.6
Cambodia	4.1	2.9	2.2	1.5	1.7	1.5	1.7
China	14.1	13.4	12.8	8.6	7.4	9.5	9.5
India	10.9	9.8	9.3	5.3	4.4	6.2	6.4
Indonesia	27.3	23.8	27.0	17.5	16.8	20.4	22.3
Japan	2.6	2.6	2.5	2.3	1.7	2.9	3.8
Korea	2.3	2.6	2.7	2.5	2.6	3.2	4.1
Laos	9.4	13.4	11.1	21.8	13.8	25.9	15.5
Malaysia	25.7	21.7	18.5	11.8	7.4	13.4	9.0
Myanmar	12.8	29.2	32.6	34.3	28.9	35.0	32.4
New Zealand	12.1	11.0	11.4	10.9	11.2	15.0	15.6
Philippines	5.0	5.9	7.2	7.1	5.4	9.0	9.0
Singapore	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Thailand	7.4	7.3	7.7	4.1	2.9	4.7	3.7
Vietnam	20.5	22.1	20.1	11.2	6.6	12.2	7.9
ASEAN average	18.1	17.0	18.0	11.6		13.0	
ERIA average	11.2	11.2	11.5	8.7		9.7	

OECD Total = 10

1-2: Self-Sufficiency (excluding Nuclear)

Self-sufficiency (excluding Nuclear)

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035*2	2020/2000s-2	2035/2020	2020	2035*2	2020/2000s-2	2035/2020
Australia	212%	256%	254%	377%	444%	Improved	Improved	377%	444%	=BAU	
Brunei	797%	837%	624%	721%	619%	Improved	Worsened	721%	619%	=BAU	
Cambodia	29%	21%	16%	11%	12%	Worsened	Improved	11%	12%	=BAU	
China	101%	96%	91%	59%	49%	Worsened	Worsened	64%	62%	=BAU	
India	79%	71%	67%	35%	28%	Worsened	Worsened	39%	37%	Worsened	Improved
Indonesia	198%	172%	195%	126%	121%	Worsened	Worsened	148%	160%	Worsened	Improved
Japan	19%	19%	18%	4%	7%	Worsened	Worsened	4%	13%	Improved	Improved
Korea	17%	19%	20%	1%	1%	Worsened	No Change	1%	2%	Worsened	Improved
Laos	68%	97%	80%	158%	100%	Improved	Worsened	188%	112%	=BAU	
Malaysia	186%	157%	134%	85%	53%	Worsened	Worsened	97%	64%	=BAU	
Myanmar	93%	211%	235%	248%	209%	Improved	Worsened	253%	234%	=BAU	
New Zealand	87%	80%	83%	79%	81%	Worsened	Improved	108%	113%	Improved	Improved
Philippines	36%	43%	52%	51%	39%	Worsened	Worsened	65%	65%	Improved	
Singapore	0%	0%	0%	0%	1%	No Change	Improved	0%	1%	=BAU	
Thailand	54%	53%	55%	29%	19%	Worsened	Worsened	34%	25%	=BAU	
Vietnam	148%	160%	145%	79%	44%	Worsened	Worsened	86%	49%	=BAU	
ASEAN average	131%	123%	130%	84%		Worsened		94%		=BAU	
ERIA average	76%	77%	80%	59%		Worsened		64%		=BAU	
OECD average*1	64%	64%									

*1 average of 1971-2009

*2 Indonesia, Malaysia, Myanmar: 2030, New Zealand: 2025

vs. OECD average (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	33.2	40.1	39.8	59.1	69.6	59.1	69.6
Brunei	124.9	131.2	97.8	113.1	97.1	113.1	97.1
Cambodia	4.6	3.3	2.5	1.7	1.9	1.7	1.9
China	15.9	15.1	14.3	9.2	7.6	10.1	9.7
India	12.4	11.1	10.5	5.5	4.4	6.1	5.8
Indonesia	31.0	27.0	30.6	19.8	19.0	23.2	25.0
Japan	3.0	2.9	2.9	0.6	1.1	0.7	2.0
Korea	2.6	2.9	3.1	0.1	0.2	0.1	0.2
Laos	10.6	15.2	12.6	24.8	15.7	29.4	17.6
Malaysia	29.1	24.6	20.9	13.4	8.4	15.2	10.0
Myanmar	14.6	33.1	36.9	38.9	32.7	39.6	36.7
New Zealand	13.7	12.5	13.0	12.4	12.7	17.0	17.7
Philippines	5.6	6.7	8.1	8.0	6.1	10.2	10.2
Singapore	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Thailand	8.4	8.3	8.7	4.6	3.0	5.3	3.9
Vietnam	23.2	25.1	22.8	12.4	7.0	13.5	7.7
ASEAN average	20.5	19.3	20.4	13.1		14.7	
ERIA average	11.9	12.0	12.5	9.2		10.1	

OECD Total = 10

1-3: Coal Self-Sufficiency

Coal Self-sufficiency

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035*2	2020/2000s-2	2035/2020	2020	2035*2	2020/2000s-2	2035/2020
Australia	321%	378%	412%	1086%	2252%	Improved	Improved	1086%	2252%	=BAU	
Brunei											
Cambodia											
China	103%	107%	102%	70%	59%	Worsened	Worsened	76%	81%	Worsened	Improved
India	97%	91%	87%	38%	33%	Worsened	Worsened	45%	52%	Worsened	Improved
Indonesia	364%	395%	515%	408%	406%	Worsened	Worsened	548%	652%	Improved	Improved
Japan	4%	1%	0%								
Korea	13%	4%	2%								
Laos	24669%	14877%	2435%								
Malaysia	8%	6%	9%	4%	3%	Worsened	Worsened	5%	4%	=BAU	
Myanmar	93%	625%	542%	170%	158%	Worsened	Worsened	155%	194%	Worsened	Improved
New Zealand	165%	179%	172%	266%	293%	Improved	Improved	266%	325%	Improved	Improved
Philippines	31%	19%	30%	43%	20%	Improved	Worsened	57%	55%	Improved	Worsened
Singapore											
Thailand	82%	59%	37%	20%	12%	Worsened	Worsened	23%	15%	=BAU	
Vietnam	139%	173%	214%	90%	55%	Worsened	Worsened	104%	69%	=BAU	
ASEAN average	171%	203%	260%	181%		Worsened		215%		=BAU	
ERIA average	101%	106%	106%	78%		Worsened		87%		=BAU	
OECD average*1	96%	96%	96%								

*1 average of 1971-2009

*2 Indonesia, Malaysia, Myanmar: 2030, New Zealand: 2025

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	33.5	39.5	43.2	113.7	235.7	113.7	235.7
Brunei							
Cambodia							
China	10.8	11.2	10.7	7.4	6.2	8.0	8.5
India	10.1	9.6	9.1	3.9	3.4	4.7	5.4
Indonesia	38.1	41.3	53.8	42.7	42.4	57.4	68.2
Japan	0.4	0.1	0.0				
Korea	1.4	0.5	0.2				
Laos	2,581.4	1,556.8	254.8				
Malaysia	0.8	0.6	1.0	0.4	0.3	0.5	0.4
Myanmar	9.8	65.4	56.7	17.8	16.6	16.2	20.3
New Zealand	17.2	18.7	18.0	27.8	30.6	27.8	34.0
Philippines	3.2	2.0	3.1	4.5	2.1	6.0	5.7
Singapore							
Thailand	8.5	6.2	3.9	2.1	1.2	2.4	1.6
Vietnam	14.5	18.1	22.4	9.4	5.8	10.9	7.2
ASEAN average	17.9	21.3	27.2	19.0		22.5	
ERIA average	10.6	11.1	11.1	8.2		9.1	

OECD Total = 10

1-4: Crude Oil Self-Sufficiency

Crude oil Self-sufficiency

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035*2	2020/2000s-2	2035/2020	2020	2035*2	2020/2000s-2	2035/2020
Australia	87%	93%	64%	32%	13%	Worsened	Worsened	32%	13%	=BAU	
Brunei	2918%	1672%	1375%	1023%	802%	Worsened	Worsened	1023%	802%	=BAU	
Cambodia											
China	96%	64%	52%	32%	20%	Worsened	Worsened	33%	24%	=BAU	
India	44%	32%	27%	16%	6%	Worsened	Worsened	17%	8%	=BAU	
Indonesia	182%	102%	73%	28%	12%	Worsened	Worsened	29%	14%	=BAU	
Japan	0%	0%	0%								
Korea	0%	1%	1%								
Laos											
Malaysia	196%	162%	144%	58%	29%	Worsened	Worsened	73%	38%	=BAU	
Myanmar	51%	47%	66%	166%	116%	Improved	Worsened	171%	125%	=BAU	
New Zealand	48%	26%	35%	74%	86%	Improved	Improved	78%	95%	=BAU	
Philippines	1%	3%	7%	0%	0%	Worsened	No Change	53%	52%	Improved	Worsened
Singapore											
Thailand	17%	27%	38%	18%	12%	Worsened	Worsened	22%	16%	=BAU	
Vietnam	177%	183%	121%	62%	33%	Worsened	Worsened	65%	35%	=BAU	
ASEAN average	108%	84%	74%	33%		Worsened		40%		=BAU	
ERIA average	48%	41%	37%	24%		Worsened		26%		=BAU	
OECD average*1	46%	46%	46%								

*1 average of 1971-2009

*2 Indonesia, Malaysia, Myanmar: 2030, New Zealand: 2025

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	18.8	20.0	13.8	6.9	2.8	6.9	2.8
Brunei	629.4	360.6	296.5	220.7	172.9	220.7	172.9
Cambodia							
China	20.7	13.9	11.3	6.8	4.3	7.2	5.2
India	9.5	6.8	5.8	3.4	1.4	3.7	1.8
Indonesia	39.2	22.0	15.8	6.1	2.5	6.2	3.0
Japan	0.1	0.1	0.1				
Korea	0.0	0.1	0.1				
Laos							
Malaysia	42.3	34.9	31.0	12.5	6.3	15.7	8.1
Myanmar	10.9	10.2	14.3	35.9	25.1	36.9	26.9
New Zealand	10.2	5.5	7.6	16.0	18.6	16.9	20.4
Philippines	0.3	0.7	1.5	0.0	0.0	11.5	11.3
Singapore							
Thailand	3.7	5.9	8.2	4.0	2.6	4.7	3.5
Vietnam	38.2	39.5	26.1	13.5	7.2	14.1	7.5
ASEAN average	23.2	18.2	16.0	7.2		8.6	
ERIA average	10.3	8.8	8.0	5.2		5.7	

OECD Total = 10

1-5: Natural Gas Self-Sufficiency

Natural gas Self-sufficiency

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035*2	2020/2000s-2	2035/2020	2020	2035*2	2020/2000s-2	2035/2020
Australia	143%	145%	147%	346%	402%	Improved	Improved	346%	402%	=BAU	
Brunei	462%	545%	418%	632%	560%	Improved	Worsened	632%	560%	=BAU	
Cambodia											
China	105%	107%	100%	49%	48%	Worsened	Improved	70%	72%	=BAU	
India	100%	94%	76%	75%	56%	Worsened	Worsened	75%	58%	=BAU	
Indonesia	207%	216%	207%	40%	4%	Worsened	Worsened	50%	5%	=BAU	
Japan	4%	4%	4%								
Korea	0%	0%	0%								
Laos											
Malaysia	186%	157%	134%	199%	128%			203%	147%		
Myanmar	133%	411%	349%	596%	449%	Improved	Worsened	618%	591%	=BAU	
New Zealand	100%	100%	101%	96%	81%	Worsened	Worsened	108%	90%	Improved	Worsened
Philippines	100%	100%	100%	90%	73%	Worsened	Worsened	50%	50%	Worsened	
Singapore											
Thailand	100%	75%	73%	72%	42%	Worsened	Worsened	87%	58%	Improved	Worsened
Vietnam	100%	108%	109%	92%	34%	Worsened	Worsened	101%	39%	=BAU	
ASEAN average	190%	167%	149%	101%		Worsened		116%		=BAU	
ERIA average	97%	92%	86%	67%		Worsened		82%		=BAU	
OECD average*1	84%	84%	84%								

*1 average of 1971-2009

*2 Indonesia, Malaysia, Myanmar: 2030, New Zealand: 2025

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	16.9	17.1	17.4	41.0	47.5	41.0	47.5
Brunei	54.7	64.5	49.5	74.9	66.3	74.9	66.3
Cambodia							
China	12.4	12.7	11.8	5.8	5.7	8.2	8.5
India	11.8	11.2	9.0	8.9	6.6	8.9	6.9
Indonesia	24.6	25.6	24.5	4.7	0.4	5.9	0.6
Japan	0.5	0.4	0.5				
Korea	0.0	0.0	0.0				
Laos							
Malaysia	22.0	18.6	15.8	23.6	15.1	24.0	17.4
Myanmar	15.7	48.7	41.3	70.6	53.2	73.2	70.0
New Zealand	11.8	11.8	11.9	11.3	9.6	12.8	10.6
Philippines	11.8	11.8	11.8	10.6	8.6	5.9	5.9
Singapore							
Thailand	11.8	8.9	8.6	8.5	5.0	10.3	6.9
Vietnam	11.8	12.7	12.9	10.9	4.0	11.9	4.6
ASEAN average	22.5	19.8	17.7	11.9		13.8	
ERIA average	11.5	10.9	10.1	8.0		9.7	

OECD Total = 10

2-1: Diversity of TPES

HHI of TPES Diversity

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	3,540	3,554	3,441	3,177	3,346	Improved	Worsened	3,177	3,346	=BAU	
Brunei	7,647	6,160	6,620	6,611	6,250	Improved	Improved	6,657	6,504	Worsened	Improved
Cambodia	6,546	7,295	7,733	3,719	3,783	Improved	Worsened	3,694	3,705	=BAU	
China	6,161	5,525	5,729	4,421	3,868	Improved	Improved	4,332	3,307	=BAU	
India	4,284	4,133	4,213	4,000	3,856	Improved	Improved	3,618	2,997	=BAU	
Indonesia	3,898	3,435	3,175	2,743	2,608	Improved	Improved	2,854	2,552	=BAU	
Japan	3,543	3,156	2,909	2,538	2,576	Improved	Worsened	2,145	1,855	Improved	Improved
Korea	4,357	3,597	3,216	2,668	2,591	Improved	Improved	2,593	2,517	=BAU	
Laos	3,361	2,939	2,959	4,014	3,559	Worsened	Improved	4,086	3,644	=BAU	
Malaysia	4,425	4,012	3,712	3,607	3,530	Improved	Improved	3,274	3,217	=BAU	
Myanmar	3,222	3,628	3,816	2,605	3,122	Improved	Worsened	2,604	3,033	=BAU	
New Zealand	2,520	2,549	2,463	2,128	2,322	Improved	Worsened	2,061	2,071	=BAU	
Philippines	4,106	3,105	2,593	2,719	3,090	Worsened	Worsened	2,541	2,522	Improved	Improved
Singapore	9,008	6,986	5,229	6,746	6,263	Worsened	Improved	6,809	6,369	=BAU	
Thailand	3,536	3,380	3,107	2,653	2,536	Improved	Improved	2,642	2,502	=BAU	
Vietnam	3,370	3,174	3,040	3,352	3,613	Worsened	Worsened	3,190	3,092	Worsened	Improved
ASEAN average	3,841	3,368	3,012	2,740	2,650	Improved	Improved	2,707	2,493	=BAU	
ERIA average	3,598	3,522	3,788	3,480	3,246	Improved	Improved	3,329	2,719	=BAU	
OECD average*1	2,934	2,934	2,934								

*1 average of 1971-2009

vs. OECD average (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	8.3	8.3	8.5	9.2	8.8	9.2	8.8
Brunei	3.8	4.8	4.4	4.4	4.7	4.4	4.5
Cambodia	4.5	4.0	3.8	7.9	7.8	7.9	7.9
China	4.8	5.3	5.1	6.6	7.6	6.8	8.9
India	6.9	7.1	7.0	7.3	7.6	8.1	9.8
Indonesia	7.5	8.5	9.2	10.7	11.3	10.3	11.5
Japan	8.3	9.3	10.1	11.6	11.4	13.7	15.8
Korea	6.7	8.2	9.1	11.0	11.3	11.3	11.7
Laos	8.7	10.0	9.9	7.3	8.2	7.2	8.1
Malaysia	6.6	7.3	7.9	8.1	8.3	9.0	9.1
Myanmar	9.1	8.1	7.7	11.3	9.4	11.3	9.7
New Zealand	11.6	11.5	11.9	13.8	12.6	14.2	14.2
Philippines	7.1	9.5	11.3	10.8	9.5	11.5	11.6
Singapore	3.3	4.2	5.6	4.3	4.7	4.3	4.6
Thailand	8.3	8.7	9.4	11.1	11.6	11.1	11.7
Vietnam	8.7	9.2	9.7	8.8	8.1	9.2	9.5
ASEAN average	7.6	8.7	9.7	10.7	11.1	10.8	11.8
ERIA average	8.2	8.3	7.7	8.4	9.0	8.8	10.8

Score is calculated by inverse of ESI

OECD Total = 10

2-2: Diversity of Power Generation

HHI of Power generation Diversity

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	6,782	6,517	6,351	3,730	2,728	Improved	Improved	3,730	2,728	=BAU	
Brunei	9,832	9,825	9,807	10,000	10,000	Worsened	No Change	9,546	9,132	Improved	Improved
Cambodia	10,000	9,287	9,201	5,308	5,446	Improved	Worsened	5,356	5,360	=BAU	
China	6,008	6,388	6,621	4,602	4,064	Improved	Improved	4,311	2,892	=BAU	
India	5,204	5,227	5,017	4,614	4,900	Improved	Worsened	3,787	3,032	Improved	Improved
Indonesia	2,518	2,729	2,955	2,547	2,842	Improved	Worsened	2,469	2,225	Improved	Improved
Japan	2,146	2,227	2,239	2,210	2,637	Improved	Worsened	2,145	1,855	Improved	Improved
Korea	2,870	3,164	3,280	3,311	3,413	Worsened	Worsened	3,300	3,397	=BAU	
Laos	10,000	10,000	10,000	5,911	6,640	Improved	Worsened	5,911	6,640	=BAU	
Malaysia	3,957	5,508	4,801	4,166	4,524	Improved	Worsened	3,794	3,844	=BAU	
Myanmar	4,341	4,131	4,590	3,741	3,794	Improved	Worsened	3,586	2,924	Improved	Improved
New Zealand	5,176	4,173	3,642	3,361	2,992	Improved	Improved	3,365	3,306	=BAU	
Philippines	3,209	2,196	2,327	3,831	5,099	Worsened	Worsened	3,507	3,828	=BAU	
Singapore	6,599	4,975	6,735	6,665	6,603	Improved	Improved	6,668	6,620	=BAU	
Thailand	3,242	5,218	5,155	4,971	5,101	Improved	Worsened	4,909	4,790	Improved	Improved
Vietnam	4,660	3,372	3,329	3,418	4,222	Worsened	Worsened	3,155	3,291	Improved	Worsened
ASEAN average	2,634	2,983	3,179	3,052	3,304	Improved	Worsened	2,908	2,736	Improved	Improved
ERIA average	2,913	3,631	4,211	3,717	3,694	Improved	Improved	3,332	2,503	=BAU	
OECD average*1	2,441	2,441	2,441								

*1 average of 1971-2009

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	3.6	3.7	3.8	6.5	8.9	6.5	8.9
Brunei	2.5	2.5	2.5	2.4	2.4	2.6	2.7
Cambodia	2.4	2.6	2.7	4.6	4.5	4.6	4.6
China	4.1	3.8	3.7	5.3	6.0	5.7	8.4
India	4.7	4.7	4.9	5.3	5.0	6.4	8.1
Indonesia	9.7	8.9	8.3	9.6	8.6	9.9	11.0
Japan	11.4	11.0	10.9	11.0	9.3	11.4	13.2
Korea	8.5	7.7	7.4	7.4	7.2	7.4	7.2
Laos	2.4	2.4	2.4	4.1	3.7	4.1	3.7
Malaysia	6.2	4.4	5.1	5.9	5.4	6.4	6.3
Myanmar	5.6	5.9	5.3	6.5	6.4	6.8	8.3
New Zealand	4.7	5.8	6.7	7.3	8.2	7.3	7.4
Philippines	7.6	11.1	10.5	6.4	4.8	7.0	6.4
Singapore	3.7	4.9	3.6	3.7	3.7	3.7	3.7
Thailand	7.5	4.7	4.7	4.9	4.8	5.0	5.1
Vietnam	5.2	7.2	7.3	7.1	5.8	7.7	7.4
ASEAN average	9.3	8.2	7.7	8.0	7.4	8.4	8.9
ERIA average	8.4	6.7	5.8	6.6	6.6	7.3	9.8

Score is calculated by inverse of ESI

OECD Total = 10

3-1: TPES/GDP

TPES/GDP

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	0.24	0.21	0.21	0.17	0.11	Improved	Improved	0.17	0.11	=BAU	
Brunei	0.40	0.38	0.48	0.41	0.33	Improved	Improved	0.36	0.23	=BAU	
Cambodia	0.20	0.20	0.19	0.21	0.19	Worsened	Improved	0.18	0.17	Improved	Improved
China	1.04	0.75	0.72	0.51	0.36	Improved	Improved	0.48	0.29	=BAU	
India	0.69	0.63	0.57	0.39	0.30	Improved	Improved	0.36	0.24	=BAU	
Indonesia	0.57	0.65	0.59	0.53	0.52	Improved	Improved	0.44	0.38	=BAU	
Japan	0.11	0.11	0.10	0.08	0.07	Improved	Improved	0.08	0.06	=BAU	
Korea	0.35	0.33	0.30	0.25	0.21	Improved	Improved	0.25	0.19	=BAU	
Laos	0.30	0.30	0.34	0.62	0.36	Worsened	Improved	0.60	0.34	=BAU	
Malaysia	0.48	0.50	0.50	0.41	0.43	Improved	Worsened	0.36	0.35	Improved	Improved
Myanmar	0.51	0.35	0.30	0.25	0.22	Improved	Improved	0.25	0.19	=BAU	
New Zealand	0.31	0.27	0.24	0.22	0.20	Improved	Improved	0.21	0.17	=BAU	
Philippines	0.42	0.40	0.32	0.20	0.15	Improved	Improved	0.19	0.15	=BAU	
Singapore	0.27	0.19	0.12	0.18	0.13	Worsened	Improved	0.18	0.13	=BAU	
Thailand	0.54	0.61	0.59	0.56	0.56	Improved	No Change	0.49	0.43	Improved	Improved
Vietnam	0.45	0.58	0.64	0.69	0.59	Worsened	Improved	0.63	0.54	Improved	Improved
ASEAN average	0.48	0.50	0.46	0.42	0.40	Improved	Improved	0.37	0.32	=BAU	
ERIA average	0.29	0.31	0.34	0.32	0.27	Improved	Improved	0.30	0.22	=BAU	
OECD average*1	0.22	0.22	0.22								

*1 average of 1971-2009

vs. OECD average (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	9.2	10.4	10.4	12.9	20.9	12.9	20.9
Brunei	5.5	5.8	4.6	5.4	6.8	6.1	9.6
Cambodia	11.0	11.0	11.4	10.7	11.7	12.0	12.9
China	2.1	3.0	3.1	4.3	6.2	4.7	7.6
India	3.2	3.5	3.9	5.6	7.4	6.2	9.4
Indonesia	3.9	3.4	3.7	4.2	4.3	5.0	5.8
Japan	20.4	20.6	22.6	26.4	33.1	27.8	37.9
Korea	6.4	6.7	7.3	8.7	10.4	9.0	11.4
Laos	7.3	7.3	6.4	3.6	6.2	3.7	6.5
Malaysia	4.7	4.4	4.4	5.4	5.2	6.1	6.3
Myanmar	4.3	6.4	7.4	8.8	10.2	8.9	11.5
New Zealand	7.1	8.2	9.2	10.0	11.2	10.6	13.4
Philippines	5.3	5.5	7.0	10.8	14.5	11.5	14.9
Singapore	8.1	11.5	17.8	12.0	16.6	12.2	17.1
Thailand	4.1	3.6	3.7	3.9	4.0	4.5	5.1
Vietnam	4.9	3.8	3.5	3.2	3.8	3.5	4.1
ASEAN average	4.6	4.4	4.8	5.3	5.5	6.0	6.8
ERIA average	7.6	7.2	6.6	6.9	8.2	7.4	10.1

Score is calculated by inverse of ESI

OECD Total = 10

3-2: TFEC/GDP

TEFC/GDP

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	0.14	0.12	0.12	0.13	0.08	Worsened	Improved	0.13	0.08	=BAU	
Brunei	0.09	0.10	0.23	0.22	0.20	Improved	Improved	0.20	0.14	=BAU	
Cambodia	0.17	0.18	0.17	0.14	0.14	Improved	No Change	0.12	0.12	=BAU	
China	0.72	0.46	0.44	0.32	0.22	Improved	Improved	0.30	0.19	=BAU	
India	0.41	0.34	0.31	0.23	0.18	Improved	Improved	0.21	0.15	=BAU	
Indonesia	0.34	0.42	0.37	0.38	0.38	Worsened	No Change	0.33	0.31	Improved	Improved
Japan	0.07	0.07	0.06	0.05	0.04	Improved	Improved	0.05	0.04	=BAU	
Korea	0.25	0.22	0.20	0.16	0.13	Improved	Improved	0.16	0.12	=BAU	
Laos	0.18	0.20	0.23	0.25	0.22	Worsened	Improved	0.24	0.20	=BAU	
Malaysia	0.28	0.31	0.30	0.32	0.33	Worsened	Worsened	0.28	0.27	Improved	Improved
Myanmar	0.28	0.23	0.22	0.16	0.15	Improved	Improved	0.15	0.14	=BAU	
New Zealand	0.23	0.20	0.17	0.15	0.12	Improved	Improved	0.14	0.11	=BAU	
Philippines	0.24	0.22	0.17	0.11	0.09	Improved	Improved	0.10	0.08	=BAU	
Singapore	0.09	0.10	0.10	0.15	0.11	Worsened	Improved	0.15	0.11	=BAU	
Thailand	0.32	0.39	0.37	0.43	0.44	Worsened	Worsened	0.38	0.34	Worsened	Improved
Vietnam	0.35	0.45	0.50	0.50	0.40	No Change	Improved	0.47	0.38	Improved	Improved
ASEAN average	0.28	0.31	0.29	0.31	0.30	Worsened	Improved	0.27	0.25	Improved	Improved
ERIA average	0.19	0.19	0.20	0.20	0.17	No Change	Improved	0.19	0.15	Improved	Improved
OECD average*1	0.15	0.15	0.15								

*1 average of 1971-2009

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	10.7	12.7	13.2	12.2	18.4	12.2	18.4
Brunei	16.8	16.2	6.8	7.0	7.7	7.8	11.0
Cambodia	9.3	8.7	9.3	11.2	11.4	12.6	13.2
China	2.2	3.4	3.6	4.9	7.0	5.1	8.0
India	3.7	4.6	5.0	6.9	8.6	7.3	10.3
Indonesia	4.5	3.7	4.2	4.0	4.0	4.7	5.1
Japan	21.3	21.6	23.9	28.3	36.1	29.8	41.4
Korea	6.3	6.9	7.8	9.6	11.6	9.9	12.7
Laos	8.5	7.8	6.7	6.2	7.0	6.6	7.7
Malaysia	5.5	5.0	5.2	4.9	4.6	5.6	5.8
Myanmar	5.5	6.8	6.9	10.0	10.5	10.5	11.4
New Zealand	6.6	7.7	9.0	10.4	12.7	10.8	14.1
Philippines	6.4	7.1	9.3	13.6	17.3	14.8	18.9
Singapore	16.3	16.0	15.8	10.4	14.1	10.5	14.4
Thailand	4.8	4.0	4.2	3.6	3.6	4.1	4.5
Vietnam	4.4	3.4	3.1	3.1	3.8	3.3	4.1
ASEAN average	5.5	4.9	5.3	5.0	5.2	5.7	6.3
ERIA average	8.1	8.2	7.6	7.6	9.0	8.0	10.4

Score is calculated by inverse of ESI

OECD Total = 10

4-1: CO₂ Emission/TPES

CO₂ Emission/TPES

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	0.96	1.04	0.96	0.58	0.51	Improved	Improved	0.58	0.51	=BAU	
Brunei	0.54	0.55	0.62	0.57	0.57	Improved	No Change	0.55	0.55	Improved	
Cambodia	0.83	0.90	0.85	0.89	0.87	Worsened	Improved	0.92	0.87	=BAU	
China	0.96	0.92	0.92	0.85	0.81	Improved	Improved	0.83	0.72	=BAU	
India	0.87	0.84	0.85	0.84	0.84	Improved	No Change	0.80	0.74	Improved	Improved
Indonesia	0.63	0.71	0.69	0.66	0.68	Improved	Worsened	0.62	0.63	=BAU	
Japan	0.64	0.64	0.64	0.64	0.68	No Change	Worsened	0.60	0.54	Improved	Improved
Korea	0.66	0.62	0.61	0.58	0.57	Improved	Improved	0.52	0.44	=BAU	
Laos	0.34	0.57	0.45	1.26	0.97	Worsened	Improved	1.24	0.98	=BAU	
Malaysia	0.64	0.67	0.69	0.78	0.80	Worsened	Worsened	0.74	0.72	Worsened	Improved
Myanmar	0.54	0.59	0.57	0.57	0.66	No Change	Worsened	0.57	0.63	=BAU	
New Zealand	0.52	0.56	0.56	0.40	0.32	Improved	Improved	0.39	0.31	=BAU	
Philippines	0.56	0.56	0.55	0.66	0.76	Worsened	Worsened	0.61	0.62	=BAU	
Singapore	0.55	0.58	0.70	0.46	0.49	Improved	Worsened	0.46	0.48	=BAU	
Thailand	0.67	0.68	0.67	0.47	0.45	Improved	Improved	0.46	0.44	=BAU	
Vietnam	0.75	0.78	0.78	0.86	0.88	Worsened	Worsened	0.83	0.81	Worsened	Improved
ASEAN average	0.63	0.67	0.68	0.65	0.68	Improved	Worsened	0.62	0.63	=BAU	
ERIA average	0.81	0.80	0.82	0.79	0.77	Improved	Improved	0.76	0.68	=BAU	
OECD average*1	0.69	0.69	0.69								

*1 average of 1971-2009

vs. OECD average (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	7.2	6.7	7.2	12.0	13.5	12.0	13.5
Brunei	12.9	12.6	11.1	12.2	12.1	12.7	12.6
Cambodia	8.3	7.7	8.1	7.8	8.0	7.5	7.9
China	7.2	7.5	7.5	8.1	8.6	8.3	9.6
India	8.0	8.2	8.1	8.2	8.2	8.6	9.3
Indonesia	11.0	9.8	9.9	10.5	10.1	11.1	10.9
Japan	10.8	10.8	10.7	10.7	10.2	11.4	12.8
Korea	10.5	11.1	11.4	11.8	12.2	13.2	15.6
Laos	20.5	12.0	15.2	5.5	7.1	5.5	7.0
Malaysia	10.8	10.3	10.0	8.8	8.7	9.4	9.7
Myanmar	12.8	11.7	12.2	12.0	10.5	12.2	10.9
New Zealand	13.4	12.3	12.4	17.2	21.5	17.7	22.2
Philippines	12.4	12.4	12.5	10.4	9.1	11.2	11.1
Singapore	12.5	11.9	9.8	15.0	14.0	15.2	14.2
Thailand	10.3	10.2	10.3	14.5	15.2	14.8	15.8
Vietnam	9.2	8.9	8.9	8.1	7.9	8.3	8.5
ASEAN average	11.0	10.3	10.1	10.7	10.2	11.2	11.0
ERIA average	8.5	8.6	8.4	8.8	9.0	9.1	10.2

Score is calculated by inverse of ESI

OECD Total = 10

4-2: CO₂ Emission/Fossil Fuel Primary Supply

CO₂ Emission/Fossil fuel primary supply

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	0.88	0.94	0.89	0.61	0.56	Improved	Improved	0.61	0.56	=BAU	
Brunei	0.54	0.55	0.62	0.57	0.57	Improved	No Change	0.55	0.55	=BAU	
Cambodia	0.80	0.81	0.80	0.92	0.92	Worsened	No Change	0.92	0.93	Worsened	Worsened
China	0.98	0.95	0.96	0.92	0.90	Improved	Improved	0.92	0.87	=BAU	
India	0.90	0.88	0.88	0.90	0.90	Worsened	No Change	0.89	0.87	Worsened	Improved
Indonesia	0.68	0.79	0.78	0.78	0.81	No Change	Worsened	0.74	0.78	Improved	Worsened
Japan	0.78	0.78	0.78	0.78	0.78	No Change	No Change	0.78	0.76	No Change	Improved
Korea	0.76	0.75	0.75	0.72	0.71	Improved	Improved	0.69	0.64	=BAU	
Laos	0.09	0.19	0.17	1.10	1.03	Worsened	Improved	1.09	1.03	=BAU	
Malaysia	0.67	0.70	0.71	0.80	0.80	Worsened	No Change	0.77	0.76	Worsened	Improved
Myanmar	0.71	0.69	0.68	0.78	0.77	Worsened	Improved	0.77	0.77	Worsened	No Change
New Zealand	0.71	0.75	0.79	0.72	0.72	Improved	No Change	0.73	0.73	=BAU	
Philippines	0.83	0.85	0.85	0.92	0.94	Worsened	Worsened	0.92	0.93	=BAU	
Singapore	0.55	0.58	0.71	0.46	0.50	Improved	Worsened	0.46	0.49	=BAU	
Thailand	0.80	0.76	0.76	0.64	0.62	Improved	Improved	0.65	0.63	=BAU	
Vietnam	0.93	0.89	0.87	0.93	0.94	Worsened	Worsened	0.92	0.93	=BAU	
ASEAN average	0.71	0.76	0.77	0.76	0.79	Improved	Worsened	0.74	0.77	=BAU	
ERIA average	0.88	0.87	0.89	0.87	0.86	Improved	Improved	0.87	0.83	=BAU	
OECD average*1	0.79	0.79	0.79								

*1 average of 1971-2009

vs. OECD averagel (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	9.0	8.5	8.9	13.0	14.2	13.0	14.2
Brunei	14.8	14.5	12.8	14.0	14.0	14.6	14.5
Cambodia	9.9	9.8	9.9	8.6	8.6	8.7	8.5
China	8.1	8.3	8.3	8.6	8.9	8.6	9.1
India	8.8	9.0	9.0	8.8	8.8	9.0	9.2
Indonesia	11.7	10.1	10.2	10.1	9.8	10.7	10.2
Japan	10.2	10.2	10.2	10.1	10.2	10.2	10.5
Korea	10.4	10.6	10.6	11.1	11.3	11.5	12.5
Laos	87.0	41.9	45.4	7.2	7.7	7.3	7.7
Malaysia	11.8	11.4	11.2	9.9	9.9	10.2	10.4
Myanmar	11.1	11.5	11.7	10.1	10.4	10.4	10.3
New Zealand	11.2	10.5	10.1	11.0	11.1	10.9	10.9
Philippines	9.6	9.4	9.3	8.6	8.4	8.7	8.5
Singapore	14.4	13.7	11.3	17.1	15.9	17.2	16.1
Thailand	9.9	10.4	10.4	12.4	12.8	12.3	12.6
Vietnam	8.6	9.0	9.1	8.6	8.5	8.6	8.6
ASEAN average	11.2	10.5	10.4	10.5	10.1	10.7	10.3
ERIA average	9.1	9.1	8.9	9.1	9.2	9.2	9.6

Score is calculated by inverse of ESI

OECD Total = 10

4-3: CO₂ Emission/GDP

CO₂ Emission/GDP

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	0.23	0.22	0.20	0.10	0.05	Improved	Improved	0.10	0.05	=BAU	
Brunei	0.22	0.21	0.30	0.23	0.19	Improved	Improved	0.20	0.13	=BAU	
Cambodia	0.17	0.18	0.16	0.18	0.16	Worsened	Improved	0.17	0.15	=BAU	
China	1.00	0.69	0.67	0.44	0.29	Improved	Improved	0.39	0.21	=BAU	
India	0.60	0.53	0.48	0.33	0.25	Improved	Improved	0.29	0.17	=BAU	
Indonesia	0.36	0.46	0.41	0.35	0.35	Improved	No Change	0.28	0.24	Improved	Improved
Japan	0.07	0.07	0.06	0.05	0.05	Improved	No Change	0.05	0.03	Improved	Improved
Korea	0.23	0.21	0.18	0.15	0.12	Improved	Improved	0.13	0.09	=BAU	
Laos	0.10	0.17	0.15	0.78	0.35	Worsened	Improved	0.75	0.33	=BAU	
Malaysia	0.30	0.34	0.34	0.32	0.34	Improved	Worsened	0.27	0.25	Improved	Improved
Myanmar	0.28	0.21	0.17	0.15	0.14	Improved	Improved	0.14	0.12	=BAU	
New Zealand	0.16	0.15	0.13	0.09	0.06	Improved	Improved	0.08	0.05	=BAU	
Philippines	0.23	0.22	0.18	0.14	0.12	Improved	Improved	0.12	0.09	=BAU	
Singapore	0.15	0.11	0.09	0.08	0.07	Improved	Improved	0.08	0.06	=BAU	
Thailand	0.32	0.38	0.36	0.27	0.25	Improved	Improved	0.23	0.19	=BAU	
Vietnam	0.34	0.45	0.50	0.59	0.52	Worsened	Improved	0.53	0.44	=BAU	
ASEAN average	0.29	0.33	0.31	0.27	0.27	Improved	No Change	0.23	0.20	Improved	Improved
ERIA average	0.23	0.24	0.28	0.25	0.21	Improved	Improved	0.23	0.15	=BAU	
OECD average*1	0.15	0.15	0.15								

*1 average of 1971-2009

vs. OECD average (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	6.6	6.9	7.5	15.5	28.3	15.5	28.3
Brunei	7.1	7.3	5.1	6.6	8.3	7.7	12.1
Cambodia	9.1	8.4	9.3	8.3	9.3	9.0	10.2
China	1.5	2.2	2.3	3.5	5.3	3.9	7.3
India	2.5	2.9	3.2	4.6	6.1	5.3	8.8
Indonesia	4.3	3.3	3.7	4.4	4.3	5.5	6.4
Japan	22.1	22.3	24.2	28.3	33.8	31.8	48.6
Korea	6.7	7.4	8.3	10.3	12.6	11.9	17.9
Laos	15.0	8.8	10.1	2.0	4.4	2.0	4.6
Malaysia	5.0	4.5	4.4	4.7	4.5	5.7	6.1
Myanmar	5.5	7.4	8.9	10.5	10.7	10.9	12.5
New Zealand	9.5	10.1	11.4	17.2	24.1	18.8	29.7
Philippines	6.6	6.8	8.7	11.3	13.1	12.9	16.5
Singapore	10.1	13.8	17.4	18.0	23.3	18.4	24.4
Thailand	4.7	4.0	4.2	5.7	6.1	6.7	8.0
Vietnam	4.5	3.4	3.1	2.6	3.0	2.9	3.5
ASEAN average	5.2	4.6	5.0	5.6	5.6	6.7	7.5
ERIA average	6.5	6.2	5.5	6.0	7.4	6.7	10.2

Score is calculated by inverse of ESI

OECD Total = 10

4-4: CO₂ Emission/Population

CO₂ Emission/Population

Country	1990s	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	4.33	4.96	4.99	3.22	2.51	Improved	Improved	3.22	2.51	=BAU	
Brunei	4.00	3.82	5.31	4.20	4.17	Improved	Improved	3.60	2.83	=BAU	
Cambodia	0.04	0.06	0.08	0.14	0.20	Worsened	Worsened	0.13	0.19	=BAU	
China	0.63	0.81	1.29	2.13	2.67	Worsened	Worsened	1.93	1.92	Worsened	Improved
India	0.22	0.27	0.34	0.55	0.90	Worsened	Worsened	0.47	0.62	=BAU	
Indonesia	0.28	0.40	0.43	0.63	1.20	Worsened	Worsened	0.50	0.82	=BAU	
Japan	2.44	2.57	2.51	2.54	2.80	Worsened	Worsened	2.26	1.95	Improved	Improved
Korea	2.00	2.59	2.79	3.43	4.02	Worsened	Worsened	2.98	2.84	Worsened	Improved
Laos	0.03	0.06	0.07	0.74	0.73	Worsened	Improved	0.71	0.70	=BAU	
Malaysia	1.04	1.43	1.72	2.22	3.29	Worsened	Worsened	1.85	2.42	=BAU	
Myanmar	0.04	0.05	0.06	0.11	0.26	Worsened	Worsened	0.11	0.22	=BAU	
New Zealand	1.97	2.22	2.10	1.65	1.37	Improved	Improved	1.50	1.11	=BAU	
Philippines	0.21	0.23	0.21	0.30	0.43	Worsened	Worsened	0.26	0.34	=BAU	
Singapore	2.80	2.69	2.62	4.02	4.48	Worsened	Worsened	3.93	4.28	=BAU	
Thailand	0.58	0.82	0.93	1.09	1.63	Worsened	Worsened	0.93	1.22	No Change	Worsened
Vietnam	0.10	0.21	0.31	0.76	1.68	Worsened	Worsened	0.68	1.43	=BAU	
ASEAN average	0.30	0.42	0.48	0.70	1.20	Worsened	Worsened	0.59	0.90	=BAU	
ERIA average	0.57	0.69	0.91	1.32	1.70	Worsened	Worsened	1.18	1.23	=BAU	
OECD average*1	2.91	2.91	2.91								

*1 average of 1971-2009

vs. OECD average (average of 1971-2009)

Country	1990s	2000s-1	2000s-2	BAU		APS	
				2020	2035	2020	2035
Australia	6.7	5.9	5.8	9.0	11.6	9.0	11.6
Brunei	7.3	7.6	5.5	6.9	7.0	8.1	10.3
Cambodia	697.8	460.7	354.9	204.7	142.8	223.3	156.7
China	45.9	35.9	22.6	13.6	10.9	15.1	15.1
India	130.9	107.4	85.8	53.2	32.4	61.7	47.0
Indonesia	105.5	73.2	66.8	45.9	24.2	58.1	35.6
Japan	11.9	11.3	11.6	11.4	10.4	12.9	14.9
Korea	14.6	11.2	10.4	8.5	7.2	9.8	10.2
Laos	1,068.5	456.2	413.5	39.5	39.6	41.0	41.5
Malaysia	27.9	20.4	16.9	13.1	8.8	15.7	12.0
Myanmar	786.5	550.2	450.1	265.1	113.3	274.6	131.8
New Zealand	14.7	13.1	13.8	17.7	21.2	19.4	26.2
Philippines	139.2	126.4	138.5	98.3	67.0	112.9	84.3
Singapore	10.4	10.8	11.1	7.2	6.5	7.4	6.8
Thailand	50.1	35.6	31.1	26.8	17.9	31.3	23.8
Vietnam	282.5	138.6	92.7	38.2	17.3	43.1	20.4
ASEAN average	95.4	69.5	60.8	41.5	24.3	49.2	32.3
ERIA average	51.0	42.4	32.0	22.0	17.1	24.7	23.7

Score is calculated by inverse of ESI

OECD Total = 10

5: Electrification (Reference)

Country	2000 (WEO 2002)		2005 (WEO 2006)		2009 (WEO 2011)		2010 (WEO 2012)		2011 (WEO 2013)	
	Electrification rate	Population without electricity (million)	Electrification rate	Population without electricity (million)	Electrification rate	Population without electricity (million)	Electrification rate	Population without electricity (million)	Electrification rate	Population without electricity (million)
Australia	100.0%		100.0%		100.0%		100.0%		100.0%	
Brunei	99.2%	0.0	99.2%	0.0	99.7%	0.0	99.7%	0.0	99.7%	0.0
Cambodia	15.8%	10.3	20.1%	10.9	24.0%	11.3	31.1%	10.3	34.0%	9.4
China	98.6%	17.6	99.4%	8.5	99.4%	8.0	99.7%	3.9	99.8%	2.5
India	43.0%	579.1	55.5%	487.2	75.0%	288.8	75.0%	292.9	75.3%	306.1
Indonesia	53.4%	98.0	54.0%	101.2	64.5%	81.6	73.0%	62.8	72.9%	65.7
Japan	100.0%		100.0%		100.0%		100.0%		100.0%	
Korea	100.0%		100.0%		100.0%		100.0%		100.0%	
Laos					55.0%	2.6	63.0%	2.2	78.0%	1.3
Malaysia	96.9%	0.7	97.8%	0.6	99.4%	0.2	99.4%	0.2	99.5%	0.1
Myanmar	5.0%	45.3	11.3%	45.1	13.0%	43.5	48.8%	25.8	48.8%	24.7
New Zealand	100.0%		100.0%		100.0%		100.0%		100.0%	
Philippines	87.4%	9.5	80.5%	16.2	89.7%	9.5	83.3%	15.6	70.2%	28.3
Singapore	100.0%		100.0%		100.0%		100.0%		100.0%	
Thailand	82.1%	10.9	99.0%	0.6	99.3%	0.5	87.7%	8.4	99.0%	0.7
Vietnam	75.8%	19.0	84.2%	13.2	95.1%*	2.1	95.9%*	2.1	96.4%*	2.1
ERIA Total	73.5%	790.4	78.2%	683.5	86.3%	448.1	87.1%	424.2	87.2%	440.9

Electrification rate is regarded as 100% in OECD Countries

* Source: Electricity of Vietnam

Target

Country	2015	2020	2025	2030	2035
	Electrification rate	Electrification rate	Electrification rate	Electrification rate	Electrification rate
Australia					
Brunei					
Cambodia					100%
China	100%				
India					
Indonesia					
Japan					
Korea					
Laos	80%	90%			
Malaysia	98.41%				
Myanmar	34%	45%	60%	80%	
New Zealand					
Philippines					
Singapore					
Thailand	100%				
Vietnam		100%			

6-1: TPES/Population (Supplement Index)

TPES/Population

Country	1990	2000s-1	2000s-2	BAU				APS			
				2020	2035	2020/2000s-2	2035/2020	2020	2035	2020/2000s-2	2035/2020
Australia	4.50	4.79	5.19	5.59	4.91	Increased	Decreased	5.59	4.91	=BAU	
Brunei	7.47	6.95	8.57	7.40	7.33	Decreased	Decreased	6.60	5.17	=BAU	
Cambodia	0.05	0.07	0.10	0.16	0.24	Increased	Increased	0.14	0.21	=BAU	
China	0.66	0.88	1.40	2.50	3.32	Increased	Increased	2.33	2.68	=BAU	
India	0.26	0.32	0.40	0.65	1.06	Increased	Increased	0.58	0.84	=BAU	
Indonesia	0.44	0.56	0.63	0.96	1.76	Increased	Increased	0.80	1.29	=BAU	
Japan	3.82	4.02	3.90	3.95	4.14	Increased	Increased	3.75	3.61	Decreased	Decreased
Korea	3.04	4.19	4.59	5.87	7.09	Increased	Increased	5.68	6.44	=BAU	
Laos	0.08	0.11	0.15	0.58	0.76	Increased	Increased	0.57	0.71	=BAU	
Malaysia	1.63	2.13	2.50	2.83	4.13	Increased	Increased	2.51	3.39	=BAU	
Myanmar	0.07	0.09	0.11	0.19	0.39	Increased	Increased	0.19	0.35	=BAU	
New Zealand	3.83	3.95	3.78	4.10	4.28	Increased	Increased	3.85	3.57	Decreased	Decreased
Philippines	0.38	0.41	0.38	0.44	0.57	Increased	Increased	0.42	0.55	=BAU	
Singapore	5.08	4.65	3.73	8.76	9.11	Increased	Increased	8.64	8.83	=BAU	
Thailand	0.87	1.21	1.39	2.29	3.59	Increased	Increased	1.99	2.80	=BAU	
Vietnam	0.14	0.27	0.40	0.89	1.92	Increased	Increased	0.81	1.76	=BAU	
ASEAN average	0.48	0.62	0.70	1.08	1.77	Increased	Increased	0.96	1.43	=BAU	
ERIA average	0.71	0.85	1.10	1.68	2.22	Increased	Increased	1.55	1.81	=BAU	
OECD average*1	4.21	4.21	4.21								

*1 average of 1971-2009

6-2: GDP/Population (Supplement Index)

GDP/Population

Country	1990s	2000s-1	2000s-2	2020	2035	Annual growth rate	
						2020/2000s-2	2035/2020
Australia	18.6	22.6	24.4	32.6	46.4	2.5%	2.4%
Brunei	18.6	18.2	17.8	18.2	22.5	0.2%	1.4%
Cambodia	0.2	0.3	0.5	0.8	1.2	3.7%	3.2%
China	0.6	1.2	1.9	4.9	9.2	8.0%	4.3%
India	0.4	0.5	0.7	1.6	3.6	7.4%	5.3%
Indonesia	0.8	0.9	1.1	1.8	3.4	4.6%	4.3%
Japan	35.3	37.5	39.8	47.1	61.9	1.4%	1.8%
Korea	8.7	12.6	15.1	23.1	33.2	3.6%	2.4%
Laos	0.3	0.4	0.5	0.9	2.1	6.1%	5.5%
Malaysia	3.4	4.2	5.0	6.9	9.7	2.7%	2.3%
Myanmar	0.1	0.3	0.4	0.8	1.8	5.9%	6.0%
New Zealand	12.3	14.7	15.7	18.5	21.6	1.4%	1.0%
Philippines	0.9	1.0	1.2	2.2	3.7	5.1%	3.6%
Singapore	18.5	24.2	29.9	47.4	68.3	3.9%	2.5%
Thailand	1.8	2.2	2.6	4.1	6.4	3.9%	3.1%
Vietnam	0.3	0.5	0.6	1.3	3.3	6.1%	6.4%
ASEAN average	1.0	1.3	1.6	2.6	4.4	4.3%	3.6%
ERIA average	2.4	2.8	3.3	5.2	8.2	3.8%	3.1%
OECD average	20.2	23.4	24.9				