LIST OF TABLES

Table 1	Economic and Energy Profile, 2009	2
Table 2-1	List of ESI	9
Table 2-2	ESI ad Statistics	16
Table 2-3	Results of TPES Self-sufficiency (including Nuclear)	20
Table 2-4	Comparison (TPES Self-sufficiency (including Nuclear))	20
Table 2-5	Results of R/P ratio	22
Table 2-6	Comparison (Reserve/ Production ratio)	22
Table 2-7	Results of R/C ratio	24
Table 2-8	Comparison (Reserve/ Consumption ratio)	25
Table 2-9	Result of HHI (Diverseness of import source countries)	25
Table 2-10	Comparison (Diverseness of import source countries)	26
Table 2-11	Result of HHI (Diverseness of energy sources)	27
Table 2-12	Comparison (Diverseness of energy sources)	28
Table 2-13	Middle East Dependence rate	29
Table 2-14	Comparison (Middle East Dependence)	29
Table 2-15	Reserve Margin of Generation Capacity	31
Table 2-16	Comparison (Reserve margin of generation capacity)	31
Table 2-17	Power outage frequency	32
Table 2-18	Power outage duration	32
Table 2-19	Commercial energy access ratios	33
Table 2-20	Comparison (Commercial energy access ratio)	34
Table 2-21	Electrification rate	35
Table 2-22	TPES per GDP	36
Table 2-23	Comparison (TPES per GDP)	37
Table 2-24	TFEC per GDP	38
Table 2-25	Comparison (TFEC per GDP)	39
Table 2-26	Days of onland oil stocks	40
Table 2-27	CO ₂ Emissions per TPES	42
Table 2-28	CO ₂ Emissions per Fossil Fuel Primary Supply	43
Table 2-29	CO ₂ Emissions per GDP	44
Table 2-30	CO ₂ Emissions per Population	45
Table 2-31	ERIA Average, Max and Min of ESIs	46
Table 3-1	Major Indices in Australia in comparison with the OECD average	51
Table 3-2	Major Indices in Brunei in comparison with the OECD average	52
Table 3-3	Major Indices in Cambodia in comparison with the OECD average	53
Table 3-4	Major Indices in China in comparison with the OECD average	54
Table 3-5	Major Indices in India in comparison with the OECD average	55
Table 3-6	Major Indices in Indonesia in comparison with the OECD average	56
Table 3-7	Major Indices in Japan in comparison with the OECD average	57
Table 3-8	Major Indices in Korea in comparison with the OECD average	58
Table 3-9	Major Indices in Lao PDR in comparison with the OECD average	59
Table 3-10	Major Indices in Malaysia in comparison with the OECD average	60
Table 3-11	Major Indices in Myanmar in comparison with the OECD average	61
Table 3-12	Major Indices in New Zealand in comparison with the OECD average	62
Table 3-13	Major Indices in Philippines in comparison with the OECD average	63
Table 3-14	Major Indices in Singapore in comparison with the OECD average	64
Table 3-15	Major Indices in Thailand in comparison with the OECD average	65
Table 3-16	Major Indices in Vietnam in comparison with the OECD average	66

LIST OF FIGURES

Figure 2-1	Components of Energy Security	8
Figure 2-2	ERIA Total Self-Sufficiency	19
Figure 2-3	ERIA Total R/P ratio	21
Figure 2-4	ERIA Total R/C years	23
Figure 2-5	ERIA Total HHI (Diverseness of energy sources)	27
Figure 2-6	ERIA Total Reserve Margin of Generation Capacity	30
Figure 2-7	ERIA Total Commercial Energy Access Ratios	33
Figure 2-8	ERIA Total TPES per GDP	36
Figure 2-9	ERIA Total TFEC per GDP	38
Figure 2-10	ERIA Total CO2 Emission	41
Figure 3-1	Trends of Each Index in OECD Countries	49
Figure 3-2	Major Indices in Australia in comparison with the OECD average	51
Figure 3-3	Major Indices in Brunei in comparison with the OECD average	52
Figure 3-4	Major Indices in Cambodia in comparison with the OECD average	53
Figure 3-5	Major Indices in China in comparison with the OECD average	54
Figure 3-6	Major Indices in India in comparison with the OECD average	55
Figure 3-7	Major Indices in Indonesia in comparison with the OECD average	56
Figure 3-8	Major Indices in Japan in comparison with the OECD average	57
Figure 3-9	Major Indices in Korea in comparison with the OECD average	58
Figure 3-10	Major Indices in Lao in comparison with the OECD average	59
Figure 3-11	Major Indices in Malaysia in comparison with the OECD average	60
Figure 3-12	Major Indices in Myanmar in comparison with the OECD average	61
Figure 3-13	Major Indices in New Zealand in comparison with the OECD average	62
Figure 3-14	Major Indices in Philippines in comparison with the OECD average	63
Figure 3-15	Major Indices in Singapore in comparison with the OECD average	64
Figure 3-16	Major Indices in Thailand in comparison with the OECD average	65
Figure 3-17	Major Indices in Vietnam in comparison with the OECD average	66

LIST OF ABBREVIATIONS AND ACRONYMS

ASEAN = Association of Southeast Asian Nations

 CO_2 = Carbon dioxide

EAS = East Asia Summit

ECTF = Energy Cooperation Task Force

ERIA = Economic Research Institute for ASEAN and East Asia

ESI = Energy Security Index

GDP = Gross domestic product

GHG = Greenhouse gas

HHI = Hirschmann-Herfindahl Index

IEA = International Energy Agency

IEEJ = The Institute for Energy Economics, Japan

IMF = international Monetary Fund

ktoe = Thousand tonnes of oil equivalent

Mtoe = Million tonnes of oil equivalent (1 Mtoe = 41.868 PJ)

OECD = Organization for Economic Cooperation and Development

R/C ratio = Reserve / Consumption ratio

R/P ratio = Reserve / Production ratio

TFEC = Total Final Energy Consumption

TPEC = Total Primary Energy Consumption

toe = Tonnes of oil equivalent

WEO = World Energy Outlook of IEA

WG = Working group