

## List of Figures

Figure 2.1	Contribution of the Oil Sector to the Singapore Economy	19
Figure 2.2	Ten Largest Petroleum Crude-Exporting Countries	20
Figure 2.3	Top 10 Oil Product-Importing Countries	21
Figure 2.4	Ten Largest Oil Product Exports from Singapore	22
Figure 3.1	Sector-Wise Energy Consumption in India (%)	32
Figure 3.2	Energy Consumption: India v/s World (%)	33
Figure 3.3	Coal Production Trend in India (MT)	34
Figure 3.4	Sector-Wise Distribution of Coal Consumption in India (%)	35
Figure 3.5	Coal Imports to India by Type (MT)	36
Figure 3.6	Crude Oil Imports by India in 2012 (%)	38
Figure 3.7	Export of Oil Products* by India 2012 (%)	38
Figure 3.8	Sector-Wise Consumption of Natural Gas in 2012 (In %)	39
Figure 3.9	Source-Wise Generation of Power (MU), 2012-2013	41
Figure 3.10	Sector-Wise Generation of Power (MU), 2012-2013	41
Figure 3.11	Sector-Wise Consumption of Power in India, 2012 (%)	42
Figure 3.12	Source-Wise Capacity of RES in 2012 (%)	43
Figure 4.1	India's Past Trend of Energy Security	70
Figure 4.2	Future Trend of Energy Import Status in India	71
Figure 4.3	LNG Import Portfolio of Major Countries (as on 2012)	75
Figure 4.4	Natural Gas Prices in the International Markets	75

Figure 4.5	Asian LNG Price Comparison with Others	77
Figure 4.6	Decomposition of Asian LNG Supply Cost	77
Figure 4.7a	Investment Demand in Energy Sector in ASEAN Region ( in US\$@ 2005)	90
Figure 4.7b	Investment Demand in Energy Sector in India and South Asia Region ( in US\$@ 2005)	91
Figure 4.8	Projected Domestic and Export Gas Demand of Myanmar	94
Figure 4.9	Indian Gas Supply and Demand Condition by 2030 (in MMSCMD)	95
Figure 4.10	Expected Myanmar Gas Supply to India (in MMSCMD)	96
Figure 4.11	India's Historical Gas Supply Condition	97
Figure 5.1	Trend in Average Import Prices of Energy Product in ASEAN5 for 1979-2012	122
Figure 5.2	Average Annual Increase in Energy Product Prices for 1980-2012 (in %)	125
Figure 6.1	Global energy trade and its components, by region, 1995–2008	139
Figure 6.2	Components of global energy trade, by products, 1995-2008	140
Figure 6.3	Cross-region comparison of energy trade components, 1995-2008	141
Figure 6.4	Relative Trade Efficiency by Different Assumptions—Mean and Standard Deviation	152
Figure 6.5	Trade Frontier Movement vs. Efficiency Gain, 1995-2008	153
Figure 6.6	Comparison of Average Energy Trade Efficiency, by Country Groups, 1995-2008	154
Figure 6.7	Average Energy Trade Efficiency of Imports and Exports: United States, China, and Indonesia	155

Figure 7.1	Commercial Value of Transmission Line and Optimal Capacity	169
Figure 7.2	Key Factors for the Financial Viability of Cross-Border Transmission Lines	172
Figure 7.3	The Existing APG+ Plan	176
Figure 7.4	Optimal Transmission Development under Opt-20	176
Figure 7.5	Optimal Transmission Development under Opt-50	177
Figure 7.6	Optimal Transmission Development under Opt-80	177
Figure 7.7	Pattern of Power Trade in the Opt-20 vs. Apt-20	179
Figure 8.1	Total Peak Demand Projections in GMS Countries	198
Figure 8.2	Energy Demand Projection of GMS Countries	199
Figure 8.3	Installed Capacity Projection in the GMS by 2025	201
Figure 8.4	Projected Installed Capacity by Country in the GMS, Current PDPs Scenario	201
Figure 9.1	Electricity Consumption in China, 1990-2013	244
Figure 9.2	Consumption Shares (%) in Major Economies in 2011	244
Figure 9.3	Power Consumption Per-Capita in Major Economies in 2011	245
Figure 9.4	China's Electricity Consumption Shares By Sector, 1990-2013	246
Figure 9.5	Power Supply and Demand Situations By Region	247
Figure 9.6	Structure of China's Generation Capacity, 2013	248
Figure 9.7	Map of China's Main Power Grids	250
Figure 9.8	Electricity Production in Yunnan	253
Figure 9.9	Electricity Production in Inner Mongolia	254
Figure 10.1	Average Energy Market Integration In the EAS Region: 1995-2011	275

Figure 10.2	Relative Strength In Five Different Fields of Average EMI: 1995-2011	276
Figure 10.3	Comparison of the EMI Index across the EAS Countries in Selected Years	278
Figure 11.1	Peninsular Malaysia's Managed Market Model	286
Figure 11.2	Thailand's Enhanced Single-buyer Industry Structure	289
Figure 11.3	Pre and Post-EPIRA Electricity Industry Structure in the Philippines	291
Figure 11.4	Payment to RE Fund as Percentage Share of Household Electricity Bill (Starting January 2014)	305
Figure 11.5	Payment to RE Fund by Household Electricity Consumption Level (Estimated based on May 2014 TNB tariff rates)	306
Figure 11.6	Household Payment to Feed-in Tariff Allowance Fund by Consumption Level (estimated based on MERALCO's May 2014 Tariff level)	307
Figure 11.7	Household Payment to Feed-in Tariff Allowance Fund as Percentage of Electricity Bill (estimated based on MERALCO's May 2014 Tariff level)	308
Figure 11.8	Household Payment to Feed-in Adder by Consumption Level (Estimated based on MEA's May 2014 Tariff Level)	309
Figure 11.9	Household Payment to Feed-in Adder as Percentage of Electricity Bill (Estimated based on MEA's May 2014 Tariff Level)	309
Figure 11.10	Electricity Bill by Consumption Level	311
Figure 11.11	Consumption Share Allocation Vs Class Peak Responsibility Allocation (Thailand)	313
Figure 12.1a-h	Historical energy intensity Year on Year growth rate in each of countries studied	338
Figure 13.1	Brent oil price (in US dollars)	355
Figure 13.2	Counter-factual Assessment of Consumption Expenditure in the Absence of International Oil Shocks	362