## Figures

Figure 2.1	Industry Subsector Samples	27
Figure 2.2	Type of Vehicles Sampled	37
Figure 2.3	Breakdown of Vehicles by Fuel Consumed	37
Figure 2.4	Analysis of Building Energy Intensity for Office Buildings	46
Figure 2.5	Average Share of Energy Sources for Office Buildings	
	in Myanmar	48
Figure 2.6	Analysis of Building Energy Intensity for	
	1–3 Star-Rated Hotels	49
Figure 2.7	Analysis of Building Energy Intensity for	
	4–5 Star–Rated Hotels	49
Figure 2.8	Analysis of Hotel Energy Intensity	51
Figure 2.9	Average Share of Energy Sources for	
	1–3 Star-Rated Hotels in Myanmar	51
Figure 2.10	Average Share of Energy Sources for	
	4–5 Star-Rated Hotels in Myanmar	52
Figure 2.11	Analysis of Building Energy Intensity for Shopping Malls	53
Figure 2.12	Average Share of Energy Sources for Shopping Malls	54
Figure 2.13	Analysis of Building Energy Intensity for Restaurants	55
Figure 2.14	Average Share of Energy Sources for Restaurants	56
Figure 2.15	Analysis of Building Energy Intensity for Hospitals	57
Figure 2.16	Analysis of Hospital Energy Use Intensity	58
Figure 2.17	Average Share of Energy Sources for Hospitals	60
Figure 2.18	Analysis of Energy Consumption per Household per	
	Month in Urban	61
Figure 2.19	Analysis of Energy Consumption per Household per	
	Month in Rural Areas including Electricity and Other Fuels	61
Figure 2.20	Average Share of Energy Sources for	
	Each Township Surveyed	62
Figure 2.21	Overall average share of energy sources for	
	residential sector	62
Figure 3.1	Energy Flow in the Energy Balance	74
Figure 4.1	Total Primary Energy Supply	100
Figure 4.2	Energy Mix of the Total Primary Energy Supply	101
Figure 4.3	Dependence on Imported Energy	103
Figure 4.4	Total Final Energy Consumption by Fuel	104
Figure 4.5	Fuel Mix in Total Final Energy Consumption	104
Figure 4.6	Total Final Energy Consumption by Sector	106

Figure 4.7	Myanmar Gas Production and Use	107
Figure 4.8	Petroleum Products Consumption Share by Sector	112
Figure 4.9	Shares of Petroleum Products Consumption by Fuel	114
Figure 4.10	Coal Consumption	116
Figure 4.11	Biomass Consumption	117
Figure 4.12	Electricity Consumption	120
Figure 4.13	TPES and Energy Intensity	123
Figure 4.14	CO <sub>2</sub> Emissions from Fuel Combustion	
	(Reference Approach)	124
Figure 4.15	Biomass Share in TPES, CO <sub>2</sub> Emissions,	
	and CO <sub>2</sub> Intensity	126

## Tables

Table 1.1	Sub-bituminous Coal and Lignite Production	1
Table 1.2	Sub-bituminous Coal Consumption	3
Table 1.3	Lignite Consumption	3
Table 1.4	Crude Oil Supply and Consumption	4
Table 1.5	LPG Supply and Consumption	5
Table 1.6	Naphtha Supply and Consumption	6
Table 1.7	Motor Gasoline Supply and Consumption	6
Table 1.8	Aviation Gasoline Supply and Consumption	8
Table 1.9	Kerosene-Type Jet Fuel Supply and Consumption	8
Table 1.10	Other Kerosene Supply and Consumption	9
Table 1.11	Gas/Diesel Oil Supply and Consumption	10
Table 1.12	Fuel Oil Supply and Consumption	11
Table 1.13	White Spirit Supply and Consumption	12
Table 1.14	Lubricants Supply and Consumption	13
Table 1.15	Bitumen Supply and Consumption	14
Table 1.16	Supply and Consumption of Paraffin Waxes	14
Table 1.17	Supply and Consumption of Petroleum Coke	15
Table 1.18	Other Products Supply and Consumption	16
Table 1.19	Gas Production	17

Table 1.20	Gas Consumption in Transformation and Energy Sector	18
Table 1.21	Gas Consumption by Sector	19
Table 1.23	Electricity Generation by Source	20
Table 1.24	Electricity Export	20
Table 1.25	Electricity Consumption by Final Users	21
Table 1.26	Renewable Energy Supply	22
Table 2.1	Overview Information of the Industry Sector	27
Table 2.2	Density and Heating Value of Fuel	29
Table 2.3	Sales Revenue and Fuel Consumption	30
Table 2.4	Myanmar GDP (million MK, Current Price)	31
Table 2.5	Estimated Total Energy Consumption	32
Table 2.6	Estimated Total Energy Consumption by Fuel (ktoe)	33
Table 2.7	Industry Energy Consumption by Fuel (ktoe)	34
Table 2.8	Fuel Economy and Distance Travelled of Sampled Vehicles	38
Table 2.9	Vehicle Population in Myanmar 2018	39
Table 2.10	Number of Vehicle and Fuel Intensity per Vehicle	40
Table 2.11	Estimated Total Consumption of Road Transport	41
Table 2.12	Survey Table: Vehicles (km) and Fuel Efficiency by	
	Vehicle Types	42
Table 2.13	Road Transport Fuel Consumption, 2016 (ktoe)	42
Table 2.14	Categories of Commercial Buildings and Sample Size	43
Table 2.15	Comparison of Building Energy Intensity Values	45
Table 2.16	Government and Private Sector Office Building Space	
	in Myanmar	47
Table 2.17	Statistical Information on Hotels, Motels, and Guest Houses	
	in Myanmar	49
Table 2.18	Statistical Information on Retail Space in Myanmar	54
Table 2.19	Statistical Information on Restaurants in Myanmar	56
Table 2.20	Government Hospital Information as of 2016	58
Table 2.21	Sampling Areas and Sample Size	60
Table 2.22	Estimation of Projected Energy Consumption of	
	Office Buildings in Myanmar	64
Table 2.23	Estimation of Projected Energy Consumption of	
	Hotels in Myanmar	64
Table 2.24	Estimation of Projected Energy Consumption of	
	Shopping Malls in Myanmar	65
Table 2.25	Estimation of Projected Energy Consumption of	
	Restaurant in Myanmar	65

Table 2.26	Estimation of Projected Energy Consumption of	
	Hostpital in Myanmar	66
Table 2.27	Projected National Energy Consumption based on	
	Survey Data and EBT Energy Consumption for	
	the Commercial Sector	67
Table 2.28	Projected National Energy Consumption Based on Survey [	Data and
	EBT Energy Consumption for the Residential Sector	69
Table 3.1	Calorific Content of Energy Products in Myanmar	77
Table 3.2	Myanmar Energy Balance Table, 2000	81
Table 3.3	Myanmar Energy Balance Table, 2001	82
Table 3.4	Myanmar Energy Balance Table, 2002	83
Table 3.5	Myanmar Energy Balance Table, 2003	84
Table 3.6	Myanmar Energy Balance Table, 2004	85
Table 3.7	Myanmar Energy Balance Table, 2005	86
Table 3.8	Myanmar Energy Balance Table, 2006	87
Table 3.9	Myanmar Energy Balance Table, 2007	88
Table 3.10	Myanmar Energy Balance Table, 2008	89
Table 3.11	Myanmar Energy Balance Table, 2009	90
Table 3.12	Myanmar Energy Balance Table, 2010	91
Table 3.13	Myanmar Energy Balance Table, 2011	92
Table 3.14	Myanmar Energy Balance Table, 2012	93
Table 3.15	Myanmar Energy Balance Table, 2013	94
Table 3.16	Myanmar Energy Balance Table, 2014	95
Table 3.17	Myanmar Energy Balance Table, 2015	96
Table 3.18	Myanmar Energy Balance Table, 2016	97
Table 4.1	Indigenous Production and Imports of Energy (ktoe)	101
Table 4.2	Total Final Energy Consumption by Sector (ktoe)	105
Table 4.3	Gas Supply and Consumption (ktoe)	108
Table 4.4	Crude Oil Supply and Consumption (ktoe)	109
Table 4.5	Petroleum Products Supply and Consumption (ktoe)	110
Table 4.6	Petroleum Products Consumption by Sector (ktoe)	111
Table 4.7	Petroleum Products Consumption by Products (ktoe)	113
Table 4.8	Coal Supply and Consumption (ktoe)	115
Table 4.9	Electricity Supply (GWh)	118
Table 4.10	Electricity Consumption (Gwh)	119
Table 4.11	Energy and Economic Indicators	122
Table 4.12	Energy and CO <sub>2</sub> Emissions Indicators	125