

List of Figures

Figure 1.1	Population Density	3
Figure 1.2	Existing and Planned Railways	3
Figure 1.3	Existing Road Network	4
Figure 1.4	Planned Expressway	4
Figure 2.1	Final Energy Consumption by Sector, BAU Scenario	5
Figure 2.2	Final Energy Consumption by Sector, BAU and APS Scenarios	5
Figure 2.3	Final Energy Consumption, BAU Scenario vs APS Scenario	6
Figure 2.4	National Targeted Programme on Energy Savings and Efficiency in 2012–2015	7
Figure 2.5	Measures for Transport Infrastructure Planning, Developing, and Upgrading	8
Figure 2.6	Measures for Transport Operation	8
Figure 2.7	Measures for Management of Energy Consumption of Vehicles	9
Figure 2.8	Overview of Energy Efficiency Development Plan Target by Sector	12
Figure 2.9	Energy Efficiency Plan on Transport Sector Saving Target (2015–2036)	12
Figure 2.10	Implementation Structure of EE&C Policy in Thailand	13
Figure 3.1	Da Nang Transport Master Plan up to 2020 and Vision to 2030	23
Figure 3.2	Da Nang Public Transport Network Plan up to 2030	23
Figure 3.3	Da Nang Transition of Trip Number by Year	27
Figure 3.4	Road Lengths Extension (Planned) by Year	28
Figure 3.5	Model Split Using DaCRISS Model (2017)	29
Figure 3.6	Fuel Consumption Volume by Mode (2017)	29
Figure 3.7	Traffic Flow with or without Highway (2017)	30
Figure 3.8	Comparison of the Fuel Consumption Effect with or without Highway	31
Figure 3.9	Comparison of the Fuel Consumption Effect by Mode with or without Highway (2030)	31
Figure 3.10	Route Length of Public Transport by Year	33
Figure 3.11	Illustration of Fuel Consumption Volume by Transport Mode	34
Figure 3.12	Correlation between Per Capita Income and Car Ownership in Selected ASEAN Countries	34
Figure 3.13	Recent Growth Rates of Sales Volume for Car and Motorcycle	35
Figure 3.14	Comparison of Modal Share between the Planned Scenario and the Car-shift Scenario in 2030	36
Figure 3.15	Comparison of the Fuel Consumption Effect between the Planned Scenario and the Car-shift Scenario in 2030	37
Figure 3.16	Comparison of the Modal-Shift Effect on the Fuel Consumption between the Planned Scenario and the 10-Year Delay Scenario	38
Figure 3.17	Change of Modal Share of Public Transport in Tokyo Ward	39
Figure 3.18	Comparison of the Modal-Shift Effect on the Fuel Consumption between the Car-shift Plan and the 10-Year Delay (Car-shift Plan)	39

List of Tables

Table 2.1	Overview of Major EE&C Policies in Three Countries	10
Table 2.2	Promotion of Container Round Use in Japan	14
Table 2.3	Promotion of Joint Transportation and Delivery in Japan	15
Table 2.4	R&D for Autonomous Truck Convoys in Japan	17
Table 2.5	Roadmap of Truck Platooning in Japan	17
Table 2.6	Overview of Sathorn Model Project in Bangkok, Thailand	18
Table 3.1	Da Nang Status of Transport Development Plans or Projects	24
Table 3.2	Da Nang Status of Transport Development Plans or Projects (continued)	25
Table 3.3	Status of Urban Bus Route Development Plan	26
Table 3.4	Utilization Efficiency of Road Space by Transportation Mode	32
Table 3.5	Scenario Setting	37
Table 4.1	Challenges for Viet Nam in Transport Energy Efficiency Improvement	41