

## LIST OF TABLES

Table 1.	Geographic, Demographic, and Economic Profiles, 2008	4
Table 2.	Economic Structure and Energy Consumption, 2008	5
Table 3.	Assumptions on Biofuels – Summary by Country	24
Table 4.	Summary of Energy Saving Goals, Action Plans and Policies Collected from each EAS WG Member	26
Table 5.	Quantitative Impact of Energy Saving Goals and Policies: Illustrative Impacts	36
Table 6.	Scenarios for Nuclear Abolition Analysis	42
Table 7.	Profile of Pilot Survey Respondents	49
Table 8.	Main Appliances in Households	52
Table 9.	Main Appliances in Households by country	53
Table 10.	Hours used per Day for Cooling	53
Table 11.	Energy Usage by Country	55
Table 12.	Energy Consumption by End use	57

## LIST OF FIGURES

Figure 1.	Assumed Population in the EAS Region, 2009 and 2035	15
Figure 2.	Assumed Average Annual Growth in Population, 2009 to 2035	16
Figure 3.	Assumed Economic Activity in the EAS Region	17
Figure 4.	Assumed Average Annual Growth in GDP, 2009 to 2035	18
Figure 5.	Real GDP per Capita, 2009 to 2035	18
Figure 6.	Thermal Efficiencies of Gas Electricity Generation	20
Figure 7.	Thermal Efficiencies of Coal Electricity Generation	21
Figure 8.	Share of Fuel Type in the Electricity Generation Mix in the EAS Region	22
Figure 9.	Oil Price Assumptions to 2030	25
Figure 10.	Total Final Energy Consumption	29
Figure 11.	Final Energy Consumption by Sector	30
Figure 12.	Final Energy Consumption by Fuel	31
Figure 13.	Total Final Energy Consumption by Country	32
Figure 14.	Total Primary Energy Consumption	33
Figure 15.	Primary Energy Consumption by Source	34
Figure 16.	Primary Energy Consumption by Country, 2009 and 2035	35
Figure 17.	Total CO <sub>2</sub> Emissions	37
Figure 18.	CO <sub>2</sub> Emissions by Country	38
Figure 19.	Emissions per Unit of Primary Energy	39
Figure 20.	Primary Energy Demand per Unit of GDP	40
Figure 21.	Nuclear Capacity in Each Scenario	42
Figure 22.	Projected Nuclear Capacity (Increase from 2009 to 2035)	43
Figure 23.	Increase in Fossil Fuel Use for Power Generation in 2035	44
Figure 24.	Increase in Fossil Fuel Cost in 2035	45
Figure 25.	Index of Power Generation Cost in 2035	46
Figure 26.	Increase in CO <sub>2</sub> Emissions Compared with APS Case in 2035.	47
Figure 27.	Potential CO <sub>2</sub> Emissions Reduction in Each Scenario in 2035	47
Figure 28.	Share of Respondents in Urban and Rural Areas	50
Figure 29.	Histogram of Household Size	50
Figure 30.	Share of Respondents by Type of Residence	51
Figure 31.	Share of Respondents by Floor Area	51
Figure 32.	Energy Consumption by Source in Rural Areas	56
Figure 33.	Energy Consumption by Source in Urban Areas	56
Figure 34.	Energy Consumption by End Use in Rural Areas	58
Figure 35.	Energy Consumption by End Use in Urban Areas	58
Figure 36.	Annual Household Energy Use per Capita in the EAS	59

## LIST OF ABBREVIATIONS AND ACRONYMS

ANRE = Agency for Natural Resources and Energy  
APS = Alternative Policy Scenario  
ASEAN = Association of Southeast Asian Nations  
A/C = Air conditioner  
BAU = Business as Usual  
BREE = Bureau of Resources and Energy Economics  
BOCM = Bilateral Offset Credit Mechanism  
CCS = Carbon capture and storage  
CCT = Clean Coal Technology  
CDM = Clean Development Mechanism  
CO<sub>2</sub> = Carbon dioxide  
CRT = Cathode ray tube  
EAS = East Asia Summit  
ECTF = Energy Cooperation Task Force  
EEC = Energy efficiency and conservation  
EMM = EAS Energy Ministers Meeting  
ERIA = Economic Research Institute for ASEAN and East Asia  
FiT = Feed-in-Tariff  
GCV = Gross calorific value  
GDP = Gross domestic product  
GHG = Greenhouse gas  
GW = Gigawatt  
IEEJ = The Institute for Energy Economics, Japan  
IPCC = Intergovernmental Panel for Climate Change  
JARI = Japan Automobile Research Institute  
ktoe = Thousand tonnes of oil equivalent  
kWh = kilowatt-hour  
LCD = Liquid crystal display  
LDV = Light Duty Vehicles  
LEAP = Long-range Energy Alternative Planning System  
LEDS = Long-Term Energy Demand System  
LET = Low emission technologies  
LPG = Liquefied petroleum gas  
METI = Ministry of Economy, Trade and Industry  
Mtoe = Million tonnes of oil equivalent (1 Mtoe = 41.868 PJ)  
Mt C = Million tonnes carbon (may be converted to million tonnes of CO<sub>2</sub> by multiplying by 44/12)  
MW = Megawatts  
MWh = Megawatt-hour  
NCV = net calorific value  
OECD = Organization for Economic Cooperation and Development  
RPS = Renewable Portfolio Standards  
SWG = Sub-Working Group  
toe = Tonnes of oil equivalent  
t C = Tonnes of carbon

TPES = Total Primary Energy Supply

TWh = Terawatt-hour

WG = Working group