

Contents

I. Introduction	3
II. Economic Background and Outlook	4
1. Growth Performance	4
2. The Structure of the Bulgarian Economy.....	5
3. The Pattern of Foreign Trade	6
4. Economic Policy.....	8
5. Outlook.....	10
III. Energy Supply and Demand	12
1. Resource Endowment and Domestic Production of Primary Energy	12
2. Domestic Production of Electricity and Oil Derivates.....	13
3. Transmission of Energy	15
4. Foreign Trade in Primary and Final Energy.....	16
5. Energy Consumption by Sources and Economic Sectors	17
6. Environmental Aspects	18
7. Strengths and Weaknesses.....	20
IV. Energy Policy	20
1. Organization of the Energy Sector.....	21
2. National Priorities for the Energy Sector	22
3. Strengths and Weaknesses.....	23
V. Energy Policy Outlook: Possible Scenarios	23
VI. Summary and Policy Conclusions	27
1. Summary of Findings.....	27
2. Policy Conclusions	28
Appendix	30
Bibliography	41

List of Tables and Figures

Table	1 — Real GDP Growth in Central and Eastern Europe, 1961–1992.....	5
Table	2 — Economic Structure in Bulgaria, 1939–1991	6
Table	3 — Bulgarian Foreign Trade by Currency Areas, 1990 and 1991	7
Table	4 — Catching-up Potential of Central and Eastern Europe and Lower-Middle- Income Countries, 1990	10
Table	5 — RCA of Bulgaria and Asian NICs in Foreign Trade with OECD Member Countries by Product Groups, 1970, 1980 and 1988	11
Table	6 — Forecasts for the World Economy, 1990–2000	11
Table	7 — Forecasts for Bulgarian Real GDP Growth, 1992–2000.....	12
Table	8 — The Length of Bulgaria’s Electricity Lines by Voltage Levels, 1970–1990.....	15
Table	9 — Energy Consumption in Eastern Europe and Lower-Middle-Income Countries, 1965–1990	17
Table	10 — SO ₂ Emissions in Bulgaria, 1980, 1987 and 1990	18
Table	11 — CO ₂ Emissions by Type of Fuel in Selected Regions, 1985.....	19
Table	12 — CO ₂ Emissions in Selected Regions, 1990–2050.....	19
Table	13 — CO ₂ Emissions and GDP Growth in Selected Regions, 1990–2000.....	19
Table	14 — Energy Policy Options and Transition	25
Table	A1 — Bulgaria’s Industry Structure, 1991	30
Table	A2 — Direction of Bulgaria’s Foreign Trade by Region/Country, 1990–1992	30
Table	A3 — Commodity Structure of Bulgarian Foreign Trade by Regions, 1990 and 1991.....	31
Table	A4 — External Debt Indicators, 1980 and 1991	32
Table	A5 — Bulgaria’s Production, Trade and Apparent Consumption of Coal, 1985–1992.....	32
Table	A6 — Bulgaria’s Production, Trade and Apparent Consumption of Crude Oil and Natural Gas, 1985–1992.....	33
Table	A7 — Average Annual Installed Capacity of Power Plants in Bulgaria, 1988–1990.....	33
Table	A8 — Capacity of Major Hydro Plants in Bulgaria, 1990	34
Table	A9 — Bulgaria’s Production, Trade and Apparent Consumption of Electricity, 1985–1992	34
Table	A10 — Bulgaria’s Production, Trade and Apparent Consumption of Refined Oil Products, 1985–1992.....	35
Table	A11 — Selected Electricity Prices in Bulgaria, 1980–1992.....	36
Table	A12 — Reducing Global CO ₂ Emissions in Alternative Policy Scenarios, 1990–2050	36
Table	A13 — Costs and Benefits of Global CO ₂ Emission Reduction in Alternative Policy Scenarios, 1990–2050	36
Table	A14 — Energy Balance for Bulgaria, 1991	37
Figure	1 — Organization of the Energy Sector in Bulgaria, 1992.....	21