

Contents

<i>Chapter</i>	<i>Page</i>
I. Executive Summary	1
Panel Findings.	2
Supply Impacts	3
Demand Impacts.	4
Societal Impacts	5
II. Overview and Perspective—Policy Panel.	9
Policy Panel Overview.	9
Policy Panel Perspectives.	12
III. Cross-index To Issues Raised by Major Energy Proposals	21
1. Coal Utilization	21
2. Domestic Crude Oil Tax and Regulations	22
3. Natural Gas Pricing and Regulation.	22
4. Nuclear Development.	23
5. Oil and Gas Consumption Taxes.	23
6. Utility Regulation.	24
7. Buildings Conservation	24
8. Transportation	25
IV. Supply Impacts	29
Supply Overview and Findings	29
Oil and Gas Introduction.	33
Issue 1: Oil and Gas Production.	35
Issue 2: Oil and Gas Pricing	39
Issue 3: Liquefied Natural Gas.	42
Issue 4: Synthetic Natural Gas.	44
Coal Introduction	45
Issue 5: Coal Production and Demand.	46
Issue 6: Accelerated Eastern Coal Production.	48
Issue 7: Coal Mining Research and Development.	49
Issue 8: Accelerated Production of Synthetic Gas From Coal	50
Nuclear Introduction	51
Issue 9: Licensing Reactors	53
Issue 10: Public Acceptance of Nuclear Expansion.	57
Issue 11: Breeder Reactors	59
Nonconventional Sources Introduction	64
Issue 12: Nonconventional Energy Goals.. . . .	66
Issue 13: Solar Incentives.	69
Issue 14: Long-Term Planning	72

Contents

<i>Chapter</i>	<i>Page</i>
v. Demand Impacts.	77
Demand Overview and Findings.	77
Issue 1: Expected Energy Use to 1985	81
Issue 2: Replacement Cost Pricing	84
Issue 3: The Automobile Excise and Standby Gasoline Taxes	88
Issue 4: The Impact of Truck Fuel Consumption on Meeting the Gasoline Consumption Goal	92
Issue 5: State, County, and Local Government Transportation Fuel Conser- vation.	94
Issue 6: The Role of Mass Transit in Transportation Energy Conservation .	95
Issue 7: Transportation Regulation and Energy Conservation	99
Issue 8: Scope of Buildings Conservation Programs,	100
Issue 9: Materials Availability for Building Conservation.	103
Issue 10: Tax Credits for Energy Conservation in Buildings	105
Issue 11: Mandatory Standards for Major Appliances	106
Issue 12: Communication of Conservation Information.	108
Issue 13: Crude Oil Equalization Tax and Heating Use	109
Issue 14: The Role of Financial Institutions.	111
Issue 15: Conversion of Electric Utilities From Natural Gas.	113
Issue 16: Electric and Natural Gas Utility Rate Reform	115
Issue 17: The Impact of the Plan's Tax Proposals on Electric Utilities.	119
Issue 18: Impacts of the Plan on the Gas Utility Industry	121
Issue 19: Electric and Natural Gas Utility Conservation Programs	123
Issue 20: The Research and Development Role of the Electric Utilities.	126
Issue 21: Cogeneration by Industry	127
Issue 22: Industrial Conversion From Oil and Gas	131
Issue 23: The Industrial Conservation Investment Tax Credit	134
Issue 24: Oil and Natural Gas Price and User Tax Provisions	136
Issue 25: The Effect of the Oil and Gas Use Tax on Petrochemical Feedstocks.	140
Issue 26: Federal Leadership in Industrial Energy Conservation	142

<i>Chapter</i>	<i>Page</i>
VI. Societal Impacts	147
Societal Impacts Overview and Findings	147
Issue 1: Macroeconomic Impacts	150
Issue 2: Distributional Impacts	153
Issue 3: Air Quality Impacts of Increased Combustion of Coal	157
Issue 4: Other Environmental Impacts of Coal Utilization	160
Issue 5: Health Impacts	163
Issue 6: Impacts of Nuclear Power.	165
Issue 7: Alternative Technology—Solar	168
Issue 8: Indoor Environments	171
Issue 9: Health Effects of Diesel-Powered Automobiles.	172
Issue 10: The Role of State and Local Governments	174
Issue 11: The Impact of Utility Rate Reform on Federal-State Relations	177
Issue 12: Information Systems.	179
Issue 13: Public Participation in Energy Decisionmaking.	180
Issue 14: Regional Impacts	182
Issue 15: Energy Resource Development on Federal Lands	185
Issue 16: Coordination of Energy-Related Programs	188
Issue 17: Adequacy of the Plan's Oil Import Goals	190
Issue 18: The Question of Growth	192
Issue 19: The Population Factor and Energy Planning	194
Issue 20: Impact of a Petroleum-Scarce Future on the Automobile Industry	196
Issue 21: Land-Use Patterns.	197
Issue 22: In Defense of Amenities	201
Appendix I-OTA Background Perspective of Energy Forecasts	204
Appendix n-The Presidential Energy Initiatives: Some Policy Considerations	216