



## CONTENTS

	<u>Page</u>
Acknowledgment	4
Introduction	5
Solar energy	9
Solar resource base	
Solar-generated thermal energy	
Photovoltaic energy conversion	
Solar hydrogen production	
Systems utilizing indirect solar energy	
Market penetration of solar energy systems	
Social and environmental factors	
Solar energy in developing nations	
A forecast	
Geothermal energy	63
Geothermal resource types	
Geographic distribution	
Geothermal resource base	
Electric energy conversion	
Geothermal electricity potential	
Economics of geothermal electric power	
Nonelectric utilization	
Fusion power	99
Basic requirements for fusion power	
Potential characteristics of fusion power	
Fusion fuel cycles	
Progress toward scientific feasibility	
Status of fusion technology and major areas of challenge	
Radioactivity and radioactive waste disposal	
Fusion power plants and utility requirements	
Safety and environmental aspects	
Additional applications	