

Contents

Acknowledgments	<i>page vii</i>
1. Introduction	1
2. The Living Earth	13
3. Warmed from Above: Solar Energy	32
4. Wind, Water, and Waves: Energy from the Fluid Earth	57
5. Covered in Green: Biofuels Basics	80
6. Fossil Farming: The Geologic Underpinnings of Biofuels	103
7. The Light of an Ancient Sun: Fossil Fuel Origins	123
8. Digging for Daylight: Coal and Oil Shale	142
9. Skimming the Cream: Conventional Oil and Gas	165
10. Stuck in the Mud: Fossil Fuels That Fail to Flow	189
11. Petrified Petroleum: Oil Sand and Gas Hydrate	215
12. Water, Water, Everywhere	237
13. Primordial Power: Geothermal and Nuclear	261

vi	Contents	
	14. Out of Sight, Out of Mind: Geologic Waste Disposal	287
	15. How Long Is Forever? Energy and Time	314
	16. Conclusions	342
	Index	347