

THE PARTY S

Oil, War and the Fate of Industrial Societies

Richard Heinberg



Contents

である。 「日本のでは、日本の

ACKNOWLEDGMENTS	xi
Introduction	1
CHAPTER 1: ENERGY, NATURE AND SOCIETY	9
Energy and Earth: The Rules of the Game	10
Energy in Ecosystems: Eating and Being Eaten	14
Social Leveraging Strategies: How to Gain an Energy Subsidy	20
Complexity and Collapse: Societies in Energy Deficit	33
Applied Socio-Ecohistory: Explaining the	
American Success Story	38
Chapter 2: Party Time: The Historic Interval.	
OF CHEAP, ABUNDANT ENERGY	45
Energy in Medieval Europe	47
The Coal Revolution	52
The Petroleum Miracle, Part I	57
Electrifying the World	60
The Petroleum Miracle, Part II	64
Oil, Geopolitics, and the Global Economy: 1950 - 1980	73
1980 - 2001: Lost Opportunities and	
the Prelude to Catastrophe	78
CHAPTER 3: LIGHTS OUT: APPROACHING THE HISTORIC INTERVAL'S ENI	o85
On to Mesopotamia	88
The Ground Giving Way	92
M. King Hubbert: Energy Visionary	95
Hubbert's Legacy	
Zeroing In on the Date of Peak	111

Hubbert's Critics: The Cornucopian Argument118	
Who Is Right? Why Does It Matter?133	
Chapter 4: Non-Petroleum Energy Sources:	
CAN THE PARTY CONTINUE?	
Natural Gas	
Coal	
Nuclear Power	
Wind	
Solar Power 156	
Hydrogen	
Hydroelectricity 168	
Geothermal Power	
Tides and Waves	
Biomass, Biodiesel, and Ethanol	
Fusion, Cold Fusion, and Free-Energy Devices	
Conservation: Efficiency and Curtailment	
Conscivation. Efficiency and Curtainnent	
CHAPTER 5: A BANQUET OF CONSEQUENCES	
The Economy – Physical and Financial187	
Transportation190	
Food and Agriculture	
Heating and Cooling198	
The Environment199	
Public Health201	
Information Storage, Processing, and Transmission203	
National Politics and Social Movements204	
The Geopolitics of Energy-Resource Competition210	
Taking It All In	
Chapter 6: Managing the Collapse:	
STRATEGIES AND RECOMMENDATIONS	
You, Your Home, and Your Family228	
Your Community234	
The Nation242	

The World	254
A Final Word	
Afterword to the Revised Edition	26
The Saudi Enigma	
Shell Game	
Oil's Depressing Outlook	
Significant New Reports	
The Iraq Quagmire	
The Curse of Free Energy	
Where the Real Hope Lies	
Notes	279
BIBLIOGRAPHY	289
Index	29
ABOUT THE AUTHOR	30