The Energy Reader

Edited by
Laura Nader
# Contents

List of Figures xii
List of Tables xiv
Preface xv
Laura Nader
Acknowledgments xx
Introduction 1
Laura Nader, Leticia Cesarino, and Chris Hebdon

## Part I The Energy Problem 17

1. Social Power and the Future 19
   Richard Newbold Adams

2. Energy and the Rise of American Industrial Society 32
   Ian Barbour, Harvey Brooks, Sanford Lakoff, and John Opie

3. Energy Transitions in Historical Perspective 45
   Martin Melosi
   Energy in Action 1 61
   Contemplating the Abyss: The Role of Environmental Degradation in the Collapse of Human Societies
   William Rees

4. Introduction to the Steady-State Economy 65
   Herman E. Daly
   Energy in Action 2 84
   Net-Zero Energy Home Generating an Energy Surplus
5. Dimensions of the “People Problem” in Energy Research and “the” Factual Basis of Dispersed Energy Futures  
Laura Nader and Norman Milleron  

Winona La Duke  

7. The House that Uranium Built: Perspectives on the Effects of Exposure on Individuals and Community  
Margaret Amalia Hiesinger  

8. Uranium Mining and Milling: Navajo Experiences in the American Southwest  
Barbara Rose Johnston, Susan E. Dawson, and Gary E. Madsen  

<table>
<thead>
<tr>
<th>Part II</th>
<th>Mind-Sets – a Critical Perspective</th>
<th>147</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Charles A. Beard</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>On the Road to Riches</td>
<td>162</td>
</tr>
<tr>
<td></td>
<td>Henry Ford</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Energy Strategy: The Road Not Taken?</td>
<td>166</td>
</tr>
<tr>
<td></td>
<td>Amory B. Lovins</td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Barriers to Thinking New About Energy</td>
<td>198</td>
</tr>
<tr>
<td></td>
<td>Laura Nader</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laura Nader</td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>Energy as it Relates to the Quality and Style of Life</td>
<td>219</td>
</tr>
<tr>
<td></td>
<td>Laura Nader and Stephen Beckerman</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Conclusions – Replacing Myths with Maxims: Rethinking the Relationship Between Energy and American Society</td>
<td>246</td>
</tr>
<tr>
<td></td>
<td>Benjamin K. Sovacool and Marilyn A. Brown</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part III</th>
<th>The Politics of Energy</th>
<th>265</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Barry Commoner</td>
<td></td>
</tr>
</tbody>
</table>
17. The Middle East: Geostrategy and Oil
Rashid Khalidi

18. Winning the Oil Endgame
Amory B. Lovins

19. "Introduction," Power Struggle: The 100 Year
War Over Electricity
Richard Rudolph and Scott Ridley

20. The Overcharge in the Light Bill
US Senator Lee Metcalf and Vic Reinemer

21. Human Rights
Jim Garrison and Pyare Shivpuri

Energy in Action 4
Three Mile Island: 30th Anniversary of the Worst Nuclear
Accident in US History

Laura Nader

Energy in Action 5
A New Gang Comes to Los Angeles: Solar-Panel Installers
Miriam Jordan

Part IV Energy Choices

"Coal and Corporate Power;" Coal: A Memoir and Critique
Duane Lockard

Energy in Action 6
Rural Renewal: Small-Town America Looks to Alternative
Energy for a Lifeline
Jennifer Vogel

24. There Was Blood
Caleb Crain

Energy in Action 7
Capitol Climate Action: Mass Civil Disobedience
in DC Against Use of Coal at Capitol Hill Power
Plant

25. Unconventional Crude: Canada's Synthetic-Fuels Boom
Elizabeth Kolbert

Energy in Action 8
Poop Powers California Cars as Orange County
Contents

Converts Sewage
Alan Ohnsman

26. Nuclear Power: Climate Fix or Folly? 380
Amory B. Lovins, Imran Sheikh, and Alex Markevich

Energy in Action 9
Power Q&A: S. David Freeman
Dave Gilson

27. Solar Possibilities 402
Denis Hayes

Energy in Action 10
Workers Retrain for Wind-Energy Jobs
Maria Dickerson

28. Cool Communities: Strategies for Heat Island 415
Mitigation and Smog Reduction
Arthur H. Rosenfeld, Hashem Akbari, Joseph J. Romm, and Melvin Pomerantz

Energy in Action 11
First Rosebud Wind Turbine Generates Support: An Interview with Intertribal COUP Secretary
Robert Gough
Tara Tidwell

29. Ethanol Production: Energy, Economic, and Environmental Losses 442
David Pimentel, Tad Patzek, and Gerald Cecil

Energy in Action 12
Biofuels Do Far More Harm Than Good
George Monbiot

Part V Power Shifts 461

30. Natural Capitalism 463
Paul Hawken

Energy in Action 13
With Energy in Focus, Heat Pumps Win Fans
Liz Galst

31. An Unstable Concoction of Interests 479
Tadeusz W. Patzek