

1 | ENERGY AND HUMAN WELFARE—A CRITICAL ANALYSIS

*A Selection of Papers on the Social,
Technological, and Environmental
Problems of Electric Power Consumption*

Edited by

BARRY COMMONER 2
HOWARD BOKSENBAUM
MICHAEL CORR

*Prepared for the Electric Power Task Force of the Scientists'
Institute for Public Information and the Power Study Group
of the American Association for the Advancement of Science
Committee on Environmental Alterations*

VOLUME II

3 | Alternative Technologies for Power Production

MACMILLAN INFORMATION
A Division of Macmillan Publishing Co., Inc.
New York

Contents

Statement of the AAAS	vii
Statement of the CEA	ix
Acknowledgments	xi
Preface/ <i>Barry Commoner</i>	xiii
Chapter 1 Fossil Fuel Resources/ <i>Robert Williams</i>	1
Chapter 2 Fission Fuel Resources/ <i>Robert Williams</i>	24
Chapter 3 The Fossil Fuel Development Gap/ <i>Arthur M. Squires</i>	43
Chapter 4 Synthetic Fuels from Coal/ <i>Michael Fortune</i>	79
Chapter 5 The Black Box: The Fuel Cell/ <i>Terri Aaronson</i>	102
Chapter 6 Wasted Solids as an Energy Resource/ <i>Richard C. Bailie</i>	117
Chapter 7 Controlled Nuclear Fusion: Status and Outlook/ <i>David J. Rose</i>	131
Chapter 8 Geothermal Energy/ <i>Marc Kramer, David Fenner, Joseph Klarmann, and Robert Williams</i>	161
Chapter 9 Solar Energy/ <i>Arthur R. Tamplin</i>	187
Index	207