

1. Record Nr.	UNINA9910812211103321
Titolo	The ecology of industry : sectors and linkages // edited by Deanna J. Richards and Greg Pearson ; National Academy of Engineering
Pubbl/distr/stampa	Washington D.C., : National Academy Press, 1998
ISBN	1-280-21027-3 9786610210275 0-309-59273-9 0-585-03759-0
Edizione	[1st ed.]
Descrizione fisica	ix, 149 p. : ill
Altri autori (Persone)	RichardsDeanna J PearsonGreg
Disciplina	363.73/1
Soggetti	Manufacturing industries - Environmental aspects Electric utilities - Environmental aspects Wood-pulp industry - Environmental aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The Ecology of Industry -- Copyright -- Preface -- Acknowledgments -- THE EXTRACTIVE INDUSTRIES -- PRIMARY MATERIALS PROCESSING -- MANUFACTURING -- ELECTRIC UTILITIES -- PULP AND PAPER -- Contents -- Overview and Perspectives -- FIRM MOTIVATION AND EXTERNAL STIMULI -- THE TECHNOLOGICAL LINK IN THE EVOLUTION OF INDUSTRIAL SYSTEMS -- INTERCONNECTED COMPLEX SYSTEMS OF PRODUCTION AND CONSUMPTION -- THE INFORMATION-KNOWLEDGE CONNECTION -- CONCLUSION -- NOTES -- REFERENCES -- The Extractive Industries -- INTRODUCTION -- ENVIRONMENTAL STEWARDSHIP -- ENVIRONMENTAL REGULATIONS -- LIFE-CYCLE PRACTICES -- CULTURAL AND ORGANIZATIONAL CHANGE -- REFERENCES -- Primary Materials Processing -- SUMMARY -- ENVIRONMENTAL STEWARDSHIP -- REGULATIONS AND STANDARDS -- LIFE-CYCLE PRACTICES -- CULTURAL AND ORGANIZATIONAL CHANGE -- REFERENCES -- Manufacturing -- ENVIRONMENTAL STEWARDSHIP -- The Role of Management -- Stages in the Product Life Cycle -- EFFECT OF REGULATIONS AND STANDARDS -- End-of-Pipe" Laws -- Activities

of International Standards-Setting Organizations -- Waste
Minimization, Packaging, and Product Take-Back -- Labeling Programs
-- ENVIRONMENTAL METRICS -- LIFE-CYCLE ASSESSMENT --
CULTURAL AND ORGANIZATIONAL CHANGE -- Managing Environmental
Costs -- Altering the Structure of Demand -- Recognizing the Key Role
of the Designer -- BREAKING BARRIERS AND CREATING OPPORTUNITIES
-- Intraorganizational Barriers -- Societal and Institutional Barriers --
UNRESOLVED QUESTIONS -- CONCLUSION -- REFERENCES -- The
Electric Utility Industry -- SUMMARY -- BEYOND COMPLIANCE TO
STEWARDSHIP -- PURSUING ENVIRONMENTAL EXCELLENCE -- THE
IMPORTANCE OF COMMUNICATION -- THE IMPORTANCE OF
MEASURING ENVIRONMENTAL PERFORMANCE -- THE UNIQUE
CONTRIBUTIONS AND CAPABILITIES OF ELECTRICITY -- Beneficial
Electrification -- Industrial Electrotechnologies.
Electrotechnologies for Municipal Water and Waste Treatment --
Medical-Waste Treatment -- Transportation --
HOW ELECTRIC UTILITIES ARE ADDRESSING POLLUTION PREVENTION --
Use of High-Volume By-Products -- Management of Low-Volume or
Noncombustion Waste -- TOWARD A MORE SYSTEMATIC APPROACH:
LIFE-CYCLE COST MANAGEMENT, WASTE ACCOUNTING
AND RISK MANAGEMENT -- Full-Cost Accounting -- CONCLUSION --
NOTE -- REFERENCES -- The Pulp and Paper Industry --
INTRODUCTION -- ENVIRONMENTAL STEWARDSHIP -- Silviculture:
Managed Forestry -- Harvesting Methods -- Protection of Threatened
and Endangered Species -- Potential Restrictions on Wood Harvesting
-- Turning Wood into Paper -- The Pulping Process -- Bleaching of
Pulp -- Meeting Environmental Challenges Head On -- Conserving
Water and Treating Wastewater -- Solid Waste Disposal -- Controlling
Spills and Leaks -- Conserving Energy -- Controlling Odor --
CURRENT AND FUTURE TRENDS SHAPING TECHNOLOGY IN
THE INDUSTRY -- Minimal-Impact Philosophy -- Paper Recycling --
Other Factors -- REGULATIONS AND STANDARDS -- Regulatory Trends:
Where We Are Today -- The Industry's Record -- Regulatory Trends:
Where we are Headed -- The Current Regulatory Process -- Litigation
-- NONREGULATORY ENVIRONMENTAL PRESSURES -- ENVIRONMENTAL
PERFORMANCE METRICS -- Life-Cycle Assessment -- THE CHANGING
CORPORATE CULTURE -- Voluntary Programs -- The Role of Public
Opinion and Customer Demands -- Shaping a Positive Future --
IMPROVING INDUSTRY ENVIRONMENTAL PRACTICES -- Setting
Environmental Objectives -- Enhancing Public Understanding of
Environmental Science -- Creating Incentives and Encouraging
Flexibility -- Facility Modernization -- Creating a Climate for
Innovation -- Encouraging Cautious Consideration of Life-Cycle
Assessment -- REFERENCES -- Biographical Data.
