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978-1-108-42244-4 — Preventing Environmental Damage from Products  
Edited by Eléonore Maitre-Ekern, Carl Dalhammar, Hans Christian Bugge  
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‘This book is a welcome contribution to our understanding of product policy. It provides a systematic analysis of key elements of product policy – law, regulation, trade issues – and sophisticated exploration of the challenges to this approach to environmental policy. While product policy is most advanced in Europe, the integration of life-cycle thinking is growing worldwide. This book will be very useful to researchers, policy makers, and activists grappling with the many dimensions of product policy including eco-design, extended producer responsibility, chemicals in products, and eco-labels, and their many intersections.’

– **Reid Lifset**, Editor of *Journal of Industrial Ecology*,  
School of Forestry & Environmental Studies, Yale University

‘The anthology contains a number of insightful analyses that provide new and refreshing perspectives on issues ranging from how to reduce the impact from different types of products, to the need for regulations due to market failures, and the vulnerability of markets to violations by powerful suppliers. All in all, the book brings the reader up-to-date on the complex issues related to environmental regulations for products and provides a unique overview of the area. Time well spent!’

– **Mats Larsson**, IUC Syd, author of *Circular Business Models* and  
*The Business of Global Energy Transformation*

‘Every environmental lawyer needs this book. Too little attention goes to pollution from products. Yet from cars to plastics, making, using and disposing of products create some of today’s biggest pollution problems. This book provides the most comprehensive discussion of these issues to date. The authors are leading experts and bring rigour and clarity to their work. If you use law to protect the planet, or simply want to understand the Herculean tasks we face, order your copy.’

– **James Thornton**, environmental lawyer and founding  
CEO of ClientEarth

‘This book makes a compelling case for strengthening product design in order to minimise environmental impacts through the life cycle. From energy efficiency requirements to durability, reparability and recyclability standards, it explains how product-oriented environmental laws can help solve some of the most pressing issues of our time.’

– **Jeremy Wates**, Secretary General of the European  
Environmental Bureau

‘This edited volume truly engages the reader with its thoughtful treatment of environmental product policies. The book skilfully interweaves topical legal and policy considerations in its exploration of major themes and cases in this field, which the circular economy discourse has brought (back) to the forefront of developments.’

– **Harri Kalimo**, Jean Monnet Professor, Institute for  
European Studies, Vrije Universiteit Brussel

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## PREVENTING ENVIRONMENTAL DAMAGE FROM PRODUCTS

How to tackle environmental damage from the throwaway society is one of the defining questions of the twenty-first century. We must encourage and support sustainable production and consumption, notably through the establishment of a circular economy. These essays by an international group of leading scholars from a range of disciplines analyse policies and legal instruments and challenge mainstream assumptions, from the choice of a policy mix to the actual effect of imposing standards on the market, and from corporate objectives and priorities to the use of precaution in assessing particularly harmful substances. Each chapter contributes to a better understanding of the current policy and regulatory framework in Europe and identifies the challenges and opportunities ahead. The book breaks new ground by examining how product policies can contribute to important objectives and visions. It is a must-read for researchers as well as for policymakers and practitioners.

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# PREVENTING ENVIRONMENTAL DAMAGE FROM PRODUCTS

An Analysis of the Policy and  
Regulatory Framework in Europe

*Edited by*

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Environmental pollution is an incurable disease. It can only be prevented.

Barry Commoner

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*Law and Sustainability: Legal Barriers and Opportunities* (Cambridge University Press, 2015, co-editor Benjamin Richardson) and *Sustainable Public Procurement under EU Law: New Perspectives on the State as Stakeholder* (Cambridge University Press, 2016, co-editor Anja Wiesbrock). Many of Beate's papers are available at <http://ssrn.com/author=375947>.

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from Lund University. One of the key policy areas to attract her attention in the past fifteen years is based on the concept of extended producer responsibility (EPR). Her research has been commissioned/funded by various levels of government – Organisation for Economic Co-operation and Development, European Union, Nordic Council of Ministers, Sweden – as well as by prominent environmental non-governmental organizations and industries.

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ABBREVIATIONS

APRSCP	Asia Pacific Roundtable on Sustainable Consumption and Production
BEUC	Bureau Européen des Unions de Consommateurs (European Consumer Association)
BPA	Bisphenol-A
BPR	Biocidal Product Regulation
CARB	Californian Air Resources Board
CC	Consumer Code
CCS	Carbon Capture and Storage
CE	Circular Economy
CECED	European Committee of Domestic Equipment Manufacturers
CEN	European Committee for Standardization
CENELEC	European Committee for Electrotechnical Standardization
CETA	Comprehensive Economic and Trade Agreement
CJEU	Court of Justice of the European Union
CMR	Carcinogenic, Mutagenic, Toxic for Reproduction
CO <sub>2</sub>	Carbon Dioxide
CoRAP	Community Rolling Action Plan
CSR	Chemical Safety Report
DDT	Dichlorodiphenyltrichloroethane
DG	Directorate General
DOE	Department of Energy (US)
EC	European Community
ECHA	European Chemicals Agency
EDCs	Endocrine Disruptive Chemicals
EDs	Endocrine Disruptors
EEA	European Environment Agency
EEE	Electrical and Electronic Equipment
EESC	European Economic and Social Committee
EFTA	European Free Trade Association
EoL	End-of-Life
EPA	Environmental Protection Agency (US)
EPD	Environmental Product Declarations

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EPR	Extended Producer Responsibility
ES	Endocrine Society
ESOs	European Standardization Organizations
EU	European Union
FSC	Forest Stewardship Council
GDP	Gross Domestic Product
GHG	Greenhouse Gas
GMOs	Genetically Modified Organisms
GPP	Green Public Procurement
ICT	Information and Communications Technology
IEA	International Energy Agency
IIIEE	International Institute for Industrial Environmental Economics (Lund University)
IMCO	Committee on Internal Market and Consumer Protection of the European Parliament
IMs	Implementing Measures
IPP	Integrated Product Policy
ISO	International Standards Organization
IT	Information Technology
JRC	Joint Research Centre of the European Commission
KBA	Kraftfahrbundesamt (German Federal Motor Transport Authority)
LCA	Life Cycle Assessment
LCC	Life Cycle Costing
LED	Light-Emitting Diode
LEED	Leadership in Energy and Environmental Design
LLCC	Least Life Cycle Costs
MEEQR	Measure Having Equivalent Effect to Quantitative Restrictions
MEErP	Methodology for the Ecodesign of Energy-Related Products
MEPS	Mandatory Minimum Energy Performance Standards
NGOs	Non-governmental Organizations
NO <sub>x</sub>	Nitrogen Oxide
OECD	Organization for Economic Cooperation and Development
PBB	Polybrominated Biphenyls
PBDE	Polybrominated Diphenyl Ethers
PBT	Persistent, Bioaccumulative and Toxic
POPs	Persistent Organic Pollutants
PP	Public Procurement
PPI	Public Procurement for Innovation
PPMs	Processing and Production Methods
PPPR	Plant Protection Products Regulation
PSS	Product–Service Systems
PVC	Polyvinyl Chloride

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R&D	Research and Development
RA	Risk Assessment
RDE	Real Driving Emissions
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RoHS	Restriction of the Use of Certain Hazardous Substances
RPM	Revolutions per Minute
RSL	Restricted Substance List
RT	Regulatory Toxicology
SDGs	UN Sustainable Development Goals
SPP	Sustainable Public Procurement
SVHC	Substance of Very High Concern
TEU	Treaty on European Union
TFEU	Treaty on the Functioning of the European Union
TTIP	Transatlantic Trade and Investment Partnership
UN	United Nations
UNEP	United Nations Environment Programme
vPvB	Very Persistent and Very Bioaccumulative
VW	Volkswagen
WEEE	Waste Electrical and Electronic Equipment
WFD	Waste Framework Directive
WHO	World Health Organization
WHO/IPCS	International Programme on Chemical Safety (WHO)
WTO	World Trade Organization