

Global Environmental Commons

Analytical and Political Challenges in Building Governance Mechanisms

Edited by Eric Brousseau, Tom Dedeurwaerdere, Pierre-André Jouvet, and Marc Willinger

464 pages - 26 July 2012 – Oxford University Press

Abstract

Environmental challenges, and the potential solutions to address them, have a direct effect on living standards, the organization of economies, major infrastructures, and modes of urbanization. Since the publication of path-breaking contributions on the governance of environmental resources in the early 1990s, many political initiatives have been taken, numerous governance experiments have been conducted, and a large multi-disciplinary field of research has opened up. This interdisciplinary book takes stock of the knowledge that has accumulated to date, and addresses new challenges in the provision of environmental goods. It focuses on three essential dimensions with respect to governance. First, it addresses the issue of designing governance solutions through analyzing systems of rules, and levels of organization, in the governance and management of environmental issues. Second, it draws renewed attention to the negotiation processes among stakeholders playing a crucial role in reaching agreements over issues and solutions, and in choosing and implementing particular policy instruments. Finally, it shows that compliance depends on a combination of formal rules, enforced by recognized authorities, and informal obligations, such as social and individual norms.

The evolution of the research frontiers on environmental governance shows that more legitimate and informed processes of collective decision, and more subtle and effective ways of managing compliance, can contribute to more effective policy. However, this book also illustrates that more democratic and effective governance should rely on more direct and pluralistic forms of involvement of citizens and stakeholders in the collective decision making processes.

Global Environmental Commons

Analytical and Political Challenges in Building Governance Mechanisms

Edited by
ERIC BROUSSEAU, TOM DEDEURWAERDERE,
PIERRE-ANDRÉ JOUVET, MARC WILLINGER





Great Clarendon Street, Oxford, OX2 6DP, United Kingdom

Oxford University Press is a department of the University of Oxford.

It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide. Oxford is a registered trade mark of Oxford University Press in the UK and in certain other countries

© Oxford University Press 2012

The moral rights of the author have been asserted

First Edition published in 2012

Impression: 1

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior permission in writing of Oxford University Press, or as expressly permitted by law, by licence or under terms agreed with the appropriate reprographics rights organization. Enquiries concerning reproduction outside the scope of the above should be sent to the Rights Department, Oxford University Press, at the address above

You must not circulate this work in any other form and you must impose this same condition on any acquirer

British Library Cataloguing in Publication Data

Data available

Library of Congress Cataloging in Publication Data

Data available

ISBN 978-0-19-965620-2

Printed in Great Britain by MPG Books Group, Bodmin and King's Lynn

Links to third party websites are provided by Oxford in good faith and for information only. Oxford disclaims any responsibility for the materials contained in any third party website referenced in this work.

To Elinor Ostrom whose contributions to the analysis of environmental governance inspire major advances.

Contents

List of Figures List of Tables List of Abbreviations List of Contributors	xiii
1. Introduction: Global Environmental Commons: Analytical and Political Challenges in Building Governance Mechanisms Eric Brousseau, Tom Dedeurwaerdere, Pierre-André Jouvet, and Marc Willinger	1
Part I: Global Issues: Environmental and Governance Challenge	'S
2. Environmental Governance: The Aspect of Coordination Arild Vatn	31
3. The Governance of International Environmental Public Goods Charles Perrings	54
4. Navigating the Sustainability Transition: Governing Complex and Dynamic Socio-ecological Systems Oran R. Young	80
Part II: Adressing Global Issues by Articulating Local Governance Frameworks	
5. Polycentric Systems: Multilevel Governance Involving a Diversity of Organizations Elinor Ostrom	f 105
6. Bargaining over Global Public Goods Ben Groom, J. Rupert Gatti, Timo Goeschl, and Timothy Swanson	126
7. Coalition Theory and Integrated Assessment Modeling: Lessons for Climate Governance Thierry Bréchet and Johan Eyckmans	162
8. Governance Issues in a Multinational Cap-and-Trade System: Centralization and Harmonization Denny Ellerman	180

Part III: Designing Institutions Taking into Account Social Preferences

9.	Social Capital and Collective Action in Environmental Governance Revisited Hiroe Ishihara and Unai Pascual	199
10.	Global Environmental Problems, Voluntary Action, and Government Intervention Andries Richter and Daan van Soest	223
11.	De Rationibus est Disputandum: Profiling "Warm-glowers" Paulo A. L. D. Nunes and Laura Onofri	249
	Part IV: Designing Incentives Mechanisms under the Constraints of the Socio-political Game	
12.	Designing Incentives Regulation for the Environment <i>Michael Faure</i>	275
13.	Property Rights as Solutions to the Problems of Open Access: Options and Constraints Gary D. Libecap	308
14.	Managing the Global Commons: Principles and Practice Graciela Chichilnisky	325
15.	Conclusion: Governance and Environment: Policy Challenges and Research Questions Eric Brousseau, Tom Dedeurwaerdere, Pierre-André Jouvet, and Marc Willinger	349
	ssary	370 384
Index		

List of Figures

Figure 6.1	Schematic representation of the biotech industry	134
Figure 6.2	The conflict point and the bargaining frontier	136
Figure 6.3	Conflict points and bargaining frontiers	139
Figure 6.4	The bargaining problem with strategic threats	148
Figure 6.5	Credible strategic threats	150
Figure 7.1	Overview of the CWS integrated assessment model	169
Figure 9.1	Conceptual framework of the role of social capital in fostering collective action	210
Figure 9.2	Interpretation failures and legitimacy failures	216
Figure 9.3	Interaction between "public" and "hidden" common knowledge	220
Figure 10.	1 The concept of crowding-out	226
Figure 10.	2 Reversible and irreversible changes in behavior	242