

Contents

Part I Modelling Macroeconomic Scenarios: Energy Issues, Economic Performances and Environmental Policy	
1 The GTAP-E: Model Description and Improvements	3
Alessandro Antimiani, Valeria Costantini, Chiara Martini, Alessandro Palma, and Maria Cristina Tommasino	
2 Carbon Leakage and Trade Adjustment Policies	25
Alessandro Antimiani, Valeria Costantini, Chiara Martini, Luca Salvatici, and Maria Cristina Tommasino	
3 Theoretical Approaches to Dynamic Efficiency in Policy Contexts: The Case of Renewable Electricity	45
Pablo Del R�o and Mercedes Bleda	
4 Energy Efficiency Policy in the USA: The Impact of the Industrial Assessment Centres (IAC) Programme and State and Regional Climate Policy Actions	61
Luis Maria Abadie, Ramon Arigoni Ortiz, Ibon Galarraga, and Anil Markandya	
5 The Role and Effectiveness of Environmental and Social Regulations in Creating Innovation Offsets and Enhancing Firm Competitiveness	83
Marcus Wagner	
Part II Environmental Innovation and Competitiveness: Linking Micro, Meso and Macro Analysis in the Dynamics	
6 Implications of Policy Uncertainty for Innovation in Environmental Technologies: The Case of Public R&D Budgets	99
Margarita Kalamova, Nick Johnstone, and Ivan Ha�e�i�	

7 Eco-Activity and Innovativeness: What Is Their Relation to Environmental Performance in Consumer Firms and Industrial Firms? 117
Nicoline Oehme and René Kemp

8 Environmental Policy and Induced Technological Change in European Industries 143
Francesco Crespi

9 Closing the Gap? Dynamic Analyses of Emission Efficiency and Sector Productivity in Europe 159
Giovanni Marin

10 Waste Technological Dynamics and Policy Effects: Evidence from OECD Patent Data 179
Francesco Nicolli

11 BioPat: An Investigation Tool for Analysis of Industry Evolution, Technological Paths and Policy Impact in the Biofuels Sector 203
Valeria Costantini, Francesco Crespi, and Ylenia Curci

Index 227



<http://www.springer.com/978-94-007-5088-3>

The Dynamics of Environmental and Economic Systems
Innovation, Environmental Policy and Competitiveness

Costantini, V.; Mazzanti, M. (Eds.)

2013, XXII, 234 p., Hardcover

ISBN: 978-94-007-5088-3