

Contents

Part I Sustainability and Urban Planning

- 1 Urban Planning in Developing World: Which Alternative for Poor Cities?** 3
Jean-Claude Bolay
- 2 Social and Economic Management of Sustainable Neighborhoods Regeneration Projects** 19
Alejandro Bosqued, Francisco Javier Gonzalez and Susana Moreno
- 3 Urban Planning Research in the Climate Change Era: Transdisciplinary Approach Toward Sustainable Cities.** 37
Masanobu Kii, Kenji Doi and Kazuki Nakamura
- 4 Edge Open Spaces in Madrid and Its Metropolitan Area (Spain), Sustainable Urban Planning and Environmental Values** 53
Fernando Allende, Elia Canosa, Nieves López and Gillian Gómez
- 5 Controlled Landscapes or Building Sustainability in Public Spaces. Case of Studies of Padova and Moscow** 85
Elena Merino Gómez and Fernando Moral Andrés
- 6 Occupation of the Territory and Sustainability in Transport in Madrid.** 107
Alberto Leboreiro Amaro
- 7 Private Vehicle and Greenhouse Gas Emissions in Spain: A War Without Winner** 157
Francesc Clar and Roberto Álvarez

Part II Urban Planning Policy Implications

- 8 Implementing COP 21.** 179
Jan-Erik Lane

9	Do Municipalities Have the Right Tools to Become Zero Carbon Emissions Cities? <i>ACCENT</i>, a Pan-European Decision-Support Tool to Take Refurbishment Decisions at City Scale Based on Buildings Energy Performance	203
	Carolina Mateo-Cecilia, Vera Valero-Escribano and Miriam Navarro-Escudero	
10	Towards a Climate-Resilient City: Collaborative Innovation for a ‘Green Shift’ in Oslo	221
	Hege Hofstad and Jacob Torfing	
11	Energy Innovation in the Environmental Kuznets Curve (EKC): A Theoretical Approach	243
	Daniel Balsalobre-Lorente, Muhammad Shahbaz, José Luis Ponz-Tienda and José María Cantos-Cantos	
12	Marginal Abatement Cost Curves (MACC): Unsolved Issues, Anomalies, and Alternative Proposals	269
	José Luis Ponz-Tienda, Andrea Victoria Prada-Hernández, Alejandro Salcedo-Bernal and Daniel Balsalobre-Lorente	
13	Global and Local: Climate Change Policies as a Paradigm of Multilevel Governance	289
	Susana Galera	
 Part III Metrics for the Sustainability of Infrastructure Projects		
14	Carbon Footprint of Human Settlements in Spain	307
	Guadalupe Arce, Jorge Enrique Zafrilla, Luis-Antonio López and María Ángeles Tobarra	
15	Theoretical Analysis of the Metrics for Measuring the Sustainability of Infrastructure Projects	325
	Olalekan Oshodi and Clinton Aigbavboa	
16	Impact of Urban Policy on Public Transportation in Gauteng, South Africa: Smart or Dumb City Systems Is the Question	339
	Walter Musakwa and Trynos Gumbo	
 Part IV Methodology for Calculating Industrial Carbon Footprints		
17	Technologies for the Bio-conversion of GHGs into High Added Value Products: Current State and Future Prospects	359
	Sara Cantera, Osvaldo D. Frutos, Juan Carlos López, Raquel Lebrero and Raúl Muñoz Torre	

Part V Modelling a Low-Carbon City: Eco-city and Eco-planning

- 18 The Architecture and the Value of the Waste.** 391
Sara Marini
- 19 Modeling a Low-Carbon City: Eco-city and Eco-planning.** 407
Wynand Lambrechts and Saurabh Sinha

Part VI Characterization of Industrial GHG Emission Sources in Urban Planning

- 20 Characterization of Industrial GHG Emission Sources
in Urban Planning.** 447
Wynand Lambrechts and Saurabh Sinha
- 21 From Grey Towards Green. About the Urban Energy
Fold at Symbiont City.** 485
Nieves Mestre, Lucelia Rodrigues, Eva Hurtado and Eduardo Roig
- 22 Does Urban Living Reduce Energy Use?.** 501
Arjan Harbers
- 23 The Challenge of Urbanization in the Context
of the New Urban Agenda: Towards a Sustainable
Optimization of the Urban Standards** 519
Alexandra Delgado-Jiménez and Jesús Arcediano

Carbon Footprint and the Industrial Life Cycle

From Urban Planning to Recycling

Álvarez Fernández, R.; Zubelzu, S.; Martínez, R. (Eds.)

2017, XII, 550 p. 202 illus., Hardcover

ISBN: 978-3-319-54983-5