Sustainable Systems and Energy Management at the Regional Level: Comparative Approaches

Marco Tortora (University of Florence, Italy)

Conducting a systematic and comparative review of energy and environmental issues, especially at the regional and national levels, can improve communication among different disciplines and be helpful for managers, politicians, and stakeholders involved in energy and environmental systems.

Sustainable Systems and Energy Management at the Regional Level: Comparative Approaches provides an interdisciplinary look at the possible relationships which exist between energy and the environment. Relevant theoretical frameworks and the latest empirical research findings on the impacts of regulation policies, market-facilitation policies, and communication models and policies are reviewed with the aim of improving understanding and strategy.

Topics Covered:
- Barriers to Greener Fiscal Measures
- Climate Change
- Energy and Socioeconomic Development
- European Energy Security and Sustainability
- Geothermal Energy
- Globalization of Environmental Issues
- Liquid and Gaseous Biofuels
- Production and Consumption of Renewable Energy
- Sustainability in the Energy Sector
- Sustainable Governance

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.
Section 1: Regulatory Impacts

Chapter 1
Government Policies to Promote Production and Consumption of Renewable Electricity in the US
Kim Eun-Hee (George Washington University, USA)

Chapter 2
Assessing the Barriers to Greener Fiscal Measures and Ecological Tax Reform in the Transport Sector
Browne David (Trinity College, The University of Dublin, Ireland)
O'Mahony Margaret (Trinity College, The University of Dublin, Ireland)

Chapter 3
European Energy Security and Sustainability:
Zhuplev Anatoly (Loyola Marymount University, USA)
Shtykhno Dmitry A. (Plekhanov Russian University of Economics, Russia)

Chapter 4
Renewable Energy in Italy:
Fanetti Stefano (University of Milan, Italy)

Section 2: Policies and Incentives

Chapter 5
Technology Roadmapping: An Efficient Tool for Driving Regional Technological Changes:
Daim Tugrul U. (Portland State University, USA)
Oliver Terry (US Department of Energy, USA)
Iskin Ibrahim (Portland State University, USA)
Kim Jisun (US Department of Energy, USA)

Chapter 6
Production Costs and Net Energy Balance of Liquid and Gaseous Biofuels:
Randelli Filippo (University of Florence, Italy)

Chapter 7
Climate Change, Fuel Efficiency and Tax Revenue:
Borba Bruno Soares Moreira Cesar (Federal University of Rio de Janeiro, Brazil)
Rathmann Régis (Federal University of Rio de Janeiro, Brazil)
Branco David Alves Castelo (Federal University of Rio de Janeiro, Brazil)

Chapter 8
Globalization of the Environmental Issues:
Abdel Geil Ibrahim (Arabian Gulf University, Kingdom of Bahrain)

Chapter 9
Energy, Environment and Socio-Economic Development:
Appiah Divine Odame (Kwame Nkrumah University of Science and Technology, Ghana)
Kemausuor Francis (Kwame Nkrumah University of Science and Technology, Ghana)

Section 3: Experiences, Actions and Models

Chapter 10
Finding the Sweet Spot of Sustainability in the Energy Sector:
Higginson Nancy (University of Calgary, Canada)
Vreedenburg Harrie (University of Calgary, Canada)

Chapter 11
The Development of a Business Model for Exploiting Geothermal Energy:
Stenberg Esa (University of Turku, Finland)

Chapter 12
Use of Policy Instruments to Promote Sustainable Energy Practices and Implications for the Environment:
Hin Leo Tan Wee (Singapore National Academy of Science, Singapore & National University of Singapore, Singapore)
Subramaniam R. (Singapore National Academy of Science, Singapore & Nanyang Technological University, Singapore)

Chapter 13
Integrated Regional Energy Policy and Planning Framework:
Wang Young-Doo (University of Delaware, USA)
Chen Wei-Ming (University of Delaware, USA)
Park Yong-Kyu (University of Delaware, USA)

Chapter 14
Climate Change Policies—Mitigation and Adaptation at the Local Level:
Tozuza Lara Lázaro (IE University, Spain & Verde Economista, Mexico)
López-Gunn Elena (Water Observatory Botín Foundation, Spain & IE University, Spain)

Chapter 15
EU—GCC Clean Energy Cooperation:
Doukas Haris (National Technical University of Athens, Greece)
Makarouzi Ioanna (National Technical University of Athens, Greece)
Karakostra Charikleia (National Technical University of Athens, Greece)
Marinakis Vangelis (National Technical University of Athens, Greece)
Piaras John (National Technical University of Athens, Greece)

Section 4: Communications Policies

Chapter 16
Community Opposition and Public Engagement with Wind Energy in the UK
Cotton Matthew (University of Leeds, UK)

Chapter 17
Consulting Stakeholders?
Vasileiadou Eleftheria (VU University Amsterdam, The Netherlands)

Chapter 18
Grenelle Environment Project:
Pascelleds Clara (University of Sassari, Italy)

Chapter 19
Developing Sustainable Governance Systems for Regional Sustainability Programmes and 'Green' Business Practices:
Cadman Tim (University of Southern Queensland, Australia)
Hume Margee (University of Southern Queensland, Australia)