### Contents

Energy Policy and Security Through the Lenses of Stochastic Portfolio Theory and the ACEGES Model .............................. 1  
Vlasios Voudouris

Energy Security as a Subset of National Security .................. 11  
Chris Flaherty and Walter Leal Filho

Challenges to Global Energy Policy and Supply Security ........... 27  
Michael Jefferson

Change in Energy Structure and Energy Security under Climate Mitigation Scenarios ............................................... 45  
Ken’ichi Matsumoto

Insights on Cooperative Electricity Consumption in Human Aggregates from a Thermodynamic Analysis: Implications for Energy Policies .... 59  
Klaus Jaffe

The UK Electricity System and Its Resilience ........................ 75  
Sara L. Walker

The Macroeconomic Effects of Energy Purchases ...................... 103  
Carlo Di Maio

EU’s Dynamic Evaluation of Energy Efficiency: Combining Data Envelopment Analysis and Multicriteria Decision Making ............... 119  
Georgia Makridou, Kostas Andriosopoulos, Michael Doumpos, and Constantin Zopounidis

The Availability of European Oil and Gas Resources .................. 139  
Roberto F. Aguilera and Ronald D. Ripple

Energy Security: Stochastic Analysis of Oil Prices .................... 155  
Konstantinos Skindilias and Chia Chun Lo
Green Energy Development in China: The Case of Clean Coal Technologies .............................................. 179 
Jude Clemente

China’s New Energy Security: A Swing of the Pendulum ............... 195 
Guy C.K. Leung, Raymond Li, and Maximilian Kuhn

The Energy Efficiency Policy Initiatives and Energy Security: 
Experiences from India ......................................................... 209 
Sivani Dhanalekshmy

Impact of Shocks on Australian Coal Mining ......................... 231 
Svetlana Maslyuk and Dinusha Dharmaratna

Technology, Innovation, and Security: The Case of Renewable 
Technologies in the US Electricity Sector ............................... 257 
Edwin Garces and Tugrul Daim

An Overview of Energy Policy and Security in the Pacific Region ...... 277 
Shivneel Prasad, Veronika Schulte, and Pritika Bijay

The Evolution of the Spanish Energy System in the Context of Energy 
Security: Current Trends, Future Developments ........................ 293 
Rocio Valdivielso del Real

Energy, Development, and Economic Growth in Colombia ........... 311 
Clara Inés Pardo Martínez and Alexander Cotte Poveda
Global Energy Policy and Security
Leal Filho, W.; Voudouris, V. (Eds.)
2013, VIII, 330 p. 72 illus., Hardcover