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T	<b>Titolo</b>	Electricity Markets with Increasing Levels of Renewable Generation: Structure, Operation, Agent-based Simulation, and Emerging Designs / / edited by Fernando Lopes, Helder Coelho
F	Pubbl/distr/stampa	Cham:,: Springer International Publishing:,: Imprint: Springer,, 2018
R	SBN	3-319-74263-9
E	Edizione	[1st ed. 2018.]
	Descrizione fisica	1 online resource (327 pages) : illustrations, tables
C	Collana	Studies in Systems, Decision and Control, , 2198-4182 ; ; 144
	Disciplina	381.456213
S	Soggetti	Energy systems
		Computational intelligence
		Energy policy Energy and state
		Energy Systems
		Computational Intelligence
		Energy Policy, Economics and Management
L	ingua di pubblicazione	Inglese
F	ormato	Materiale a stampa
L	ivello bibliografico	Monografia
N	Nota di bibliografia	Includes bibliographical references at the end of each chapters.
N	Nota di contenuto	Overview of Wholesale Electricity Markets Market Prices in a Power Market with more than 50% Wind Power Incentivizing Flexibility in System Operations Requirements for Strategic Reserves in a Liberalized Market with Wind Power Renewable Generation, Support Policies and the Merit Order Effect: A Comprehensive Overview and the Case of Wind Power in Portugal Demand Response in Electricity
		Markets: An Overview and a Study of the Price-effect on the Iberian Daily Market Multi-Agent Electricity Markets and Smart Grids Simulation with Connection to Real Physical Resources.

generation (VG). Most EMs are unique in their complex relationships between economics and the physics of energy, but were created without the notion that large penetrations of variable generation (VG) would be part of the supply mix. An advanced multi-agent approach simulates the behavior of power markets over time, particularly markets with large-scale penetrations of renewable resources. It is intended as a reference book for researchers, academics and industry practitioners, but given the scope of the chapters and the highly accessible style, the book also provides a coherent foundation for several different graduate courses.