1. Record Nr. UNINA9910647230503321

Titolo	Demand response in smart grids / / edited by Pedro Faria, Zita Vale
Pubbl/distr/stampa	[Place of publication not identified] : , : MDPI - Multidisciplinary Digital Publishing Institute, , [2023] ©2023
ISBN	3-0365-5056-9
Descrizione fisica	1 online resource (240 pages)
Disciplina	621.31
Soggetti	Smart power grids Energy systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	About the Editors -- Pedro Faria and Zita Vale Demand Response in Smart Grids -- Hari Prasad Devarapalli, V. S. S. Siva Sarma Dhanikonda and Sitarama Brahmam Gunturi Non-Intrusive Identication of Load Patterns in Smart Homes Using Percentage Total Harmonic Distortion -- Huichao Ji, Junyou Yang, Haixin Wang, Kun Tian, Martin Onyeka Okoye and Jiawei Feng Electricity Consumption Prediction of Solid Electric Thermal Storage with a Cyber-Physical Approach -- Eunjung Lee, Jinho Kim and Dongsik Jang Load Prole Segmentation for Effective Residential Demand Response Program: Method and Evidence from Korean Pilot Study -- Xiaofeng Liu, Qi Wang and Wenting Wang Evolutionary Analysis for Residential Consumer Participating in Demand Response Considering Irrational Behavior -- Omid Abrishambaf, Pedro Faria and Zita Vale Ramping of Demand Response Event with Deploying Distinct Programs by an Aggregator -- Anders Clausen, Aisha Umair, Yves Demazeau and Bo Nørregaard Jørgensen Impact of Social Welfare Metrics on Energy Allocation in Multi-Objective Optimization -- Michel Zade, Zhengjie You, Babu Kumaran Nalini, Peter Tzscheutschler and Ulrich Wagner Quantifying the Flexibility of Electric Vehicles in Germany and California-A Case Study -- Alejandro Trista´n, Flurina Heuberger and Alexander Sauer A Methodology to Systematically Identify and Characterize Energy Flexibility Measures in Industrial Systems -- Abdellatif Elmouatamid, Radouane Ouladsine, Mohamed Bakhouya,

	Najib El Kamoun, Mohammed Khaidar and Khalid Zine-Dine Review of Control and Energy Management Approaches in Micro-Grid Systems -- Ildar Daminov, Re´my Rigo-Mariani, Raphael Caire, Anton Prokhorov and Marie-Ce´cile Alvarez-He´rault Demand Response Coupled with Dynamic Thermal Rating for Increased Transformer Reserve and Lifetime.
Sommario/riassunto	The Special Issue "Demand Response in Smart Grids" includes 11 papers on a variety of topics. The success of this Special Issue demonstrates the relevance of demand response programs and events in the operation of power and energy systems at both the distribution level and at the wide power system level. This reprint addresses the design, implementation, and operation of demand response programs, with focus on methods and techniques to achieve an optimized operation as well as on the electricity consumer.