

1. Record Nr.	UNINA9910372747403321
Autore	Németh Bálint
Titolo	Flexitranstore [[electronic resource]] : Special Session in the 21st International Symposium on High Voltage Engineering (ISH 2019) // edited by Bálint Németh, Lambros Ekonomou
Pubbl/distr/stampa	Cham, : Springer Nature, 2020 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-37818-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VI, 115 p. 43 illus., 37 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 610
Disciplina	621.317
Soggetti	Power electronics Electronics Microelectronics Power Electronics, Electrical Machines and Networks Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Assessing The Operational Flexibility in Power Systems With Energy Storage Integration -- Enabling Flexibility Through Wholesale Market Changes – A European Case Study -- Increasing the Flexibility of Continuous Intraday Markets in Europe -- An Improved Flexibility Metric Based on Kernel Density Estimators Applied on the Greek Power System -- Zero Renewable Incentive Analysis for Flexibility Study of a Grid -- Conflict of Interests between SPC-based BESS and UFLS Scheme Frequency Responses -- Power System Studies In The Clean Energy Era: From Capacity To Flexibility Adequacy Through Research And Innovation.
Sommario/riassunto	This open access book comprises 10 high-level papers on research and innovation within the Flexitranstore Project that were presented at the FLEXITRANSTORE special session organized as part of the 21st International Symposium on High Voltage Engineering. FLEXITRANSTORE (An Integrated Platform for Increased FLEXibility in smart TRANSMission grids with STORAge Entities and large penetration

of Renewable Energy Sources) aims to contribute to the development of a pan-European transmission network with high flexibility and high interconnection levels. This will facilitate the transformation of the current energy production mix by hosting an increasing share of renewable energy sources. Novel smart grid technologies, control and storage methods, and new market approaches will be developed, installed, demonstrated, and tested introducing flexibility to the European power system. FLEXITRANSTORE is developing a next-generation Flexible Energy Grid (FEG) that will be integrated into the European Internal Energy Market (IEM) through the valorization of flexibility services. This FEG addresses the capabilities of a power system to maintain continuous service in the face of rapid and large swings in supply or demand. As such, a wholesale market infrastructure and new business models within this integrated FEG must be upgraded for network players, and offer incentives for new ones to join, while at the same time demonstrating new business perspectives for cross-border resource management and energy trading.
