

1. Record Nr.	UNINA9910476770903321
Autore	Ustun Taha Selim
Titolo	Innovation in Energy Systems : : New Technologies for Changing Paradigms // Taha Selim Ustun
Pubbl/distr/stampa	2019 [s.l.] : , : IntechOpen, , 2019
ISBN	1-78985-591-8
Descrizione fisica	1 online resource (1 p.)
Soggetti	Technology & Engineering / Power Resources / Alternative & Renewable Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>It has been a little over a century since the inception of interconnected networks and little has changed in the way that they are operated. Demand-supply balance methods, protection schemes, business models for electric power companies, and future development considerations have remained the same until very recently. Distributed generators, storage devices, and electric vehicles have become widespread and disrupted century-old bulk generation - bulk transmission operation. Distribution networks are no longer passive networks and now contribute to power generation. Old billing and energy trading schemes cannot accommodate this change and need revision. Furthermore, bidirectional power flow is an unprecedented phenomenon in distribution networks and traditional protection schemes require a thorough fix for proper operation. This book aims to cover new technologies, methods, and approaches developed to meet the needs of this changing field.</p>