Record Nr. UNINA9910337596003321 Autore Petit Vincent **Titolo** The New World of Utilities: A Historical Transition Towards a New Energy System / / by Vincent Petit Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2019 **ISBN** 3-030-00187-3 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (211 pages) 333.7932 Disciplina Soggetti **Energy policy** Energy and state Management Industrial management **Energy systems** Natural resources Energy Policy, Economics and Management Innovation/Technology Management **Energy Systems** Natural Resource and Energy Economics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 1.Introduction -- 2.The Transition to a New Electric World -- 3.The Nota di contenuto Transition to a New Power Mix -- 4. The Transition to a New Grid -- 5. Solutions for a Sustainable Transition -- 6. Facilitating the Transition Through Digital Technologies. Sommario/riassunto After decades of stability, power systems are currently undergoing a rapid transition - demand patterns are evolving, while supply sources are shifting to renewable energies at an accelerated pace. This book, written by an experienced energy professional, combines the various aspects of supply and demand developments to offer a unified perspective. It highlights the key changes that the world of electric utilities and power systems will face in the coming decade, as well as

the major challenges that will emerge as a result. Supplemented by a

wealth of global and local data, the book describes the major patterns that affect both supply and demand, and provides a quantified analysis of their impacts on power system grids and markets. Lastly, it explores the new technologies that can enable the success of these transformations.