1.

Record Nr.	UNINA9910346772603321
Autore	Ringler PhilippSchermeyer, HansRuppert, ManuelHayn, MarianBertsch, ValentinKeles, Dogan Fichtner, Wolf
Titolo	Decentralized Energy Systems, Market Integration, Optimization
Pubbl/distr/stampa	KIT Scientific Publishing, 2016
ISBN	1000053596
Descrizione fisica	1 electronic resource (IV, 78 p. p.)
Collana	Produktion und Energie / Karlsruher Institut für Technologie, Institut für Industriebetriebslehre und industrielle Produktion u. Deutsch-Französisches Institut für Umweltforschung
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In this study we develop a flexible modeling toolbox for decentralized electricity systems with an agent-based simulation approach at its core. Two RES-E generation models for wind and PV each with a high temporal and spatial resolution are presented and approaches to model specific aspects of the demand side in detail are introduced. The implementation of an AC load flow algorithm is described and the concept of a market-based congestion management mechanism is outlined.