The widespread introduction of renewable energy production is transforming electricity markets all around the globe. The changes are often hard to anticipate for market participants and the resulting uncertainty about future market conditions, policy regimes, technologies, and prices makes participation in these markets risky. In this article, we focus on changes induced by the growing capacities of wind power and photovoltaic electricity production. We highlight some aspects of power markets that are currently changing fundamentally due to increased capacities in these technologies. In particular, we discuss technological development, predictability and stochastic modeling of wind and solar output, policy issues pertaining to subsidies for renewable energies, and effects on the electricity prices on spot markets. We illustrate our findings using data from Germany and the Californian electricity market.
Intellectual Contribution: Discipline-based Research
Verlag / Institution: Springer
Verlagsort: NY, USA
Jahr: 2013
Nachgewiesen in: Scopus
Print-ISBN: 978-1-4614-9034-0
E-ISBN: 978-1-4614-9035-7
Sprache: en
DOI-Link: http://doi.org/10.1007/978-1-4614-9035-7_12
WWW: http://link.springer.com/chapter/10.1007%25252F978-1-4614-9035-7_12
Format: Text
CC-Lizenz: by, http://creativecommons.org/licenses/by/4.0
Key publication: Nein
Peer reviewed: nein
International: Ja
Book review: Nein
commissioned: not commissioned
Kategorie: research
Interdisziplinarität: Ja
Leitbild: Energy, Climate, Environment
Ethics & Sustainability: Ja
Occurences: · Einrichtungen > Fakultäten > Fakultät für Wirtschaftswissenschaften > Kompetenzfelder > Finance & Accounting > Professorship Investment, Finance and Risk Management in Energy Markets (Prof. Wozabal) > Book / Book Section
entries: