Accepted Manuscript

Local Matching of Flexible Load in Smart Grids

Philipp Ströhle, Christoph M. Flath

PII: \$0377-2217(16)30114-X DOI: 10.1016/j.ejor.2016.03.004

Reference: EOR 13566

To appear in: European Journal of Operational Research

Received date: 13 March 2014
Revised date: 8 February 2016
Accepted date: 2 March 2016



Please cite this article as: Philipp Ströhle, Christoph M. Flath, Local Matching of Flexible Load in Smart Grids, *European Journal of Operational Research* (2016), doi: 10.1016/j.ejor.2016.03.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- We present a model of flexible loads and renewable supply in the smart grid.
- Supply and demand are matched locally via an incentive compatible online mechanism.
- Demand flexibility reduces payments and increases allocation probability.
- Increasing demand flexibility will increase suppliers profits.
- The cost of establishing incentive compatibility is decreasing in flexibility.



Download English Version:

https://daneshyari.com/en/article/6895567

Download Persian Version:

https://daneshyari.com/article/6895567

Daneshyari.com