

# Accepted Manuscript

Portfolio and Contract Design for Demand Response Resources

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PII: S0377-2217(17)30807-X  
DOI: [10.1016/j.ejor.2017.09.017](https://doi.org/10.1016/j.ejor.2017.09.017)  
Reference: EOR 14695



To appear in: *European Journal of Operational Research*

Received date: 4 January 2016  
Revised date: 16 August 2017  
Accepted date: 12 September 2017

Please cite this article as: Johannes Gärtner, Christoph M. Flath, Christof Weinhardt, Portfolio and Contract Design for Demand Response Resources, *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.09.017](https://doi.org/10.1016/j.ejor.2017.09.017)

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**Highlights**

- We present a two-stage model of an aggregator portfolio and contract design problem
- The bi-level model includes an aggregator and customer perspective
- We explore three distinct contracting regimes
- The interplay between flexibility contracting and renewable generation is analyzed
- We investigate the impact of flexible supply cost on demand flexibility contracting

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