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DECENTRALIZED ENERGY SYSTEMS,  
MARKET INTEGRATION, OPTIMIZATION

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# Decentralized Energy Systems, Market Integration, Optimization



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In this study we create a flexible modeling toolbox for decentralized energy systems with an agentbased simulation approach at its core. The implementation of an AC load flow algorithm is referred to and the idea of a marketbased congestion administration mechanism can be outlined. Two RESE generation versions for wind and PV each with a higher temporal and spatial resolution are presented and methods to model specific aspects of the demand side in detail are introduced.



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