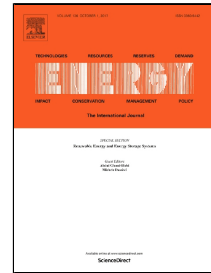


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Optimal bidding and offering strategies of merchant compressed air energy storage in deregulated electricity market using robust optimization approach

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Highlights:

- Compressed air energy storage (CAES) system is considered in electricity market.
- Optimal operation of CAES is optimized to determine the charge and discharge decision.
- Uncertainty model of electricity market price is considered in the proposed model.
- Electricity market price uncertainty is modeled using robust optimization approach.
- Offering and bidding curves of CAES obtained based on robust optimization approach.

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