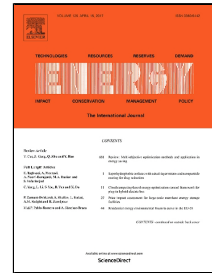


# Accepted Manuscript

Integration of smart grid mechanisms on microgrids energy modelling

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**Highlights**

- Modeling and planning framework for isolated renewable microgrids is developed
- Optimal dispatch of renewables considering long-term system feasibility
- The impact of energy storage, demand response, and electric vehicles is studied
- Dispatchable REs have lower LCOE than thermal fueled generation
- PHES decreases VRE curtailment, while BESS presents higher operating costs

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