

# Accepted Manuscript

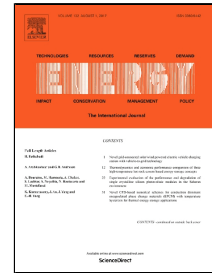
## Development of an Optimization Based Design Framework for Microgrid Energy Systems

Tao Cao, Yunho Hwang, Reinhard Radermacher

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**Highlights**

- A novel optimization based design framework was developed for microgrid energy systems.
- Correlation based models was developed for cooling, heating and power equipment.
- The framework was demonstrated through an oceanic container transportation application.
- Optimized systems were found under three optimization scenarios.

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