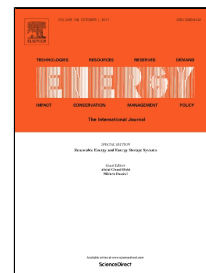


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Optimum design of a hybrid diesel-ORC / photovoltaic system using PSO: Case study for the city of Cujubim, Brazil

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## Highlights

- Optimization design of a hybrid diesel-ORC/ photovoltaic system for isolated zone using Particle Swarm Optimization (PSO).
- Mathematical modeling of photovoltaic system, diesel generator and battery bank.
- Thermodynamic analysis of the ORC for the heat recovery of the internal combustion engine.
- Simulation of the optimal hybrid diesel-ORC/ photovoltaic system using real load profiles and meteorological data.
- Comparative analysis between only diesel system and diesel-ORC system.

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