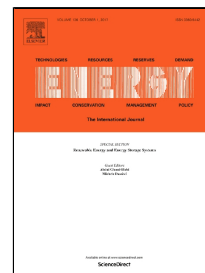


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Design and operation optimization of organic Rankine cycle coupled trigeneration systems



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Highlights

- Comparative analysis of three ORC coupled trigeneration systems is implemented.
- A design and operation optimization model is developed for the integrated system.
- Economic and environmental benefits of the ORC unit are investigated.
- Hourly operation strategies of the ORC integrated systems are presented.
- The effect of power-to-heat ratio on the system performances is analyzed.

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