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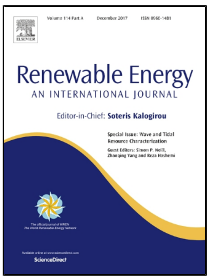

Assessment of the potential use of demand response in DHW systems on isolated microgrids

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Highlights

- The impact of Demand Response is compared for different isolated microgrids
- Best results are found for islands with installed power capacity < 20 MW
- DHW systems with Demand Response can reduce peak load and costs increases
- Best scenario presents less 88% CO_2 emissions than other DHW non-renewable solutions