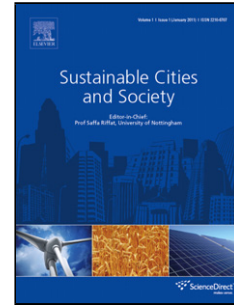


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A new electrical energy management approach for ships using mixed energy sources to ensure sustainable port cities

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Highlights

- The energy management approach for ships using mixed energy sources was suggested.
- The future ship and port designs were examined.
- The significance of the smart grid was mentioned to ensure sustainable port cities.
- The case studies were simulated.
- The results were compared to determine the optimum energy source on the shipboard.

Abstract

The maritime sector representatives are seeking to improve energy usage habits of ships to ensure sustainability to minimize environmental effects in port cities. This paper presents new electrical energy management strategies for the future ship and port designs regarding developments in the maritime sector. This study focuses on a new electrical energy management approach and algorithm for ships using mixed energy sources such as renewable

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