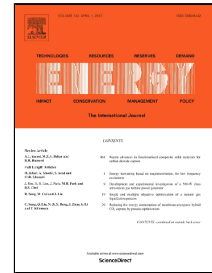


# Accepted Manuscript

A Novel Anti-idling System for Service Vehicles

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## Highlights

- A novel anti-idling system is proposed for service vehicles.
- The auxiliary system in the service vehicle is electrified by the proposed system.
- The components of the proposed system are sized by multi-disciplinary optimization.
- The duty cycle of auxiliary devices is predicted by a clustering method.
- An optimal control strategy is utilized to coordinate the power flow.

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