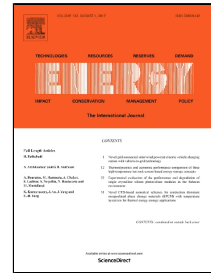


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An investigation of hybrid energy storage system in multi-speed electric vehicle

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## Highlights

- Comparison of multi-speed powertrain configurations and drivability performance.
- Discussion of gear ratio selection for multi-speed BEV.
- Efficiency improvement and battery capacity reduction are reported.
- Performances of hybrid energy storage system are presented.
- Battery service life extension and current fluctuation reduction are compared.

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