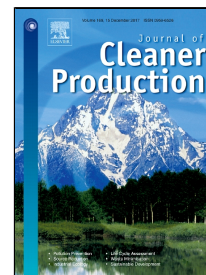


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Heating energy saving potential from building envelope design and operation optimization in residential buildings: A case study in northern China



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### Highlights

1. Heating energy saving potential from building envelope in China is 30.9%~66.1%;
2. High indoor temperature and window opening are reasons for high energy consumption;
3. Radiator has a superior performance compared with the radiant heating system.

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