

## Accepted Manuscript

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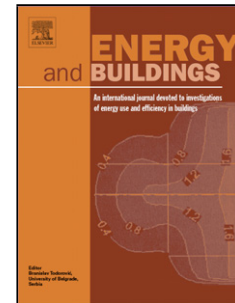
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### Highlights

- Urban areas consume most energy and emit most CO<sub>2</sub>.
- Nepal suffers from chronic power shortage, particularly in dry season.
- Rooftop Photovoltaic system alone is not enough to solve power shortage problem.
- Storage systems are needed to solve power problem.
- Load shifting can also help manage power shortage in Nepal

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