

## Accepted Manuscript

Title: Determining key variables influencing energy consumption in office buildings through cluster analysis of pre- and post-retrofit building data

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PII: S0378-7788(17)33024-4  
DOI: <https://doi.org/10.1016/j.enbuild.2017.11.007>  
Reference: ENB 8129

To appear in: *ENB*

Received date: 7-9-2017  
Revised date: 11-10-2017  
Accepted date: 6-11-2017

Please cite this article as: Chirag Deb, Siew Eang Lee, Determining key variables influencing energy consumption in office buildings through cluster analysis of pre- and post-retrofit building data, Energy and Buildings <https://doi.org/10.1016/j.enbuild.2017.11.007>

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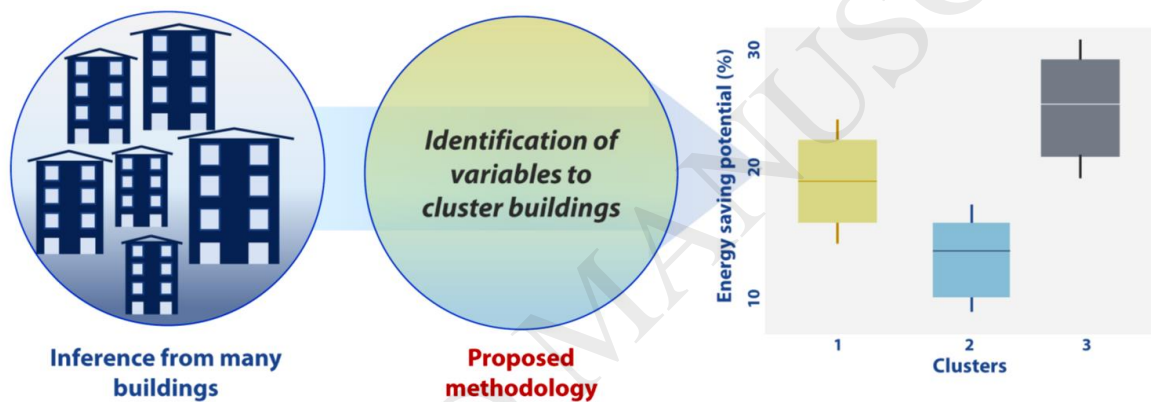
Determining key variables influencing energy consumption in office buildings through cluster analysis of pre- and post-retrofit building data

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## Graphical Abstract



## Highlights:

- This study analyzes pre- and post-retrofit energy performance data for 56 office buildings in Singapore.
- The buildings are classified into clusters using k-means clustering algorithm.
- A robust methodology is developed to determine the appropriate variables to be used for clustering.
- The clustered buildings are evaluated to study the change in energy performance between pre- and post-retrofit conditions.

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