

Accepted Manuscript

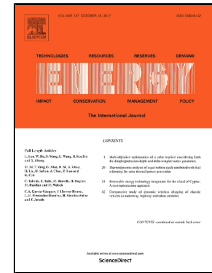
Primary energy benefits of cost-effective energy renovation of a district heated multi-family building under different energy supply systems

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PII: S0360-5442(17)31818-2
DOI: 10.1016/j.energy.2017.10.113
Reference: EGY 11757
To appear in: *Energy*
Received Date: 13 April 2017
Revised Date: 21 September 2017
Accepted Date: 24 October 2017

Please cite this article as: Ambrose Dodoo, Leif Gustavsson, Nguyen Le Truong, Primary energy benefits of cost-effective energy renovation of a district heated multi-family building under different energy supply systems, *Energy* (2017), doi: 10.1016/j.energy.2017.10.113

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Highlights

- Cost-effectiveness of energy renovation of a district heated building is explored
- Varied locations, energy supply systems and economic scenarios are considered
- Final and primary energy savings of cost-effective energy renovation is analysed
- Final heat demand could be about halved with cost-effective energy renovation
- Electricity use may be reduced by about 40% with cost-effective energy renovation

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