## **Accepted Manuscript**

The influence of building using function on the operating characteristics of the gas engine driven heat pump with energy storage system (ESGEHPs)

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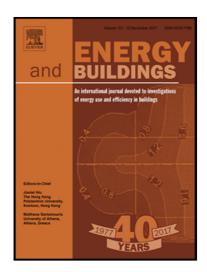
PII: \$0378-7788(17)33285-1

DOI: 10.1016/j.enbuild.2018.02.039

Reference: ENB 8369

To appear in: Energy & Buildings

Received date: 30 September 2017 Revised date: 14 February 2018 Accepted date: 17 February 2018



Please cite this article as: Qiang Zhang , Zhao Yang , Ning Li , Rui Feng , Yide Gao , The influence of building using function on the operating characteristics of the gas engine driven heat pump with energy storage system (ESGEHPs), *Energy & Buildings* (2018), doi: 10.1016/j.enbuild.2018.02.039

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#### ACCEPTED MANUSCRIPT

### **Highlights**

- The new control strategy and operation mode of ESGEHPs was proposed.
- The relationships between ESGEHPs and load of four types building was obtained.
- The ESGEHPs is better matched with the building load of different using functions.
- Using ESGEHPs could improve Chinese energy structure of buildings.



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