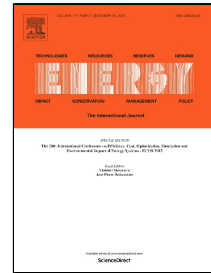


Accepted Manuscript

A Novel Fuzzy Control Algorithm for Reducing the Peak Demands using Energy Storage System

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PII: S0360-5442(17)30063-4
DOI: 10.1016/j.energy.2017.01.063
Reference: EGY 10198
To appear in: *Energy*
Received Date: 28 May 2016
Revised Date: 19 December 2016
Accepted Date: 10 January 2017

Please cite this article as: Kein Huat Chua, Yun Seng Lim, Stella Morris, A Novel Fuzzy Control Algorithm for Reducing the Peak Demands using Energy Storage System, *Energy* (2017), doi: 10.1016/j.energy.2017.01.063

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Highlight

1. The maximum demand charges can be as high as 30 % of the total electricity bill.
2. The uncertainty of the load demand creates the difficulties for BESS to reduce the peaks.
3. The fuzzy-controlled BESS constantly adjusts its power output based on latest load demand.
4. The fuzzy-controlled BESS improves the success rate of the peak reductions.
5. The fuzzy-controlled BESS can reduce peaks even under the limited capacity of BESS.

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