

Smart Home

Weekly report

Boyang LI

10/08/2017

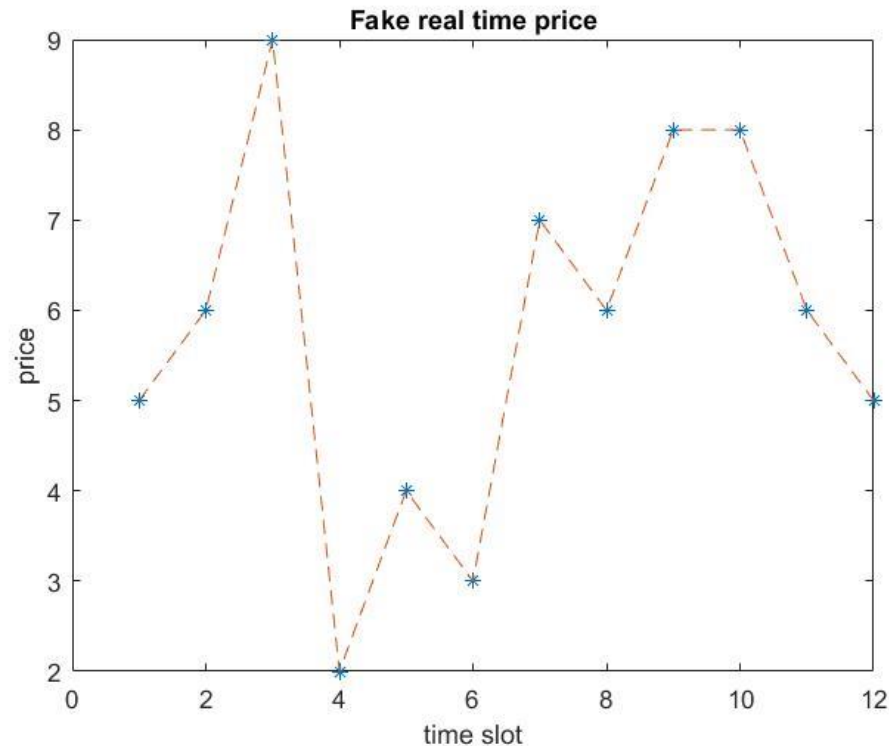
The effect of total battery capacity on billing price.

- **For schedulable appliances demonstration setup**

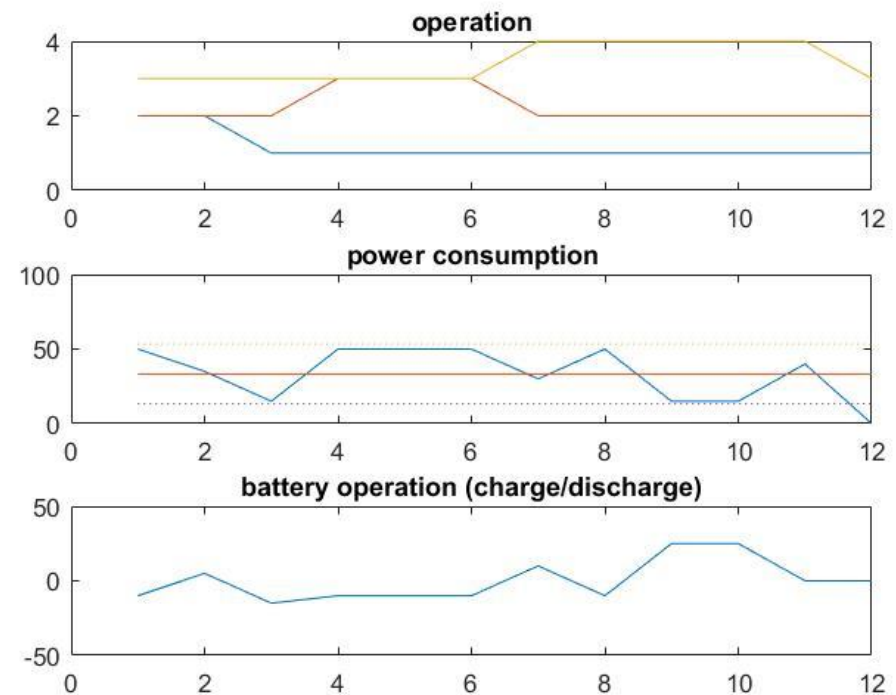
Battery total capacity (fixed in each test)	25 WH / 50 WH / 75 WH / 100 WH
Charging/Discharging rate (could vary in one test)	0 W/ ± 5 W / ± 10 W/ ± 15 W/ ± 20 W/ ± 25 W
Schedulable appliances power consumption (totally three appliances)	40 W * 3
Runtime	2 / 3 /5 (slots)
Privacy level	20
Price	Plotted in the next page

schedulable appliances demonstration

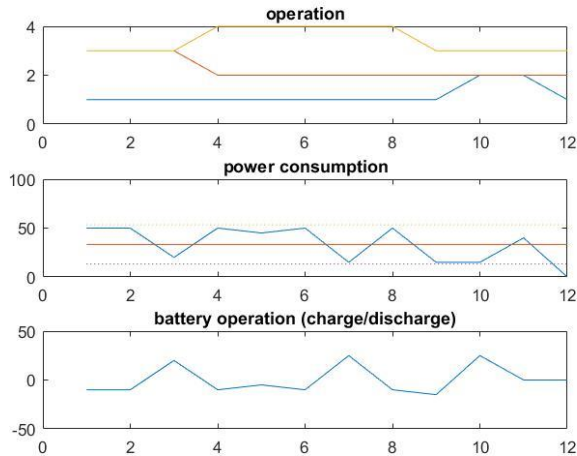
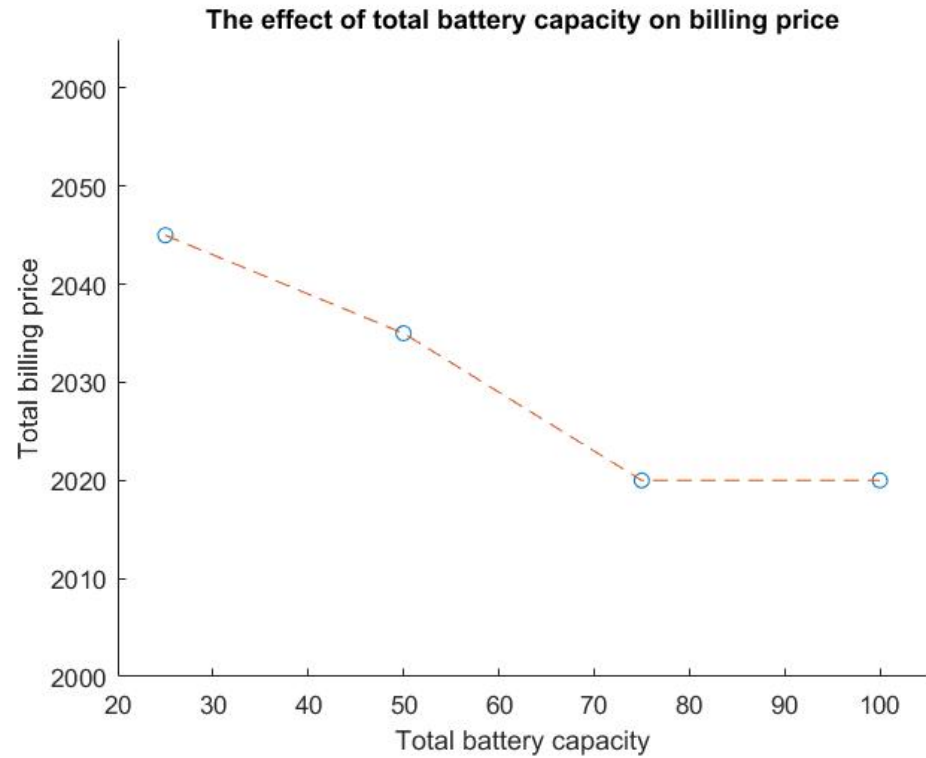
Fake real time price for testing



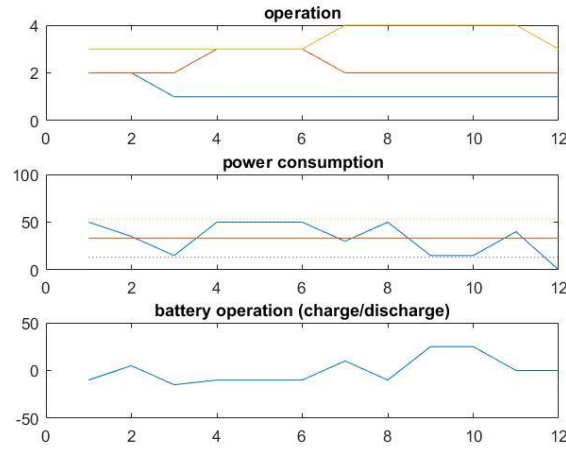
**Scheduling results for
the model with total battery capacity of 50**



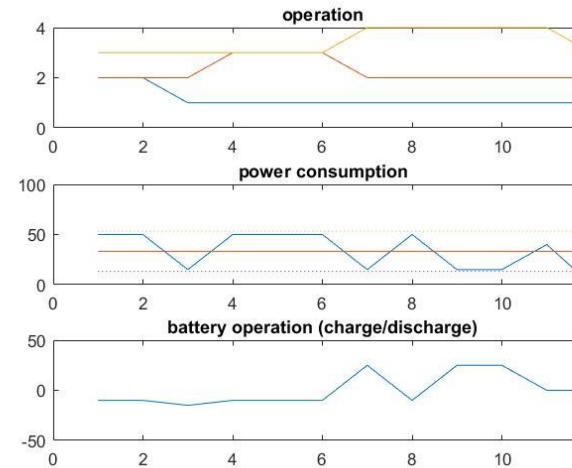
The effect of total battery capacity on billing price.



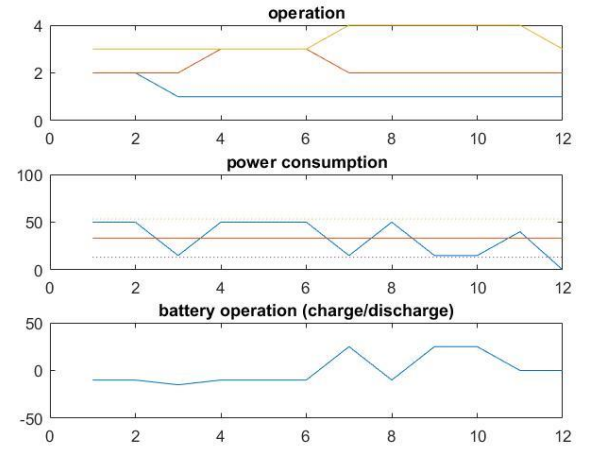
total battery capacity = 25



total battery capacity = 50



total battery capacity = 75



total battery capacity = 100