## Controllable Power Outlets

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### Description

The building energy management system can use controllable outlets to turn off electric equipment when no one is in the building, saving energy without impacting the users of the equipment.

### Modeler Description

Find all of the electric equipment schedules in the building, and reduce their fractional values to a user-specified level (default 10%) between user specified times (default 6pm-9am).

### Use Case Types

Retrofit, New Construction

### Arguments

No arguments

### Initial Condition Message

### Final Condition Message

The number of schedules that were edited to reflect the application of advanced power strips.

### Not Applicable Messages

Not applicable if no electric equipment was found in the model.

### Warning Messages

### Information Messages

List each schedule that was modified.

### Error Messages

### Code Outline

* Find all electric equipment
* Get the fractional schedule
* Reduce the schedule to the specified fraction on the specified days

### Tests

**This measure applies to:**

1. Large Office
2. Medium Office
3. Primary School
4. Secondary School
5. Large Hotel
6. Hospital
7. Small Office
8. Stand-Alone Retail
9. Strip Mall
10. Supermarket
11. Quick Service Restaurant
12. Full Service Restaurant
13. Small Hotel
14. Outpatient Healthcare
15. Warehouse
16. Midrise Apartment

### References

1. <http://www.nrel.gov/docs/fy13osti/57730.pdf>