Smart Power Strips Pilot

Existing Multifamily

June 3, 2015

EnergyTrust of Oregon

Overview

Advanced Power Strips:

- Turn off peripheral devices when “control” device is off
- Estimated savings of 80-120 kWh

Goal: Determine if Tier 1 Smart Strips would be cost-effective as a leave-behind measure during Existing Multifamily direct-install visits

Research Objectives

- Quantify potential energy savings
- Evaluate installation configurations
- Gain feedback on customer satisfaction

Pilot Design

Sample size: 120 dwelling units

- 60 treatment:
  - Smart Strip and Kill-A-Watt EZ monitor
- 60 control:
  - Standard power strip and Kill-A-Watt EZ monitor
- Monitoring period: 2 weeks
  - Data collection: energy usage, configuration
  - Customer completes survey for $25 gift card

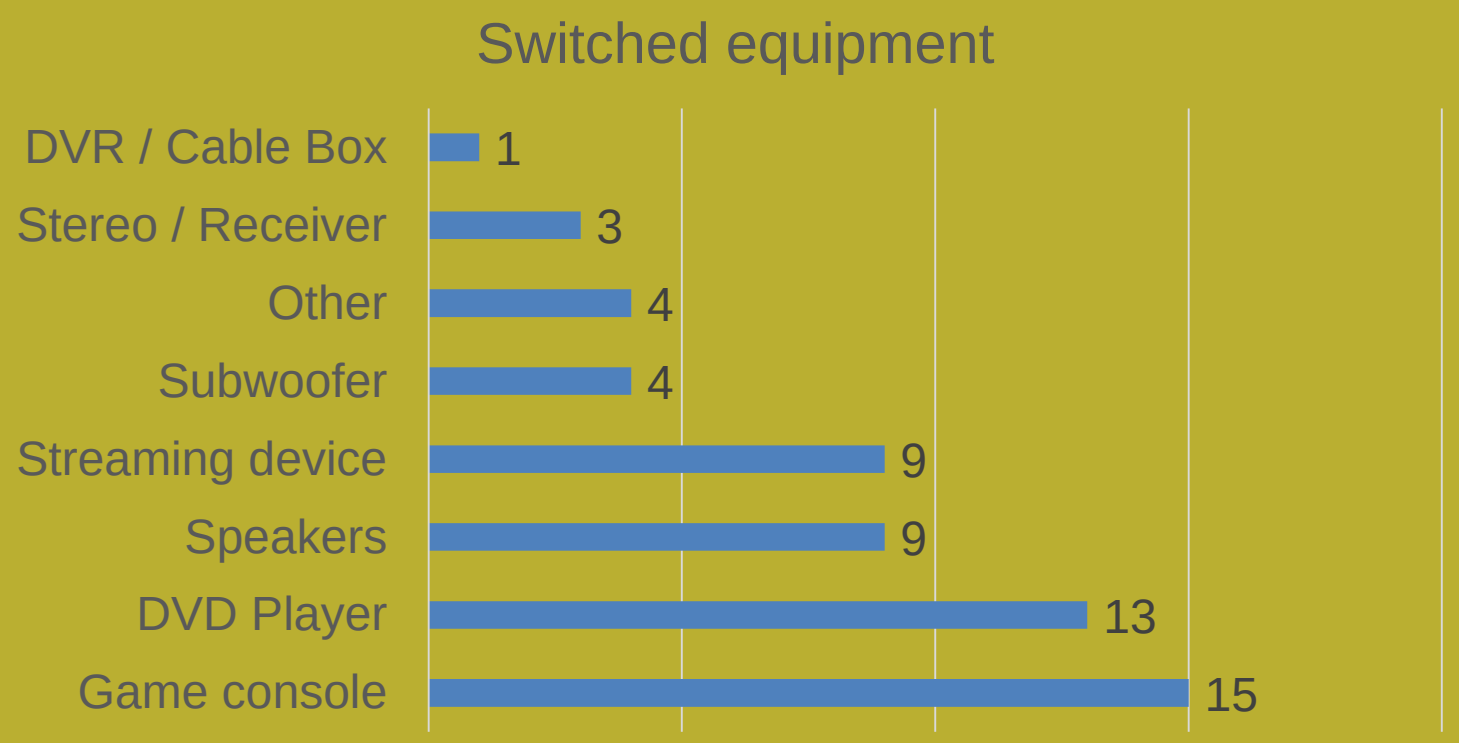
Results to Date

- Outreach began: 1st week of February
- Results back from 66 participants
  - 34 treatment, 32 control
  - 5 properties

Lessons Learned:

Stereos are not plugged into the control outlets (no instances, so far).

Game consoles are more common than stereos in the switched outlets.

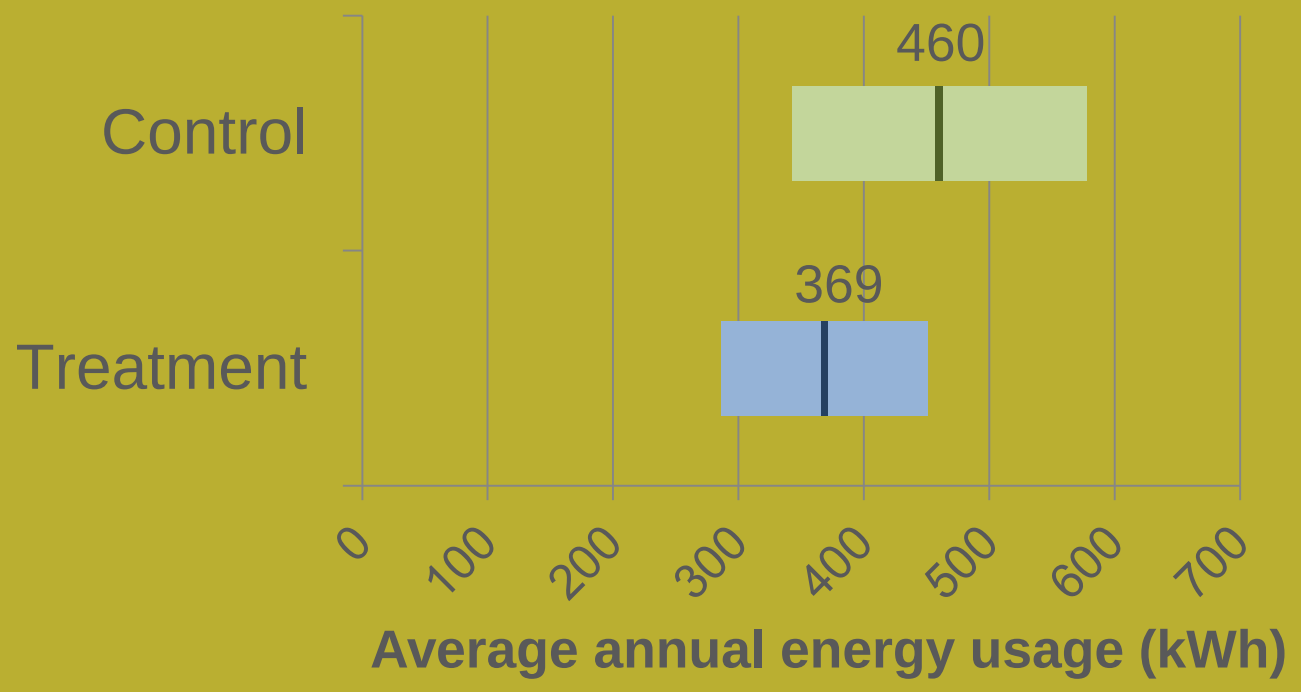


Preliminary savings estimate (subject to change)

83% of participants installed power strips.

Extrapolated change in consumption of 91 kWh per year.

0.83 x 91 ≈ 76 kWh per year



Next Steps

- Sample recruitment continues
  - 7 properties now enrolled; 88/120 participants
  - Anticipate 3 more properties needed
- Aiming for full sample results end of June
- Hoping to make a decision early July