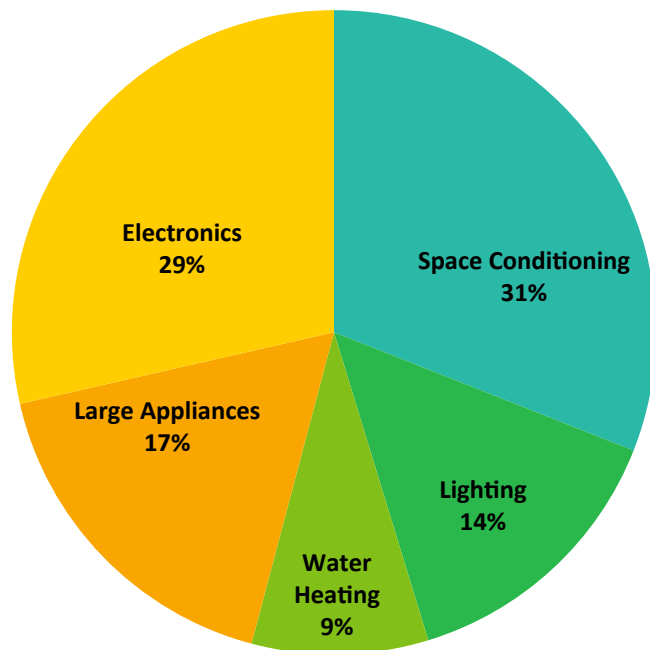


Engaging Consumers with Plug-level Energy Consumption Feedback

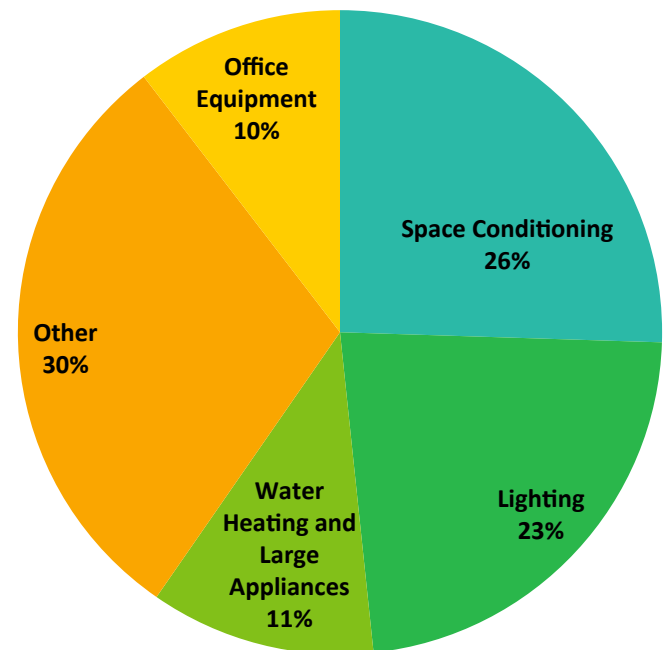
Heidi Perry, PhD
Director of Sustainability
ThinkEco, Inc

The Scale of Plug-Load Energy Use

**Electricity End-Use By Category
Residential**

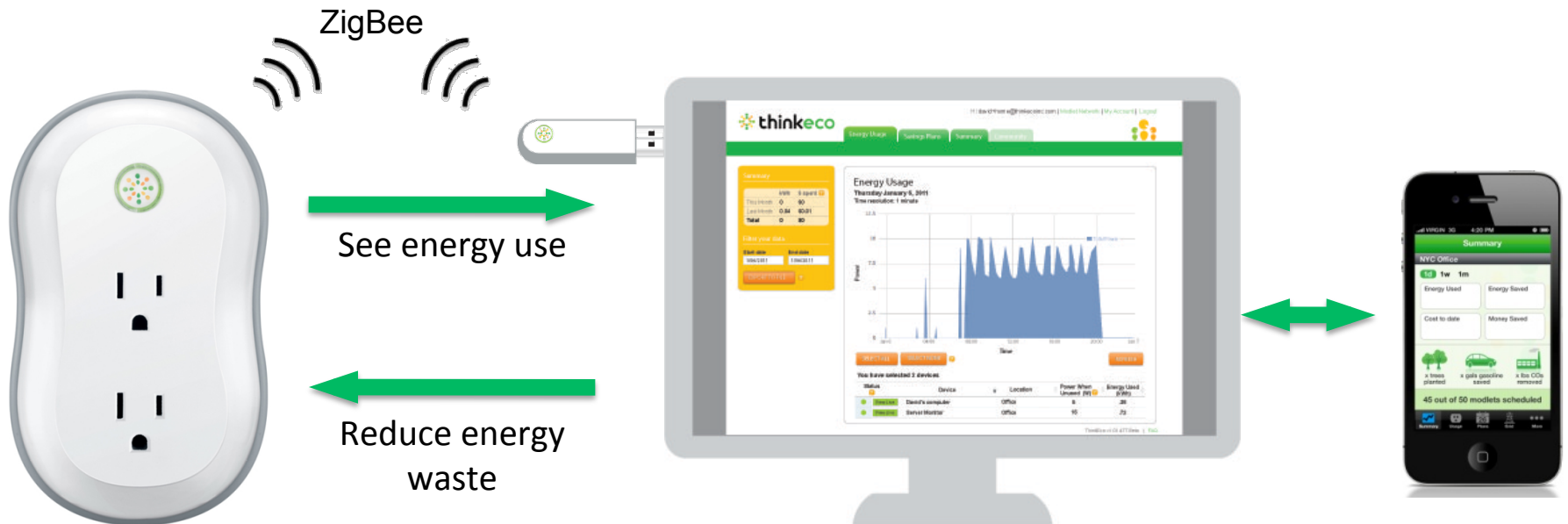


**Electricity End-Use By Category
Commercial**



Data from EIA Annual Energy Outlook 2012 Early Release

Real-time Energy Consumption Measurements



Case Study 1: **coolNYC**

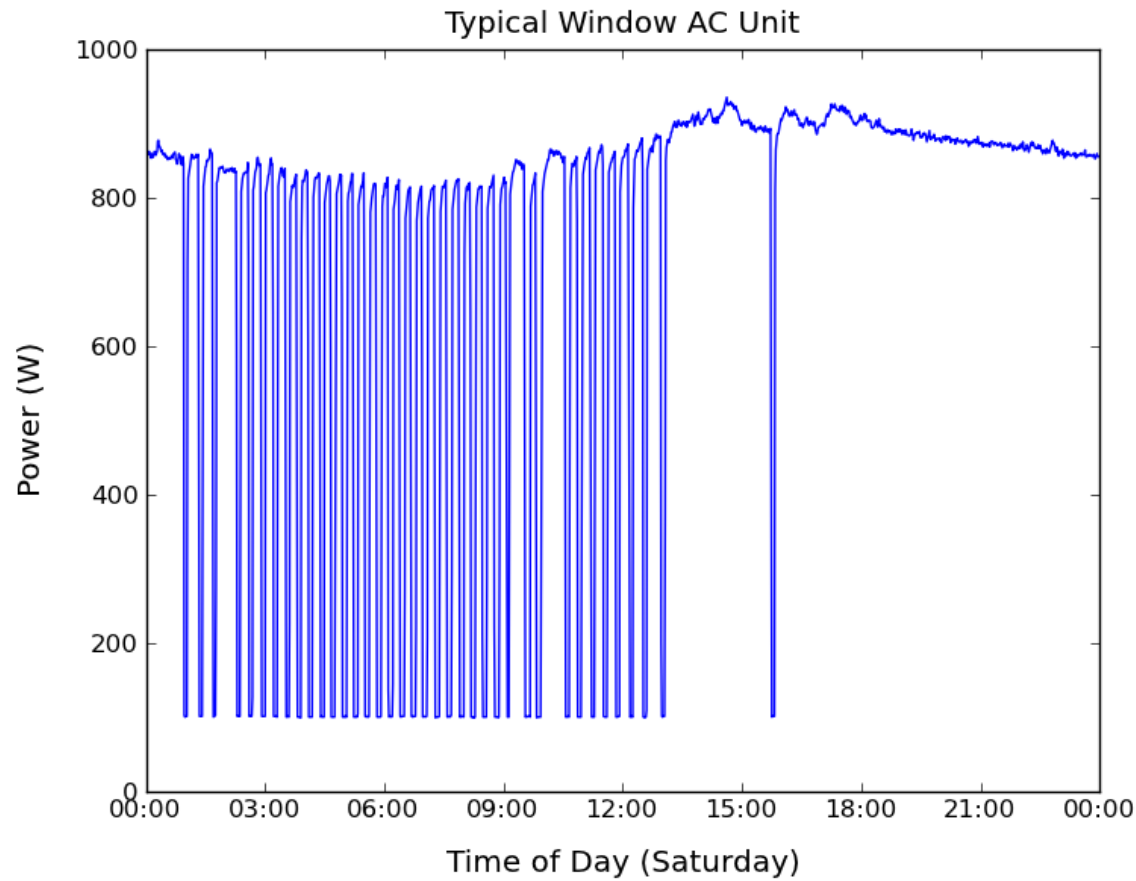
A Con Edison program in partnership with ThinkEco



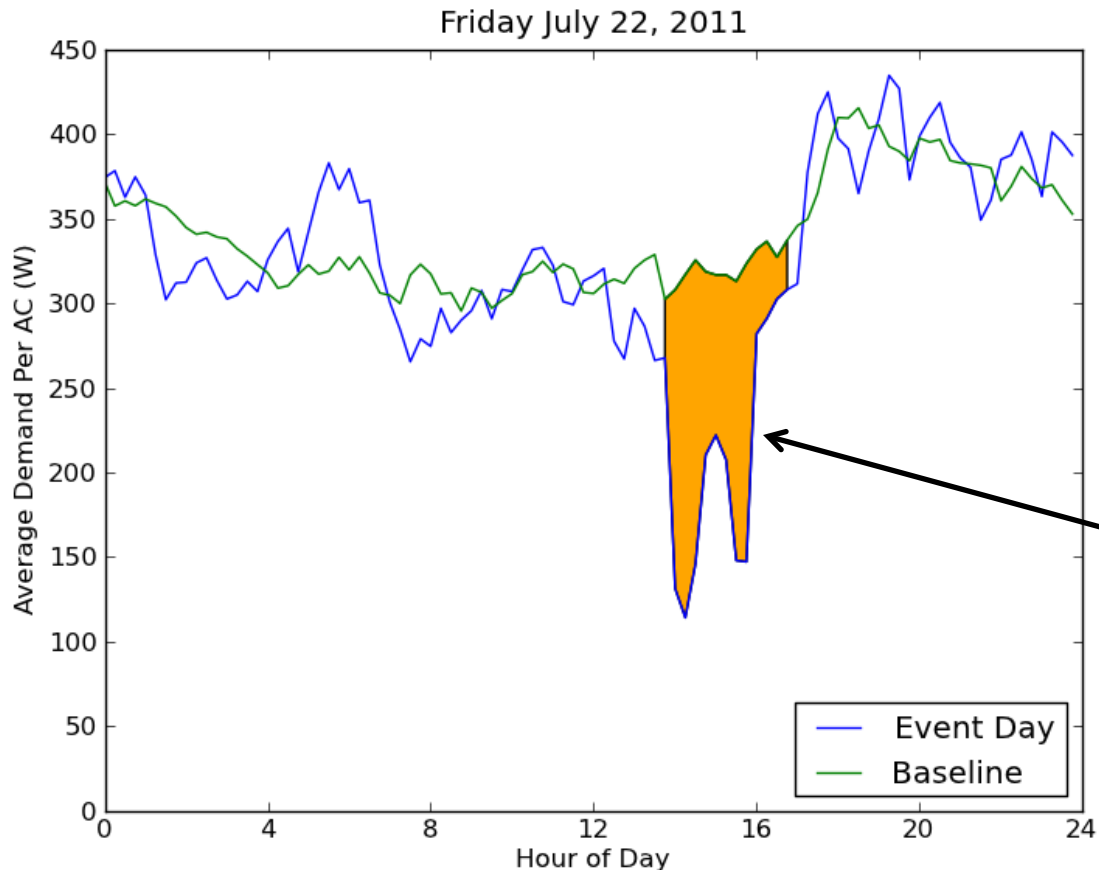
smartAC
thermostat

modletBN

Opportunity to Control Power Demand



Significant Demand Reduction Achieved



Friday July 22, 2011

2:00 pm-5:00 pm

Average demand over event time:

Baseline 317 W

Event Day 209 W

34% reduction

Demand reductions for the five events ranged from 15-34%.

Participant Feedback



Case Study 1: **coolNYC**

A Con Edison program in partnership with ThinkEco

coolNYC 2012: Enroll at www.coolnycprogram.com



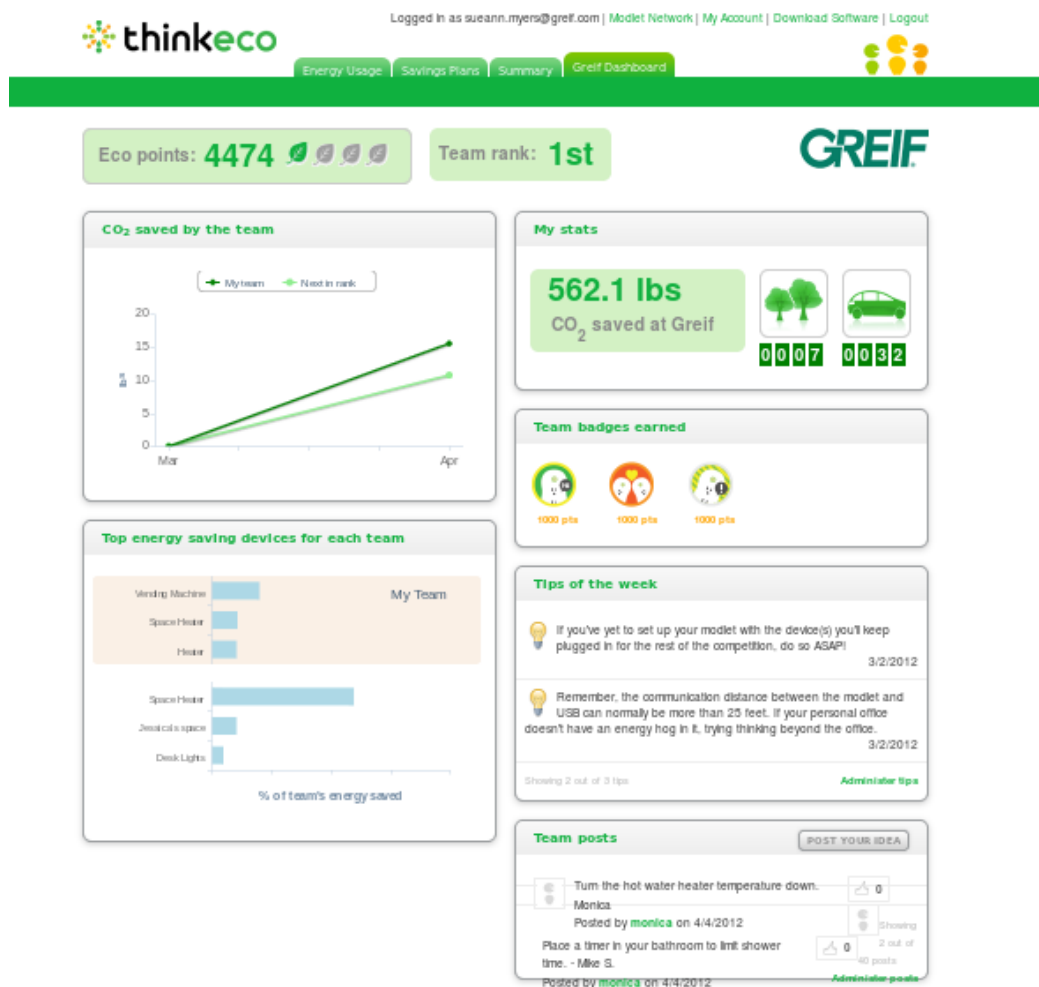
**smartAC
thermostat**

modletBN

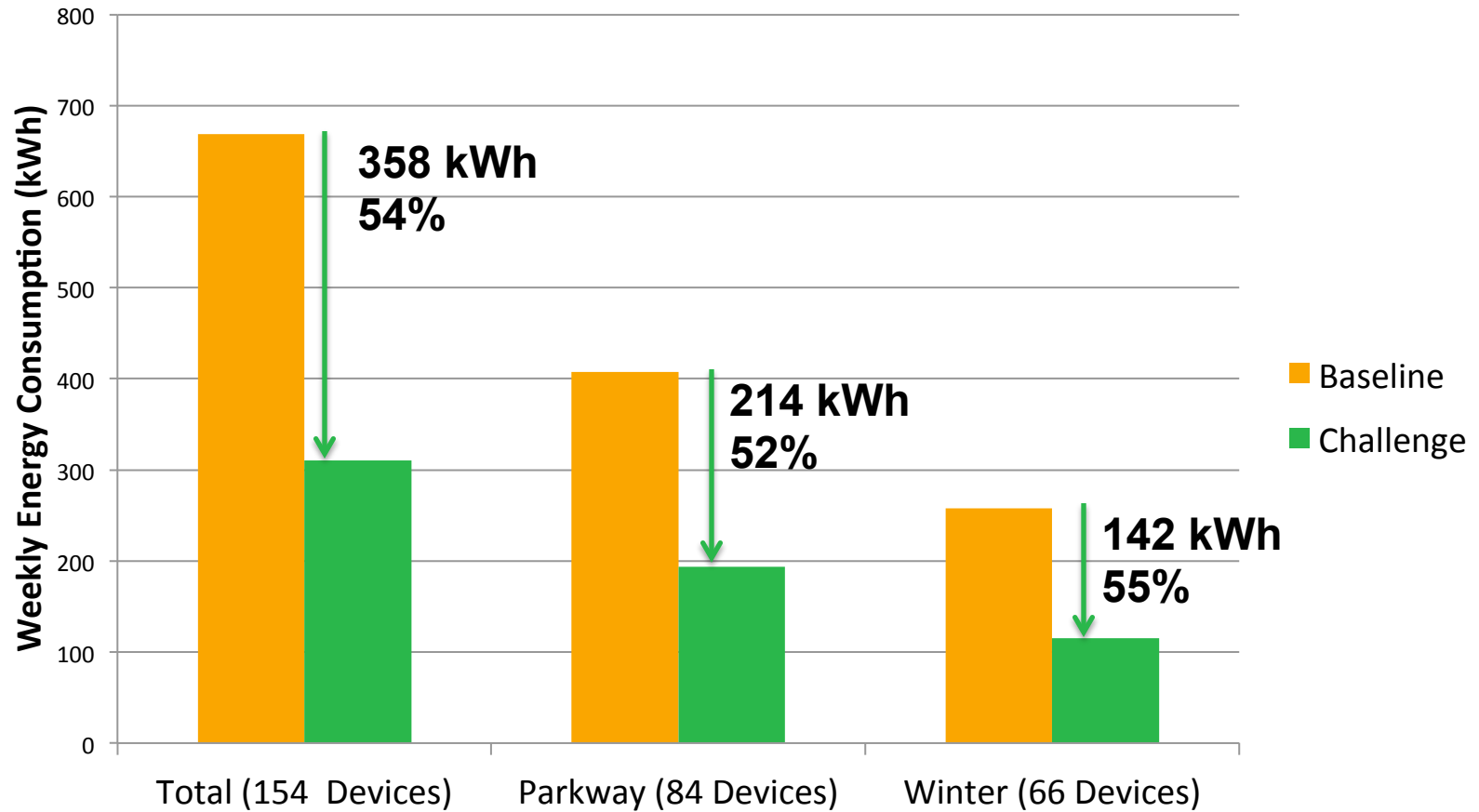
Case Study 2 – The Modlympics



Employee Engagement Dashboard



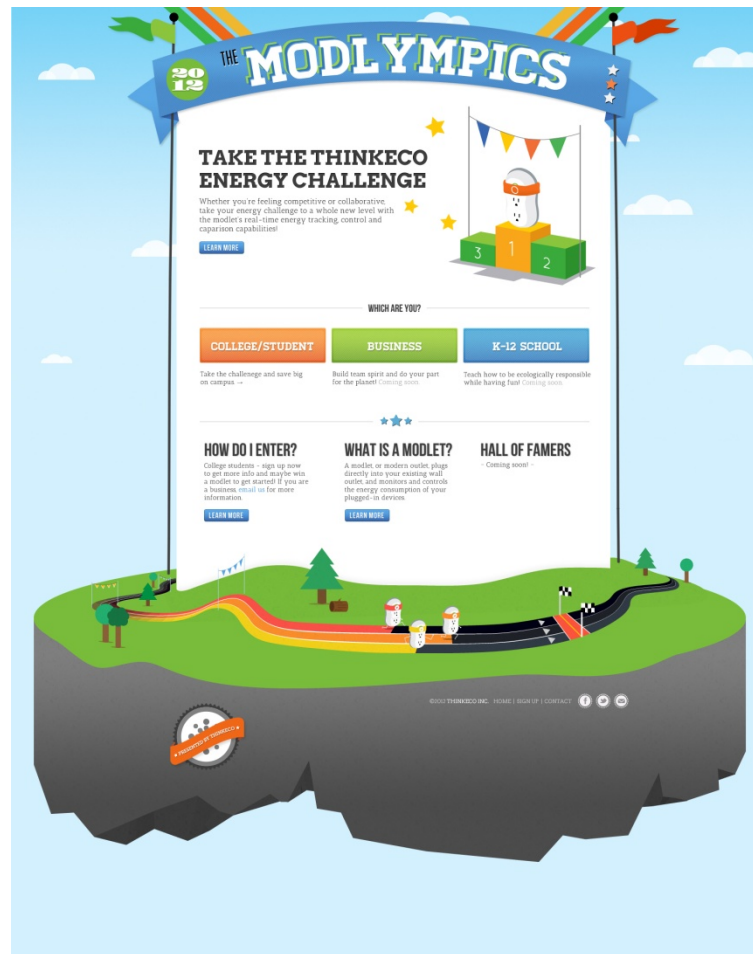
Reduction in [Monitored] Energy Consumption



User Insights

- “Cycle off the soda machine in the vending area so that it provides cold soda during from 7 AM to 7PM and is not drawing power while it is not being used.”
- “Team NA: Think about electrical sources which heat or cool.”
- “TIP FOR CHALLENGE: Eliminate 1/2 of all printers in office area to reduce the amount of power used when printers enter standby mode following a print job. Added health benefit of walking to centralized network printer!”
- “Assess number of printers in building personnel and shared and determine if can redcue the number of personnel printers and use more of the shared printers and possibly reduce the number of shared as well”

Case Study 2 – The Modlympics



Individualized feedback engages consumers in reducing energy consumption



For more information: Heidi Perry, heidi@thinkecoinc.com

coolNYC 2012: Enroll at www.coolnycprogram.com