



Northeast Energy Efficiency Partnerships

# What do HEMS mean for the Utility?

2016 Home Energy Management  
Systems Workshop

Wednesday, September 21<sup>st</sup>, 2016

2:45am-3:45pm

# Questions...

- Is HEMS a widget?
- Is HEMS an EM&V tool?
- Is HEMS a means to another end?
- Should we focus on smart end uses, or the “systems” that connect the dots?
  - Or both? In which case, how?
- Group activity:
  - Turn to your neighbor(s)
  - In groups of 2 or 3, take 5-10 minutes to discuss what you think is the greatest HEMS opportunity

# HEMS Pilots

Brad Piper

***LOCKHEED MARTIN***



# Home Energy Management System Pilot

**LME is implementing a Home Energy Management System (HEMS) Pilot for NYSERDA, the objective of this pilot is to validate a test methodology for HEMS products and locate some initial savings.**

**We are monitoring, logging and analyzing: live plug load, lighting and HVAC data. This data will be combined with occupancy and geo-fencing data in order to locate opportunities for automatic actions that can be taken by the system to save energy and load.**



# Savings, More Than One Type?

## Passive vs. Active savings

- Energy Savings has traditionally based on a “passive” methodology

For example: a lamp is sold, installed and the kWh associated with the lamp is accredited. The same falls true in the Appliance and Home Electronics categories

- Technology is evolving, and so must our approach and understanding of the potential savings. We (the industry) needs to get a better grasp of the potential of “Active” savings

For example: Lamps, fixtures or switches, appliances, electronics or HVAC left “on” while the room or dwelling is left unoccupied can be automatically turned “off” without a negative impact on the customer life.



# Actions Taken Today....

- A change in mindset
- We need more factual data vs theory's and estimations
- In order to capture savings tomorrow, we need more small scale pilots today



# Developing a Clear Path

