



National Grid/ Sense Home Energy Monitor Program

April 2019

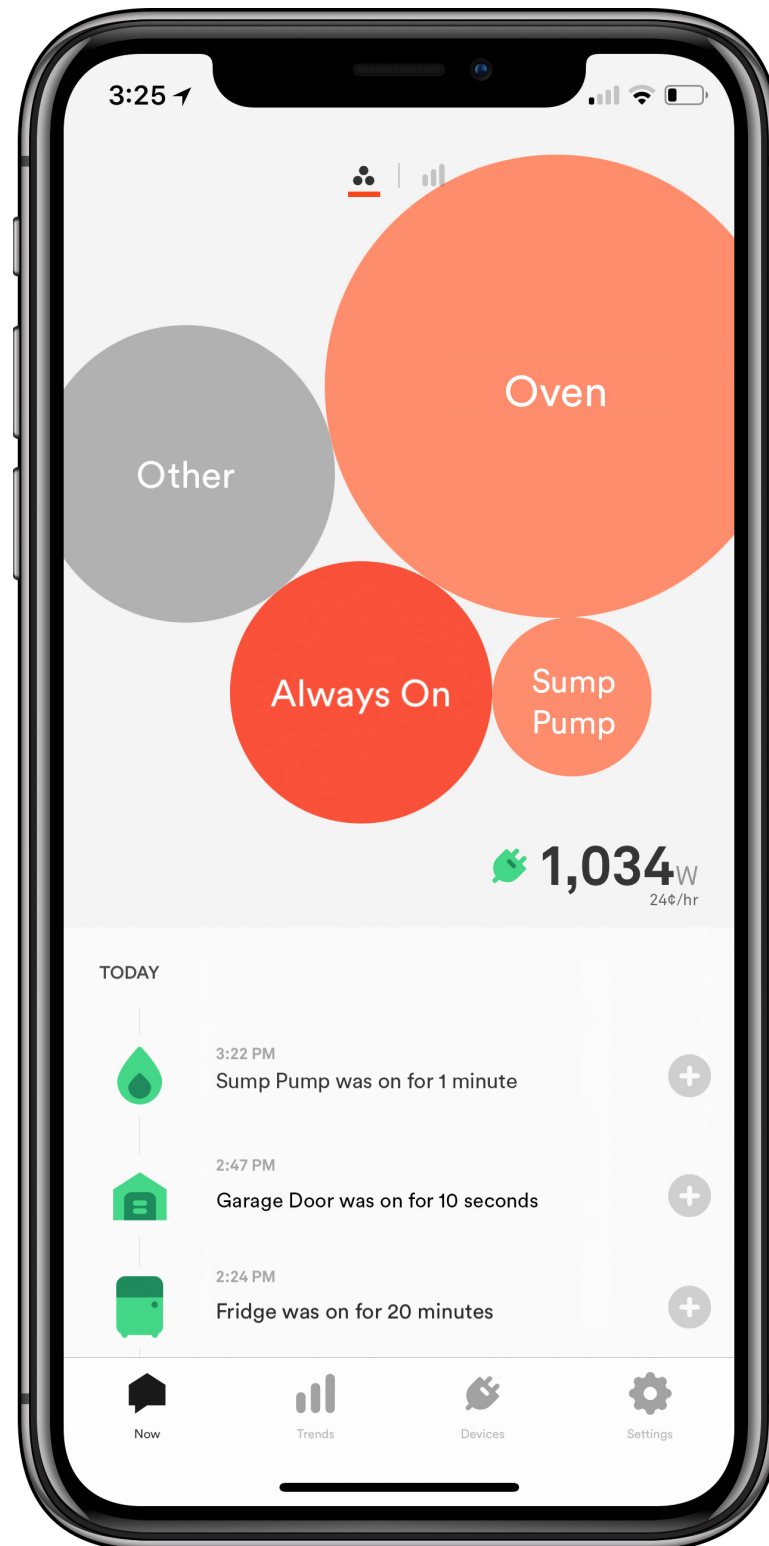
Prepared for EERMC



What is Sense?

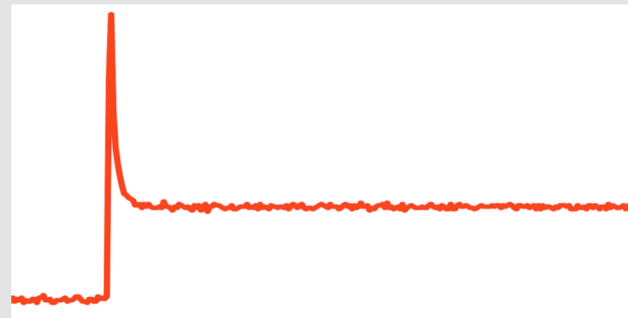
A home energy monitor customers use to

- Save on electricity bills
- Stay in touch with what's happening in their homes
- Address home appliance problems

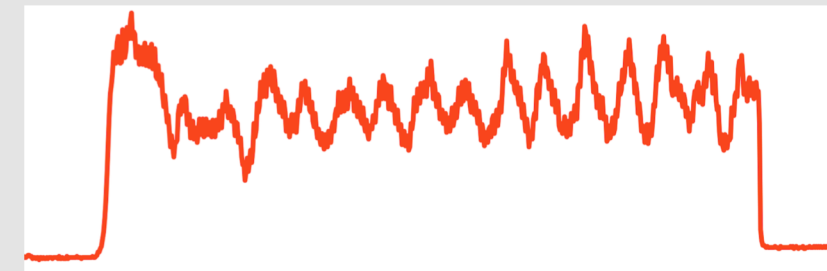


How does Sense work?

- Machine learning – speech recognition for appliances
- High-resolution data
- Real-time data



Incandescent Light



Washing Machine



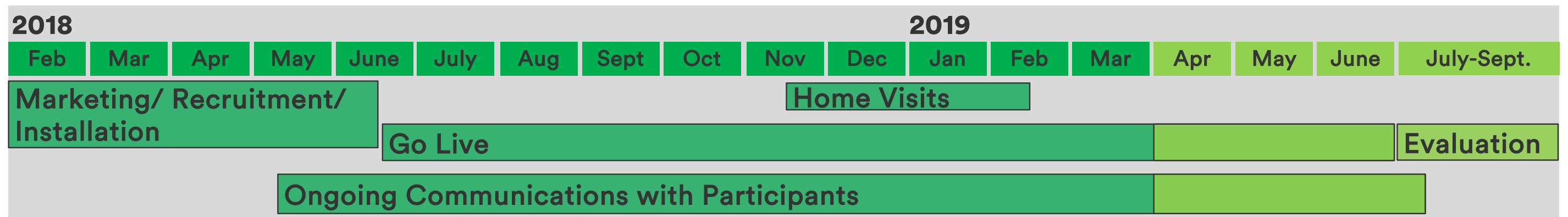
Microwave



Refrigerator

The National Grid/ Sense Home Energy Monitor Program

Purpose: Explore the application of Sense to understand how customers interact with the technology and what creates the most value for them

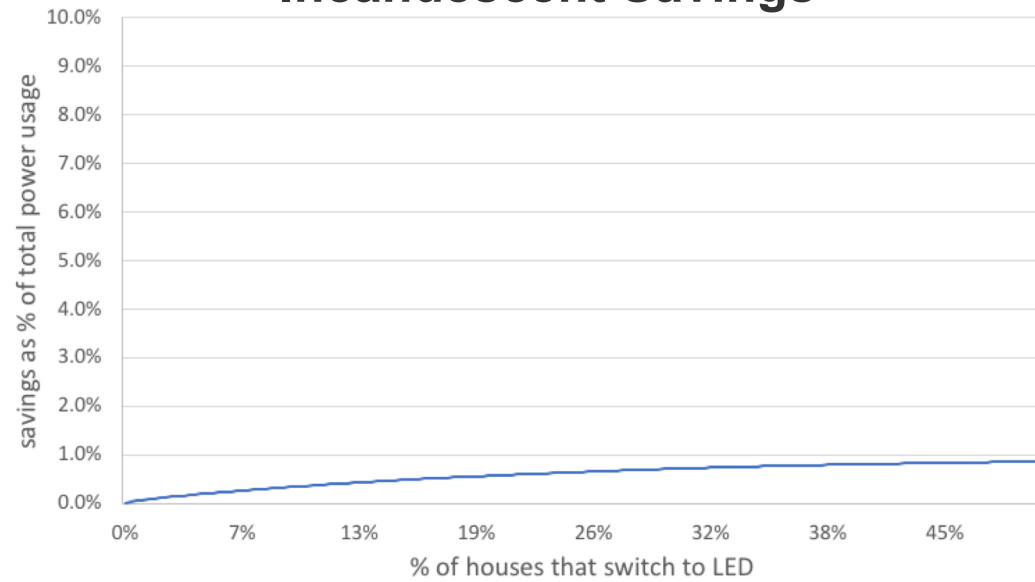


Customer Groups

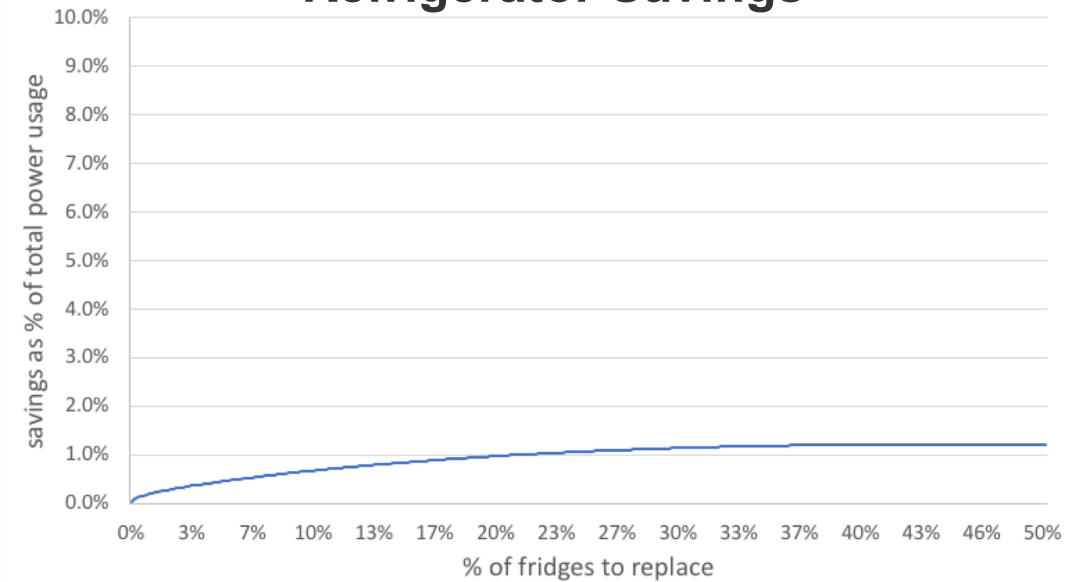
1. Low & Moderate Income (*81 participants*)
2. High Bill (*81*)
3. Energy Efficiency & Demand Response (*91*)
4. Random Sample (*84*)

Saving Opportunities: Overview

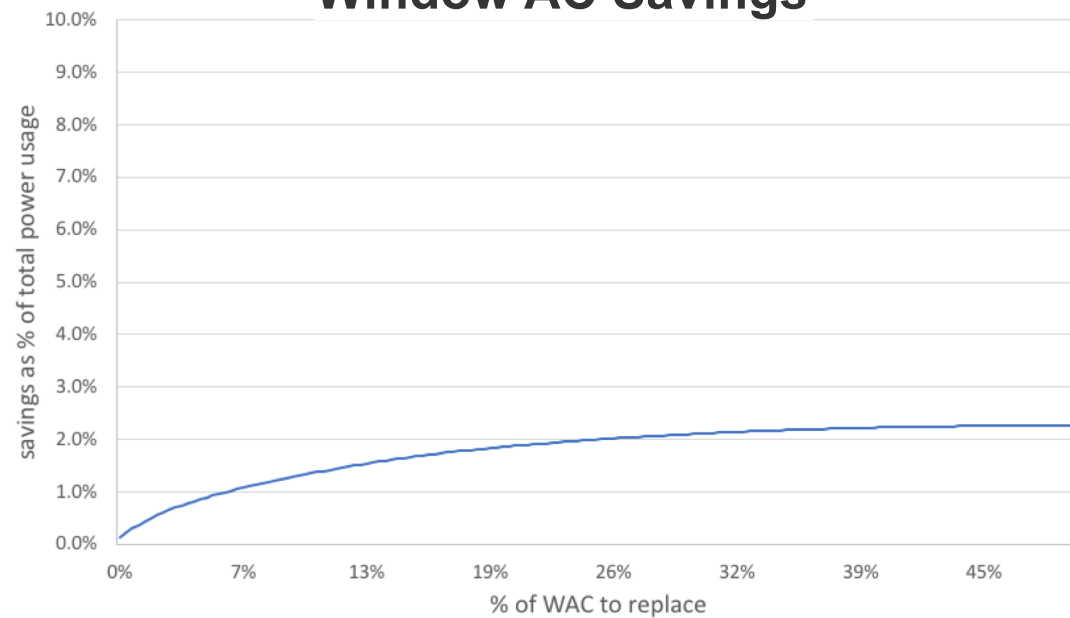
Incandescent Savings



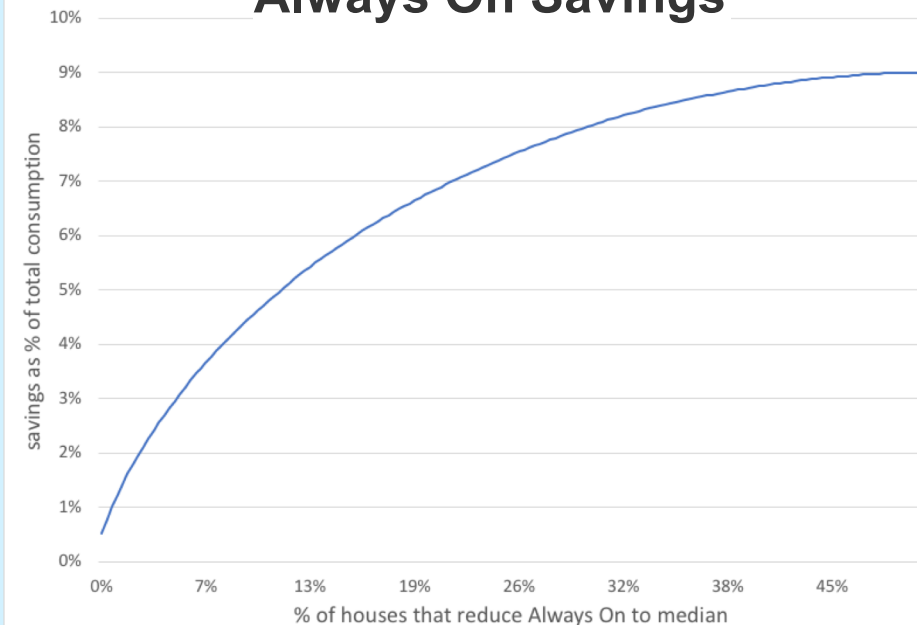
Refrigerator Savings



Window AC Savings



Always On Savings



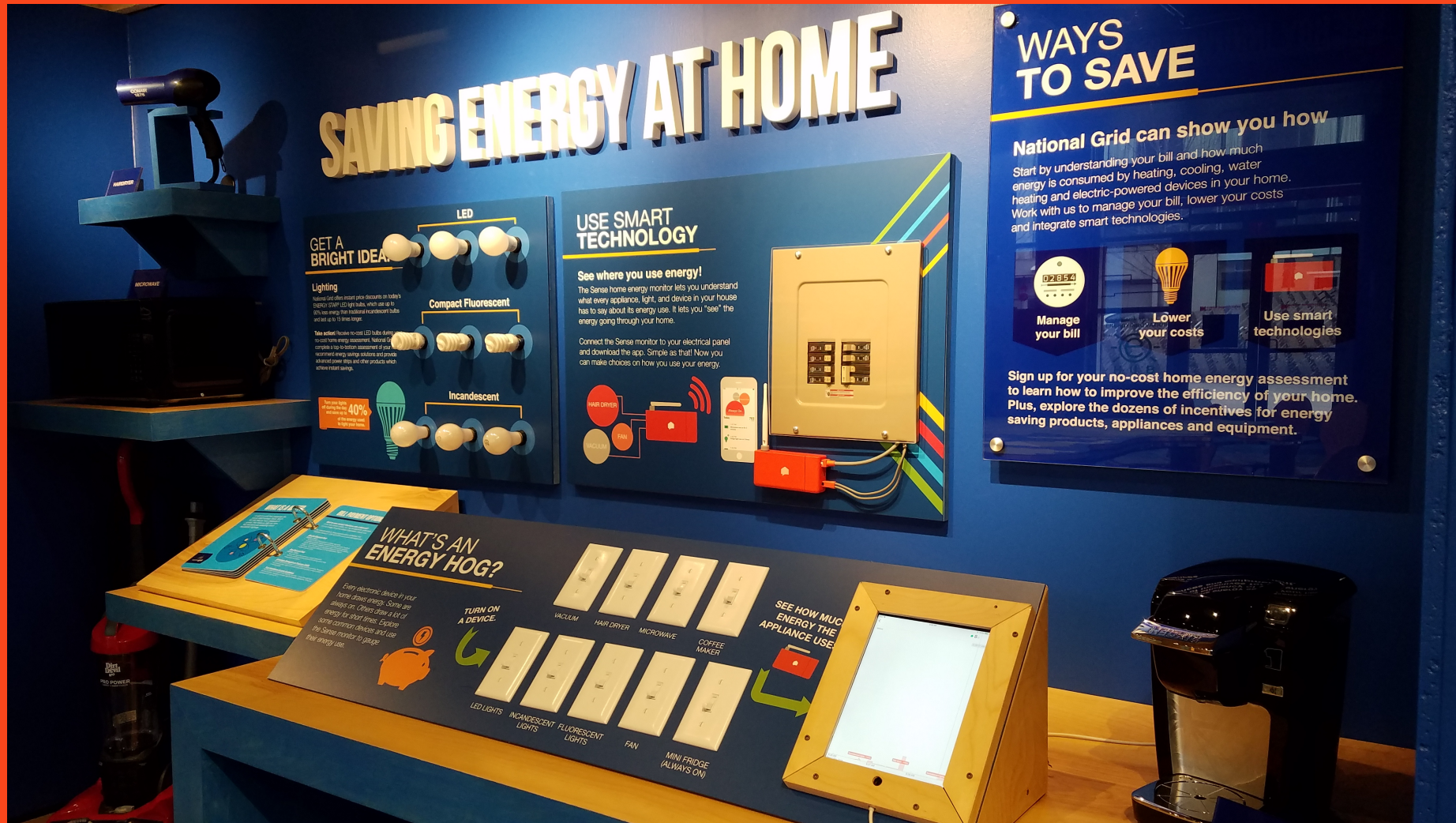
Savings Opportunities: Examples

Opportunity	Maximum Potential Savings (Watts)	Maximum Potential Savings (\$/year)
Treadmill	100 W	\$183/year
Basement fan	170 W	\$312/year
Desktop PC	150 W	\$275/year

Note: Watts are annual watt equivalents.

“I feel like I have saved a lot of money unplugging appliances that you don’t need to be plugged in all the time proof is in my bill I love sense and recommend it highly”
– **LMI Use Case Customer**

“I wish I could name a device as soon as I turn it on. Would help tremendously with identification of said device” – **High Bill Use Case Customer**



National Grid Rhode Island Energy Innovation Hub
Lobby of the Dunkin' Donuts Center, Providence, RI

 **Thank you**

