Agenda

Introduction to Nest

Power Project Overview

Case Study: Colorado Energy Office/Arapahoe County
To create a home that takes care of the people inside it and the world around it.
Since introducing the Nest thermostat

Saved

24B kWh worth of energy

$1.5B worth of energy
Nest Thermostat E launched in 2017
E is for Easy, Energy, Everyone

It includes all Nest’s proven energy-saving features.

AutoSchedule
Home/Away Assist (plus optional geo-fencing)
Eco Mode
Nest Leaf (behavioral feedback)
Airwave
Heat Pump Balance
True Radiant
Energy History
Sunblock

NOTE: ENERGY STAR qualified savings do not require wifi
Power Project Overview

https://nestpowerproject.withgoogle.com/
1 in 4 AMERICANS HOUSEHOLDS ARE ELIGIBLE FOR HOME ENERGY ASSISTANCE BASED ON INCOME

37% skipped medical + dental coverage

24% went without food for at least 1 day

20% of families experience illness because their home was too cold


SOURCE: 2011 LIHEAP Survey http://neada.org/program-policy-reports/liheapsurvey/
STARTING ON EARTH DAY, **NEST IS DOING SOMETHING ABOUT IT.**

- Providing **1 million Nest thermostats** units at reduced prices to existing low-income programs nationwide.

- Partnering with **Habitat for Humanity** to put a **Nest thermostat** in every new home.

- Building a digital platform to localize the issue and **facilitate consumer donations**.

- Launching a **national ad campaign** to raise awareness of energy poverty and create solutions.
How does Thermostat E benefit low-income households?

Customer benefits

Bill Savings
✓ Helps reduce bills
✓ Manages consumption

Comfort
✓ Learns habits
✓ Allows automation

Utility/Agency benefits

Maximizes weatherization
✓ Maximizes savings
✓ Visual indicator of work

Reaches everyone
✓ Simple interface
✓ Language options
Programs launched/launching
Background: Colorado Energy Office/Arapahoe County

- Nest partnered with Colorado Energy Office and Arapahoe County
- 250 thermostats provided for use in WAP
- Single-family, owner-occupied, gas heated, willing client
- No requirement for home WiFi
- Installed in about half the homes weatherized May 2016 – Dec. 2017
Results: Colorado Energy Office/Arapahoe County

- Homes that received a Nest thermostat achieved average gas savings of 18.4% compared to 11.1% for comparable standard WAP clients.

- Weatherization Assistance Program National Energy Audit Tool (NEAT) showed Nest thermostats to be very cost-effective, with SIRs ranging from 4.3 – 8.6.

- Just 5% of thermostats were removed due to either client request or hardware/compatibility problems.

- The absence of WiFi did not appear to have any significant impact on incremental savings.
Key takeaways

● Smart thermostats drive quantifiable, cost-effective energy savings for low-income households

● Low-income households are able to use smart thermostats effectively

● Smart thermostats provide a point of engagement that allows low-income households to participate in energy programs (e.g. demand response)
Thank you!

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