



Sense Intro

June 2022



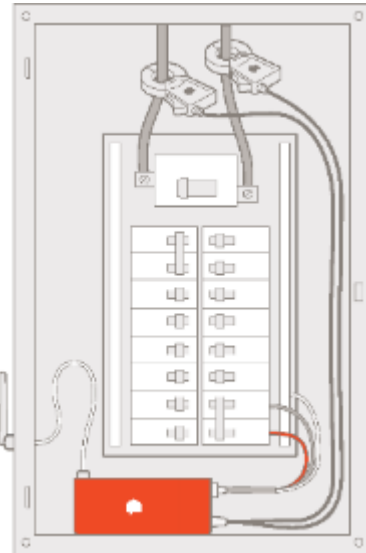
Sense: Intelligence for the home



How does Sense work?

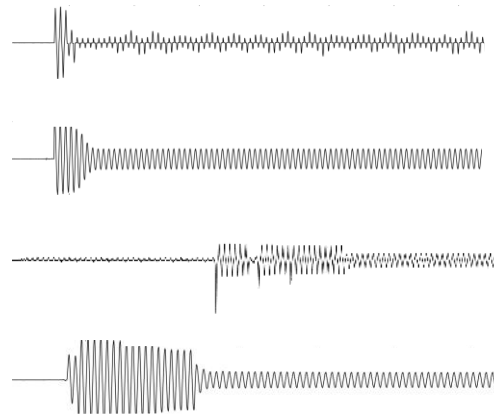
INSTALLATION

- 15 min installation in home's electric panel.
- Sense recommends electrician install.
- No need for sensors on each circuit breaker.
- No need for smart plugs for each appliance.
- No need for smart meter.



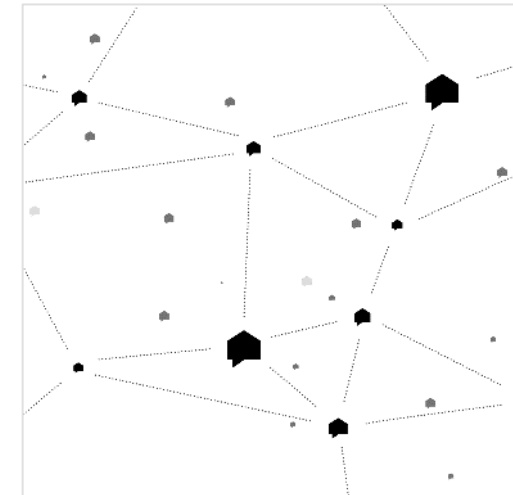
MACHINE LEARNING

- Sense samples each home's power one million times per second.
- Sense conducts machine learning to identify the unique signature of each electronic device, determine its state and energy usage.



NETWORK EFFECT

- Sense is building up a library of signatures.
- As Sense collects more data, is in more homes, and samples a diversity of appliances, the library is continually growing.



Smart home use cases

Energy awareness & control



Home awareness



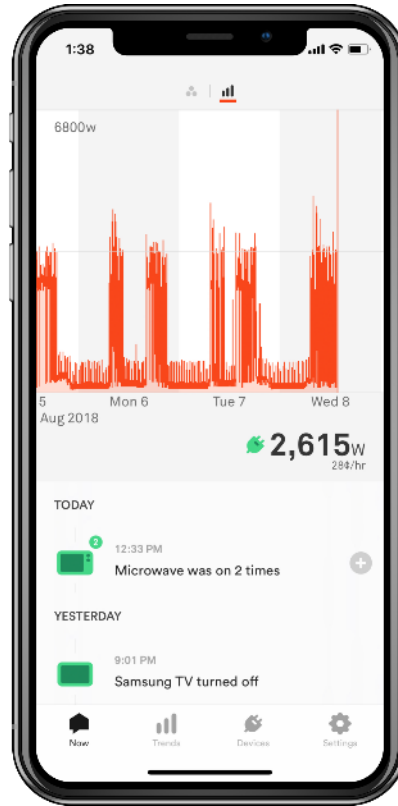
Security & reliability



Control & automation



Sense: at the intersection of energy and the smart home



Google Home
Voice-activated speaker



ecobee



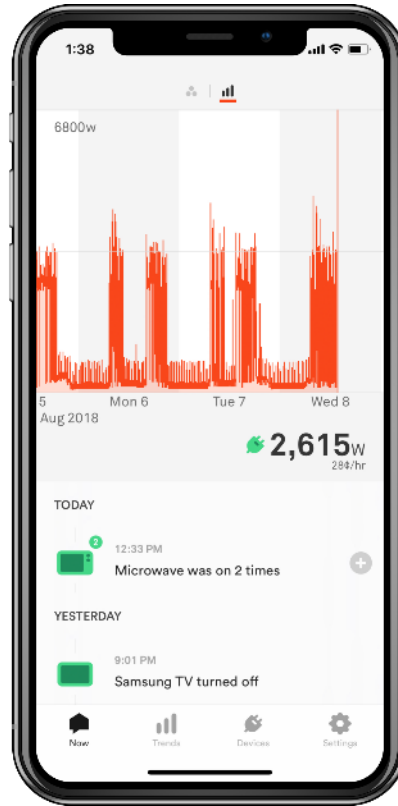
amazon echo



-chargepoint+



Sense: built into future homes with Schneider



Google Home
Voice-activated speaker



ecobee



amazon echo



-chargepoint+



Sense: built into utility meters



Next Generation
Utility Meter



Google Home
Voice-activated speaker



ecobee



amazon echo



chargepoint+



Use Cases



Energy Savings

Real-time detailed view drives engagement

50% weekly actives, average of 10 app opens per week

Engaged user gain transparency into energy use in homes

Savings through simple changes

Motivated users track down energy hogs

See sensesaves.sense.com

HVAC optimization coming

Thermostat+Sense+building modeling

The screenshot displays the Sense website's user stories section. At the top, the Sense logo is on the left, and navigation links for Product, Sense Saves, Technology, and Blog are on the right, along with a 'Get Sense' button. The stories are arranged in a 2x3 grid. Each story includes a title, a brief description, a 'Read Story' button, and a savings icon with a value.

Story Title	Author	Time	Savings
Sense found a mistake in my thermostat settings	Andrew S	6 days ago	\$20/year
Sense got me to kick out my renter; Saved my life	Blasco	2 weeks ago	\$400/mo
Sense helped find a malfunctioning Ice Maker.	J Dietz	4 weeks ago	\$25/year
Sense keeps my family cool.	Andrew S	1 month ago	Time
Costly baseboard heating	Blasco	1 month ago	\$200/mo
Overactive Well Pump	J Dietz	1 month ago	My lawn

HVAC: Combining Energy Metering and Thermostats

Connected thermostats know:

Setpoints and schedules

Indoor and outdoor temperatures

HVAC runtimes

High resolution energy monitors know:

Actual energy use

Detailed equipment behavior (for performance tracking and fault detection)

Sense working on:

HVAC fault detection

HVAC performance tracking



Load Shifting

Behavioral DR

Existing paradigm

Just launched with OhmConnect in CA

Sense benefits: engaged consumers, real-time view of what is on, data on results

Automated

Consumers don't want to be bothered

Automation allows real-time, dynamic, and predictable load shifting

Target loads: EVs, Water heater, HVAC, pool pumps, etc

4:14 PM
Your OhmHour has started & lasts until 11 PM! Check out which devices can be turned off to earn rewards via OhmConnect
See what's on >

4:00 PM
Your OhmHour starts at 10 PM! Delay starting energy hogs like laundry & consider pre-cooling your spaces to stay comfortable
See what's on >

Last 24 hours

Charge Activity

March 4, 2021

Start Time	2:00am
Stop Time	3:15am
Charge Time	1h 15m
Usage	3.6 kWh
Carbon Intensity	0.65 lbs/kWh

Fuel Mix (Last charge)

Carbon Intensity for each type in lbs/kWh.

Natural Gas 0.8 lbs/kWh	50.5%
Nuclear > 0 lbs/kWh	27.2%
Wind > 0 lbs/kWh	8.2%

Carbon Intensity

Newest release exposes Carbon Intensity and fuel source to consumers

Providing consumer awareness

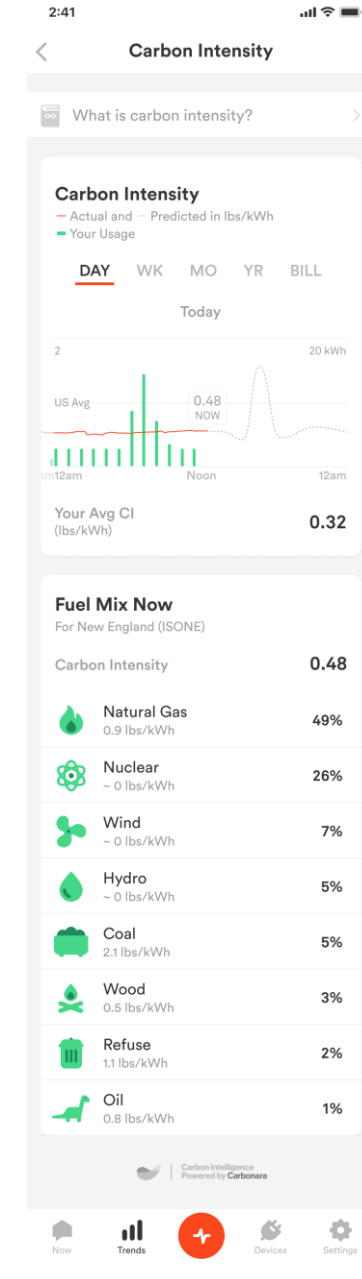
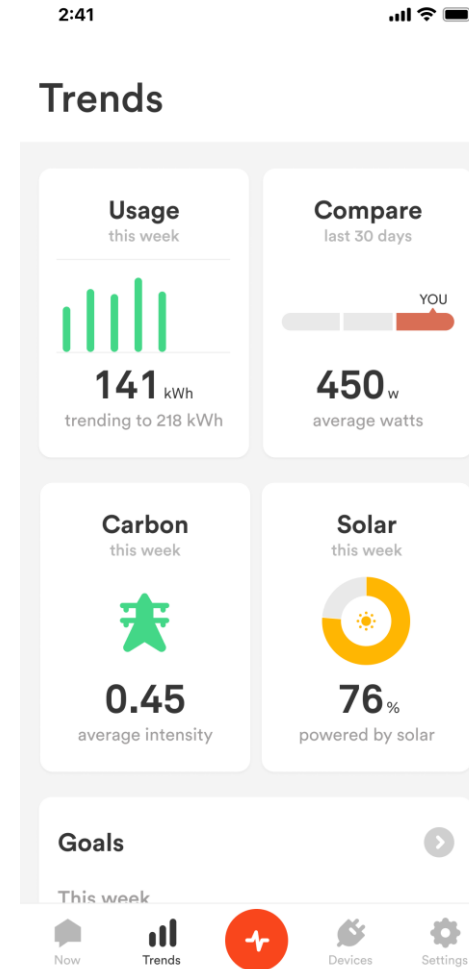
Using as example of future optimization

Really want joint optimization of

Carbon intensity

Cost

Grid and resource constraints





Thank you

sense.com