

EVERS©URCE

Compare your electricity usage

Account Number: 0710 000 0000

\$8.31

\$19.25

\$10.41

-\$0.13

\$0.53 \$3.25

\$41.62





Telephone Number Account Number Statement Ending

Oct 4, 2000

AT&T billing questions 1 800 222-0300 COMMUNICATION SERVICES (continued)

Billing for AT&T



AT&T BASIC SERVICES

Card Calls (continued)

Card - Date	3477 (continued)							
	Time	Called from		Called to	Period Eve	Min.	2.14	
Sep 29	8:11 pm	Indio	CA	New Haven	CT Eve	63		
Sep 29	9:11 pm	Indio	CA	Wallingfd	CT	63	57,32	
Sep 30	9:10 am	Indio	CA	New Haven	Night CT	1	2.14	
Sep 30	9:11 am				Night	1	2.14	
		Indio	CA	Wallingfd	CT		2.14	

Average usage in Aug 2014 (70 F)
Average usage in Aug 2015 (74 F)
Energy Profile

14 Any KWMMay

12

16

A S O N D J F M A M J J A

2014

Actual Estimate

Supplier Services Generation Detail

Subtotal

Delivery Services Detail

Comb Public Benefit Chrg*

Transmission Chrq

Distr Cust Srvc Chra

Distr Chrg per kWh

CTA Chrg per kWh FMCC Delivery Chrg

Standard Service

Distribution Rate: 001

313.00 kWh X .026550

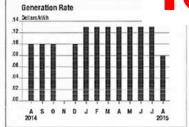
313.00 kWh X .033260

313.00 kWh X .000410

313.00 kWh X .001690

313.00 kWh X .010390

Your electric bill vs your phone bill



							10.15
F 20	f. 12	Indio	CA	New Haven	CT Night	1	2.14
Sep 30	5:42 pm	Indio	CA	New Haven	CT	•	2.14
Sep 30	5:43 pm			***	Night	37	34.18
Oct 1	3:26 pm	Indio	CA	Wallingfd	CT Night	1	2.14
		Indio	CA	Wallingfd	CT		
Oct 1	3:27 pm	Indio	CA	New Haven	Night CT	1	2.14
Oct 1	3:44 pm				Night	1	2.14
Oct 1	3:45 pm	Indio	CA	New Haven	CT Night	1	2.14
our	Josephin	Indio	CA	Wallingfd	CT		
Oct 1	4:59 pm	Indio	CA	Wallingfd	Night CT	1	2.14
Oct 1	5:00 pm		C.A.		Eve	10	10.15
Oct 1	7:34 pm	Indio	CA	New Haven	CT Eve	3	3.92
out	7:34 pm	Indio	CA	Wallingfd	CT	-	5.72

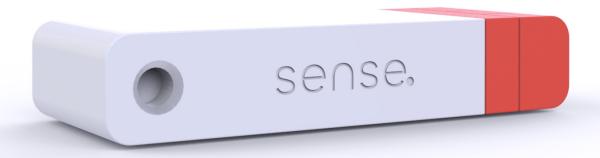


2.14 35.96

PEOPLE DON'T CARE ABOUT ENERGY.

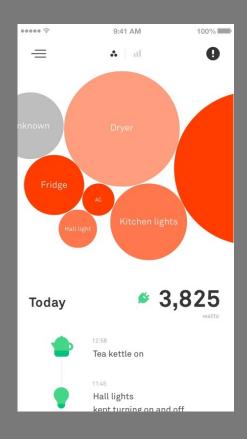
Well.
Not enough.
And not very frequently.

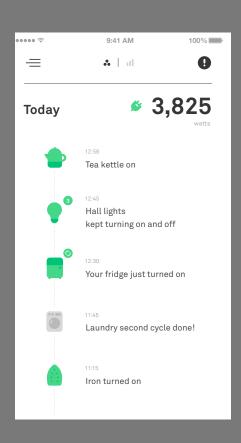
Sense: Intelligence for the home





Sense today: Home awareness

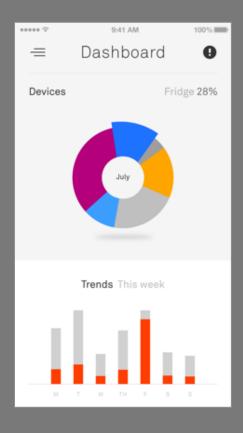


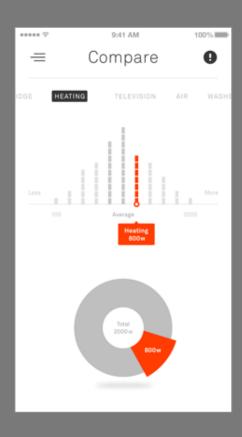


Know what's happening at home.

Awareness drives engagement and...

Sense future: Energy efficiency





Track your energy usage by appliance.

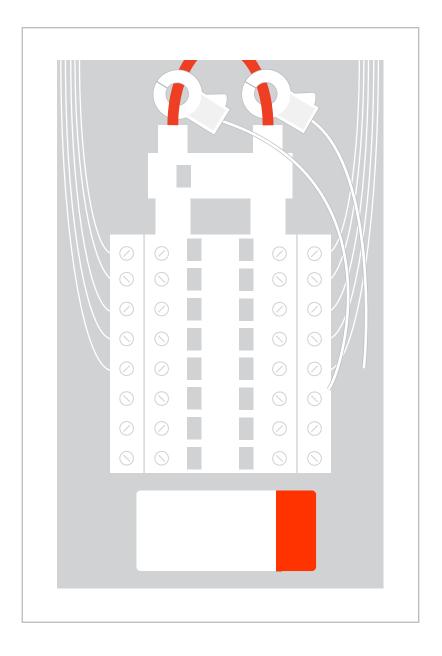
Engagement drives efficiency.



Sense installation

- Installed in the electric panel
- One monitor + 2 current transformers
- CTs attach to service mains
- Sense recommends electrician install

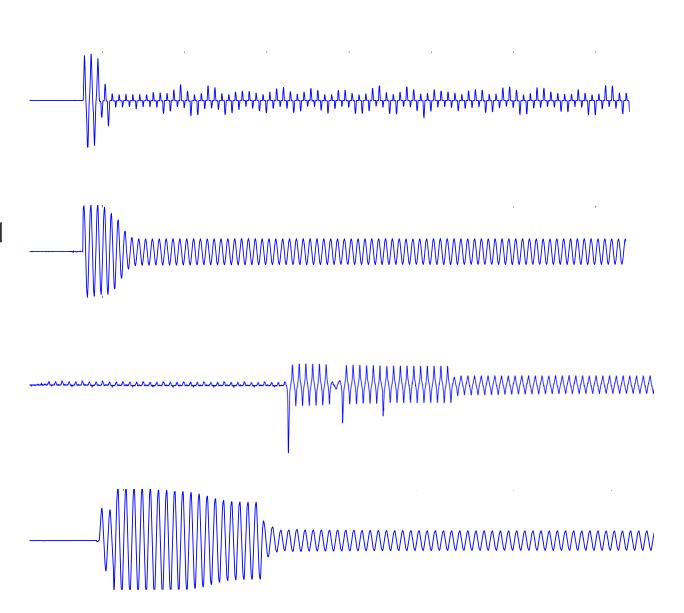
No need for sensors on each circuit breaker. No need for smart plugs for each appliance.





How does Sense work?

- Sense measures the incoming power in high resolution (current and voltage at sub-cycle times)
- Machine learning to determine state and power use of active devices.
- Over time, we build up a library of signatures.
 - "House Independent"
 - "House Specific"





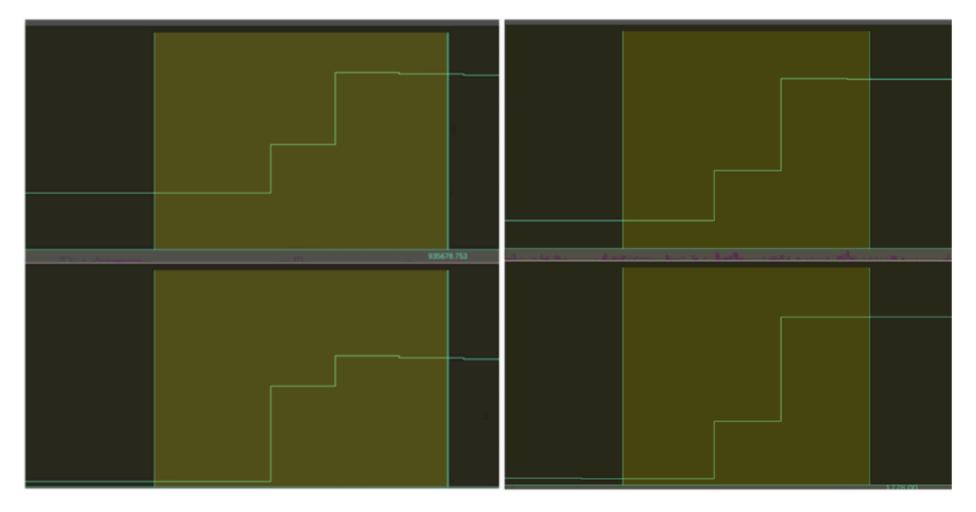
Technology

- Real-world signals, real-time feedback are significant challenges
- Our speech recognition backgrounds have been useful preparation!
- We have a working solution that will improve as we scale # of houses



High sampling frequency is required for accurate device detection

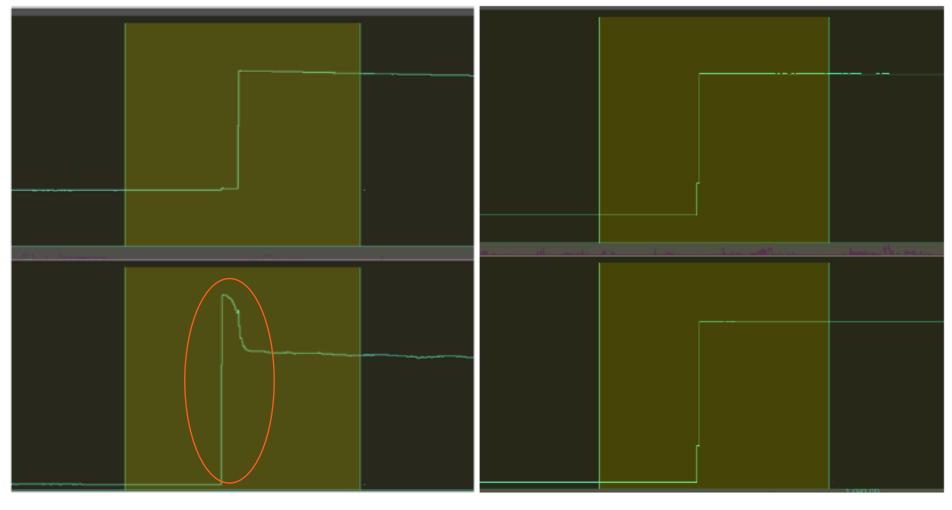
Two different high wattage devices at low-resolution look identical:





High sampling frequency is required for accurate device detection

The same two devices at a higher sampling rate.





Team background in speech recognition (Speechworks and Vlingo)



Mike Phillips CEO & Co-Founder Founder & CTO, Speechworks & Vlingo CMU, MIT



Ryan Houlette VP Engineering & Co-Founder Senior Architect, Vlingo Stanford



Chris Micali VP Product & Co-Founder Product Manager, Vlingo. Tufts



Charlie Rutledge VP Operations COO, Vlingo VP Professional Services, Speechworks, MIT Sloan



Rhoda Ullmann Marketing & Biz Dev Biz dev Bertelsmann New retail channels Staples. INSEAD



John Watlington Hardware VP Hardware, OLPC Research Scientist, France Telekom & MIT Media lab MIT



Shakwan Burnett Field Ops, Device Discovery



Etienne Bernard Sr Data Scientist



Ghinwa Choueiter Sr Data Scientist



Caleb Marcus Data Scientist



Fadi Saffouri Software Engineer



Joe Bamberg Hardware



Vlingo

Speechworks

Thank you

www.sense.com

From Sense customers

The app kicks ass, it's engaging, gorgeous, pretty addicting. I feel like I have a little glimpse into the future of energy, analytics, and customer engagement. I am pretty addicted to this app.

This is like a Twitter feed for my home.

It's the product I have dreamed of. When I get a letter from the power company telling me my usage vs my neighbors is the highest, now we will find out! I have to first commend you on an amazing approach to whole home monitoring. I have been wanting this type of system for a lot of years, but did not want to go through the cost and complexity of installing CTs on each circuit.

Installation was easy. It has been recognizing new appliances on an average of 1 every 2 - 3 days for the past 2 weeks. Things like our heating system, garage door opener, etc. I like gadgets and this fits in well with our home automation and focus on energy conservation. Even the kids like to learn and see what is consuming a lot of energy and enjoy finding ways to reduce waste.

