

wegowise

Putting Your Energy Data to Work

Craig Isakow, Business Development



Not All Building Energy Data Created Equal



Monthly
Energy Data



Interval
Energy Data



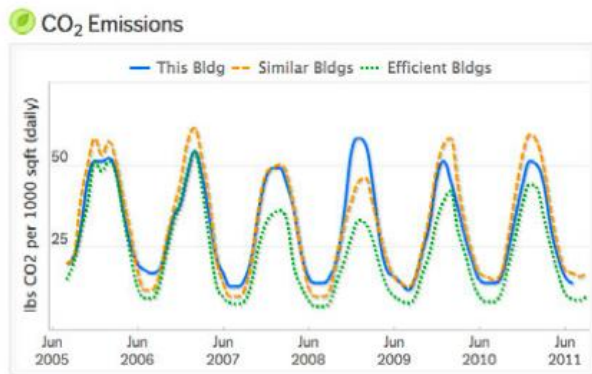
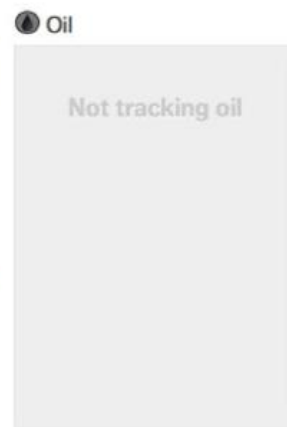
Real Time
Energy Data

Too Many People Still Overwhelmed With Paper

- 40 Buildings
- 203 Meters
- 3 Pages per bill
- 609 Pages/month
- 7,308 Pages/Year

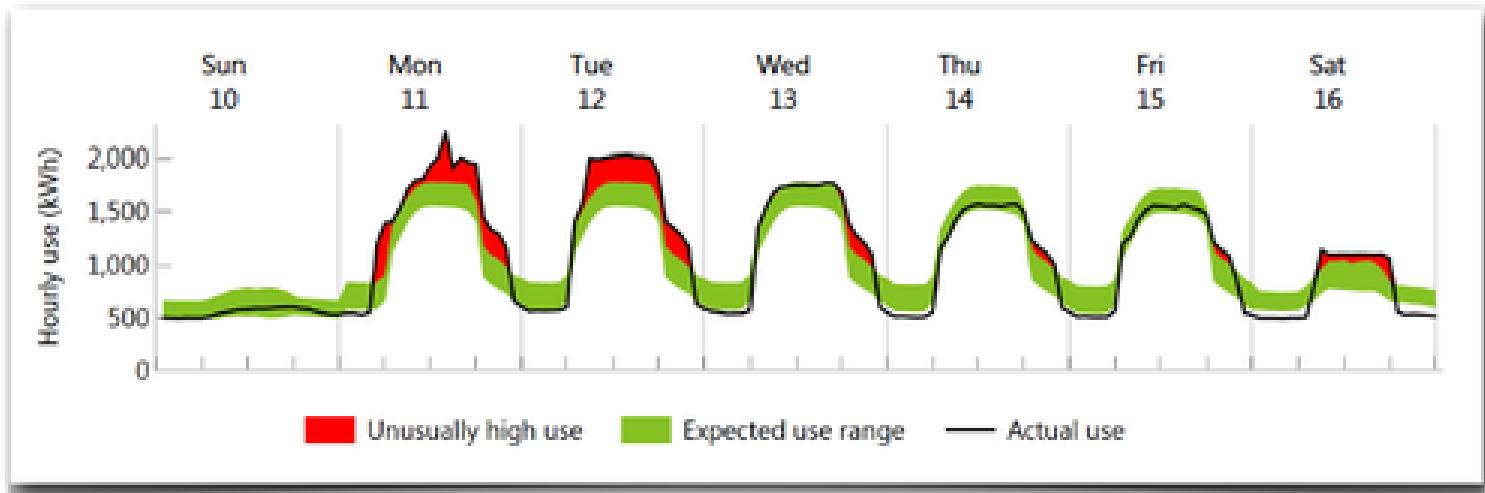


Monthly Data Provides Benchmarking Baseline



Interval Data Provides A Deeper Level of Insights

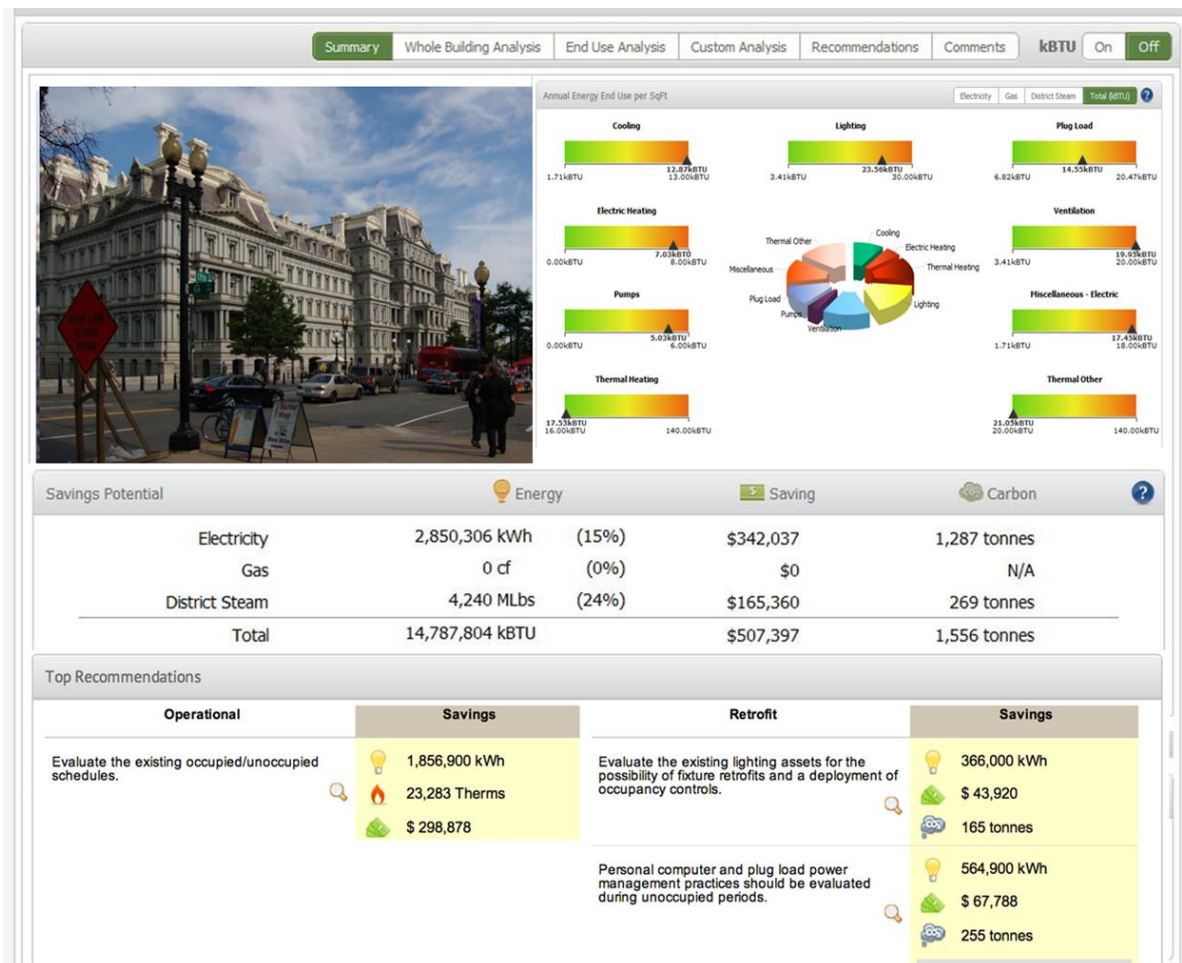
- Calculate base load
- Peak demand
- Load profile
- Preemptive actions
- Bill analysis
- Remote energy audits



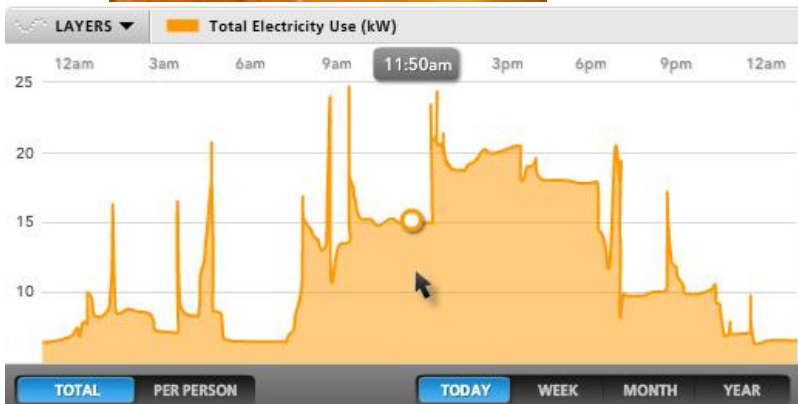
Interval Data in Action

Remote Energy Audits

FIRST FUEL
BUILDING ENERGY ANALYTICS



Real Time Data Can Lead to Immediate Actions

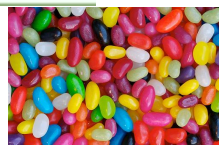


The dashboard provides a comprehensive overview of energy usage for the Kirner-Johnson building. At the top, it identifies the campus as Hamilton and the building as Kirner-Johnson, with a search bar for other buildings. The main section features a bar chart of 'Total Electricity Use (kWh)' for the week, showing a peak of 222 kWh on Thursday and a low of 119 kWh on Friday. A badge indicates '210 occupants' and a '4th' place ranking. Below the chart are tabs for 'TOTAL', 'PER PERSON', 'TODAY', 'WEEK', 'MONTH', and 'YEAR'. The dashboard also includes an 'Electricity Budget Tracker' for January, showing a goal of \$250 or less and a current total of \$188, which is 7% too high. It provides performance metrics: 8 days better than average, 5 average days, and 8 worse than average days. An 'Electricity End Use Breakdown' shows HVAC at 40%, Lights at 21%, Plugs at 28%, Servers at 7%, and Other at 4%. A social media feed at the bottom includes a post about a power off event and a reminder about phantom power.



With a Building Management System Component Level Analysis Possible

panoptix
BY JOHNSON CONTROLS



Which Level of Data Right for You?



Monthly
Energy Data



Interval
Energy Data



Real Time
Energy Data

Which Level of Data Right for You?

Efficiency Programs



Contact:

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Property Owners/ Managers



Energy Service Providers



Press Coverage



13,000+ Buildings

226 Million ft²

Established 2010

Appendix

Universal approach to
meaningful reductions in energy
and water use

Fundamental Idea Behind WegoWise

Building Characteristics

Building A
Cambridge, MA 02139

Age & Type of Building
Built in 1921
Low-rise apartment building

Housing Category
Low-income housing
Resident type: Other

Structure
Masonry (load-bearing) construction
No basement

Size
4,800 square feet in total
4,200 sq. ft. in apartments
3 stories tall
8 apartments
16 bedrooms

Energy Efficiency
Not certified as a green building

Heating
Gas heat
Boiler (Hot water)

Cooling
None

Hot Water
Gas hot water heater
Indirect hot water tank off boiler (Heat & DHW)

Facilities
No laundry
0 elevators
No ventilated garage
No swimming pool



Data in This Gas Account

Import status:

	End Date MM/DD/YYYY	Start Date MM/DD/YYYY	Usage Btu	Usage Therms	Total Charge
	09/14/2011	08/12/2011	21,500,000 Btu	215 thm	\$360.96
	08/11/2011	07/15/2011	15,300,000 Btu	153 thm	\$270.57
	07/14/2011	06/14/2011	19,200,000 Btu	192 thm	\$324.60
	06/13/2011	05/12/2011	43,600,000 Btu	436 thm	\$602.31
	05/11/2011	04/13/2011	67,600,000 Btu	676 thm	\$972.36
	04/12/2011	03/15/2011	53,300,000 Btu	533 thm	\$1,361.16
	03/14/2011	02/11/2011	69,900,000 Btu	699 thm	\$1,739.94
	02/10/2011	01/14/2011	70,200,000 Btu	702 thm	\$1,601.58
	01/13/2011	12/14/2010	90,000,000 Btu	900 thm	\$1,727.61
	12/13/2010	11/20/2010	61,000,000 Btu	610 thm	\$1,045.05
	11/19/2010	10/22/2010	53,064,000 Btu	531 thm	\$909.46
	10/21/2010	09/21/2010	45,936,000 Btu	459 thm	\$787.42
	09/20/2010	08/21/2010	14,544,000 Btu	145 thm	\$250.99
	08/20/2010	07/21/2010	15,768,000 Btu	158 thm	\$270.95



Building Info

Raw Utility Data

Example: How does my building compare?

Water

BETTER THAN AVERAGE

Entire building - Gallons / bedroom / day

3% better than similar bldgs



30% worse than efficient bldgs



[View meter-level data](#)

Electric

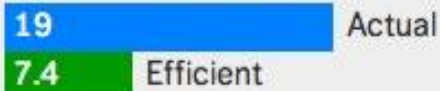
WORSE THAN AVERAGE

Common areas - kWh / 1k sqft / day

46% worse than similar bldgs



157% worse than efficient bldgs



[View meter-level data](#)

Gas

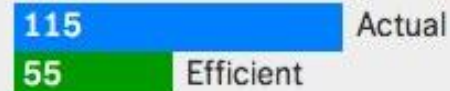
POOR

Entire building - Btu / sqft / day

55% worse than similar bldgs



109% worse than efficient bldgs

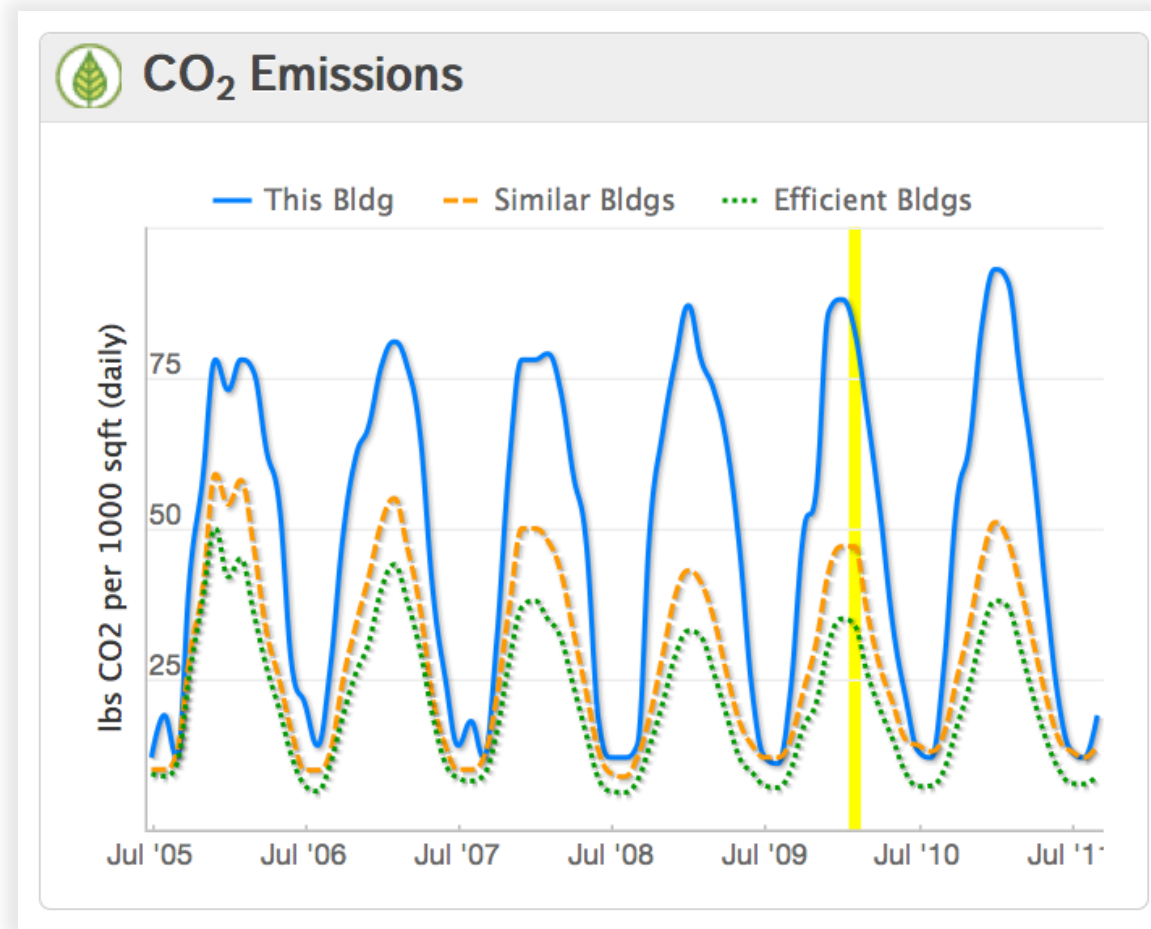


[View meter-level data](#)

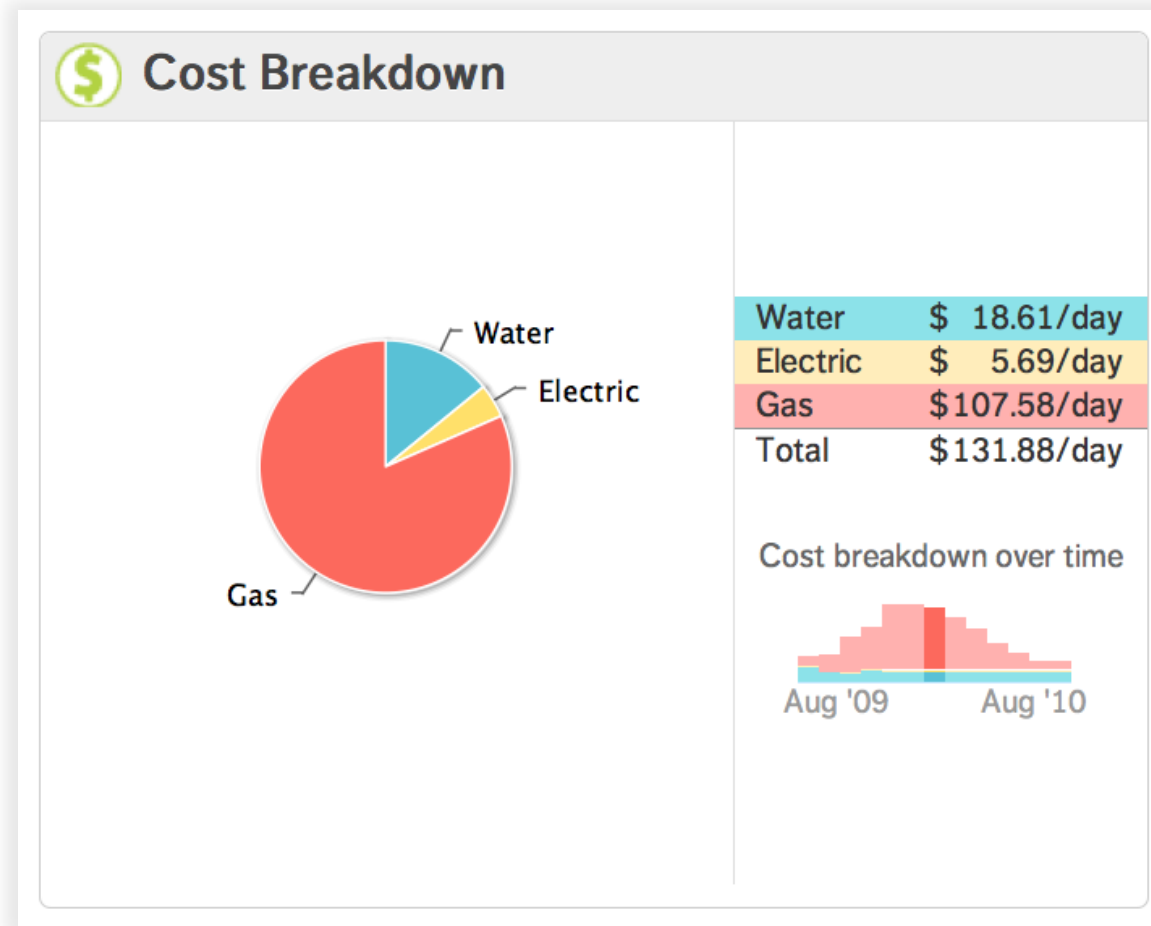
Example: Which buildings need attention?



Example: Are my buildings “green”?



Example: What's my expense distribution?



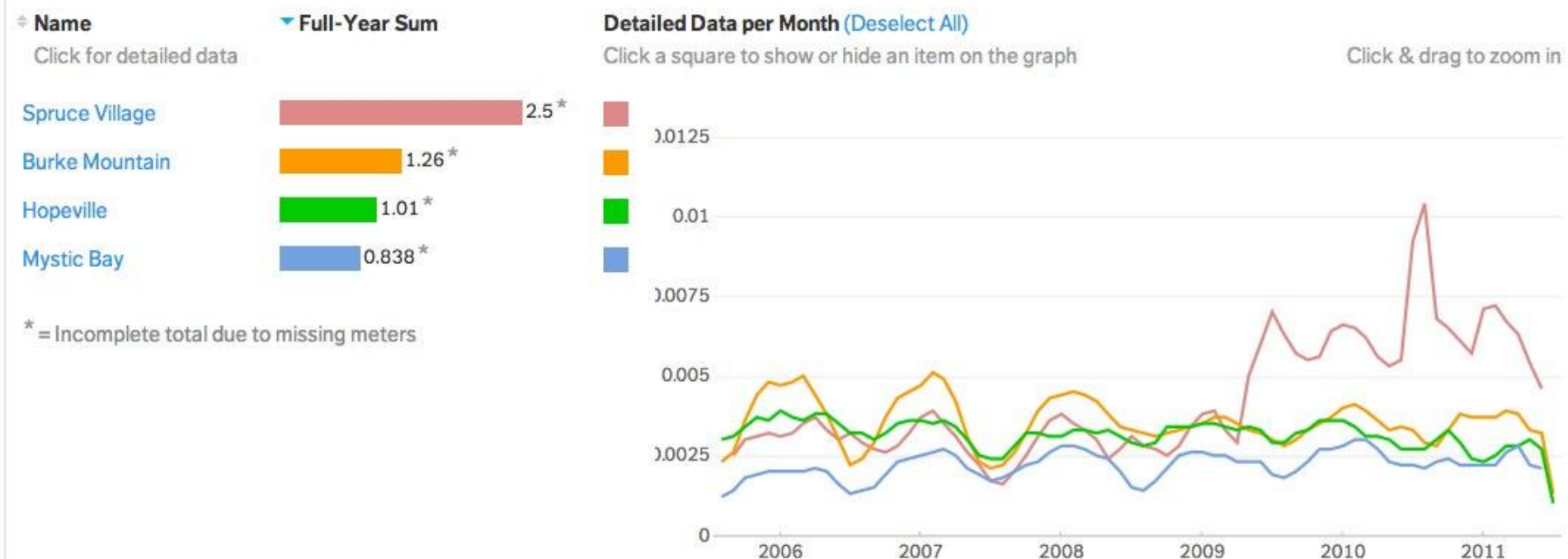
Example: Understand consumption trends

All Developments

[View Data](#) [+ Add a Development](#)

Electricity use in kWh per square foot

Raw Data Bookmarked Download



Effect of Boiler Upgrade (June 11, 2009)

[Back to list of all upgrades](#)

Total energy use in **Btu** per square foot

Raw Data

Bookmarked

Download

Date Range

Full-Year Sum

Detailed Data per Month (Deselect All)

Click a square to show or hide an item on the graph

Click & drag to zoom in

Jun 08 - May 09



101K*



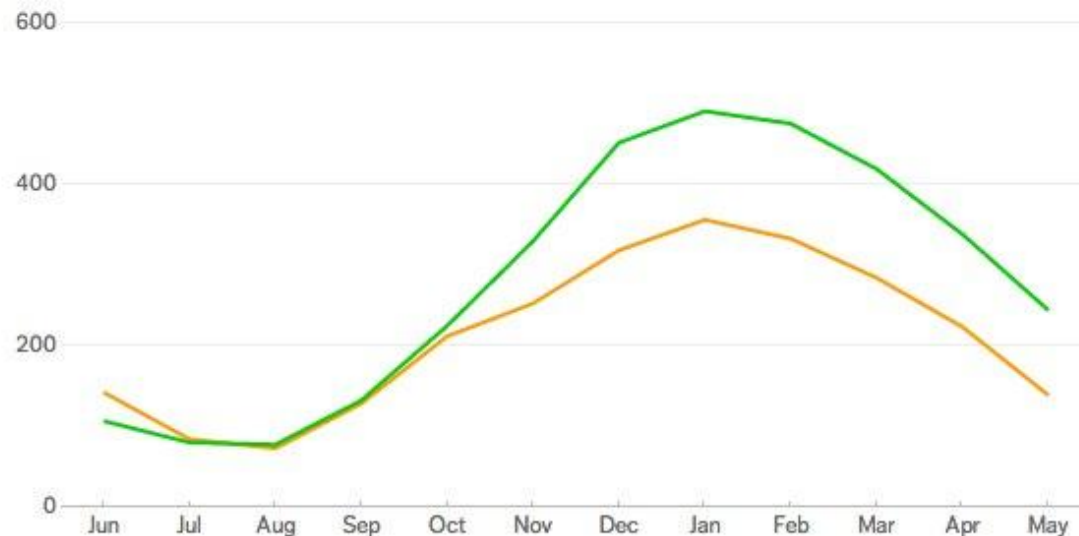
Jun 09 - May 10



76.3K*



* = Incomplete total due to missing meters



Before: Old a.O. Smith ~68% Efficient Boiler, Uninsulated Basement

After: New Slant/Finn 84% Efficient Boiler, Basement Ceiling Insulated With Foam

Cost: \$23,000.00

Expected Savings: 22%

Actual Savings: 25% (24,970 Btu / sqft)

Categories

HVAC — Heating — Mechanical Equipment

Building Envelope — Insulation — Foundation