

Measured Power i



Top Circuits On Now

- Unmonitored Power (10800w)
- RTU (Kitchen) (4408w)
- Heated MUA (3745w)
- Hood Exhaust Fan 4 (3660w)
- Heated MUA for EF 1 and 2 (3536w)
- ? - one ore more food war... (2250w)
- mega salad unit "A" (1579w)
- Mega Salad Units? (1517w)
- Hood Exhaust Fan 3 (1457w)
- Dish hood (1322w)
- Basement electric heat in... (1243w)

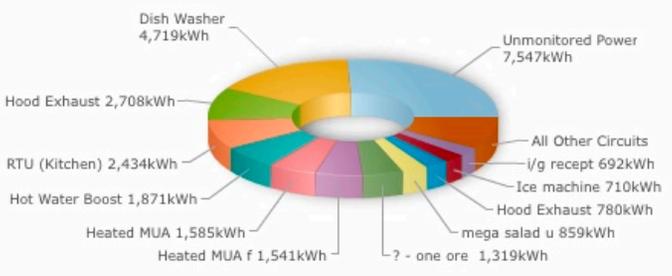
30-Day Carbon Footprint i

Last 30 Days	Previous Year	% Change
34,067 lbs.	39,724 lbs.	↓ -16.6%

30-Day Phantom Power **\$12** i

Electricity Use - Past 30 days: Top 12 Circuits

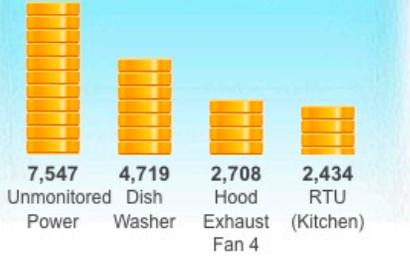
Click a slice or label for detail / [View All Circuits](#)



Electricity Usage in kWh by Month i

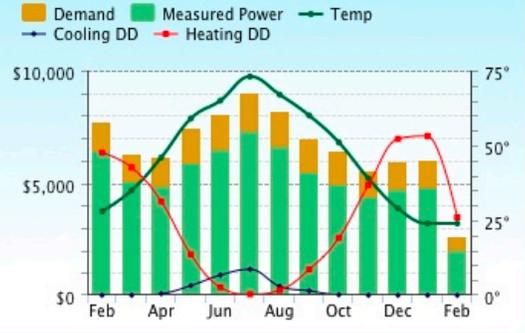


Top 4 Users by kWh - Last 30 days



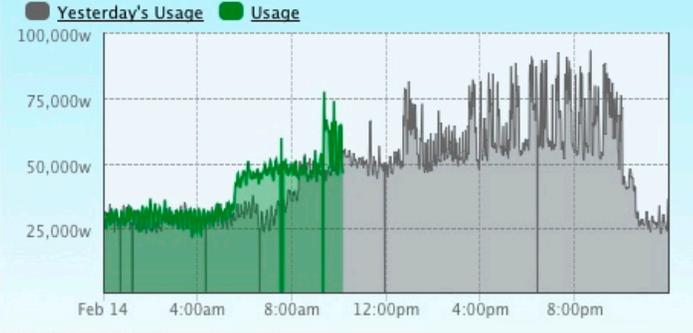
kWh Cost

Past Year
 Past Month
 kWh
 Cost



[View History Details](#)

Past Day
 Past Week
 Past Month



Click and drag in the plot area to zoom in.

[View Circuit Details](#)

Powerhouse dynamics is where I work, but oddly I don't work on the powerhousedynamics.com site. I work on the portal site where customers go to look at their power usage. It was emonitor.us but due to a marketing effort is now sitesage.net.

This is the powerhouse dynamics dashboard. I re-architected code that retrieves the data from the appropriate database tables and delivers it to the charts and gauges (Ajax datasources).

I also rewrote the lower left "history" chart. It was converted from flash/xml to a javascript/json charting package called highcharts. Clicking the tabs or radio buttons updates the chart with ajax.

- [+ All Circuits](#)
- [+ Heating & Cooling](#)
- [+ Ventilation](#)
- [+ Lighting](#)
- [- Refrigeration](#)
 - Beverage Fridge (near front door)
 - Drop-In Ice bin / soda tower / eMonitor
 - Glass Froster (bar)
 - Ice Machine
 - Refrigerated Prep Table (near pizza oven, not under hood)
 - Refrigerated Table (end of line)
 - Refrigerated Table (Pizza)
 - Refrigerated Table (Salad)
 - Refrigerator Wine Cooler
 - Refrigerator Wine Cooler
 - UC Bar Fridge (left)
 - UC Fridge (coffee area)
 - **Walk-in Cooler**
 - Walk-in cooler / Freezer lights
 - Walk-in Freezer
- [+ Food Prep](#)
- [+ Business Equipment](#)
- [+ Process Equipment](#)
- [+ Safety](#)
- [+ Misc](#)

Walk-in Cooler Circuit Details

Notes: Two stage condenser unit. On roof.
[Edit Channel Settings](#)

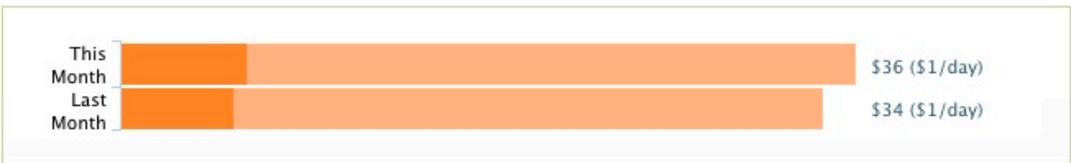


Now	
Usage	64 w
Power Factor	0.48
% Breaker Capacity	1%

Past 30 Days	
Energy	252 kWh
Power Factor	0.61
Cost	\$36
CO2	lbs

Runtime Information Show Detail ▾

Projected Costs vs Previous Period kWh Cost



Walk-in Cooler, Hourly View for the Past Week

Day Week Month

View History Details



Circuit Details page. I did the coding for the backend of this to. Also worked on updating the charts to highchart package from flash.

Circuits monitoring equipment is sometime misconfigured during installation so I added the “edit channel settings” as a direct link to edit this particular circuits details. Its a little thing but it actually is used frequently and makes life easier.

Benchmark

Benchmark

 HVAC/R BETA

 Food Safety BETA

Admin


Results - Past 30 Days (based on measured usage)

[Select Date Range](#)
[Export Data](#)
[Report Preferences](#)

 View By: Location
 Weather Normalize ⁱ Cost Usage Totals

 Search:

Name	City	State	Cost	Cost Sq. Ft.	Cost Oper.Hr.	view
Bellingham	Bellingham	MA	\$ 580	\$ 0.48	\$ 1.57	view
Boston	Boston	MA	\$ 686	\$ 0.23	\$ 0.00	view
Braintree	Braintree	MA	\$ 7,795	\$ 1.95	\$ 24.58	view
Burlington	Burlington	MA	\$ 0	\$ 0.00	\$ 0.00	view
Dedham	Dedham	MA	\$ 5,801	\$ 0.97	\$ 17.24	view
Hudson	Hudson	MA	\$ 731	\$ 0.15	\$ 1.98	view
Lexington	Lexington	MA	\$ 3,874	\$ 1.55	\$ 8.73	view
Newton	Newton	MA	\$ 143	\$ 0.05	\$ 0.00	view
Salem	Salem	MA	\$ 1,830	\$ 0.73	\$ 3.81	view
Shrewsbury	Shrewsbury	MA	\$ 3	\$ 0.00	\$ 0.01	view
Upton	Upton	MA	\$ 786	\$ 0.36	\$ 2.13	view
Wakefield	Wakefield	MA	\$ 0	\$ 0.00	\$ 0.00	view
Waltham	Waltham	MA	\$ 0	\$ 0.00	\$ 0.00	view
Westborough	Westborough	MA	\$ 666	\$ 0.13	\$ 1.85	view
Worcester	Worcester	MA	\$ 1,133	\$ 0.52	\$ 2.91	view

Page 1 of 1

40

View 1 - 15 of 15

This is the management portal or “enterprise view”. I rewrote this page from scratch as it wasn’t designed to handle our larger customers who have 800+ locations. This page also acts a navigation page to allow users to view individual sites that they have permissions to see.

I also wrote the code that allows the grouping of locations into regions/ sub regions trees.

The controls above the table dynamically change the columns displayed. It uses javascript and a grid package called jqgrid. The top is just a google map implementation. Clicking the pins gives current power use.



Demand Charge Summary - Feb 2014

[Summary Report](#)
[Off Hours Report](#)
[Demand Report](#)

Select A Month for Report:

During this period your peak demand was **102 KW** which cost you **\$3,046** in demand charges. If you reduced you demand charge 10% your savings for the month would be \$ 305 and up to \$ 1,828 for the full 6 month season.

The times and days of the week marked in red in the chart below represent when and how often during the selected month your energy use ("demand") was the highest. To reduce your demand charges, you should focus on these periods. The second chart below shows you the top 20 pieces of equipment that contributed to the high energy use.

Hours	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total
11 - 12 am	2	8	2	2	4	3	0	21
12 - 1 pm	3	3	1	4	3	2	5	21
1 - 2 pm	4	4	1	2	3	4	3	21
2 - 3 pm	1	1	1	2	3	3	12	23
3 - 4 pm	0	0	0	0	5	6	7	18
4 - 5 pm	0	1	0	0	0	3	7	11
5 - 6 pm	6	1	3	1	7	9	9	36
6 - 7 pm	6	0	5	4	9	15	11	50
7 - 8 pm	3	1	4	5	12	13	5	43
8 - 9 pm	3	1	6	11	12	15	4	52
9 - 10 pm	0	1	0	1	8	6	0	16
10 - 11 pm	0	0	0	0	1	0	0	1
TOTAL	28	21	23	32	67	79	63	313

Feb 2014 - Equipment that used the most energy during the highlighted times and days of the week:



This is the Demand Report which I coded both the backend and front end.

The pages shows which part of the week your business is using the most power. No power issues before 11 am so the grid is truncated for clarity.

The bottom chart shows which circuits are contributing the most to power usage during those peaks.

The grid is just an html table, the chart is another javascript chart (highcharts).

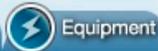
The selection buttons in the top right are jquery ui components.

The calculations are pretty intensive for this report and slow to do on demand. To solve this problem a script is run daily to calculate and store a summary so retrieval and chart generation is reasonable.

They asked for the update button on the date drop down, I might have just had it update when that changed.



Facility



Equipment



Controls



Alerts



Reports



Weather

eMonitor Status: ●

Current use: 51.89 kW | \$6.49/hr

Current voltage: 125v

Outside Temp: 28°F

Enterprise



Alerts

Please select the Alerts you would like to receive. Alerts address Budget, Safety, Savings, Equipment Performance and Comfort issues

Please note that some Alerts need a certain period of time - e.g. 7 days - to build a baseline.

Budget Alerts

Notify us if our electricity cost is projected to be more than \$ in the month

Get advanced notice so you have time to adjust your usage.

Notify us when our electric bill for the month has passed \$

Note: utility billing periods vary from month to month, so this monthly threshold will not correspond directly to your actual bill.

Safety Alerts

Notify us when any circuit is getting close to % of its rated capacity

This warning could potentially help you avoid a short circuit or damage to electronics.

Notify us when a particular circuit is drawing little or no power for an extended period

Select this alert, for example, to check on medical equipment or computers you would like to keep on, or to make sure your furnace is running.

Select Circuits

Notify us if the voltage level goes outside the expected range

Low voltage can cause circuit overloads; high voltage can damage electronics.

Just a form with checkboxes for signing up for Alerts. The select circuits button pops up a circuit selection dialog box using jquery ui.

Back

STEPS

1. Select Membership
2. Location Select
- 3. Contact Info**
4. Profile Info
5. Select Options
6. Verify Info
7. Make Payment

2014 Membership

3. Enter Artist Contact Information

The information you provide on this form will not be made public. This is the information we use to contact you should we need to. To avoid membership application delays please be accurate.

All fields are required, except when noted.

Contact Info

Email Address

First Name

Last Name

Mailing Street Address

Mailing Suite Address

City

State

Zip Code

Daytime Phone required

Continue

This is the newest part of the Somerville Open Studios site which I maintain. During registration 400+ artists of widely varying degrees of computer operating skill sign up and pay to participate.

I coded the registration pages and the backend which allows the membership team to check and approve eligibility.

Registration uses bootstrap with javascript error checking on the frontend. The backend also does error checking in php. Mysql is the database.

Registration has just closed and the site is being updated for the event in May, but its visitable.

Back

STEPS

1. Select Membership
2. Location Select
3. Contact Info
- 4. Profile Info**
5. Select Options
6. Verify Info
7. Make Payment

2014 Membership

4. Profile Information

This is your public profile information, which will be displayed on your online profile page and printed in the map book. Once your registration is complete you will also be able to add images of your work and an artist statement to your online profile.

Public Profile Information

Name Information

You have the choice of being listed by your first and last name or by a single business name. If you would like to include both, select "First and Last Name" here, then select to purchase an additional business name below. Click [here](#) to see sample map book listings from a previous year. (Note that this year's map book may use different formatting and colors.)

Option 1: First and Last Name

Artists with a single names (Banksy, Christo, Michaelangelo, Titian, ...) should use the last name field.

First Name

Last Name

Option 2: Business/Organization Name

Business Name

Purchase Additional Business Name

Map book listing with artist AND business name (Jane Doe, Jane's Designs)

Purchase Business Name (\$12)

Business Name

Map Book Preview

This is an approximation of how your name(s) will be listed in the map book

My Business Name

Aram Comjean

Art Information

Short Description of Art (in 30 char or less)

Media Types (check up to 3)

- | | |
|---|---|
| <input type="checkbox"/> Books + Paper | <input type="checkbox"/> Jewelry/Beads |
| <input type="checkbox"/> Collage/Assemblage | <input type="checkbox"/> Painting |
| <input type="checkbox"/> Drawing | <input checked="" type="checkbox"/> Photography |
| <input type="checkbox"/> Fiber/Textiles | <input type="checkbox"/> Pottery |
| <input type="checkbox"/> Furniture | <input type="checkbox"/> Printmaking |
| <input type="checkbox"/> Glass/Mosaic | <input type="checkbox"/> Sculpture |
| <input type="checkbox"/> Graphic Design | <input type="checkbox"/> Video |
| <input type="checkbox"/> Installation | |
| <input type="checkbox"/> Other (if your art REALLY doesn't fit into another category) | |

Other Details (If "Other" is selected)

Another Somerville Open Studio form. We ask for a significant amount of information during registration.

The form opens and closes text area using javascript to show which parts of the form should be filled in.

Back Nancy Anderson Home

Go back

Nancy Anderson

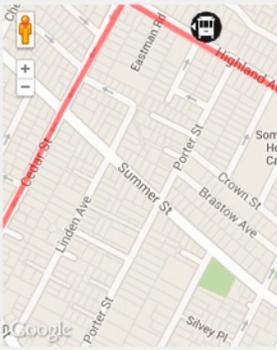
oil painting
Arts at the Armory
191 Highland Avenue
MAP # 62
Visit this artist's [non-mobile SOS page](#)

+ Add To Itinerary



Blue
oil on canvas
[43" x 26"]

- Map (click to collapse)



MAP #62 | 191 Highland Avenue - S

My Location Directions (Google)

Artist's Statement

I love the city and thought that capturing its grittiness or buzz would be my thing but instead I've been painting these portraits. As a kid, I drew the faces I saw around me, and started painting with oils at age 12 but I had somehow managed to stray from it. Now, as a local dog walker photographing the faces of those who surround me during the day, the images that emerged were begging to be put on canvas. I see the expressions in their eyes and it has brought me back to the task of trying to

Back Artists Home

Search :

Search Artists

Find Artists by Map # :

Search Artists

View By Proximity

List By Distance (Sat+Sun) >

Map By Distance (Sat+Sun) >

View My Itinerary (beta)

Itinerary >

Itinerary By Distance >

Itinerary By Map >

View By Medium

Books + Paper >

Collage >

Drawing >

Fiber and Textiles >

I made a jquery mobile version of the Somerville Open Studios website last year. Works pretty well on the desktop too and reminds me that the non-mobile site needs updating. We're working toward making the whole site responsive.

It can be checked out at 2013.somervilleopenstudios.org/mobile/