

READINGS:

| | 1/1/2014 | 2/1/2014 | 3/1/2014 | 4/1/2014 | 5/1/2014 | 6/1/2014 |
|--------------------|----------|----------|----------|----------|----------|----------|
| | Start | Jan | Feb | Mar | Apr | May |
| | | KWH | KWH | KWH | KWH | KWH |
| Hot Tub Meter | 2236 | 2420 | 2555 | 2732 | 2870 | 2994 |
| Water Meter A | 370 | 401 | 411 | 420 | 428 | 447 |
| Water Meter B | 316 | 343 | 352 | 360 | 366 | 383 |
| Unitil Meter | 995533 | 996870 | 997358 | 997503 | 996814 | 996176 |
| Control Room Meter | 32340 | 33175 | 34132 | 35480 | 37326 | 38935 |

Solar Collection

| | HRS | HRS | HRS | HRS | HRS | HRS |
|---------------------|------|------|------|------|------|------|
| A - DHW Tank | 3759 | 3880 | 4021 | 4254 | 4519 | 4844 |
| B - Buffer Tank | 2757 | 2832 | 2925 | 3110 | 3323 | 3571 |
| C - Earth Heat Sink | 2195 | 2270 | 2344 | 2503 | 2669 | 2843 |

Calculations:

| | KWH | KWH | KWH | KWH | KWH |
|-----------------------------------|-------|-------|-------|-------|-------|
| Total Project Power Used | 2172 | 1445 | 1493 | 1157 | 971 |
| Ave Project Power Used/Day | 70.06 | 51.61 | 48.16 | 38.57 | 31.32 |
| Power Produced | 835 | 957 | 1348 | 1846 | 1609 |
| Ave Power Produced/Day | 26.94 | 34.18 | 43.48 | 61.53 | 51.90 |
| DHW Power Used | 58 | 19 | 17 | 14 | 36 |
| Ave DHW Power Used/Day | 1.87 | 0.68 | 0.55 | 0.47 | 1.16 |
| Hot Tub Power Used | 184 | 135 | 177 | 138 | 124 |
| Ave Hot Tub Power Used/Day | 5.94 | 4.82 | 5.71 | 4.60 | 4.00 |
| Net Near Net Zero KWH | 1337 | 488 | 145 | (689) | (638) |
| Net Near Net Zero KWH W/O Hot Tub | 1153 | 353 | (32) | (827) | (762) |

Solar Collection

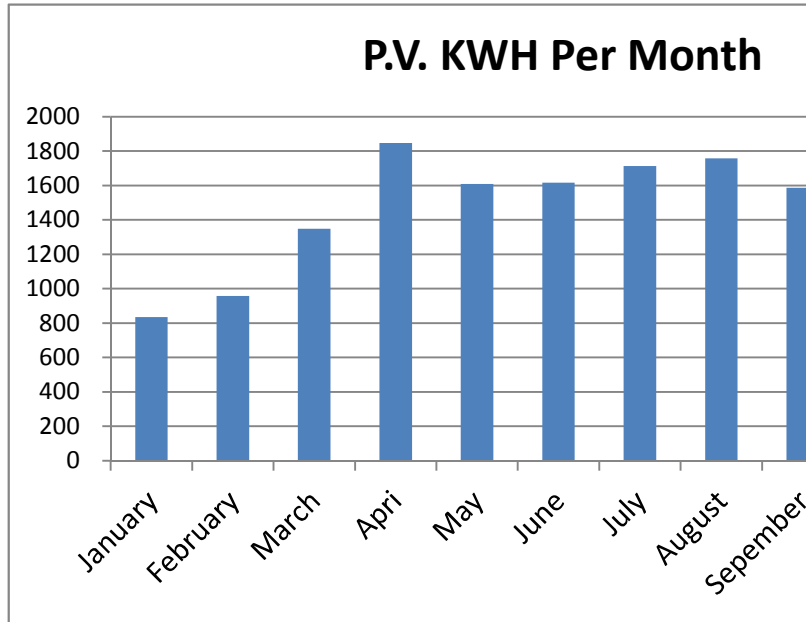
| | HRS | HRS | HRS | HRS | HRS |
|-----------------------------|-------|-------|-------|-------|-------|
| A - DHW Tank HRS | 46 | 48 | 48 | 52 | 77 |
| A - DHW Tank HRS/Day | 1.48 | 1.71 | 1.55 | 1.73 | 2.48 |
| B - Buffer Tank Calc # | 75 | 93 | 185 | 213 | 248 |
| B - Buffer Tank Hrs | 0 | 19 | 26 | 47 | 74 |
| B - Buffer Tank Hrs/Day | 0.00 | 0.68 | 0.84 | 1.57 | 2.39 |
| C - Earth Heat Sink Hrs | 75 | 74 | 159 | 166 | 174 |
| C - Earth Heat Sink Hrs/Day | 2.42 | 2.64 | 5.13 | 5.53 | 5.61 |
| Total HRS/Day | 3.90 | 5.04 | 7.52 | 8.83 | 10.48 |
| Total Solar Pump KWH | 12.11 | 14.11 | 23.31 | 26.51 | 32.52 |
| Days/Month | 31 | 28 | 31 | 30 | 31 |

| | | | | | |
|---------------------|--------|--------|--------|-------|-------|
| | 70.1 | 51.6 | 48.2 | 38.6 | 31.3 |
| | 70.1 | | | | |
| HRV Power | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| | 1877.9 | 1236.9 | 1235.7 | 938.5 | 738.5 |
| Plug Load KWH/Month | 705.0 | 705.0 | 705.0 | 705.0 | 705.0 |
| Plug Load KWH/Day | 22.7 | 25.2 | 22.7 | 23.5 | 22.7 |
| | 1172.9 | 531.9 | 530.7 | 233.5 | |

| 7/1/2014 | 8/1/2014 | 9/1/2014 | 10/1/2014 | 11/1/2014 | 12/1/2014 | 1/1/2015 | Totals |
|----------|----------|----------|-----------|-----------|-----------|----------|--------------|
| Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
| KWH | KWH | KWH | KWH | KWH | KWH | KWH | |
| 3083 | 3150 | 3221 | 3310 | 3420 | 3500 | 3646 | |
| 457 | 470 | 481 | 491 | 513 | 533 | 565 | |
| 392 | 402 | 412 | 420 | 440 | 456 | 484 | |
| 995353 | 994619 | 993726 | 993005 | 993019 | 993479 | 994667 | |
| 40551 | 42264 | 44021 | 45608 | 46584 | 47270 | 47782 | |
| HRS | HRS | HRS | HRS | HRS | HRS | HRS | |
| 5171 | 5507 | 5815 | 6069 | 6276 | 6417 | 6528 | |
| 3832 | 4085 | 4306 | 4490 | 4639 | 4732 | 4799 | |
| 3050 | 3250 | 3417 | 3540 | 3625 | 3692 | 3745 | |
| KWH | KWH | KWH | KWH | KWH | KWH | KWH | |
| 793 | 979 | 864 | 866 | 990 | 1146 | 1700 | 14576 |
| 26.43 | 31.58 | 27.87 | 28.87 | 31.94 | 38.20 | 54.84 | |
| 1616 | 1713 | 1757 | 1587 | 976 | 686 | 512 | 15442 |
| 53.87 | 55.26 | 56.68 | 52.90 | 31.48 | 22.87 | 16.52 | |
| 19 | 23 | 21 | 18 | 42 | 36 | 60 | 363 |
| 0.63 | 0.74 | 0.68 | 0.60 | 1.35 | 1.20 | 1.94 | |
| 89 | 67 | 71 | 89 | 110 | 80 | 146 | 1410 |
| 2.97 | 2.16 | 2.29 | 2.97 | 3.55 | 2.67 | 4.71 | |
| (823) | (734) | (893) | (721) | 14 | 460 | 1188 | (866) |
| (912) | (801) | (964) | (810) | (96) | 380 | 1042 | (2276) |
| HRS | HRS | HRS | HRS | HRS | HRS | HRS | |
| 66 | 83 | 87 | 70 | 58 | 48 | 44 | 727 |
| 2.20 | 2.68 | 2.81 | 2.33 | 1.87 | 1.60 | 1.42 | |
| 261 | 253 | 221 | 184 | 149 | 93 | 67 | |
| 54 | 53 | 54 | 61 | 64 | 26 | 14 | 492 |
| 1.80 | 1.71 | 1.74 | 2.03 | 2.06 | 0.87 | 0.45 | |
| 207 | 200 | 167 | 123 | 85 | 67 | 53 | 1550 |
| 6.90 | 6.45 | 5.39 | 4.10 | 2.74 | 2.23 | 1.71 | |
| 10.90 | 10.84 | 9.94 | 8.47 | 6.68 | 4.70 | 3.58 | |
| 32.72 | 33.62 | 30.82 | 25.41 | 20.71 | 14.11 | 11.11 | 277.0385 KWH |
| 30 | 31 | 31 | 30 | 31 | 30 | 31 | |
| 26.4 | 31.6 | 27.9 | 28.9 | 31.9 | 38.2 | | |
| 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 480 |
| 612.3 | 815.4 | 701.2 | 693.6 | 777.3 | 975.9 | 1442.9 | |
| 705.0 | 705.0 | 705.0 | 705.0 | 705.0 | 705.0 | 705.0 | 8460 |
| 23.5 | 22.7 | 22.7 | 23.5 | 22.7 | 23.5 | 22.7 | |
| | 110.4 | | | | 270.9 | 737.9 | |

P.V. KWH Per Month

| | |
|------|-----------|
| 835 | January |
| 957 | February |
| 1348 | March |
| 1846 | April |
| 1609 | May |
| 1616 | June |
| 1713 | July |
| 1757 | August |
| 1587 | September |
| 976 | October |
| 686 | November |
| 512 | December |



39.954

42.30028

-2.34627

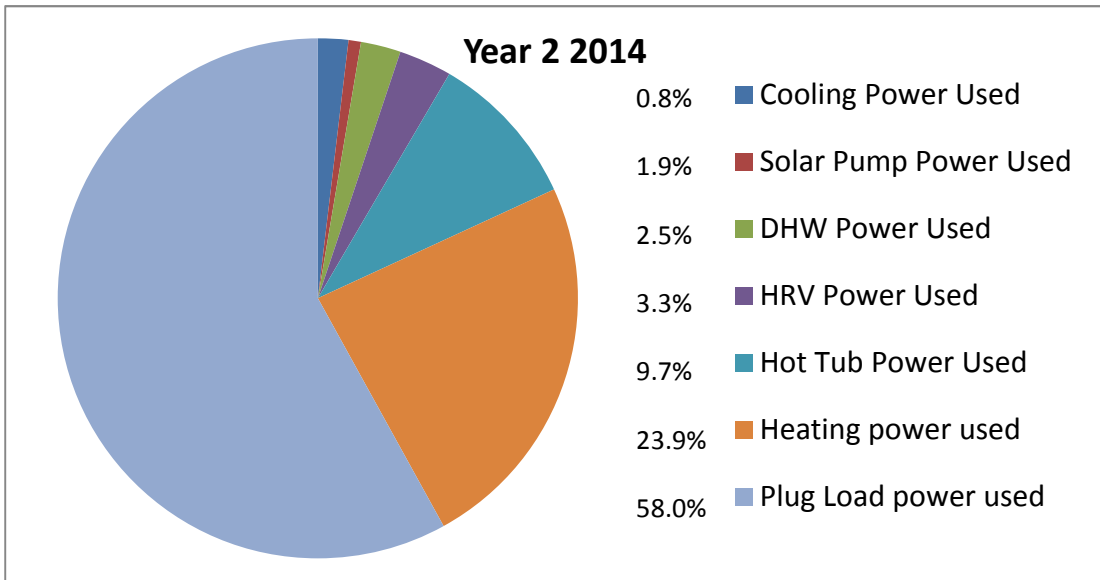
3.864689

100.0%

- 1.9% Solar Pump Power Used
- 0.8% Cooling Power Used
- 2.5% DHW Power Used
- 3.3% HRV Power Used
- 9.7% Hot Tub Power Used
- 23.9% Heating power used
- 58.0% Plug Load power used

Year 2 2014

- 0.8% Cooling Power Used
- 1.9% Solar Pump Power Use
- 2.5% DHW Power Used
- 3.3% HRV Power Used
- 9.7% Hot Tub Power Used
- 23.9% Heating power used
- 58.0% Plug Load power used



334

38.60084

3,400 Sq-Ft

4,228 Total HVAC KWH

14,439,204 Total HVAC BTU

4.2 Total HVAC KBTU/SF

705

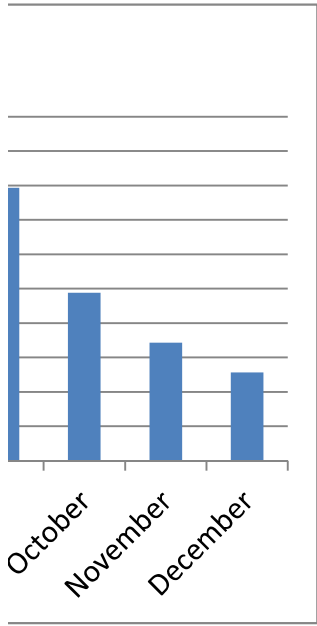
14576 Total KWH

49,777,040 Total BTU

14.6 Total KBTU/SF

-0.67 NET KBTU/SF (without Hot tub)

-0.25 NET KBTU/SF (with Hot tub)



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