

Geyser daily report for Saturday, October 10

1 Overview

Total hot water used	295.4 litres
Number of events larger than 10 litres	7
Number of events smaller than 10 litres	19
Total number of events	26
Maximum hot water temperature (geyser setpoint)	58.0 °C
Average hot water temperature	46.0 °C
Coldest geyser outlet temperature	39.0 °C
Average ambient temperature at geyser	23.0 °C
Electrical energy consumed	12.6 kWh
Effective energy consumed	10.6 kWh
Standing losses	2.0 kWh
Percentage energy wasted	15.9 %
Estimated cost of electricity	R 18.90
Estimated cost of standing losses	R 3.00

2 Other participant comparison

Your Geyser ID is 107

ID	104.00	106.00	107.00	109.00	112.00
Total Volume (l)	0.00	180.70	295.40	112.50	55.70
Electrical energy (kWh)	2.50	9.50	12.60	9.00	6.20
Effective energy (kWh)	0.00	5.70	10.60	6.00	2.70
Est cost (R)	3.75	14.25	18.90	13.50	9.30
Energy loss (kWh)	2.50	3.80	2.00	3.00	3.50
Loss (%)	100.00	40.00	15.90	33.30	56.50
Out Min (C)	42.00	38.00	39.00	59.00	38.00
Out Mean (C)	45.00	44.00	46.00	64.00	42.00
Out Max (C)	52.00	48.00	58.00	70.00	61.00
In Min (C)	18.00	15.00	15.00	20.00	12.00
In Mean (C)	24.00	21.00	22.00	24.00	16.00
In Max (C)	31.00	28.00	36.00	31.00	19.00
Amb Min (C)	16.00	15.00	15.00	20.00	12.00
Amb Mean (C)	22.00	21.00	23.00	25.00	18.00
Amb Max (C)	29.00	29.00	39.00	33.00	23.00
Total #events	1.00	40.00	26.00	16.00	2.00
Large #events	0.00	5.00	7.00	2.00	1.00
Small #events	1.00	35.00	19.00	14.00	1.00
Packet loss (%)	0.62	0.00	1.74	10.56	0.35

3 Hot water usage event summary

3.1 Large events

The following is a summary of events *larger* than 10 litres.

Number of events	7
Total volume of water consumed	258.5 litres
Total energy consumed	9.3 kWh
Total estimated cost	R13.97

	Start time	Volume (l)	Duration	Avg temperature	Est energy (kWh)	Est cost (R)
4	09:28:20	57.45	6.00	46.50	1.79	2.69
7	11:38:20	11.04	8.02	52.88	0.39	0.59
20	15:15:20	32.24	4.00	55.75	1.18	1.77
21	19:49:21	32.18	3.00	51.67	1.16	1.74
23	20:04:21	16.97	1.98	53.00	0.65	0.98
25	22:41:21	82.78	5.98	52.50	3.19	4.79
26	22:51:21	25.84	2.00	51.00	0.95	1.42

Table 1: List of events larger than 10 litres

3.2 Small events

The following is a summary of events *smaller* than 10 litres.

Number of events	19
Total volume of water consumed	36.9 litres
Energy consumed	1.3 kWh
Estimated cost	R1.89

	Start time	Volume (l)	Duration	Avg temperature	Est energy (kWh)	Est cost (R)
1	07:05:21	0.20	1.00	45.00	0.01	0.01
2	07:59:20	0.40	1.00	45.00	0.01	0.02
3	09:00:21	0.22	1.00	43.00	0.01	0.01
5	10:52:21	3.12	2.98	48.67	0.10	0.15
6	11:25:21	0.99	1.98	51.50	0.03	0.05
8	11:47:20	0.13	1.00	52.00	0.00	0.01
9	11:49:21	1.01	1.98	53.00	0.04	0.05
10	11:55:20	0.67	1.00	53.00	0.02	0.03
11	11:59:21	6.75	16.98	55.00	0.24	0.36
12	13:09:21	2.22	1.00	56.00	0.07	0.10
13	13:25:21	0.83	1.00	56.00	0.03	0.04
14	13:59:21	7.08	3.98	57.25	0.23	0.34
15	14:05:21	0.25	0.98	57.00	0.01	0.01
16	14:19:20	2.23	3.02	56.33	0.07	0.11
17	14:23:21	5.26	8.00	57.00	0.20	0.30
18	14:32:21	1.62	1.00	57.00	0.06	0.09
19	15:06:21	3.64	1.98	55.00	0.12	0.18
22	19:58:21	0.15	0.98	51.00	0.01	0.01
24	21:04:20	0.14	1.00	48.00	0.00	0.01

Table 2: List of events smaller than 10 litres

4 Graphs

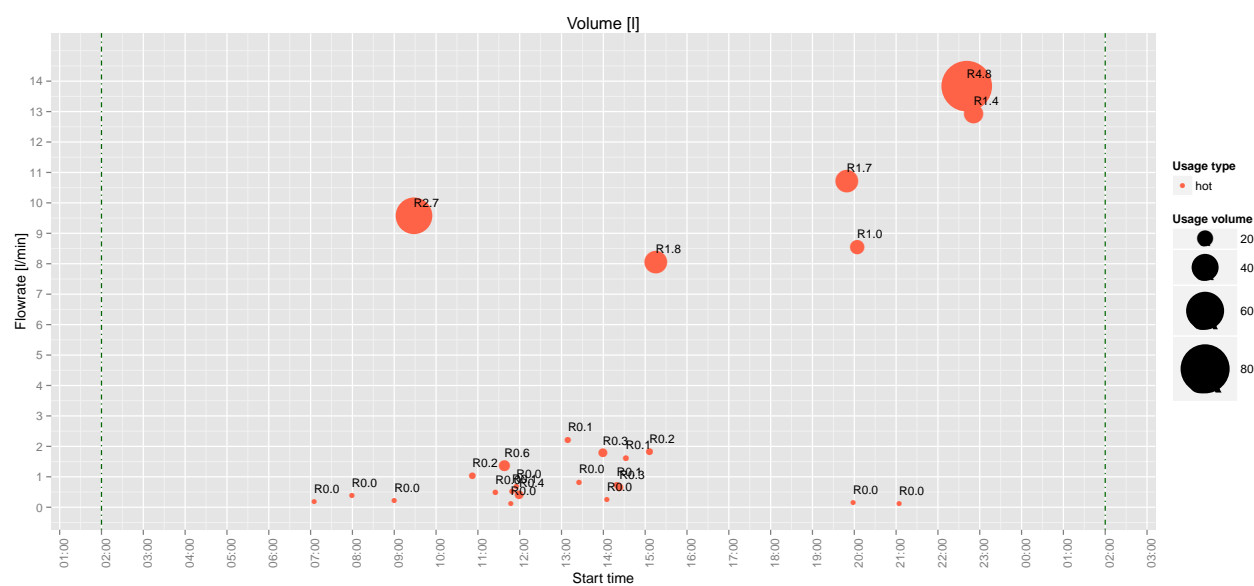


Figure 1: Usage events and volumes

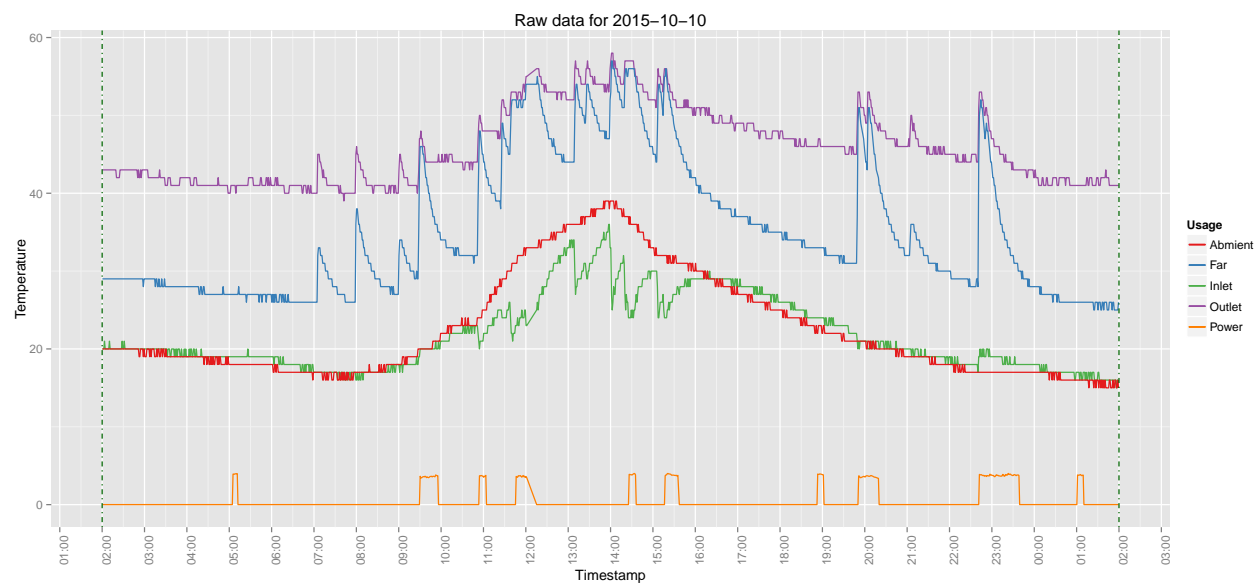


Figure 2: Raw data