

Geyser daily report for Monday, October 12

1 Overview

Total hot water used	215.0 litres
Number of events larger than 10 litres	8
Number of events smaller than 10 litres	18
Total number of events	26
Maximum hot water temperature (geyser setpoint)	49.0 °C
Average hot water temperature	43.0 °C
Coldest geyser outlet temperature	38.0 °C
Average ambient temperature at geyser	20.0 °C
Electrical energy consumed	11.3 kWh
Effective energy consumed	6.7 kWh
Standing losses	4.6 kWh
Percentage energy wasted	40.7 %
Estimated cost of electricity	R 16.95
Estimated cost of standing losses	R 6.90

2 Other participant comparison

Your Geyser ID is 106

ID	104.00	106.00	107.00	109.00	112.00
Total Volume (l)	188.90	215.00	377.30	82.50	132.10
Electrical energy (kWh)	9.80	11.30	15.20	7.40	9.40
Effective energy (kWh)	7.60	6.70	13.70	4.30	6.60
Est cost (R)	14.70	16.95	22.80	11.10	14.10
Energy loss (kWh)	2.20	4.60	1.50	3.10	2.80
Loss (%)	22.40	40.70	9.90	41.90	29.80
Out Min (C)	44.00	38.00	38.00	59.00	39.00
Out Mean (C)	49.00	43.00	48.00	64.00	44.00
Out Max (C)	60.00	49.00	59.00	70.00	62.00
In Min (C)	15.00	14.00	13.00	18.00	12.00
In Mean (C)	21.00	20.00	24.00	24.00	15.00
In Max (C)	31.00	29.00	41.00	32.00	21.00
Amb Min (C)	14.00	13.00	13.00	18.00	12.00
Amb Mean (C)	20.00	20.00	25.00	25.00	17.00
Amb Max (C)	28.00	31.00	43.00	34.00	22.00
Total #events	21.00	26.00	37.00	10.00	2.00
Large #events	4.00	8.00	9.00	2.00	2.00
Small #events	17.00	18.00	28.00	8.00	0.00
Packet loss (%)	0.07	0.00	1.81	11.39	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	8
Total volume of water consumed	167.1 litres
Total energy consumed	5.2 kWh
Total estimated cost	R7.83

	Start time	Volume (l)	Duration	Avg temperature	Est energy (kWh)	Est cost (R)
1	05:49:39	17.87	6.98	44.71	0.58	0.86
6	06:33:39	26.18	6.98	45.00	0.85	1.27
8	09:30:38	20.00	2.02	46.00	0.63	0.94
9	09:59:39	12.70	3.00	46.67	0.40	0.60
11	10:28:39	13.81	4.00	48.00	0.45	0.68
13	10:59:39	22.04	3.00	49.00	0.73	1.10
23	13:24:39	12.26	3.00	48.67	0.39	0.58
26	18:55:42	42.29	3.95	43.40	1.19	1.78

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	18
Total volume of water consumed	47.7 litres
Energy consumed	1.5 kWh
Estimated cost	R2.21

	Start time	Volume (l)	Duration	Avg temperature	Est energy (kWh)	Est cost (R)
2	06:00:39	7.70	5.00	44.40	0.24	0.36
3	06:08:39	0.20	1.00	44.00	0.01	0.01
4	06:15:39	4.51	2.00	44.50	0.14	0.21
5	06:19:39	0.42	2.00	44.00	0.01	0.02
7	06:42:39	0.94	2.00	44.00	0.03	0.04
10	10:07:39	6.29	2.98	46.67	0.20	0.30
12	10:49:39	6.14	2.00	49.00	0.21	0.31
14	11:03:38	0.87	2.02	48.50	0.03	0.04
15	11:09:38	1.08	1.00	49.00	0.04	0.05
16	11:56:39	4.71	2.00	47.50	0.13	0.19
17	12:01:39	4.06	1.00	49.00	0.13	0.20
18	12:16:38	1.61	1.02	48.00	0.05	0.08
19	12:19:39	0.89	1.00	49.00	0.03	0.04
20	12:45:39	4.31	2.00	48.50	0.13	0.20
21	13:04:39	1.78	1.98	48.00	0.05	0.08
22	13:16:39	0.39	1.00	49.00	0.01	0.02
24	14:23:39	0.54	1.00	48.00	0.01	0.02
25	17:03:39	1.23	0.98	45.00	0.03	0.05

Table 2: List of events smaller than 10 litres

4 Graphs

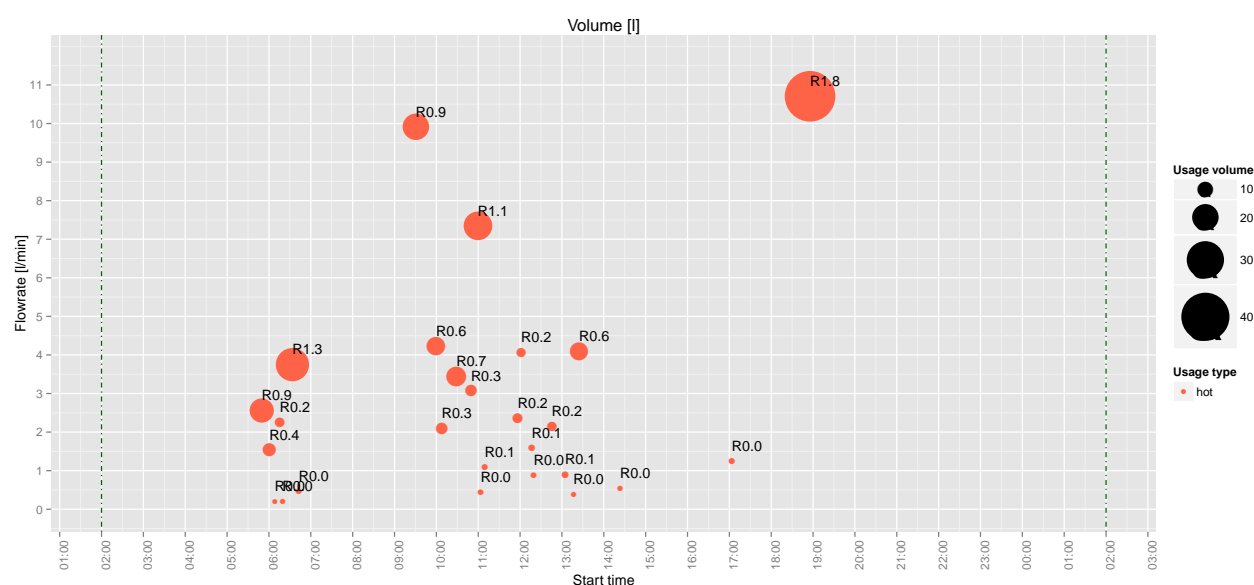


Figure 1: Usage events and volumes

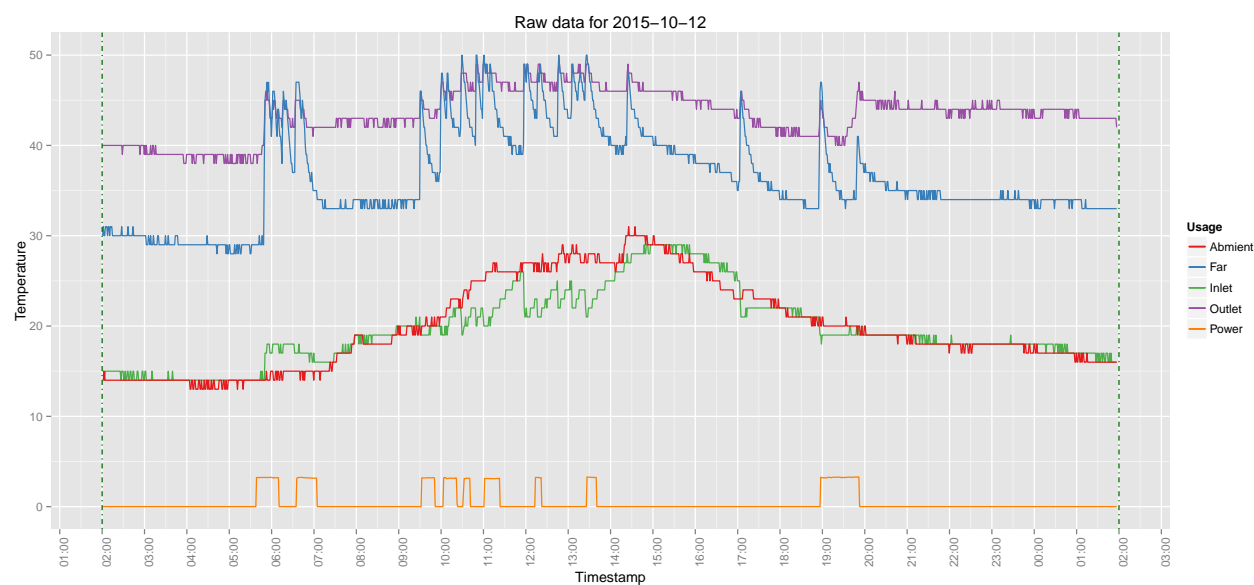


Figure 2: Raw data