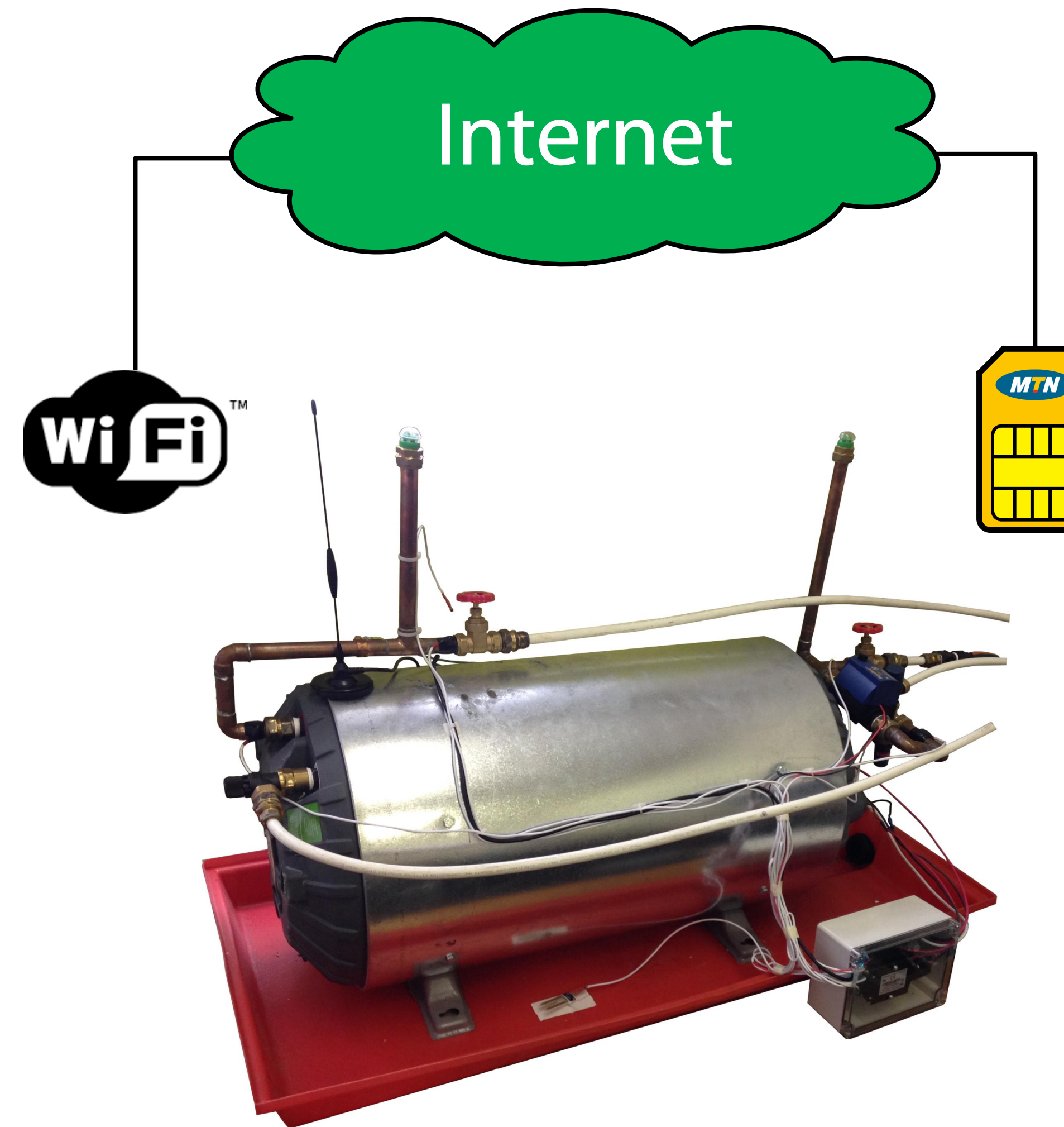
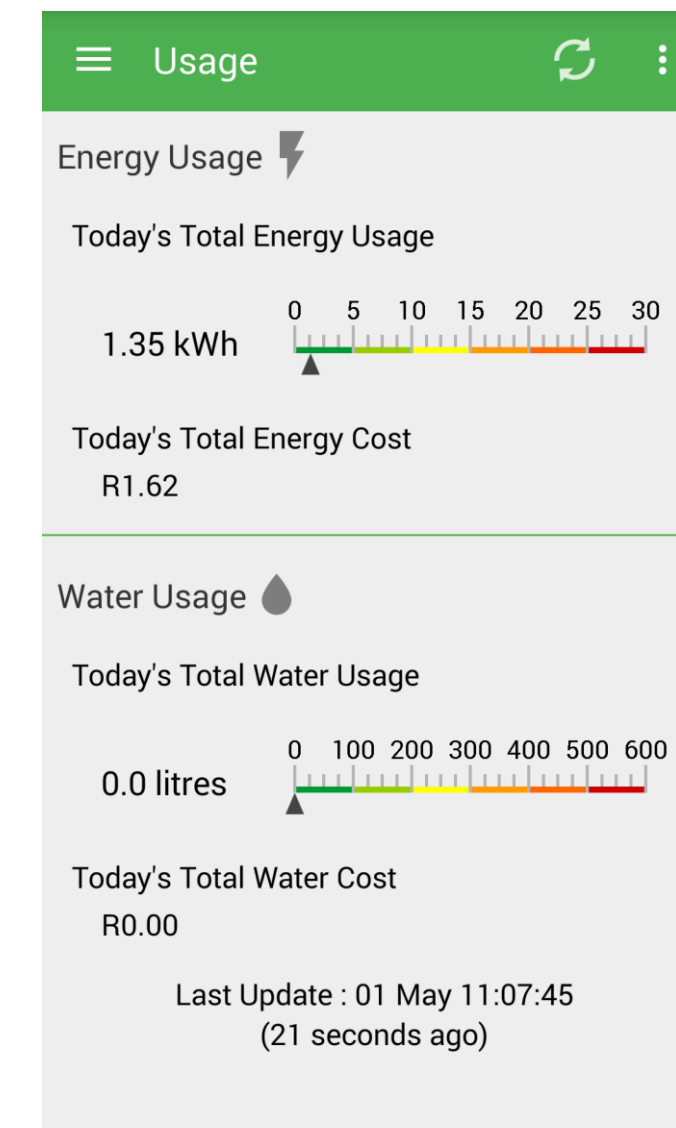


Intelligent Geyser System



Real time display of energy and water usage

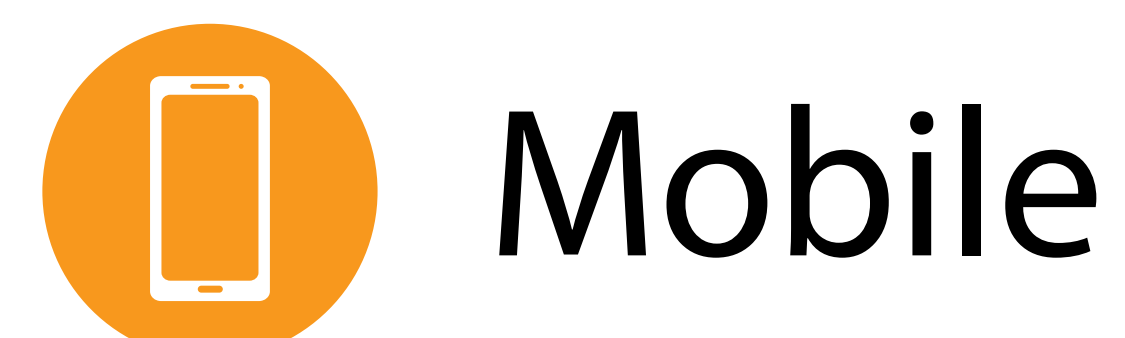
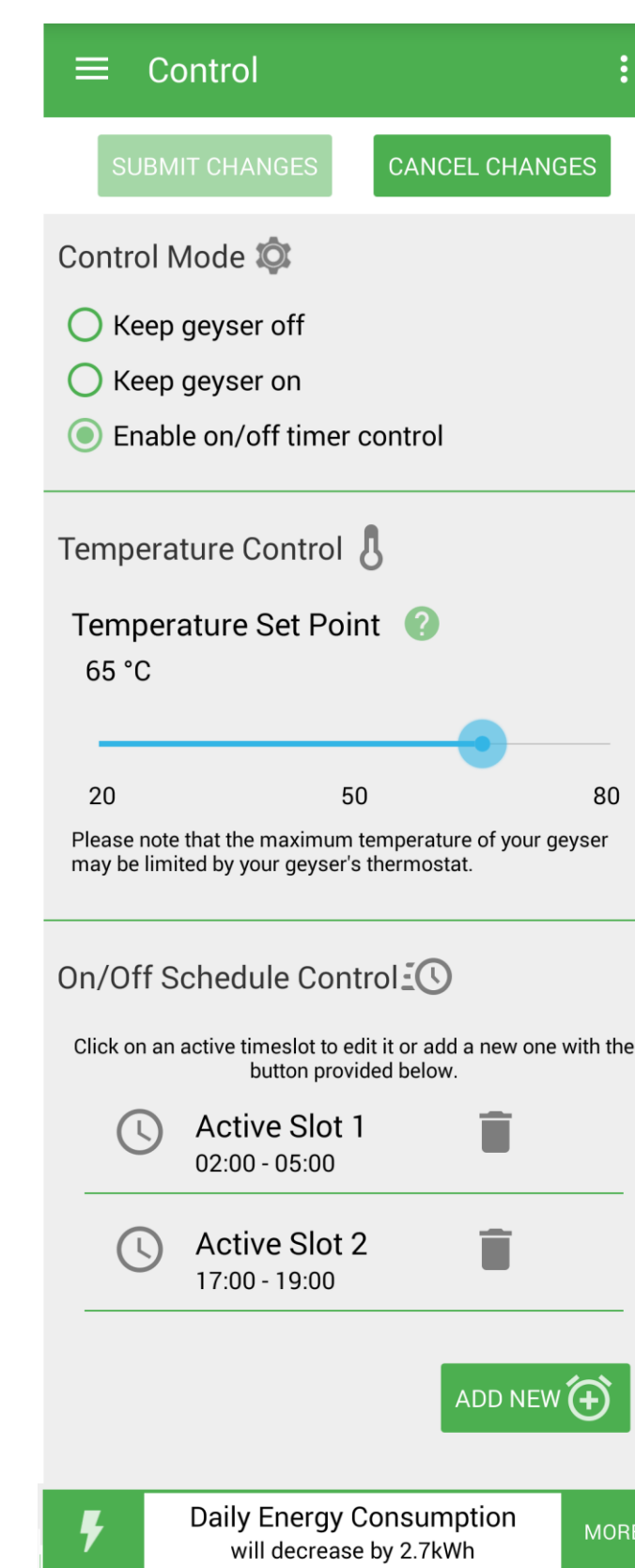
Daily and weekly historical consumption data



Set the water to a comfortable temperature

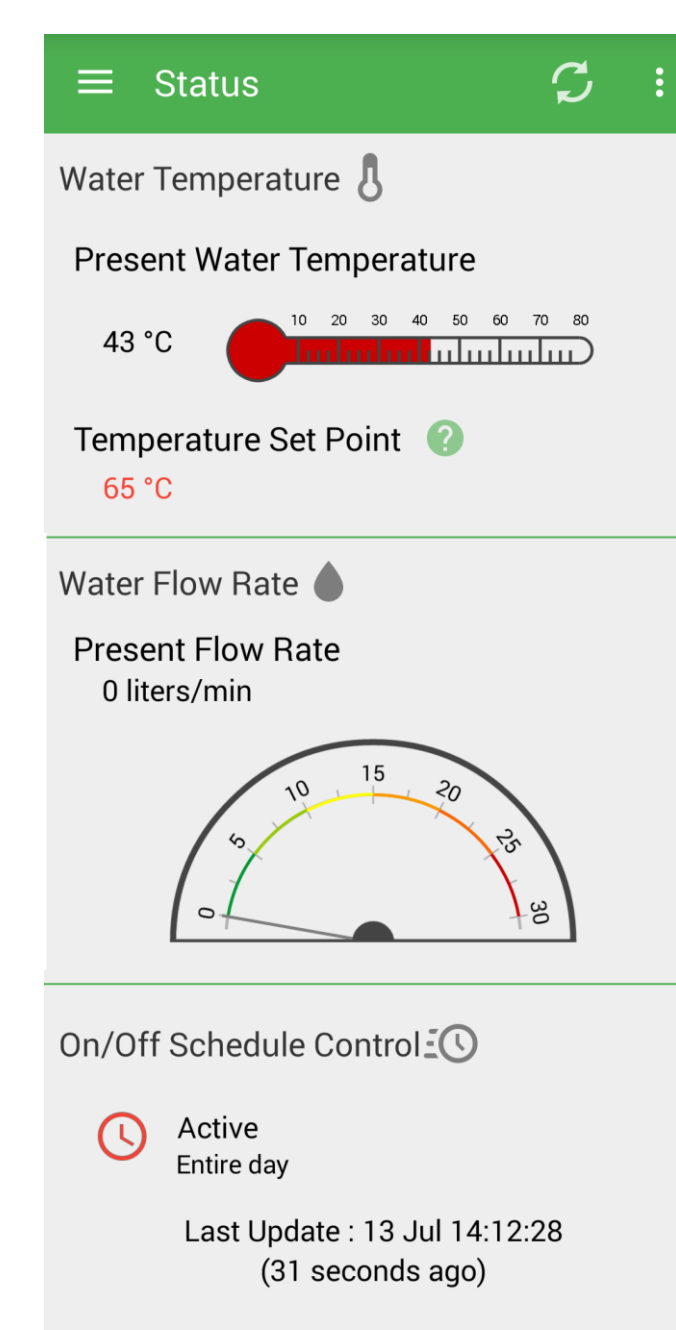
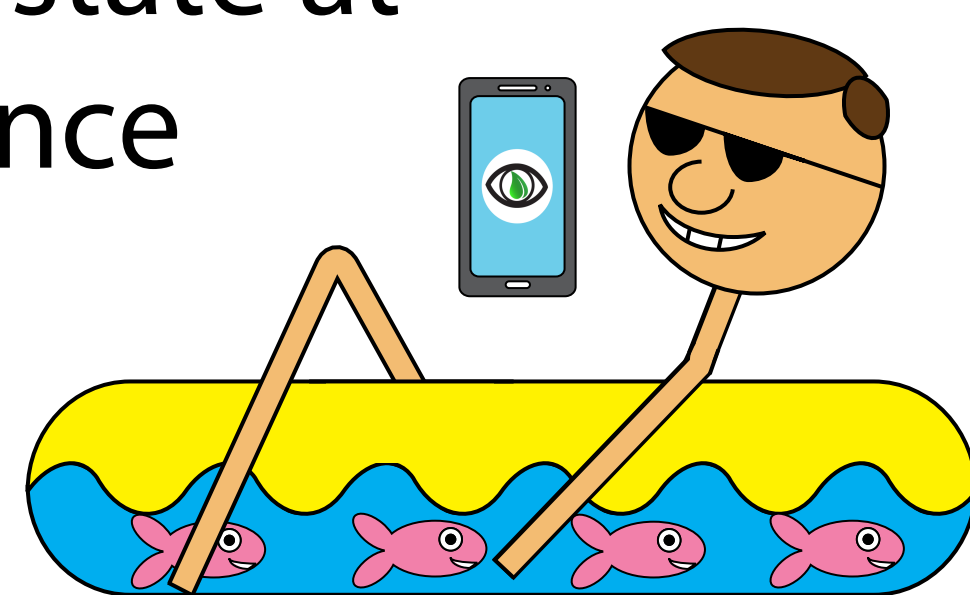
Save energy by implementing an on/off schedule

Instantaneous feedback on impact of control decisions



Geyser Sense App 

Modify geyser state at your convenience

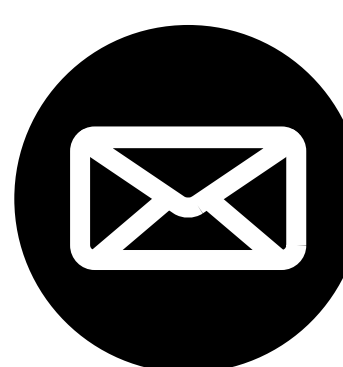


Four temperature measurements

Hot and cold water flow

Power measurement

Burst detection with failover lockdown



Contact Details

Email: mjbooyesen@sun.ac.za

Web: <http://mtn.sun.ac.za/intelligent-geyser-system/>

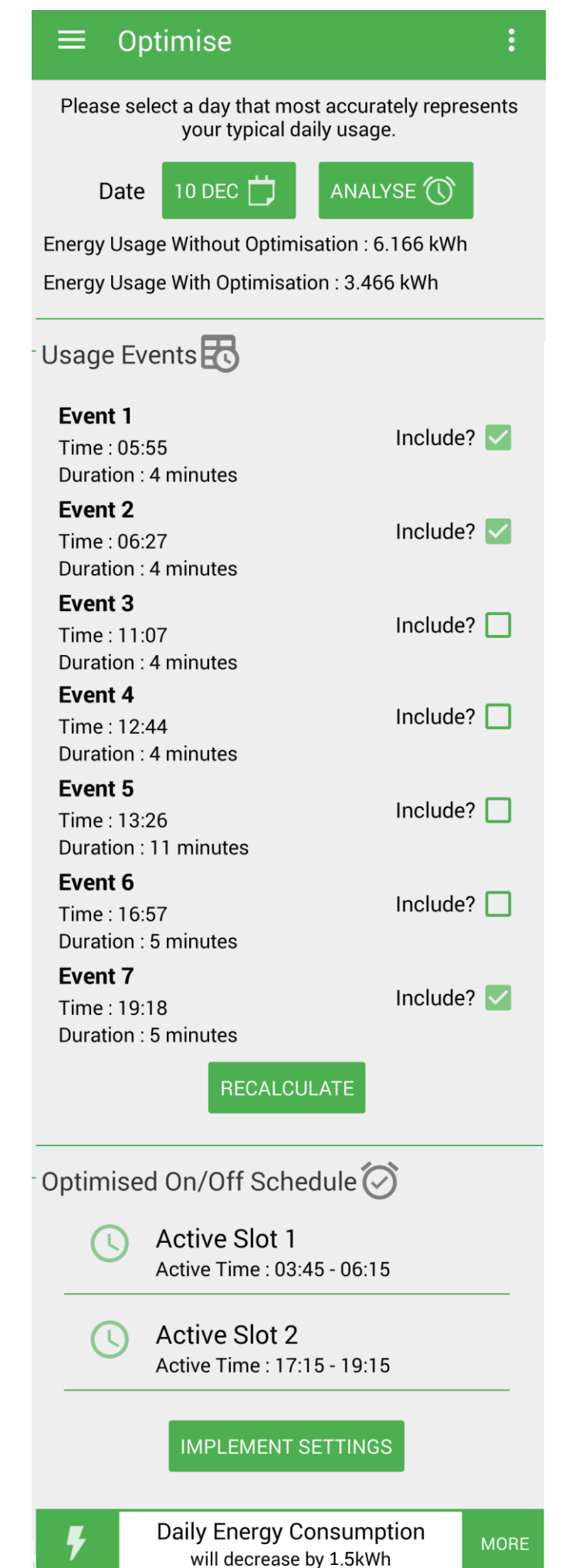
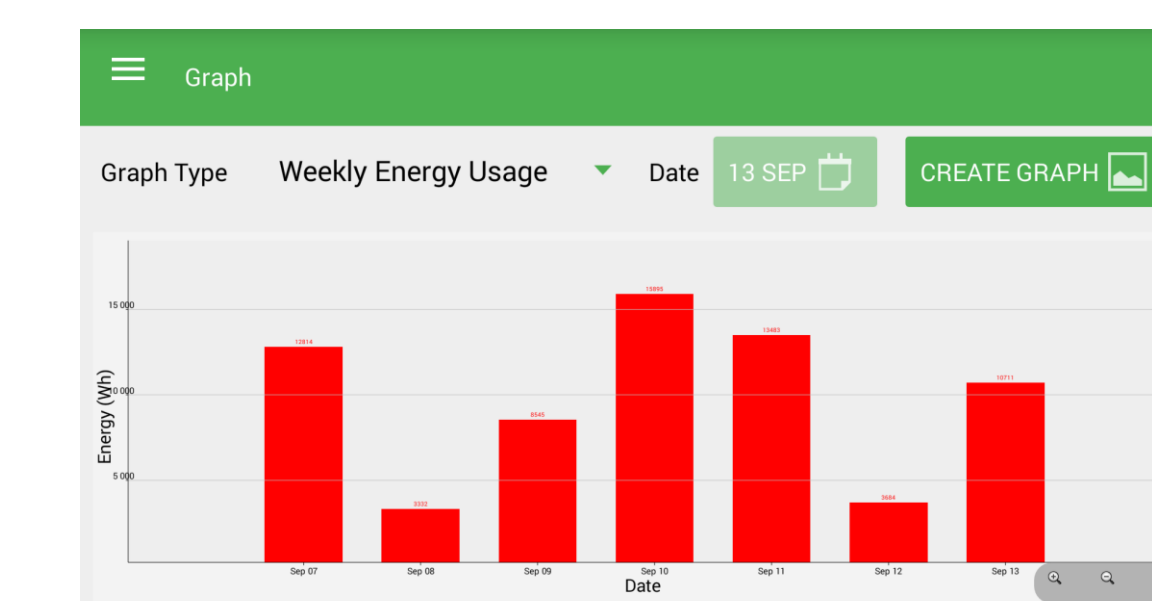


Intelligence

Cost analysis of individual events

Automatic leakage detection and valve shutoff

Determine usage profile through event detection



Daily Geyser Usage Report

Start time	Duration	Litres	kWh	Water Cost	Energy Cost	Total Cost
06:53	3 min	16	0.57	R 0.48	R 0.74	R 1.22
07:09	5 min	25.5	0.79	R 0.77	R 1.03	R 1.79
07:51	10 min	56.5	1.61	R 1.70	R 2.09	R 3.79
13:28	10 min	12	0.30	R 0.36	R 0.39	R 0.75
19:50	4 min	15.5	0.34	R 0.47	R 0.44	R 0.91
TOTAL		125.5	3.61	R 3.77	R 4.69	R 8.46

