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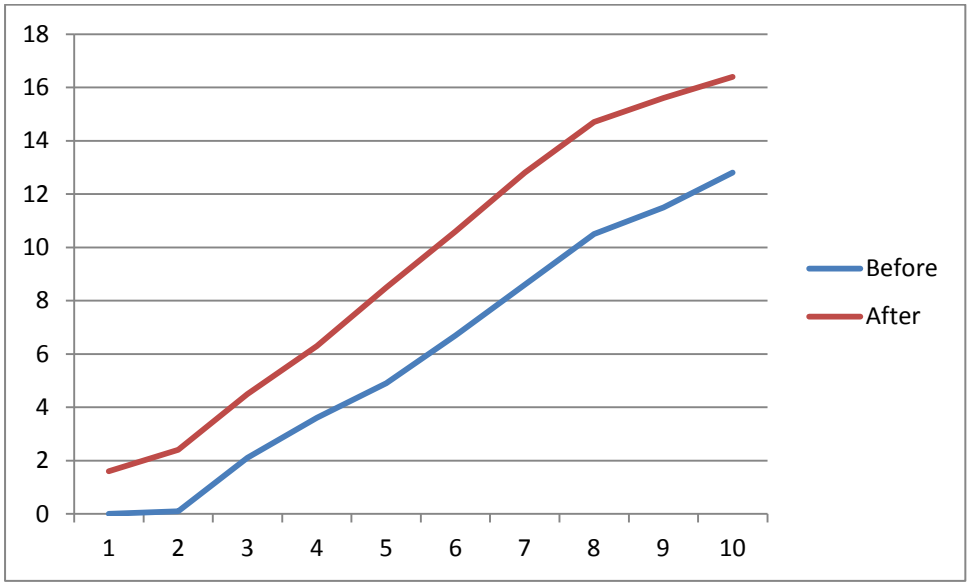
Sustainability

Jordan Bryan 8/11/2016

In this report we will try and reduce power consumption on the TAFE campus. The people that monitored the power consumption in my group are Zac Dupuy, Jon Sofoulis and Jordan Bryan. We are going to monitor see any changes to power we are going to turn off monitors when not using them.

When the changes were put into place what I think I will see happen is the power consumption will go down.

The entire college would save heaps on power and money if they turned off monitors every time they are not using them.



Rubbish Recycling Area – I think you could use some recyclable parts to make sculptures and stuff around campus to show someones natural talent and also reuse old, forgotten and thrown away stuff.

Rainwater Tank – Multiply how many tanks there are at the campus.

Bike Racks – Increase more bike racks and also have locks there to increase the amount of people riding bikes because of the added security.

Sensor Lights – Get solar powered sensor lights so they warm up in the day and at night have enough power to get them going.

Grass Tree – Expand the amount and replace more water thirsty ones we have on the campus to save time, energy and water.

Computer Bank B - D23

BEFORE CHANGES

Day	Date	Time	Volts	Amp	Watts	kwh	Power Factor
Tuesday	30/08/2016	9:00	247	1.12	187	0.1	64
		15:00	244	1.11	191.6	1.1	64
Wednesday	31/08/2016	9:00	250	1.1	192.7	2.1	64
		15:00	247	1.2	186	2.8	67
Thursday	1/09/2016	9:00	245	1.3	179.5	3.6	66
		15:00	251	0.44	69.9	4.1	64
Friday	2/09/2016	9:00	250	1.5	187	4.9	66
		15:00	247	1.1	191.6	5.6	69
Monday	5/09/2016	9:00	248	1.07	175.2	6.69	66
		15:00	248	1.34	244	7.6	69
Tuesday	6/09/2016	9:00	248	1.13	186	8.6	68
		15:00	248	1.16	179.5	9.9	67
Wednesday	7/09/2016	9:00	248	1.15	190	10.5	66
		15:00	247	1.12	69.9	10.9	67
Thursday	8/09/2016	9:00	245	1.11	186	11.5	66
		15:00	251	1.1	179.5	12.2	64
Friday	9/09/2016	9:00	250	1.2	190	12.8	66
		15:00	247	1.3	69.9	13.5	69
		AVERAGE	247.83	1.14	169.74	7.14	66.22

Computer Bank B - D23

AFTER CHANGES

Day	Date	Time	Volts	Amp	Watts	kwh	Power Factor
Monday	17/10/2016	9:00	247	0.77	127.7	1.6	64
Tuesday	18/10/2016	9:00	248	0.84	118.7	2.4	67
Wednesday	19/10/2016	9:00	248	0.57	188.5	4.5	66
Thursday	20/10/2016	9:00	247	0.65	122.7	6.3	64
Friday	21/10/2016	9:00	245	0.73	147.7	8.5	66
Monday	24/10/2016	9:00	251	0.76	118.7	10.6	69
Tuesday	25/10/2016	9:00	250	0.86	127.7	12.8	66
Wednesday	26/10/2016	9:00	248	0.92	180.4	14.7	69
Thursday	27/10/2016	9:00	247	0.89	118.7	15.6	68
Friday	28/10/2016	9:00	248	0.78	133.6	16.4	67
		AVERAGE	247.90	0.78	138.44	9.34	66.60

Conclusion: I our test failed because we got high Kwh than previously meaning we must of got inaccurate data.

https://www.albany.wa.gov.au/residents/community/sustainable-communities/

https://www.energyaustralia.com.au/residential/energy-saving-safety/thehub/my-energy/energy-saving-tips