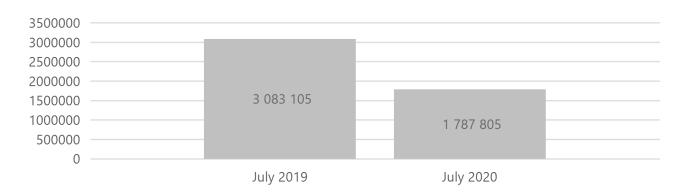
## **UCT Benchmark Energy Report**

Year on year Total kWh comparison for UCT



### **Total Monthly Electricity Cost**

The figure below summarize monthly energy costs.

OFFICE

**LECTURE VENUE** 

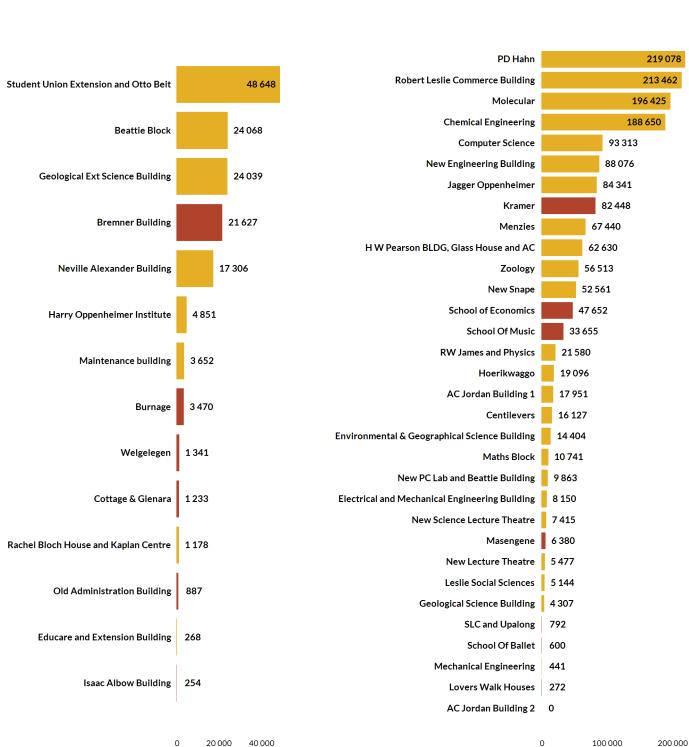
		PD Hahn	R 407 165	
Student Union Extension and Otto Beit	R 103 414	Robert Leslie Commerce Building	R 392 594	
Stadent onion Extension and otto Bert		Molecular	R 377 515	
Geological Ext Science Building	R 52 066	Chemical Engineering	R 362 486	
	K 52 000	New Engineering Building	R 171 504	
Beattie Block	R 46 000	Kramer	R 170 194	
	R 40 000	Jagger Oppenheimer	R 159 174	
		Menzies	R 134 489	
Bremner Building	R 40 094	Zoology	R 123 395	
		H W Pearson BLDG, Glass House and AC	R 120 931	
Neville Alexander Building	R 32 723	New Snape	R 116 267	
	-	School of Economics	R 88 100	
Harry Oppenheimer Institute	R 9 497	School Of Music	R 83 677	
	-	RW James and Physics	R 40 941	
Burnage	R 7 101	Hoerikwaggo	R 36 394	
		AC Jordan Building 1	R 32 697	
Maintenance building	R 7 021	Centilevers	R 29 961	
	K7 021	Environmental & Geographical Science Building	R 27 484	
Cottage & Glenara	D 0 /05	Computer Science	R 25 760	
	R 3 695	Maths Block	R 19 656	
	I	New PC Lab and Beattie Building	R 18 544	
Rachel Bloch House and Kaplan Centre	R 3 026	New Science Lecture Theatre	R 16 368	
		5 5 5	R 15 934	
Welgelegen	R 2 667	Masengene	-	
			R 10 891	
Old Administration Building	R 1 955		R 10 345	
-	1	Geological Science Building	-	
Isaac Albow Building	R 867	SLC and Upalong	R 1 549	
issue, asett Bullang			R 1 388	
Educare and Extension Building	R 490	Mechanical Engineering	R 866	
	N 770	Lovers Walk Houses	R 821	
		AC Jordan Building 2	RO	



### Monthly Energy Usage (kWh)

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The figures in the graphs above represent the total energy consumption measured in kWh's over the reporting period. The less kWh's consumed within a particular month directly equates to alower electricity bill.



LECTURE VENUE



### Monthly Energy Usage per Square Meter(kWh/m2)

The monthly energy usage per square meter is a benchmarking metric to determine energy usage intensities. The benchmarking metric compares energy intensity figures of similar operations.

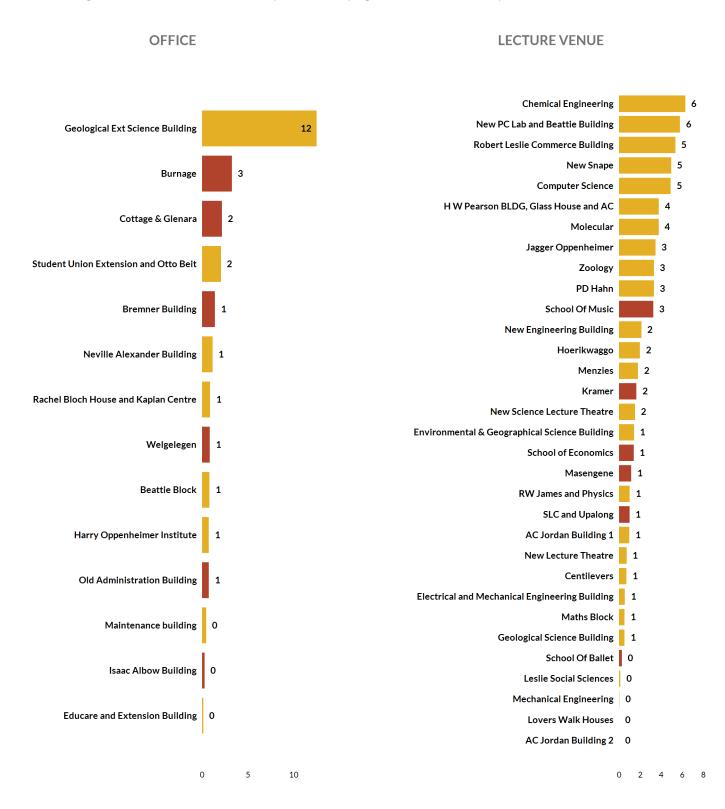


Region Key: Lower Campus



### Monthly Energy Cost per Square Meter(R/m2)

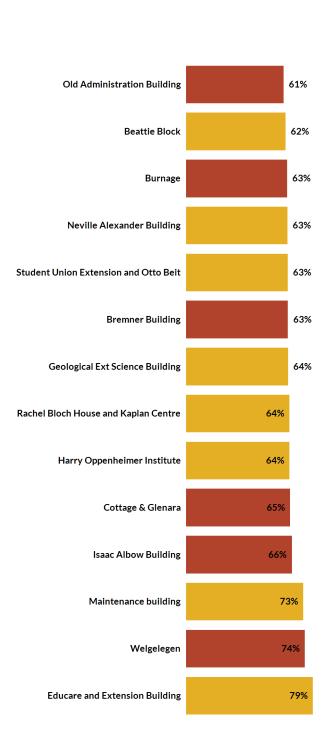
The monthly cost (R) per square meter (m2) is a benchmarking metric to determine energy cost intensities. The benchmarking metric is useful in order to compare intensity figures to other similar operations.





### Monthly "Night" Time Energy Usage (kWh)

The figures below compares your energy usage during open hours to energy usage during closed hours. The aim is to minimise your closed time energy usage (lowest % possible). Open hours used : (Weekday: 08:00 - 17:30, Saturday : 08:00 - 13:00, Sunday: 08:00 - 13:00)



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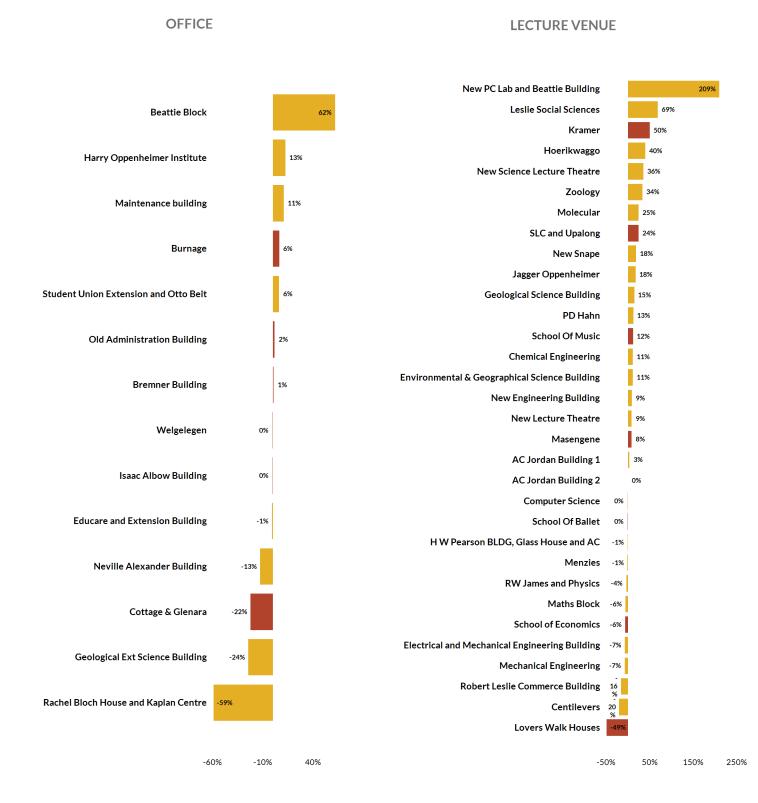
#### LECTURE VENUE

School Of Ballet	76%		
Lovers Walk Houses	71%		
Centilevers		67%	6
New Lecture Theatre		67%	6
School of Economics		66%	6
Hoerikwaggo		65%	
Maths Block		64%	
RW James and Physics			64%
New PC Lab and Beattie Building			64%
Mechanical Engineering			64%
Environmental & Geographical Science Building			64%
Masengene			64%
SLC and Upalong			63%
Robert Leslie Commerce Building			63%
Molecular			63%
PD Hahn			63%
Jagger Oppenheimer			63%
Leslie Social Sciences			62%
Zoology			62%
H W Pearson BLDG, Glass House and AC			61%
Electrical and Mechanical Engineering Building			60%
New Engineering Building			60%
Kramer			60%
Chemical Engineering			59%
Menzies			59%
Geological Science Building		5	57%
New Snape		54	4%
New Science Lecture Theatre		52	%
School Of Music		42%	
Computer Science	0%		
Old Snape	0%		
AC Jordan Building 2	0%		
_			



# Change in Month on Month Energy Usage (Change in kWh as a %)

The figure below compares energy used last month to this month, shown as a percentage. A positive number shows an increase in energy usage and a negative number shows a decrease in energy usage form last month to this month.

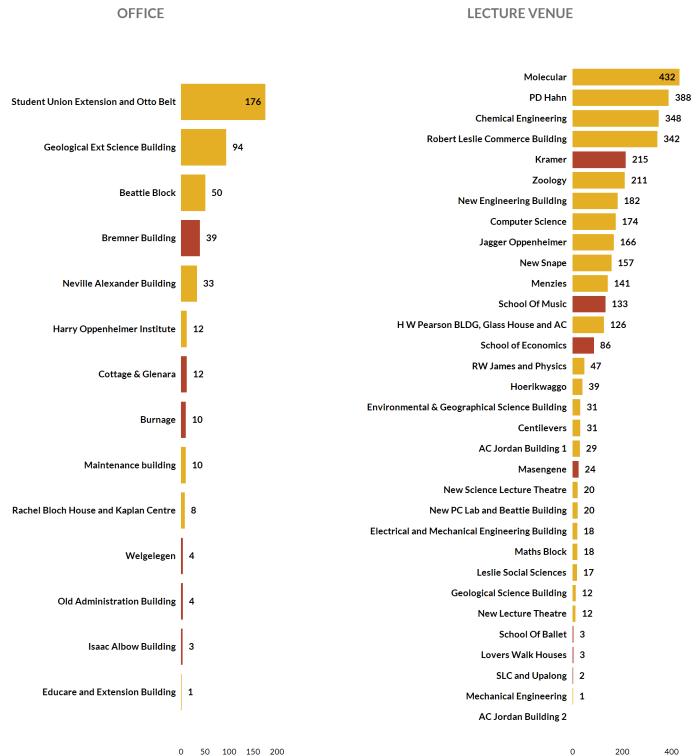


**TERRA FIRMA** SOFTWARE

Region Key: Lower Campus

### Monthly Maximum Demand (kVA)

Maximum demand is the single highest peak power requirement over a billing period. Maximum demand is an important value to watch as maximum demand charges can amount up to 50% of the total electricity bill.



200 400

50 100 150 200





## Change in Month on Month Maximum Demand (Change in kVA as a %)

The figure below compares maximum demand value from last month to this month, shown as a percentage. A positive number shows an increase in maximum demand and a negative number shows a decrease in maximum demand.

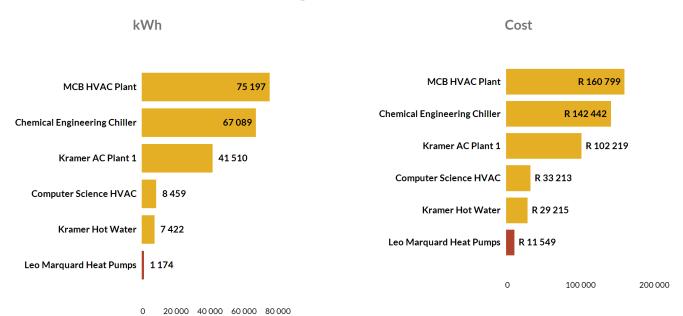
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#### LECTURE VENUE

			New Science Lecture Theatre	I	42%
Isaac Albow Building	161%	Zoology		38%	
			Environmental & Geographical Science Building		35%
Rachel Bloch House and Kaplan Centre		77%	New Snape		30%
			Geological Science Building		12%
Student Union Extension and Otto Beit		63%	Jagger Oppenheimer		10%
			School Of Music		9%
		52%	H W Pearson BLDG, Glass House and AC		8%
Harry Oppenheimer Institute			PD Hahn		8%
Beattie Block		-	Chemical Engineering		7%
	2	29%	New Engineering Building		7%
	- 61		New PC Lab and Beattie Building		7%
Cottage & Glenara	18	8%	Kramer		6%
	- 5-		Molecular		4%
Old Administration Building	12	%	RW James and Physics		3%
			SLC and Upalong		2%
Bremner Building	4%	4%	New Lecture Theatre		2%
			Leslie Social Sciences		1%
Burnage	3%		Centilevers		0%
	3%		AC Jordan Building 1		0%
			AC Jordan Building 2		0%
Maintenance building	1%		School Of Ballet	0%	
			Electrical and Mechanical Engineering Building	-2%	
Educare and Extension Building	0%		Lovers Walk Houses	-3%	
Geological Ext Science Building			Computer Science	-3%	
	-2%		Masengene	-5%	
			Robert Leslie Commerce Building	-10%	
Welgelegen	-4%		Maths Block	-16%	
			Menzies	-17%	
Neville Alexander Building	- 2 1		Hoerikwaggo	-28%	
	1 %		School of Economics	-29%	
			Mechanical Engineering	-75%	



### **HAVAC and Water Heating**



### **Generator Monthly Energy Usage (kWh)**

