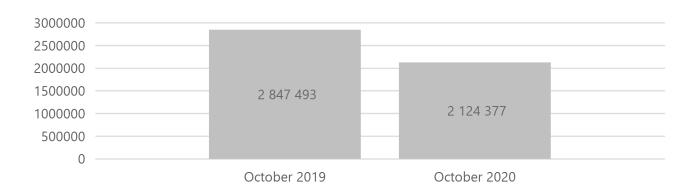
### **UCT Benchmark Energy Report**

Year on year Total kWh comparison for UCT



### **Total Monthly Electricity Cost**

The figure below summarize monthly energy costs.

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**LECTURE VENUE** 

		PD Hahn	R 284 590
Student Union Extension and Otto Beit	R 251 279	Chemical Engineering	R 243 805
		Molecular	R 239 958
Geological Ext Science Building	R 52 398	Robert Leslie Commerce Building	R 185 260
		New Engineering Building	R 160 733
Beattie Block	R 31 993	Jagger Oppenheimer	R 144 184
	R 31 993	Zoology	R 135 660
Neville Alexander Building	R 30 283	Menzies	R 130 617
		Kramer	R 127 471
Bremner Building	R 28 053	H W Pearson BLDG, Glass House and AC	R 87 827
		Leslie Social Sciences	R 86 221
		School Of Music	R 59 076
Maintenance building	R 5 620	New Snape	R 57 294
		School of Economics	R 54 027
Harry Oppenheimer Institute	R 5 022	RW James and Physics	R 34 173
		Centilevers	R 27 032
Cottage & Glenara	R 4 548	Computer Science	R 23 438
		Hoerikwaggo	R 23 245
Burnage	R 3 734	Electrical and Mechanical Engineering Building	R 20 345
		Environmental & Geographical Science Building	R 17 264
	<b>D</b> 4 000	Maths Block	R 15 414
Rachel Bloch House and Kaplan Centre	R 1 830	AC Jordan Building 1	R 14 711
Educare and Extension Building	R 1 786	New PC Lab and Beattie Building New Lecture Theatre	R 12 720
		New Lecture Theatre Masengene	
Welgelegen	R 1 599	New Science Lecture Theatre	-
		Geological Science Building	-
		SLC and Upalong	-
Isaac Albow Building	R 1 220	School Of Ballet	
		Mechanical Engineering	R1374
Old Administration Building	R 1 194		R 852
			R 002

AC Jordan Building 2 R 0

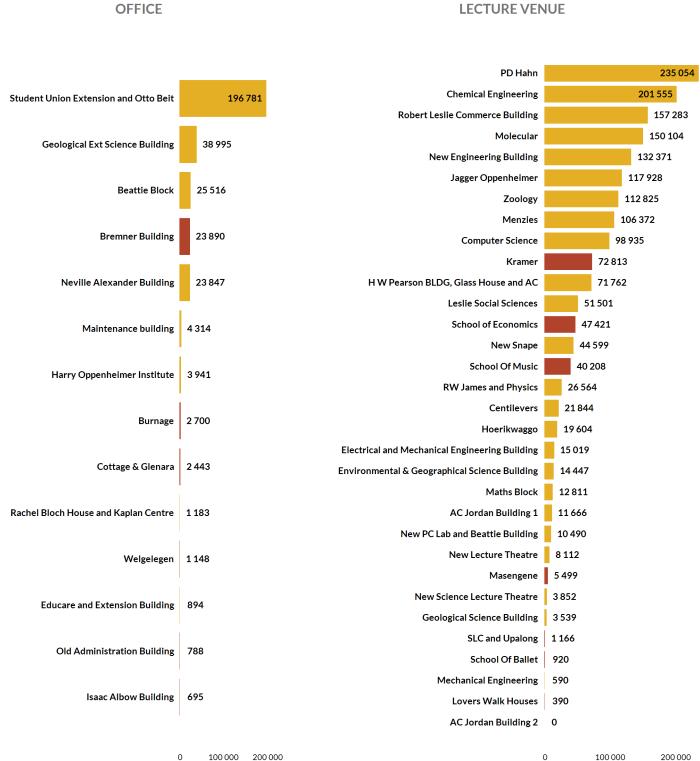


Lower Campus



### Monthly Energy Usage (kWh)

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.



100 000 200 000

Region Key: ower Campus



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

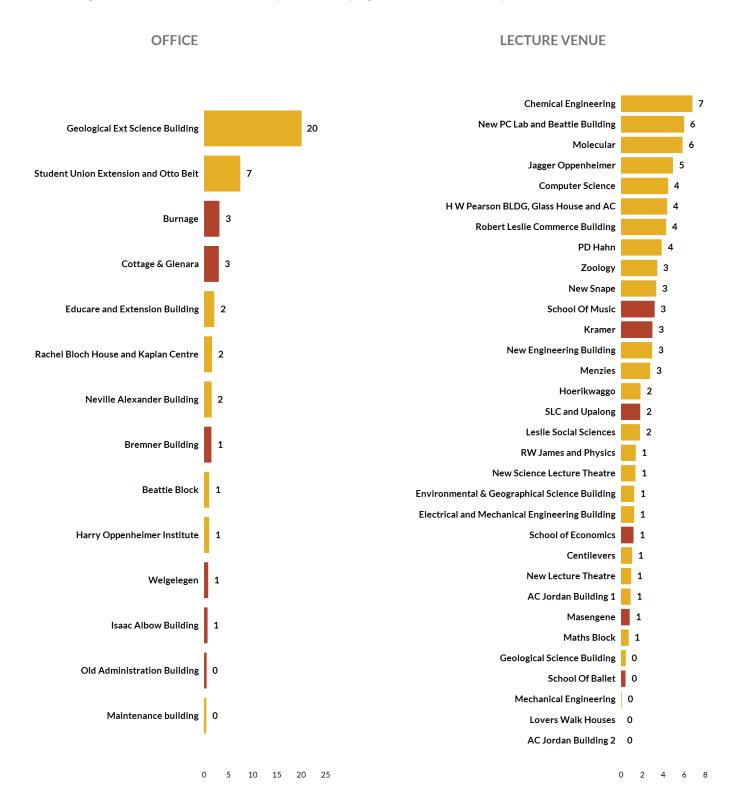
The monthly energy usage per square meter is a benchmarking metric to determine energy usage intensities. The benchmarking metric compares energy intensity figures of similar operations.





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

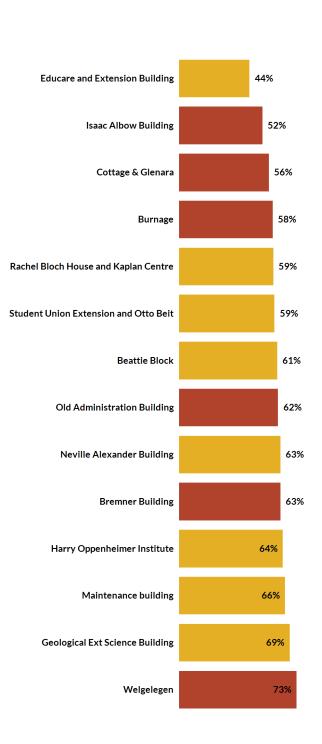
The monthly cost (R) per square meter (m2) is a benchmarking metric to determine energy cost intensities. The benchmarking metric is useful in order to compare intensity figures to other similar operations.





### 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

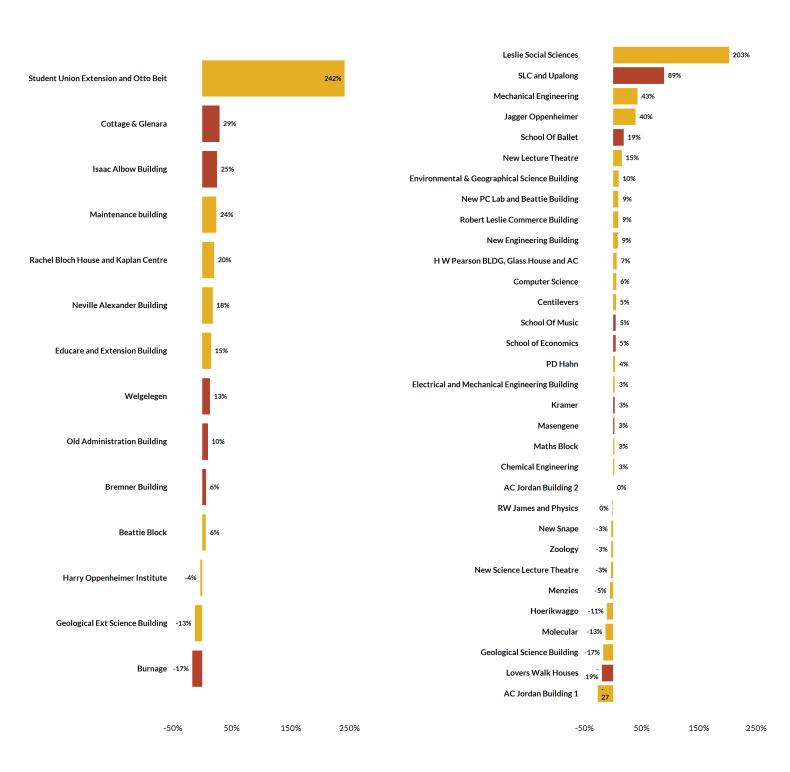
New Lecture Theatre	67%			
Hoerikwaggo	66%			
School of Economics	66%			
Masengene	64%			
School Of Ballet	63%			
Maths Block	63%			
Environmental & Geographical Science Building	63%			
Robert Leslie Commerce Building	62%			
Centilevers	62%			
Jagger Oppenheimer	62%			
PD Hahn	62%			
H W Pearson BLDG, Glass House and AC	61%			
New Snape	60%			
New PC Lab and Beattie Building	60%			
Menzies	60%			
Chemical Engineering	60%			
RW James and Physics	60%			
New Engineering Building	60%			
Molecular	59%			
Lovers Walk Houses	57%			
Leslie Social Sciences	57%			
Mechanical Engineering	55%			
Electrical and Mechanical Engineering Building	55%			
Geological Science Building	54%			
SLC and Upalong	52%			
Kramer	52%			
Zoology	47%			
School Of Music	43%			
New Science Lecture Theatre	40%			
Old Snape	0%			
Computer Science	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.

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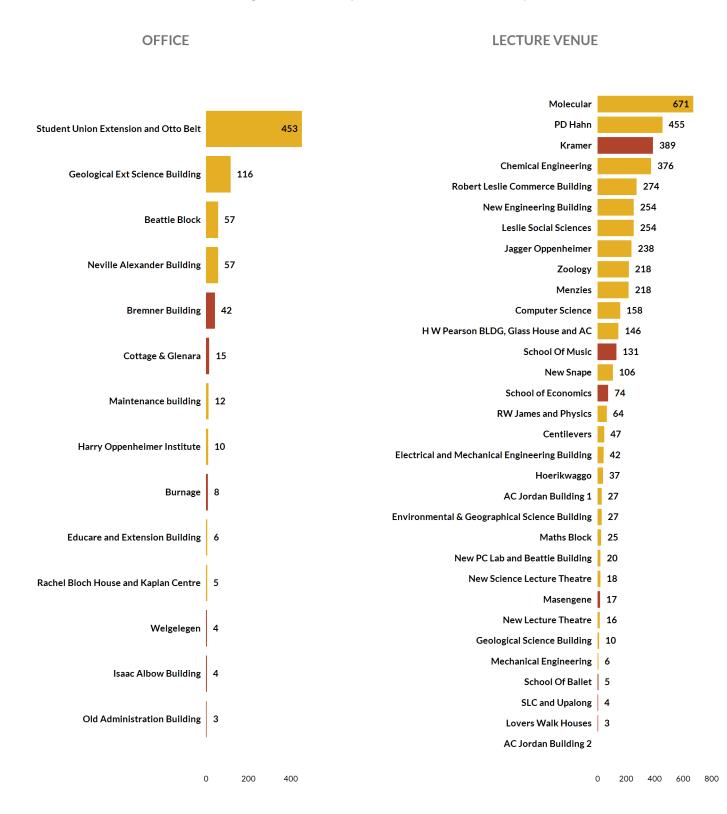
Region Key: Lower Campus Upper Campus



**LECTURE VENUE** 

### 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.



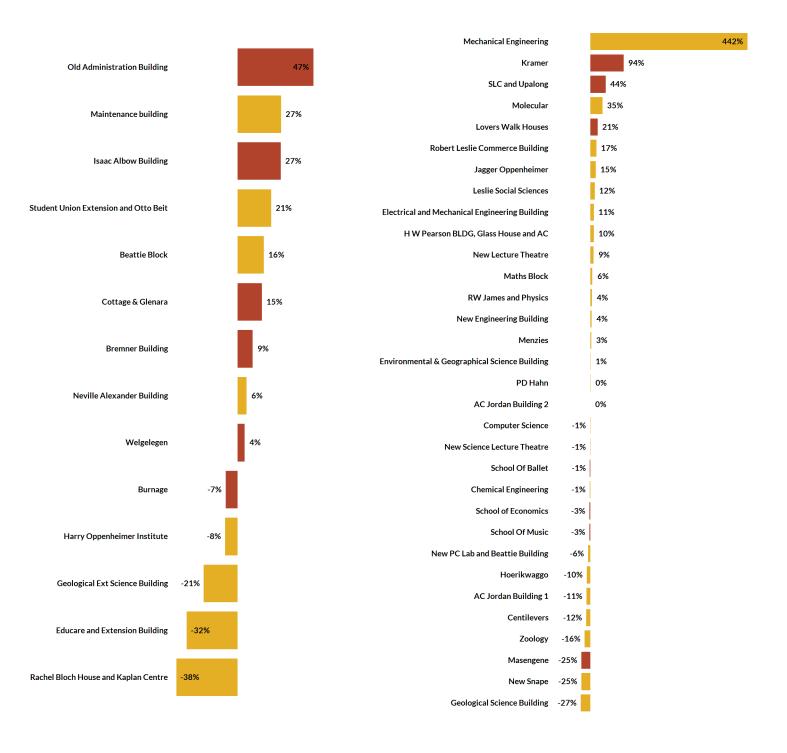


## Change in Month on Month Maximum Demand (Change in kVA as a %)

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.

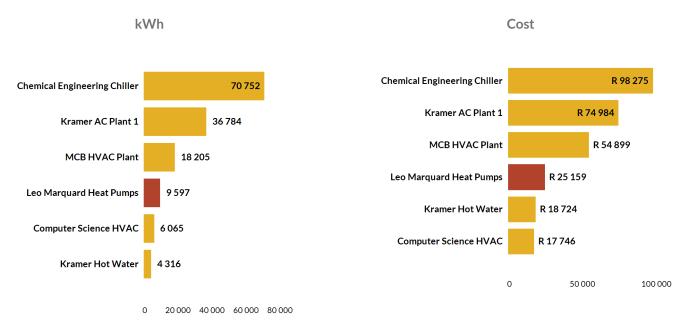
OFFICE

#### LECTURE VENUE





### **HVAC** and Water Heating



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

Upper Campus Maintenance Generator						26	88
Werner Beit Cryogenics Generator	72						
New Civil Engineering Generator	24						
Kramer Law School Generator	22						
Molecular Biology Building Generator	20						
New Chemical Engineering Generator	18						
ICTS Mowbray DC Generator	16						
Upper Campus Data Centre Generator	15						
Jameson Hall Generator	12						
Maintenance Building Generator	9						
Bremner Data Centre Generator	8						
School of Economics Generator	7						
Leslie Com Building Generator	7						
<b>RW James Building Generator</b>	3						
Engeo Building Generator	3						
Beattie Building Generator	3						
ICTS Mowbray Generator	2						
Werner Beit South Generator	2						
Hiddingh Generator	0						
<b>OBS Square Residence Generator</b>	0						
Mill Court Generator	0						
Falmouth Generator	0						
Animal House Generator	0						
Anatomy Building Generator	0						
Rochester House Generator	0						
Wolfson Pavillion Generator	0						
Chris Barnard BLD - Level 8 Roof Generator	0						
Chris Barnard BLD Level 7 RM3 Generator	0						
Chris Barnard BLD - Level 7 RM2 Generator	0						
Chris Barnard BLD Level 7 RM1 Generator	0						
Psychology PD Building Generator	0						
Sports Centre Generator	0						
PD Hahn Flammable Store Generator	0						
NLT Generator	0						
PD Hahn Building Generator	0						
	0	500	1 000	1 500	2 000	2 500	3 000

