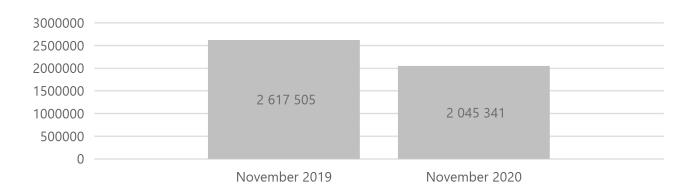
## **UCT Benchmark Energy Report**

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** 

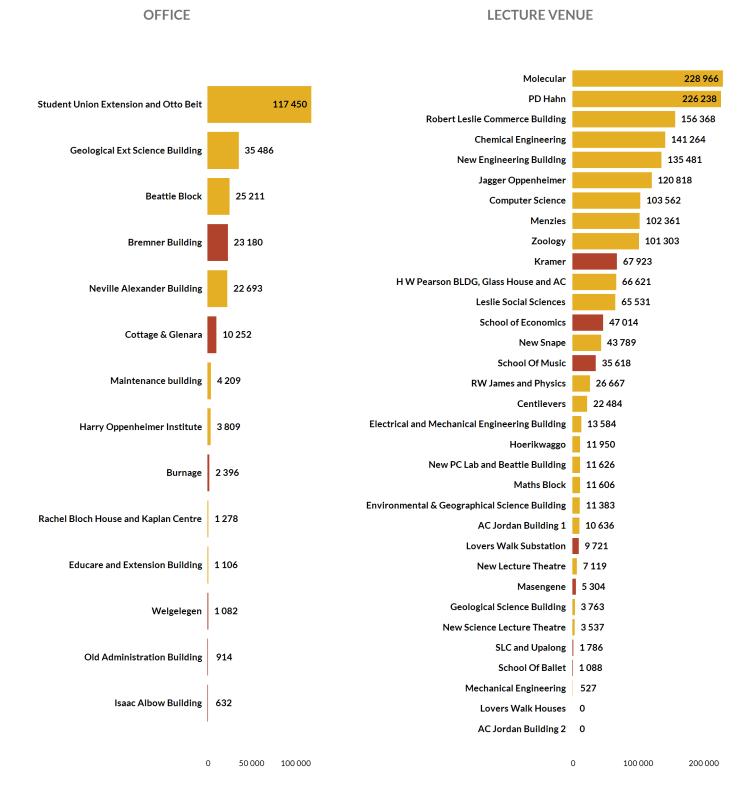
		Molecular	R 292 285		
Student Union Extension and Otto Beit	R 152 735	PD Hahn	R 277 668		
		Robert Leslie Commerce Building	R 188 171		
Geological Ext Science Building	R 53 241	Chemical Engineering	R 171 718		
	R 53 241	New Engineering Building	R 164 766		
Beattie Block	R 34 559	Jagger Oppenheimer	R 148 542		
		Zoology	R 133 421		
Neville Alexander Building	R 29 941	Menzies	R 123 038		
		Kramer	R 101 252		
	_	Leslie Social Sciences	R 94 498		
Bremner Building	R 27 488	H W Pearson BLDG, Glass House and AC	R 80 818		
		School of Economics	R 53 943		
Cottage & Glenara	R 15 370	New Snape	R 53 842		
		School Of Music	R 53 780		
Maintenance building	R 5 747	RW James and Physics	R 35 072		
		Centilevers	R 28 067		
Harry Oppenheimer Institute	R 4 945	Computer Science	R 27 782		
		Electrical and Mechanical Engineering Building	R 18 277		
		Maths Block	R 15 729		
Burnage	R 3 319	New PC Lab and Beattie Building	R 14 588		
Dumage		Hoerikwaggo	R 14 063		
Rachel Bloch House and Kaplan Centre	D 0 0 40	Environmental & Geographical Science Building	📕 R 13 734		
	R 2 248	Lovers Walk Substation	R 12 601		
		AC Jordan Building 1	R 12 365		
Educare and Extension Building	R 2 008	New Lecture Theatre	R 8 815		
		Masengene	-		
Old Administration Building	R 1 532	New Science Lecture Theatre	-		
		Geological Science Building			
Welgelegen	R 1 490	SLC and Upalong			
		School Of Ballet			
Less Allesse Dediction	D 4 000		R 1 097		
Isaac Albow Building	R 1 092	AC Jordan Building 2			
		Lovers Walk Houses	RO		

Region Key: ower Campus



## Monthly Energy Usage (kWh)

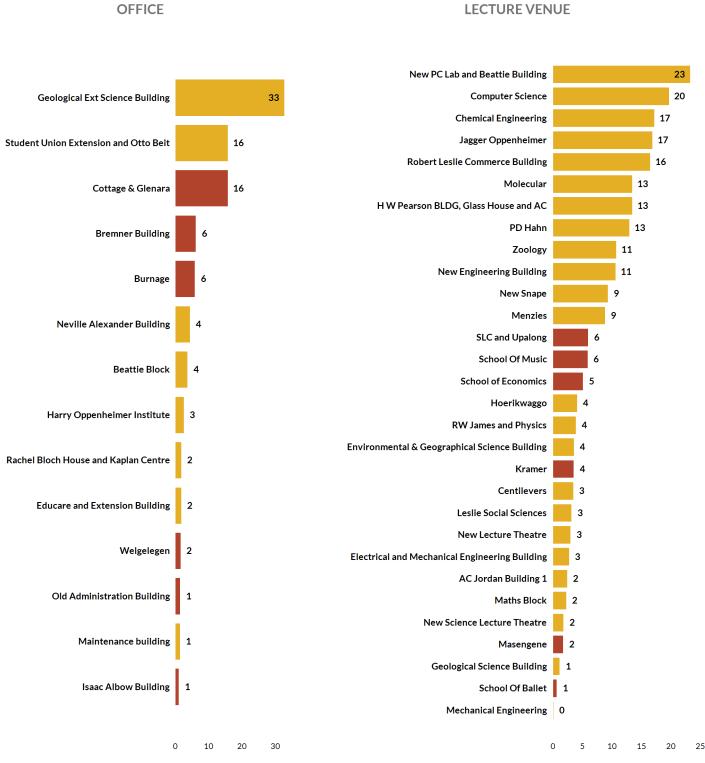
The figures in the graphs above represent the total energy consumption measured in kWh's over the reporting period. The less kWh's consumed within a particular month directly equates to alower electricity bill.





## 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.



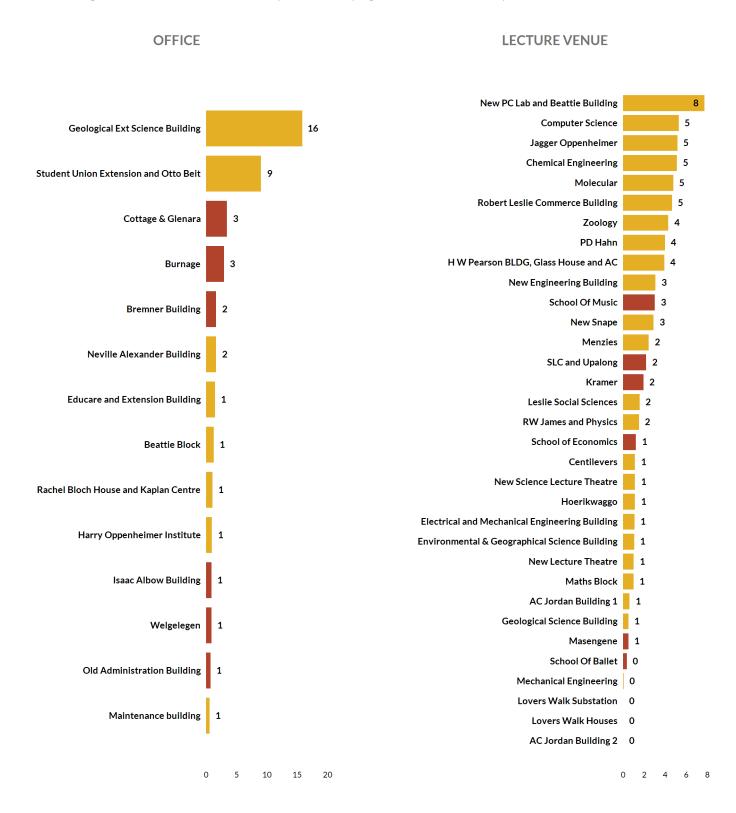
**LECTURE VENUE** 

Region Key: ower Campus.



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

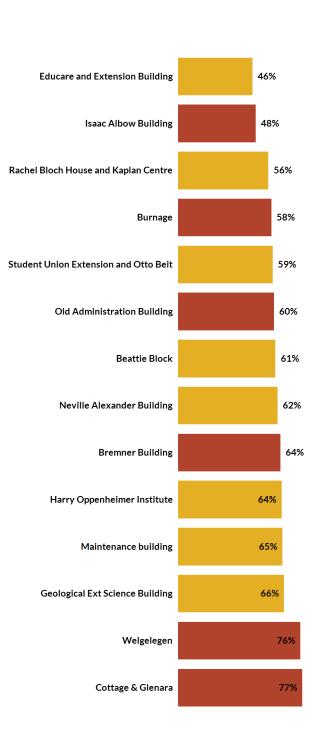
The monthly cost (R) per square meter (m2) is a benchmarking metric to determine energy cost intensities. The benchmarking metric is useful in order to compare intensity figures to other similar operations.





## 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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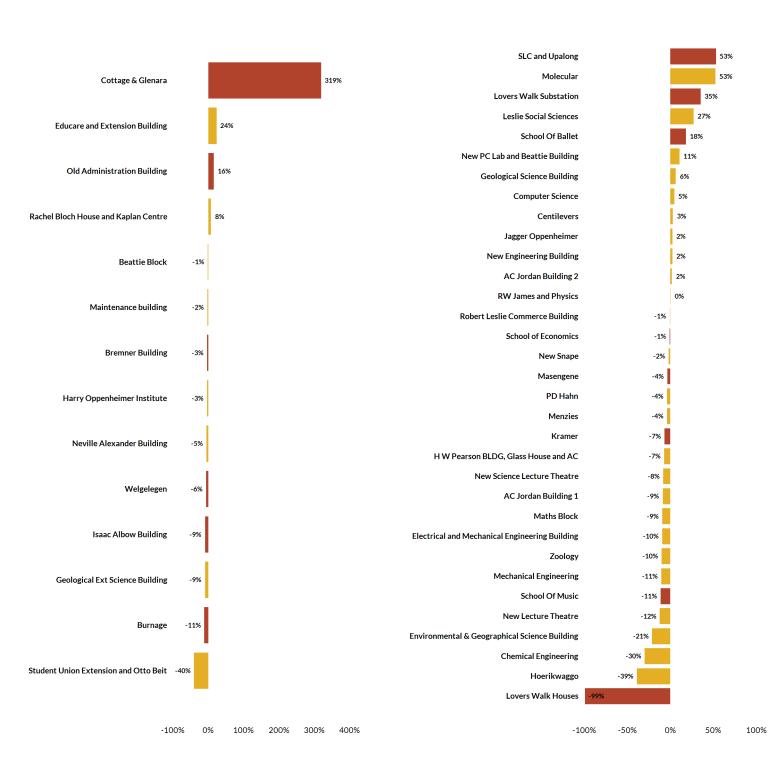
### LECTURE VENUE

AC Jordan Building 2		100%
New Lecture Theatre		66%
Masengene		66%
School of Economics		66%
Hoerikwaggo		65%
Environmental & Geographical Science Building		63%
Maths Block		63%
Centilevers		63%
New Snape		62%
Zoology		62%
PD Hahn		62%
Robert Leslie Commerce Building		62%
School Of Ballet		62%
Molecular		61%
Jagger Oppenheimer		61%
New PC Lab and Beattie Building		60%
Chemical Engineering		60%
H W Pearson BLDG, Glass House and AC		60%
New Engineering Building		60%
Menzies		60%
RW James and Physics		59%
Mechanical Engineering		59%
SLC and Upalong		58%
Leslie Social Sciences		58%
Kramer		56%
Electrical and Mechanical Engineering Building		55%
Geological Science Building		54%
School Of Music		40%
New Science Lecture Theatre		39%
Computer Science	0%	
Old Snape	0%	
Lovers Walk Houses	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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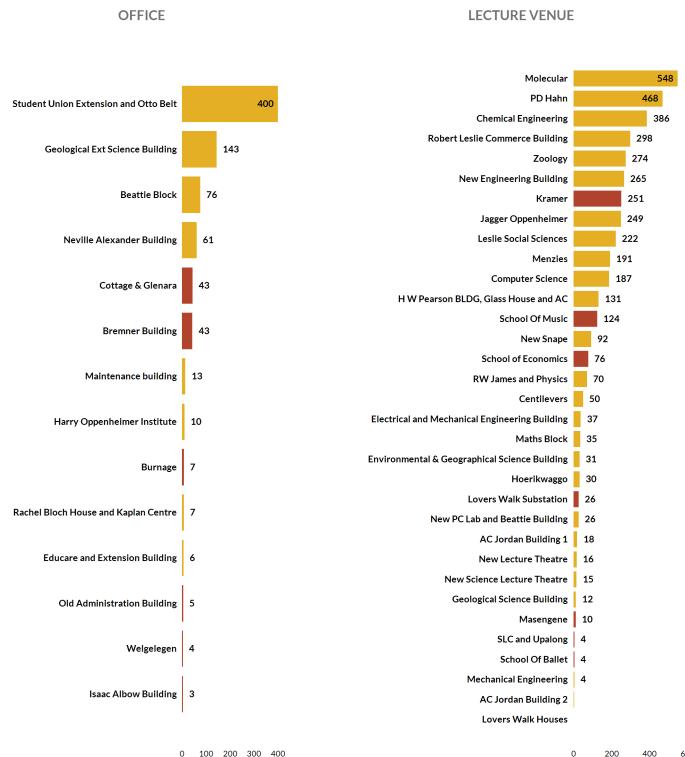
#### Region Key: Lower Campus Upper Campus



**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.



200 400 600

100 200 300 400



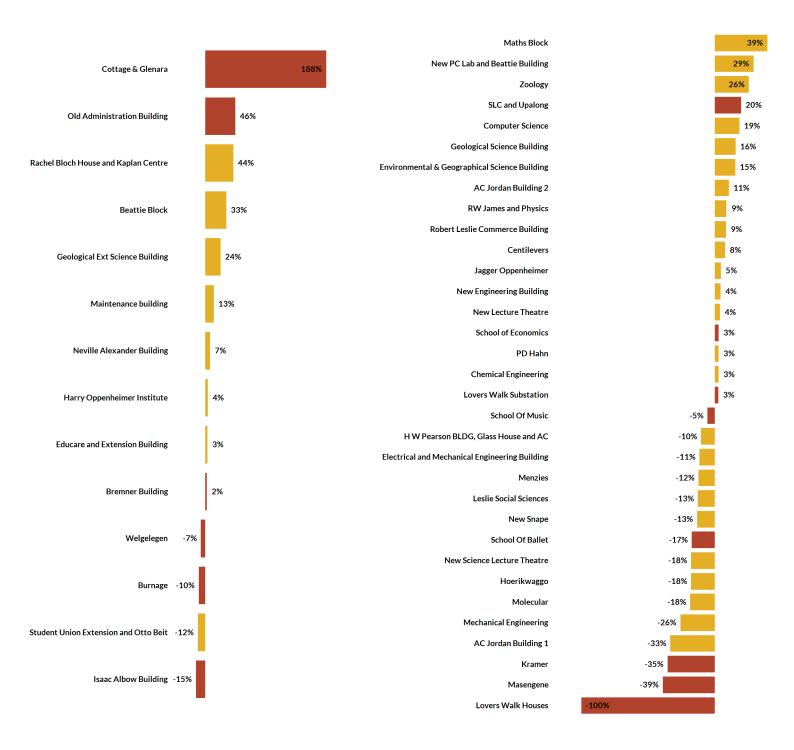


## Change in Month on Month Maximum Demand (Change in kVA as a %)

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.

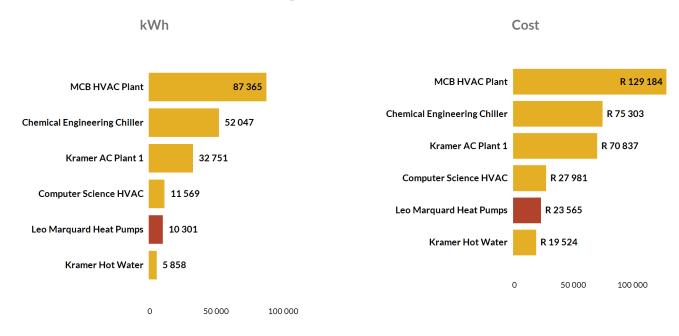
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#### LECTURE VENUE





### **HVAC and Water Heating**



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

Upper Campus Maintenance Generator				9561
Animal House Generator	8			
Hiddingh Generator	0			
Upper Campus Data Centre Generator	0			
New Civil Engineering Generator	0			
New Chemical Engineering Generator	0			
<b>OBS Square Residence Generator</b>	0			
Bremner Data Centre Generator	0			
ICTS Mowbray Generator	0			
ICTS Mowbray DC Generator	0			
Kramer Law School Generator	0			
Werner Beit Cryogenics Generator	0			
Mill Court Generator	0			
School of Economics Generator	0			
Falmouth Generator	0			
Werner Beit South 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			
Maintenance Building Generator	0			
Sports Centre Generator	0			
PD Hahn Flammable Store Generator	0			
NLT Generator	0			
PD Hahn Building Generator	0			
<b>RW</b> James Building Generator	0			
Engeo Building Generator	0			
Beattie Building Generator	0			
Jameson Hall Generator	0			
Molecular Biology Building Generator	0			
Leslie Com Building Generator	0			

