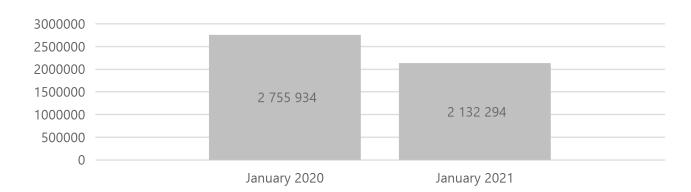
## **UCT Benchmark Energy Report**

Year on year Total kWh comparison for UCT



## **Total Monthly Electricity Cost**

The figure below summarize monthly energy costs.

OFFICE

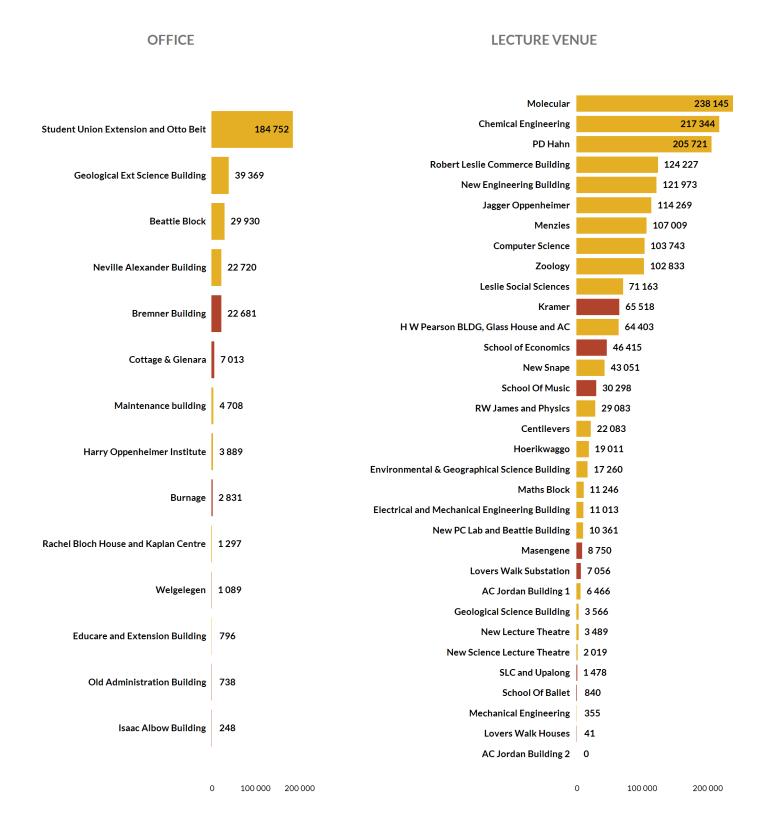
**LECTURE VENUE** 

		Molecular	R 295 207		
Student Union Extension and Otto Beit	R 210 074	PD Hahn	R 248 807		
	11220071	Chemical Engineering	R 244 022		
Geological Ext Science Building	D 50 0/4	New Engineering Building	R 151 219		
	R 58 361	Robert Leslie Commerce Building	R 150 923		
Beattie Block		Jagger Oppenheimer	R 141 609		
	R 42 069	Zoology	R 133 237		
	_	Menzies	R 127 846		
Neville Alexander Building	R 29 722	Kramer	R 101 928		
		Leslie Social Sciences	R 100 381		
Bremner Building	R 26 271	H W Pearson BLDG, Glass House and AC	R 77 705		
Brenner Bunung	1(202)1	School Of Music	R 58 932		
Cottage & Glenara	D 0 005	New Snape	R 53 102		
	R 9 325	School of Economics	R 52 989		
		RW James and Physics	R 36 566		
Maintenance building	R 7 709	Computer Science	R 34 667		
		Centilevers	R 25 941		
Harry Oppenheimer Institute	R 4 772	Hoerikwaggo	R 20 707		
		Environmental & Geographical Science Building	R 18 976		
Burnage	R 4 461	Maths Block	R 13 811		
	101	Electrical and Mechanical Engineering Building	R 13 761		
Real-IRI and the second Mandau Control	D 4 000	New PC Lab and Beattie Building	R 12 914		
Rachel Bloch House and Kaplan Centre	R 1 990	Masengene	R 10 519		
		SLC and Upalong	R 8 788		
Educare and Extension Building	R 1 638	Lovers Walk Substation	R 8 681		
		AC Jordan Building 1	R 7 515		
Welgelegen	R 1 454	Geological Science Building	R 5 226		
		New Science Lecture Theatre	R 4 330		
Old Administration Building	R 986	New Lecture Theatre	R 4 188		
Old Administration Building	K 700	School Of Ballet	R 1 283		
Isaac Albow Building	D 545		R 740		
	R 545	Lovers Walk Houses	R 660		
		AC Jordan Building 2	RO		



## 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.



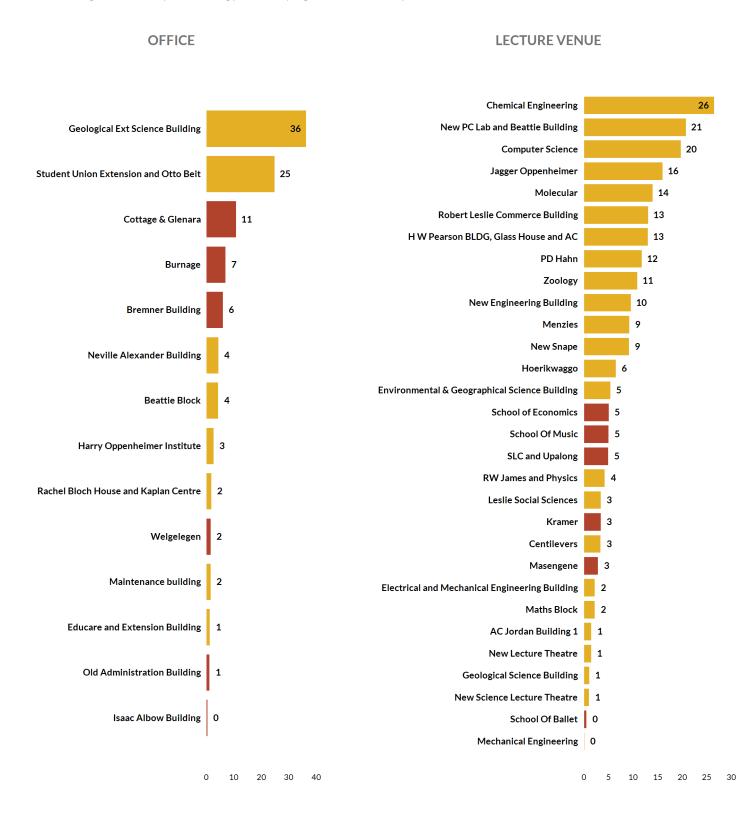
Region Key:





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

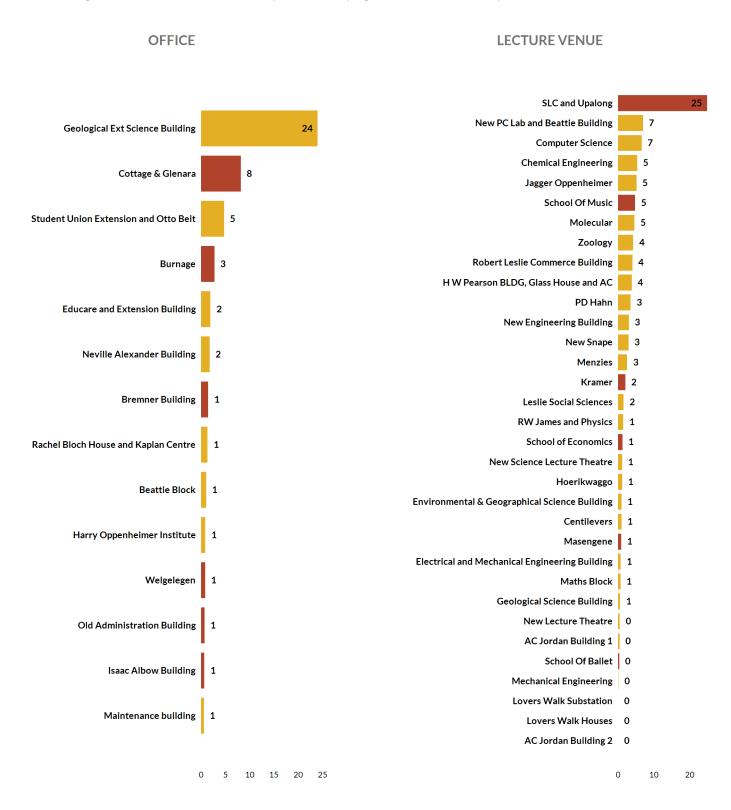
The monthly energy usage per square meter is a benchmarking metric to determine energy usage intensities. The benchmarking metric compares energy intensity figures of similar operations.





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

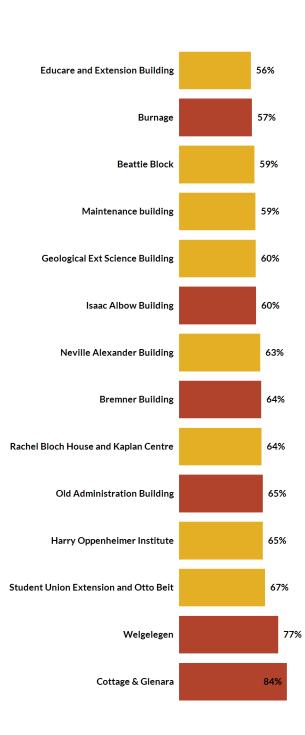
The monthly cost (R) per square meter (m2) is a benchmarking metric to determine energy cost intensities. The benchmarking metric is useful in order to compare intensity figures to other similar operations.





## 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)



OFFICE

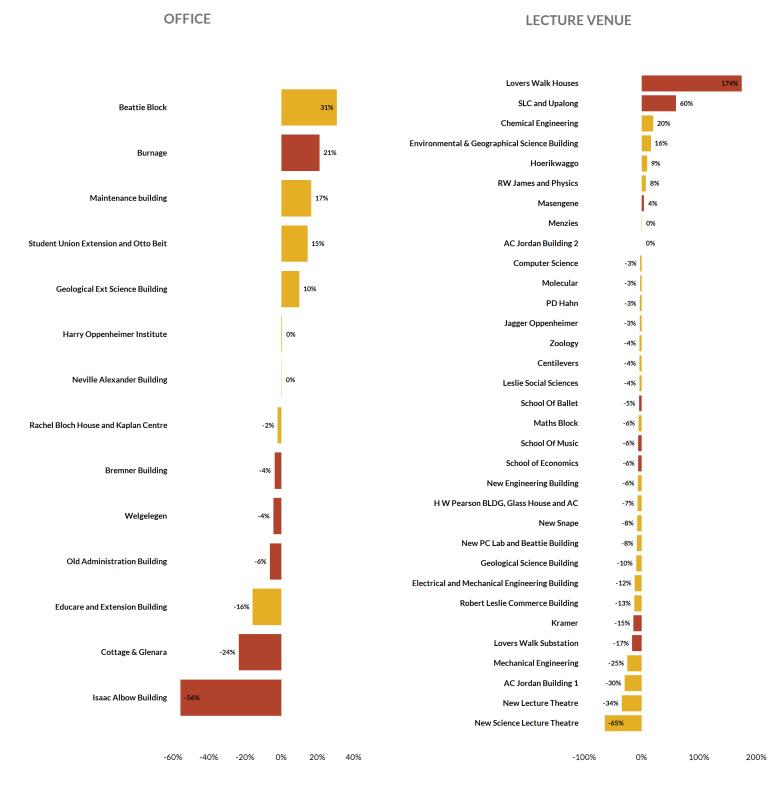
#### LECTURE VENUE

School Of Ballet		70%		
New Lecture Theatre	68%			
Chemical Engineering	68%			
Hoerikwaggo		68%		
Centilevers	6	6%		
Environmental & Geographical Science Building	6	6%		
Masengene	6	6%		
School of Economics	6	5%		
Mechanical Engineering		63%		
Robert Leslie Commerce Building		63%		
Zoology		63%		
New PC Lab and Beattie Building		63%		
Jagger Oppenheimer		62%		
New Snape		62%		
PD Hahn		62%		
Molecular		62%		
Electrical and Mechanical Engineering Building		61%		
H W Pearson BLDG, Glass House and AC		61%		
Maths Block		61%		
RW James and Physics		61%		
SLC and Upalong		60%		
Menzies		60%		
New Engineering Building		59%		
Geological Science Building		52%		
Leslie Social Sciences		52%		
Kramer	4	19%		
New Science Lecture Theatre	45	%		
School Of Music	40%			
Computer Science	0%			
Old Snape	0%			
AC Jordan Building 2	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.



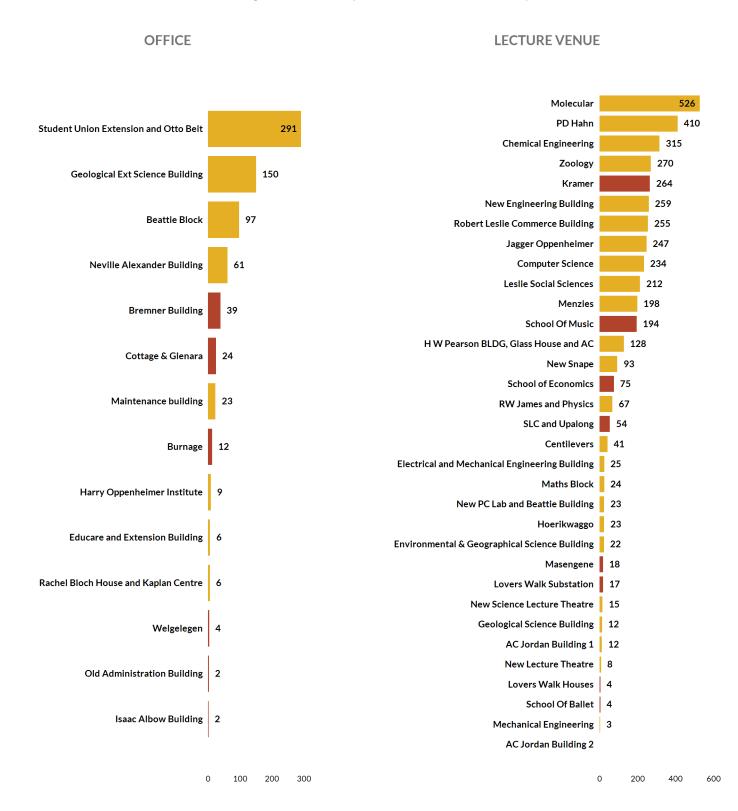
ower Campus Jpper Campus



Region Kev:

## Monthly Maximum Demand (kVA)

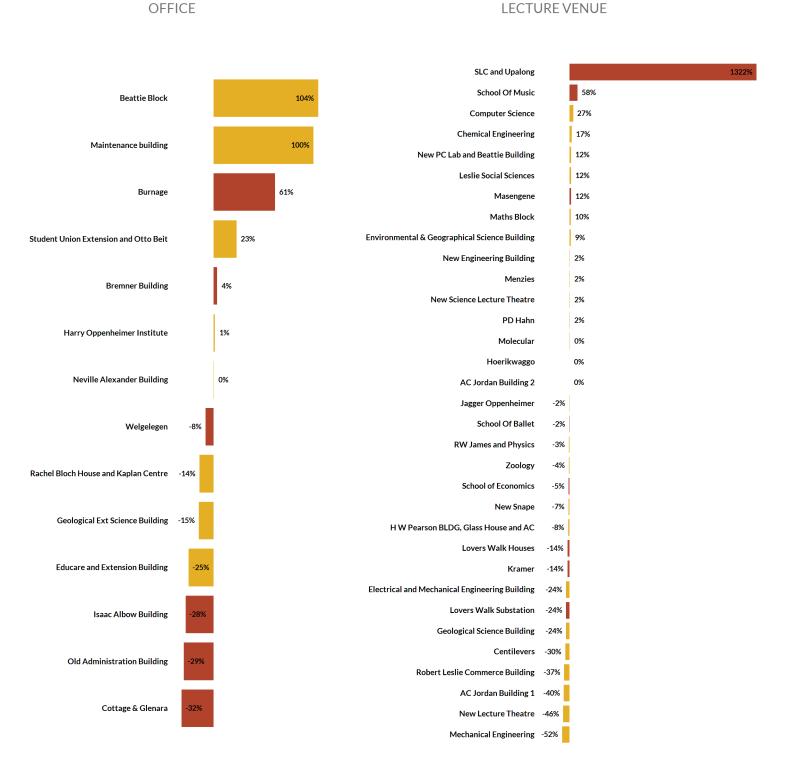
Maximum demand is the single highest peak power requirement over a billing period. Maximum demand is an important value to watch as maximum demand charges can amount up to 50% of the total electricity bill.





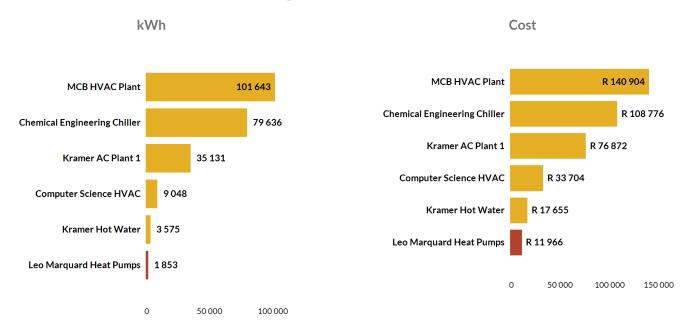
## Change in Month on Month Maximum Demand (Change in kVA as a %)

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.





### **HVAC and Water Heating**



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

Upper Campus Maintenance Generator								7487	
Molecular Biology Building Generator			1330						
Wolfson Pavillion Generator		895							
New Civil Engineering Generator		777							
Upper Campus Data Centre Generator		753							
ICTS Mowbray DC Generator		734							
New Chemical Engineering Generator		643							
Falmouth Generator		559							
Jameson Hall Generator		518							
Kramer Law School Generator		482							
<b>OBS Square Residence Generator</b>		430							
Chris Barnard BLD - Level 8 Roof Generator		378							
Bremner Data Centre Generator		375							
PD Hahn Building Generator		344							
Maintenance Building Generator		325							
Sports Centre Generator	2	284							
Leslie Com Building Generator	2	57							
School of Economics Generator	2	26							
Chris Barnard BLD - Level 7 RM2 Generator	16	3							
Hiddingh Generator	12	7							
Beattie Building Generator	12	4							
<b>RW James Building Generator</b>	12	3							
Animal House Generator	89								
ICTS Mowbray Generator	81								
Chris Barnard BLD Level 7 RM1 Generator	79								
Chris Barnard BLD Level 7 RM3 Generator	71								
Werner Beit Cryogenics Generator	68								
NLT Generator	35								
Rochester House Generator	34								
Engeo Building Generator	27								
Anatomy Building Generator	24								
PD Hahn Flammable Store Generator	17								
Mill Court Generator	11								
Psychology PD Building Generator	3								
Werner Beit South Generator	2								
	0	1000	2 000	3 000	4 000	5 000	6 000	7 000	8 000

