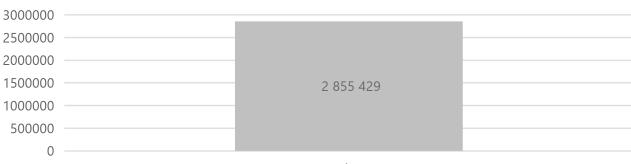
## **UCT Benchmark Energy Report**

Year on year Total kWh comparison for UCT



September 2019

#### **Total Monthly Electricity Cost**

The figure below summarize monthly energy costs .

OFFICE

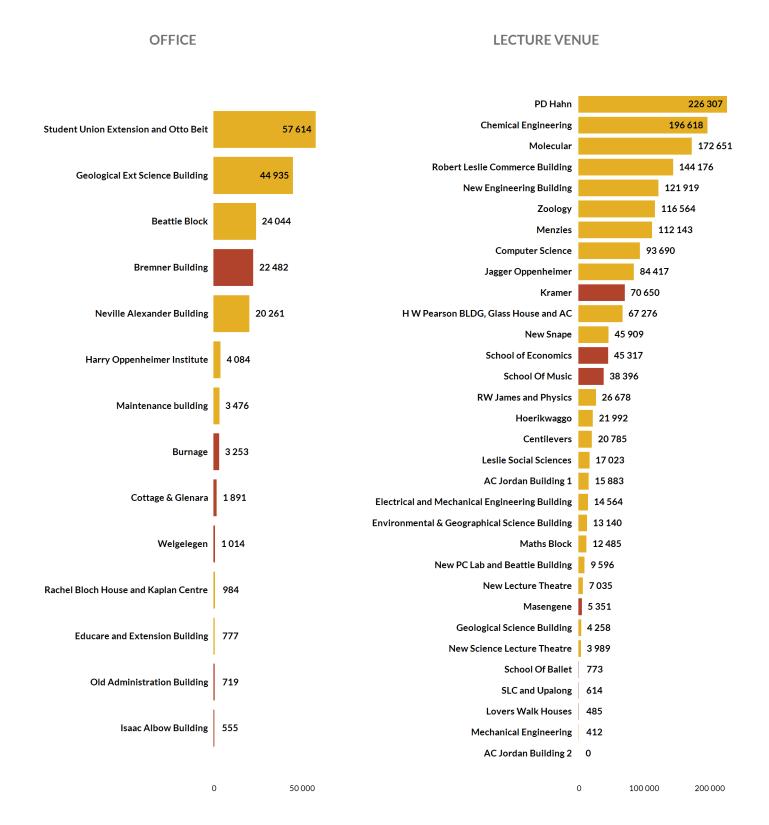
LECTURE VENUE

		PD Hahn	R 277 665
Student Union Extension and Otto Beit	R 109 280	Chemical Engineering	R 241 303
Student Onion Extension and Otto Bert	K 107 200	Molecular	R 233 988
Geological Ext Science Building	R 62	Robert Leslie Commerce Building	R 167 803
Geological Ext Science Building	415	New Engineering Building	R 150 306
Beattie Block	B 00 (05	Zoology	R 145 836
	R 29 625	Menzies	R 136 143
Neville Alexander Building	R 26 779	Jagger Oppenheimer	R 108 462
		Kramer	R 97 797
		H W Pearson BLDG, Glass House and AC	R 82 403
Bremner Building	R 26 384	New Snape	R 64 953
	_	School Of Music	R 58 645
Harry Oppenheimer Institute	R 5 293	School of Economics	R 52 745
		Leslie Social Sciences	R 48 485
Maintenance building	R 4 483	RW James and Physics	R 33 929
-		Centilevers	R 27 054
Burnage	R 4 293	Hoerikwaggo	R 26 174
Darrage		Computer Science	R 23 602
Cottage & Glenara	R 3 741	Electrical and Mechanical Engineering Building	R 19 272
		AC Jordan Building 1	R 19 119
Educare and Extension Building	R 2 095	Environmental & Geographical Science Building	R 16 140
		Maths Block	R 14 923
			R 12 006
Rachel Bloch House and Kaplan Centre	R 2 094	New Lecture Theatre Masengene	
		New Science Lecture Theatre	
Welgelegen	R 1 474	Geological Science Building	-
	1	School Of Ballet	-
Isaac Albow Building	R 982	SLC and Upalong	R 976
Old Administration Building	R 978	Lovers Walk Houses	R 839
		Mechanical Engineering	R 530
C C	l .	AC Jordan Building 2	R 0



### 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.

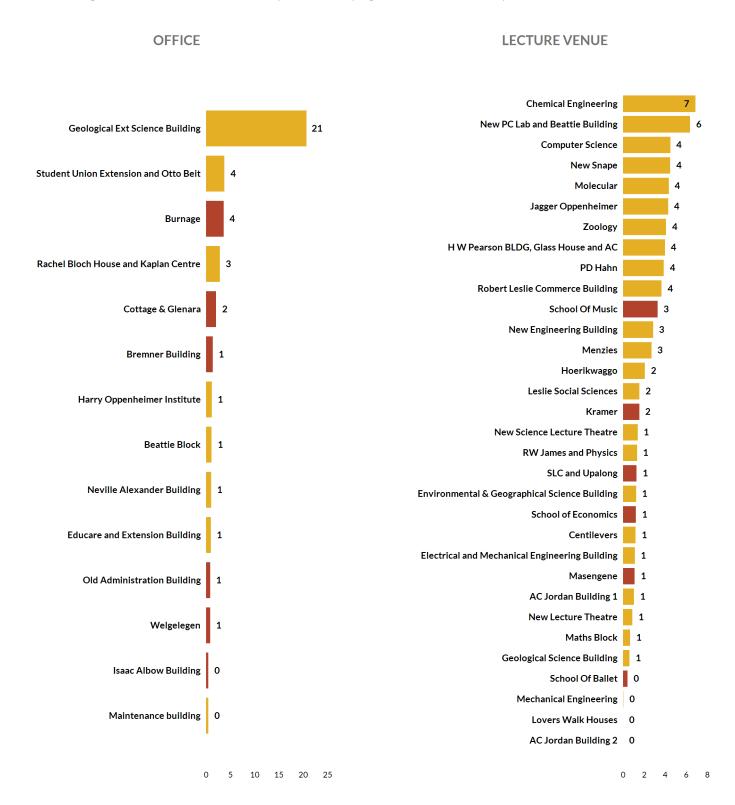


Region Key: Lower Campus



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

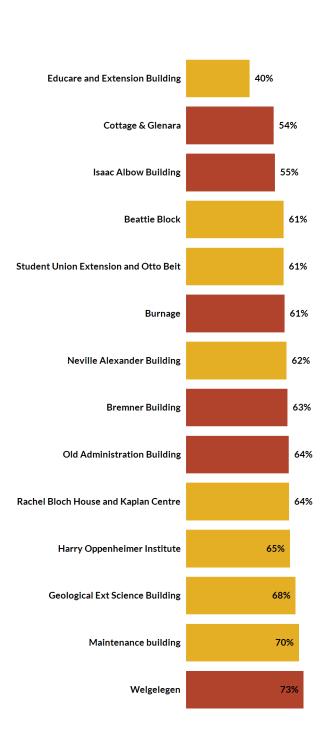
The monthly cost (R) per square meter (m2) is a benchmarking metric to determine energy cost intensities. The benchmarking metric is useful in order to compare intensity figures to other similar operations.





### 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)



OFFICE

LECTURE VENUE

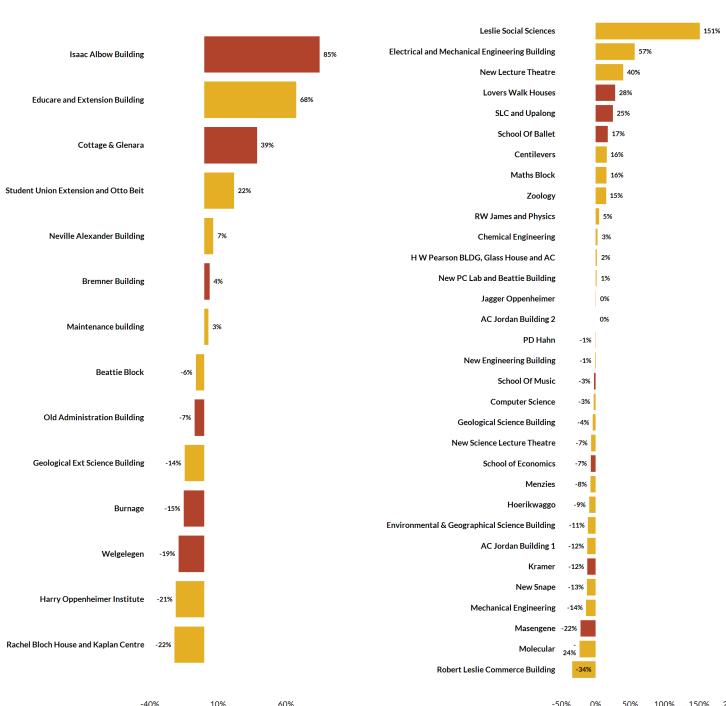
New Lecture Theatre		669	6
School Of Ballet		66%	%
Hoerikwaggo		66%	6
Lovers Walk Houses		65%	6
School of Economics		65%	6
Masengene		65%	5
Zoology			64%
New PC Lab and Beattie Building			64%
Maths Block			63%
Mechanical Engineering			63%
Jagger Oppenheimer			63%
Centilevers			63%
Robert Leslie Commerce Building			62%
Environmental & Geographical Science Building			62%
PD Hahn			61%
Molecular			61%
RW James and Physics			60%
H W Pearson BLDG, Glass House and AC			<mark>60%</mark>
Menzies			60%
New Engineering Building			59%
Geological Science Building			<b>59%</b>
Chemical Engineering			58%
Leslie Social Sciences			58%
Electrical and Mechanical Engineering Building			57%
New Snape			57%
Kramer		5	3%
SLC and Upalong		5	3%
School Of Music		41%	
New Science Lecture Theatre		39%	
Old Snape	0%		
AC Jordan Building 2	0%		
Computer Science	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.

OFFICE



0% 50% 100% 150% 200%

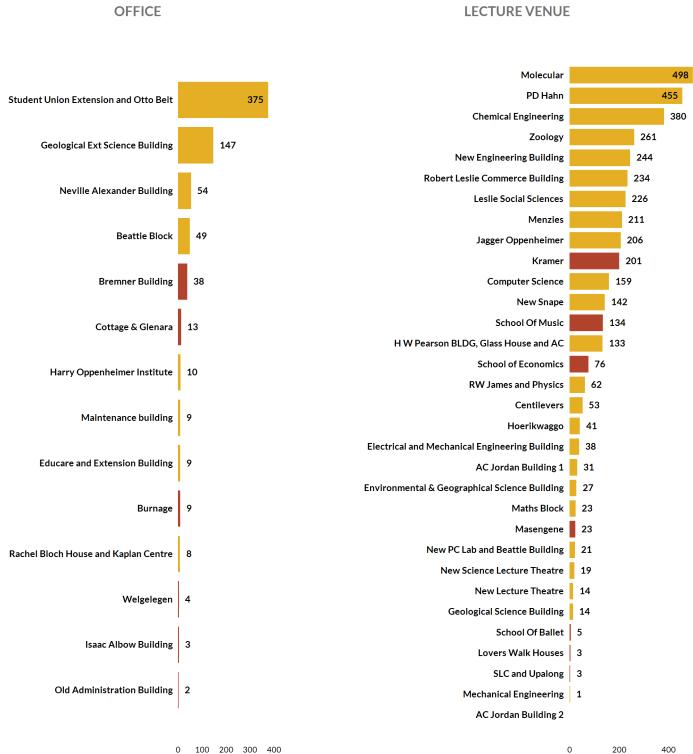
Region Kev: er Campus



**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

100 200 300 400

Region Key: wer Campus

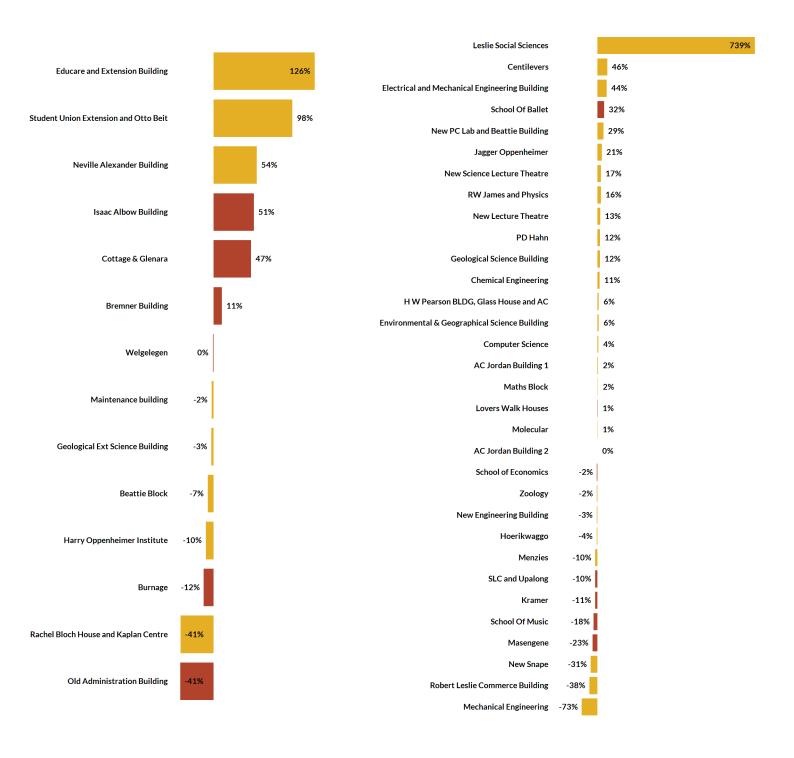


# Change in Month on Month Maximum Demand (Change in kVA as a %)

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.

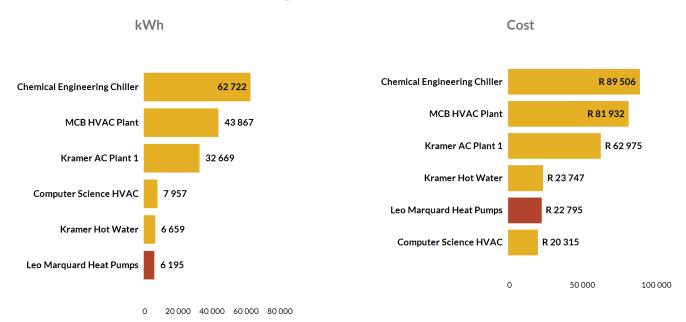
OFFICE

#### LECTURE VENUE





#### **HVAC and Water Heating**



#### Generator Monthly Energy Usage (kWh)

