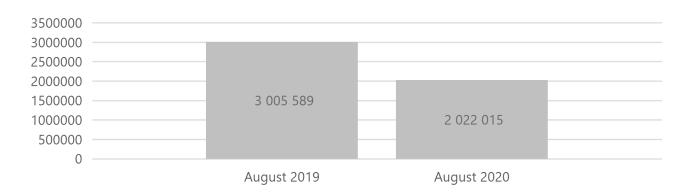
UCT Benchmark Energy Report

Year on year Total kWh comparison for UCT



Total Monthly Electricity Cost

The figure below summarize monthly energy costs.

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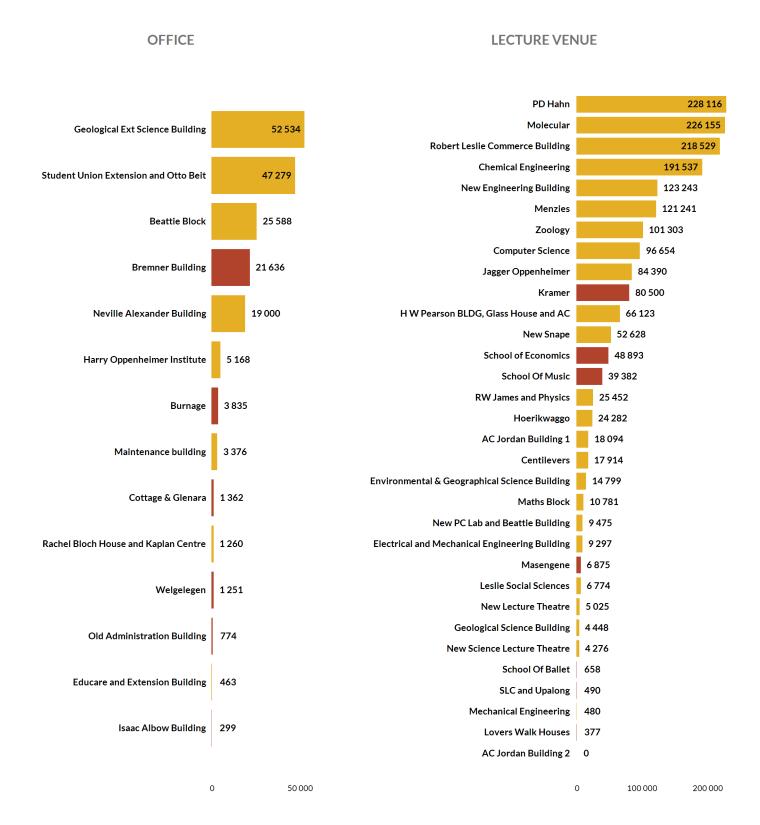
LECTURE VENUE

		Molecular	R 418 233
Geological Ext Science Building	R 102 293	PD Hahn	R 411 250
		Robert Leslie Commerce Building	R 390 945
Student Union Extension and Otto Beit	R 100 523	Chemical Engineering	R 349 352
		New Engineering Building	R 229 197
Beattie Block	R 47 353	Menzies	R 226 973
		Zoology	R 193 968
		Kramer	R 166 636
Bremner Building	R 37 890	Jagger Oppenheimer	R 153 289
		H W Pearson BLDG, Glass House and AC	R 121 499
Neville Alexander Building	R 34 348	New Snape	R 119 708
		School Of Music	R 95 814
Harry Oppenheimer Institute Burnage	R 9 514 R 7 378	School of Economics	R 85 364
		RW James and Physics	R 46 976
		Hoerikwaggo	R 43 265
		Centilevers	R 32 330
Maintenance building	R 6 235	AC Jordan Building 1	R 31 798
		Environmental & Geographical Science Building	R 26 319
Rachel Bloch House and Kaplan Centre	R 4 004	Computer Science	R 22 616
		Maths Block	_
Cottage & Glenara	R 3 376	Electrical and Mechanical Engineering Building	R 18 416
		New PC Lab and Beattie Building	R 16 769
		Leslie Social Sciences	R 15 133
Welgelegen	R 2 421	Masengene	-
	1	New Science Lecture Theatre	-
Old Administration Building	R 1 715	New Lecture Theatre	-
		Geological Science Building	-
Educare and Extension Building	R 1 354	School Of Ballet	
		Mechanical Engineering	R 1 302
Isaac Albow Building	R 770	SLC and Upalong	R 1 202
		Lovers Walk Houses	R 981
		AC Jordan Building 2	RO



Monthly Energy Usage (kWh)

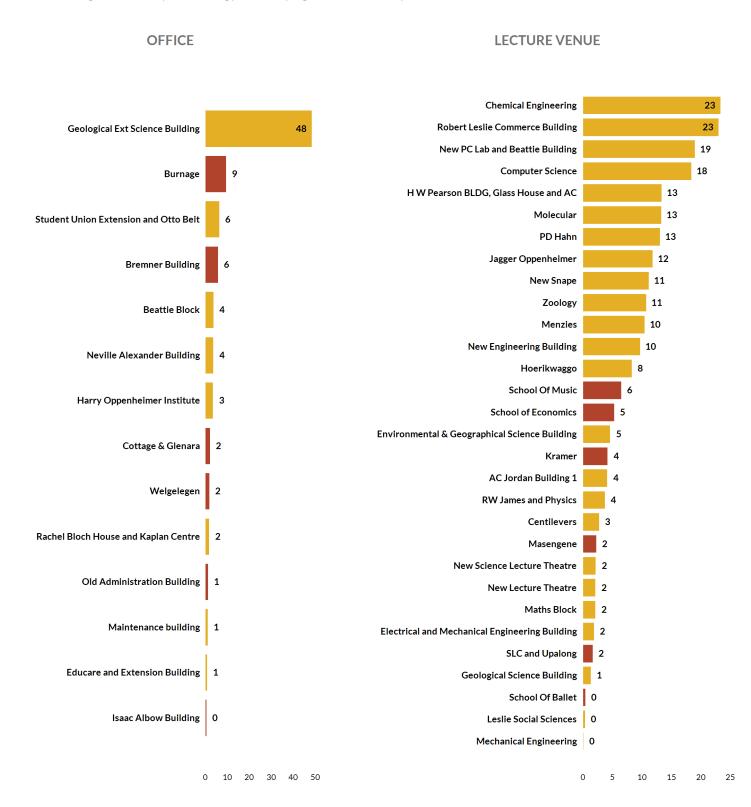
The figures in the graphs above represent the total energy consumption measured in kWh's over the reporting period. The less kWh's consumed within a particular month directly equates to alower electricity bill.





Monthly Energy Usage per Square Meter(kWh/m2)

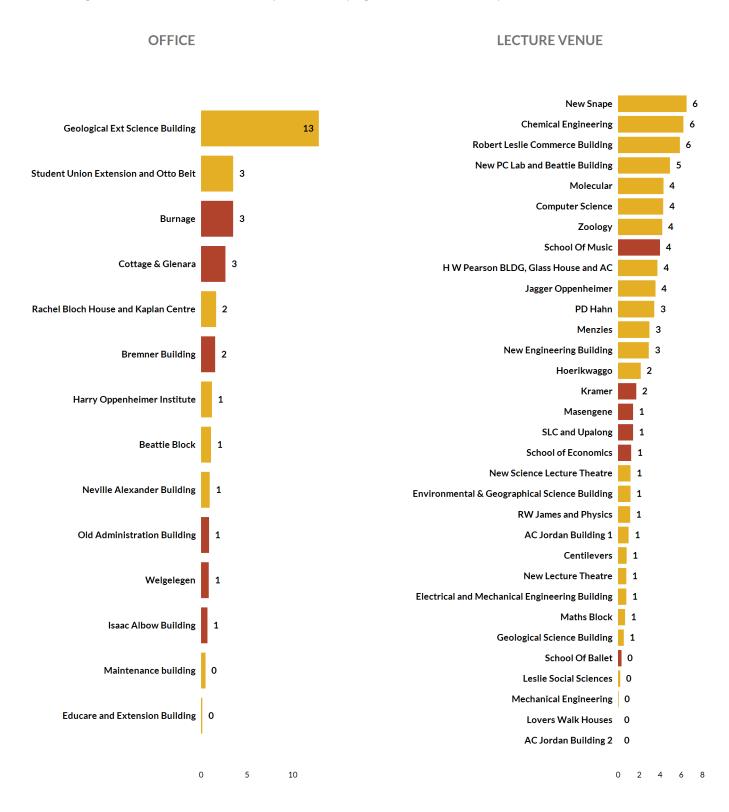
The monthly energy usage per square meter is a benchmarking metric to determine energy usage intensities. The benchmarking metric compares energy intensity figures of similar operations.





Monthly Energy Cost per Square Meter(R/m2)

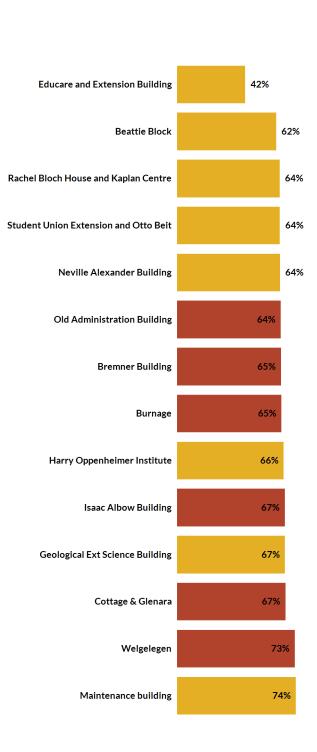
The monthly cost (R) per square meter (m2) is a benchmarking metric to determine energy cost intensities. The benchmarking metric is useful in order to compare intensity figures to other similar operations.





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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School Of Ballet		75%
New Lecture Theatre		69%
Centilevers		67%
Lovers Walk Houses		67%
School of Economics		67%
Hoerikwaggo		66%
New PC Lab and Beattie Building		65%
Jagger Oppenheimer		65%
Masengene		64%
Mechanical Engineering		64%
Molecular		64%
Environmental & Geographical Science Building		64%
Robert Leslie Commerce Building		64%
Maths Block		64%
Zoology		63%
PD Hahn		63%
RW James and Physics		62%
New Engineering Building		62%
H W Pearson BLDG, Glass House and AC		62%
Chemical Engineering		61%
Menzies		60%
Geological Science Building		59%
Electrical and Mechanical Engineering Building		58%
Leslie Social Sciences		57%
SLC and Upalong		57%
Kramer		56%
New Snape		56%
New Science Lecture Theatre		42%
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.

Menzies 80% Zoology 79% Geological Ext Science Building 119% New Engineering Building 40% Lovers Walk Houses 38% Educare and Extension Building 72% Leslie Social Sciences 32% Hoerikwaggo 27% Isaac Albow Building 17% **RW** James and Physics 18% School Of Music 17% Burnage 11% Molecular 15% Electrical and Mechanical Engineering Building 14% Cottage & Glenara Centilevers 11% School Of Ballet 10% **Mechanical Engineering** 9% Neville Alexander Building 10% 8% Masengene H W Pearson BLDG, Glass House and AC 6% **Rachel Bloch House and Kaplan Centre** PD Hahn 4% **Computer Science** 4% Harry Oppenheimer Institute **Geological Science Building** 3% Environmental & Geographical Science Building 3% Beattie Block School of Economics 3% Robert Leslie Commerce Building 2% Bremner Building 0% **Chemical Engineering** 2% AC Jordan Building 1 1% Maths Block 0% Student Union Extension and Otto Beit -3% New Snape 0% Jagger Oppenheimer 0% Welgelegen -7% AC Jordan Building 2 0% Kramer -2% Maintenance building -8% New PC Lab and Beattie Building -4% New Lecture Theatre -8% **Old Administration Building** SLC and Upalong -38% New Science Lecture Theatre -42% -20% 30% 80% -60% -10% 40%

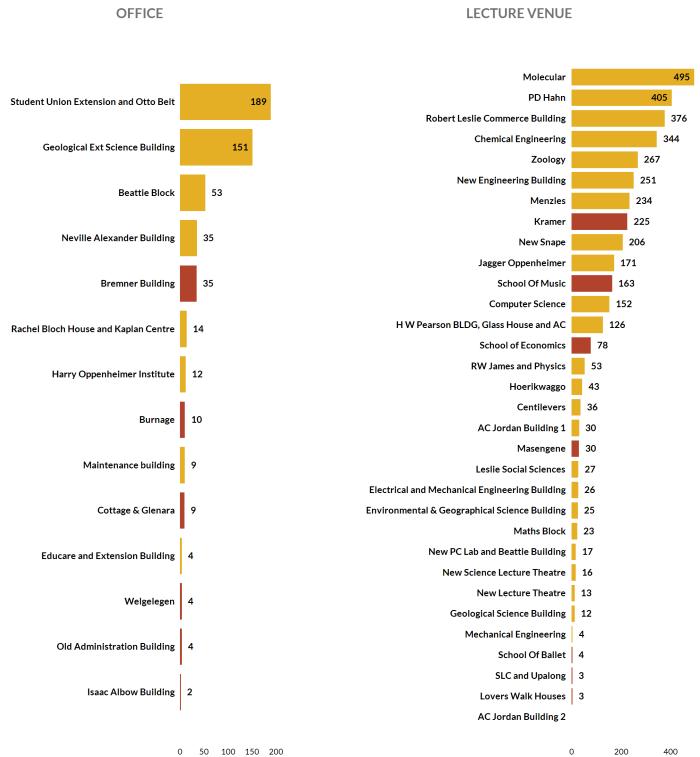
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LECTURE VENUE



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.



0 50 100 150 20

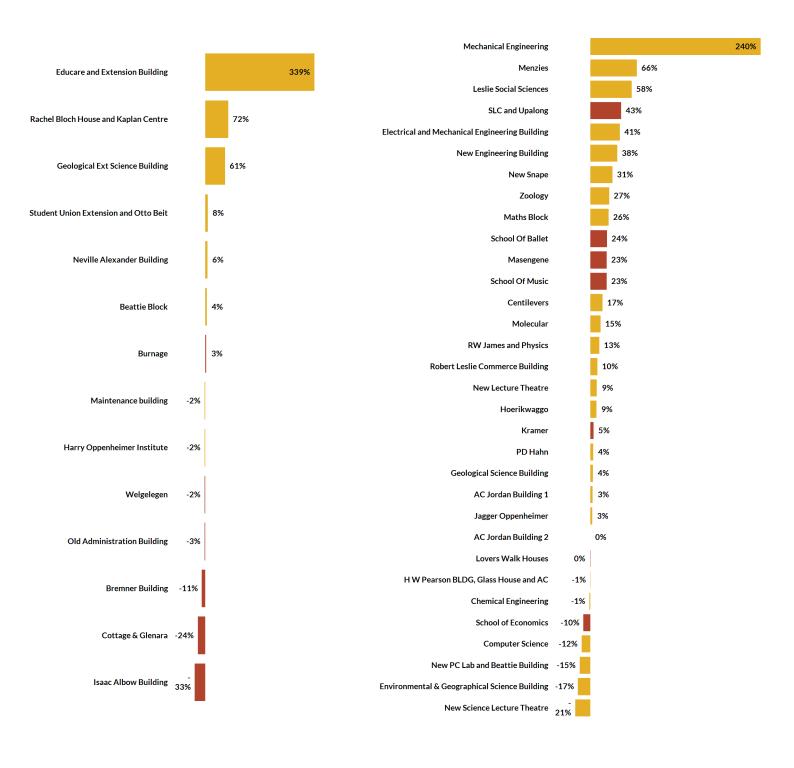


Change in Month on Month Maximum Demand (Change in kVA as a %)

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.

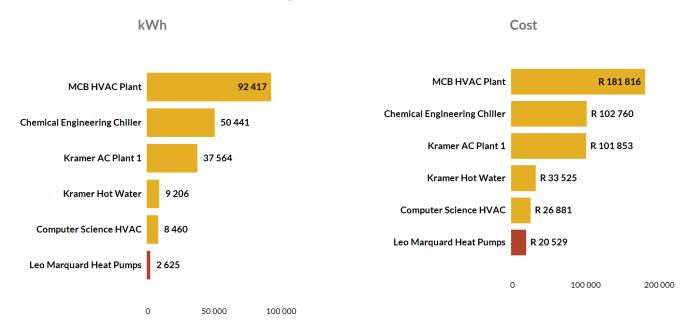
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HVAC and Water Heating



Generator Monthly Energy Usage (kWh)

