Total Monthly Electricity Cost (R)

OFFICE

Office	Cost
Student Union Extensio...	R157 258
Geological Ext Science ...	R70 147
Beattie Block	R41 155
Neville Alexander Building	R38 960
Bremner Building	R17 667
Maintenance building	R15 567
Burnage	R13 177
Harry Oppenheimer Insti...	R12 049
Welgelegen	R9 285
Old Administration Build...	R8 913
Cottage & Glenara	R8 292
Educare and Extension ...	R7 664
Isaac Albow Building	R7 352
Rachel Bloch House and...	R6 799

LECTURE VENUE

Lecture Venue	Cost
Molecular	R292 527
PD Hahn	R222 717
Chemical Engineering	R179 064
Jagger,Oppenheimer,I...	R164 425
Robert Leslie Commer...	R153 936
New Engineering Building	R142 787
Kramer	R141 760
Menzies	R139 417
Zoology	R120 195
Computer Science	R118 923
H W Pearson BLDG, GI...	R99 954
Leslie Social Sciences	R77 076
School of Economics	R61 855
School Of Music	R59 069
New Snape	R56 795
RW James and Physics	R32 213
Hoerikwaggo	R32 055
Centilevers	R31 257
New Science Lecture T...	R19 953
Masengene	R19 264
Environmental & Geogr...	R19 083
Electrical and Mechani...	R18 638
AC Jordan Building 1	R17 978
Maths Block	R16 673
SLC and Upalong	R13 914
New Lecture Theatre	R13 755
New PC Lab and Beatti...	R9 923
Geological Science Bui...	R4 791
School Of Ballet	R2 401
Mechanical Engineering	R1 804
Lovers Walk Houses	R163

Region Key:
Lower Campus
Upper Campus

The figures above summarize monthly energy costs.

TERRA FIRMA SOFTWARE

Report Period: Jan 2018

Monthly Energy Usage (kWh)

OFFICE

Building	kWh
Student Union Extension...	160 231
Geological Ext Science B...	67 290
Beattie Block	34 225
Neville Alexander Building	32 707
Bremner Building	11 518
Maintenance building	8 109
Burnage	7 170
Harry Oppenheimer Instit...	5 332
Welgelegen	2 173
Old Administration Building	1 842
Cottage & Glenara	1 233
Educare and Extension B...	568
Isaac Albow Building	417
Rachel Bloch House and ...	58

Ave: 23780

0   50 000   100 000   150 000   kWh

LECTURE VENUE

Venue	kWh
Molecular	324 970
PD Hahn	246 921
Chemical Engineering	197 714
Jagger,Oppenheimer,I...	184 658
Robert Leslie Commer...	177 102
New Engineering Building	150 657
Menzies	148 522
Kramer	142 420
Computer Science	141 450
Zoology	122 882
H W Pearson BLDG, Gl...	100 362
Leslie Social Sciences	77 057
School of Economics	64 804
New Snape	59 524
School Of Music	44 382
Hoerikwaggo	33 755
RW James and Physics	32 742
Centilevers	31 231
New Science Lecture T...	21 070
AC Jordan Building 1	19 837
Environmental & Geog...	19 347
Electrical and Mechani...	18 475
Masengene	17 422
Maths Block	16 432
SLC and Upalong	11 494
New PC Lab and Beatti...	10 827
New Lecture Theatre	9 991
Geological Science Bui...	4 541
School Of Ballet	2 244
Mechanical Engineering	1 323
Lovers Walk Houses	96

Ave: 73767

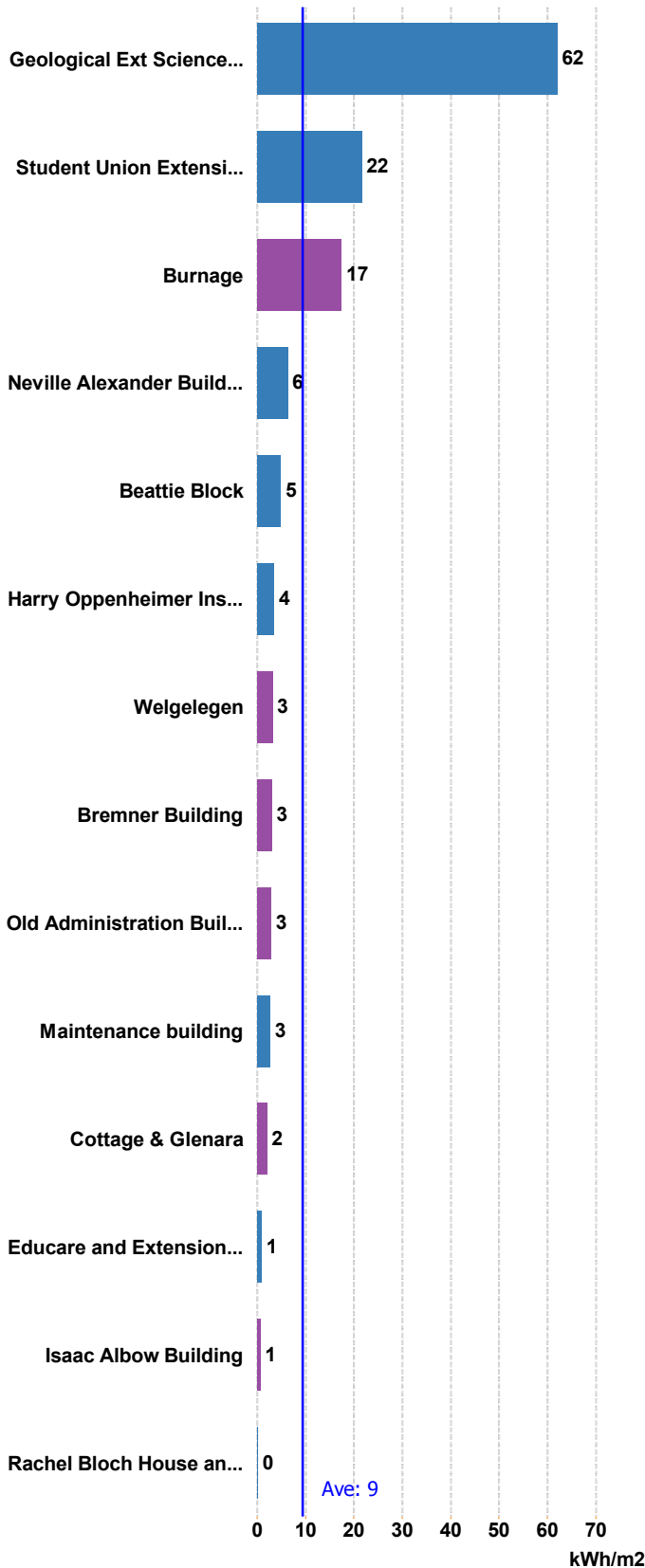0   100 000   200 000   300 000   kWh

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 a lower electricity bill.
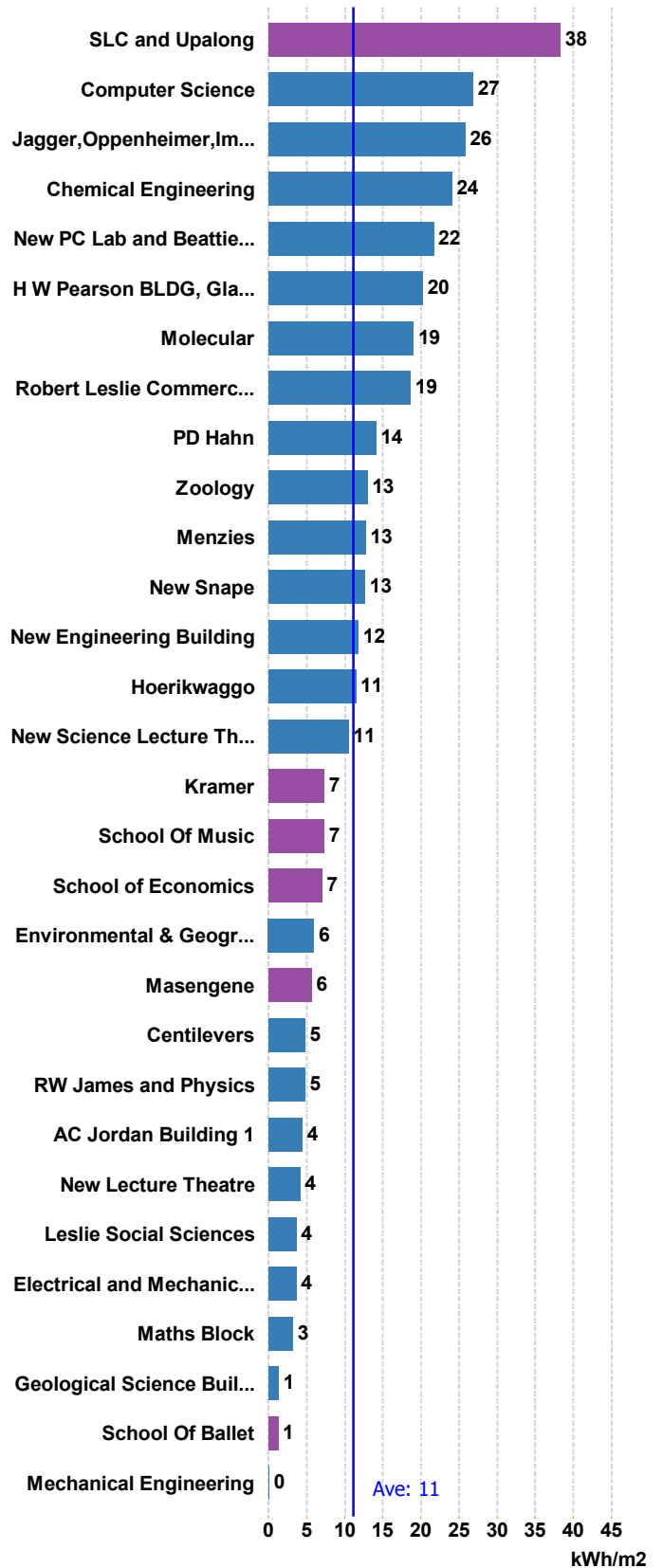
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Report Period: Jan 2018

Monthly Energy Usage per Square Meter (kWh/m2)

OFFICE

Building	kWh/m2
Geological Ext Science...	62
Student Union Extensi...	22
Burnage	17
Neville Alexander Build...	6
Beattie Block	5
Harry Oppenheimer Ins...	4
Welgelegen	3
Bremner Building	3
Old Administration Buil...	3
Maintenance building	3
Cottage & Glenara	2
Educare and Extension...	1
Isaac Albow Building	1
Rachel Bloch House an...	0

Ave: 9

LECTURE VENUE

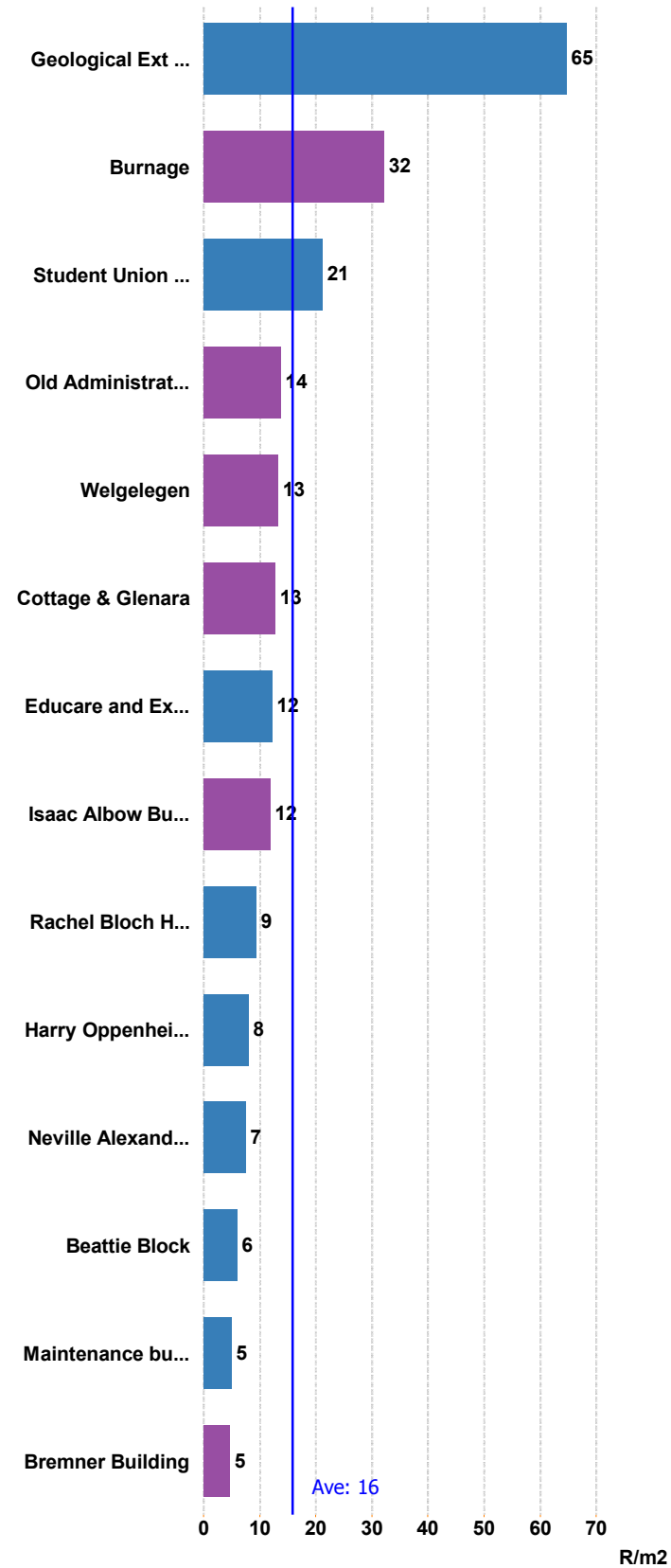| Building	kWh/m2
SLC and Upalong	38
Computer Science	27
Jagger,Oppenheimer,Im...	26
Chemical Engineering	24
New PC Lab and Beattie...	22
H W Pearson BLDG, Gla...	20
Molecular	19
Robert Leslie Commerc...	19
PD Hahn	14
Zoology	13
Menzies	13
New Snape	13
New Engineering Building	12
Hoerikwaggo	11
New Science Lecture Th...	11
Kramer	7
School Of Music	7
School of Economics	7
Environmental & Geogr...	6
Masengene	6
Centilevers	5
RW James and Physics	5
AC Jordan Building 1	4
New Lecture Theatre	4
Leslie Social Sciences	4
Electrical and Mechanic...	4
Maths Block	3
Geological Science Buil...	1
School Of Ballet	1
Mechanical Engineering	0

Ave: 11

kWh/m2

The monthly energy usage per square meter (m²) is a benchmarking metric to determine energy usage intensities. The benchmarking metric compares energy intensity figures of similar operations. For example, site "X" has an energy intensity of 400 kWh/m2, and site "Y" has an intensity of 250 kWh/m2. Site "Y" with the lower energy intensity is deemed to be more ef...
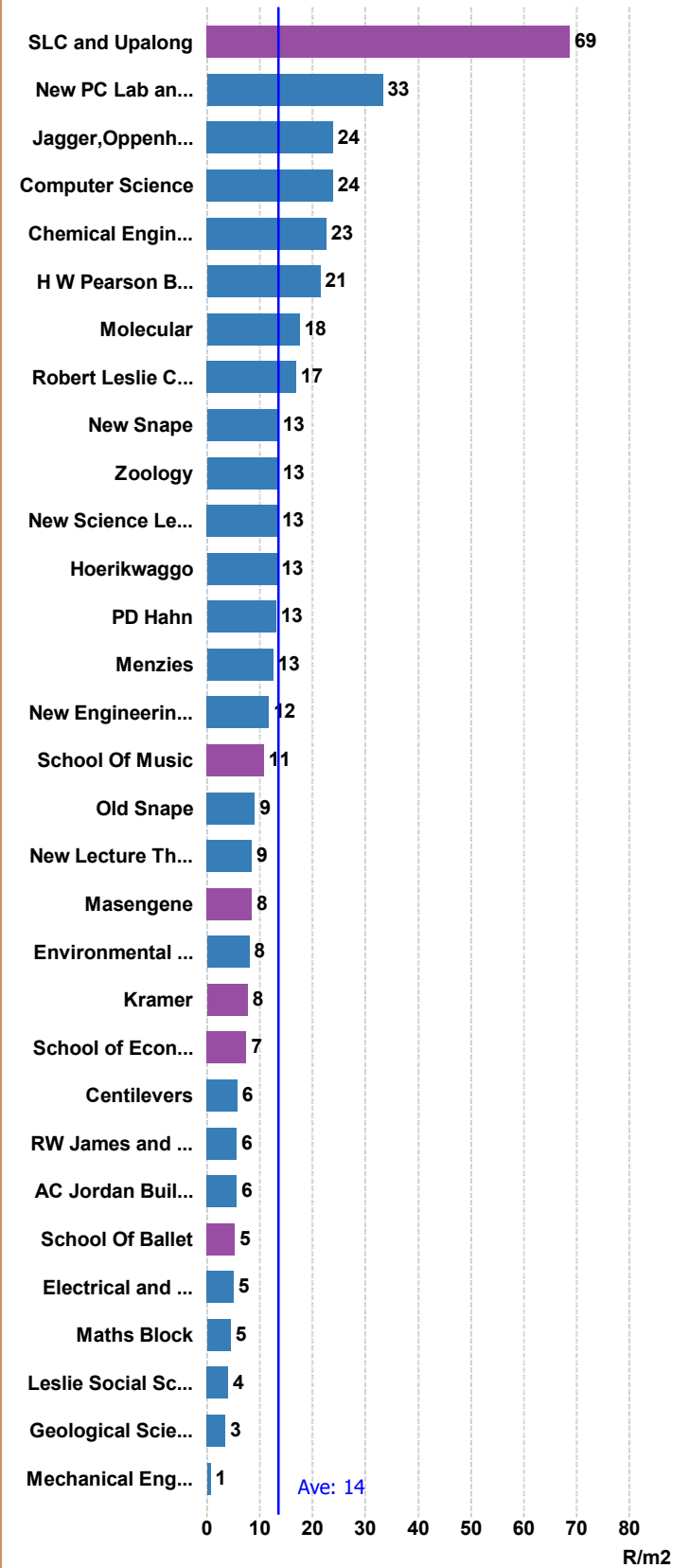
TERRA FIRMA SOFTWARE

Report Period: Jan 2018

Monthly Cost per Square Meter (R/m2)

OFFICE

Building	R/m2
Geological Ext ...	65
Burnage	32
Student Union ...	21
Old Administrat...	14
Welgelegen	13
Cottage & Glenara	13
Educare and Ex...	12
Isaac Albow Bu...	12
Rachel Bloch H...	9
Harry Oppenhei...	8
Neville Alexand...	7
Beattie Block	6
Maintenance bu...	5
Bremner Building	5

Ave: 16

LECTURE VENUE

Building	R/m2
SLC and Upalong	69
New PC Lab an...	33
Jagger,Oppenh...	24
Computer Science	24
Chemical Engin...	23
H W Pearson B...	21
Molecular	18
Robert Leslie C...	17
New Snape	13
Zoology	13
New Science Le...	13
Hoerikwaggo	13
PD Hahn	13
Menzies	13
New Engineerin...	12
School Of Music	11
Old Snape	9
New Lecture Th...	9
Masengene	8
Environmental ...	8
Kramer	8
School of Econ...	7
Centilevers	6
RW James and ...	6
AC Jordan Buil...	6
School Of Ballet	5
Electrical and ...	5
Maths Block	5
Leslie Social Sc...	4
Geological Scie...	3
Mechanical Eng...	1

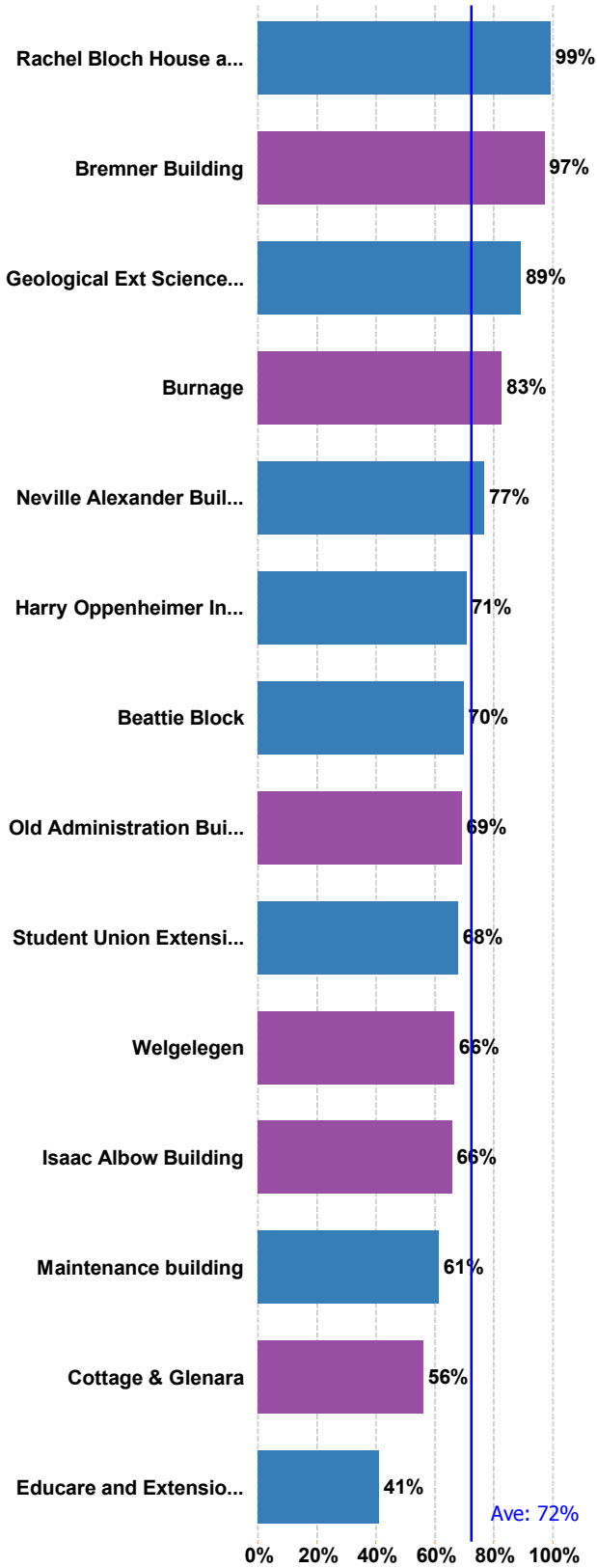Ave: 14

Region Key:

Lower Campus
Upper Campus

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.
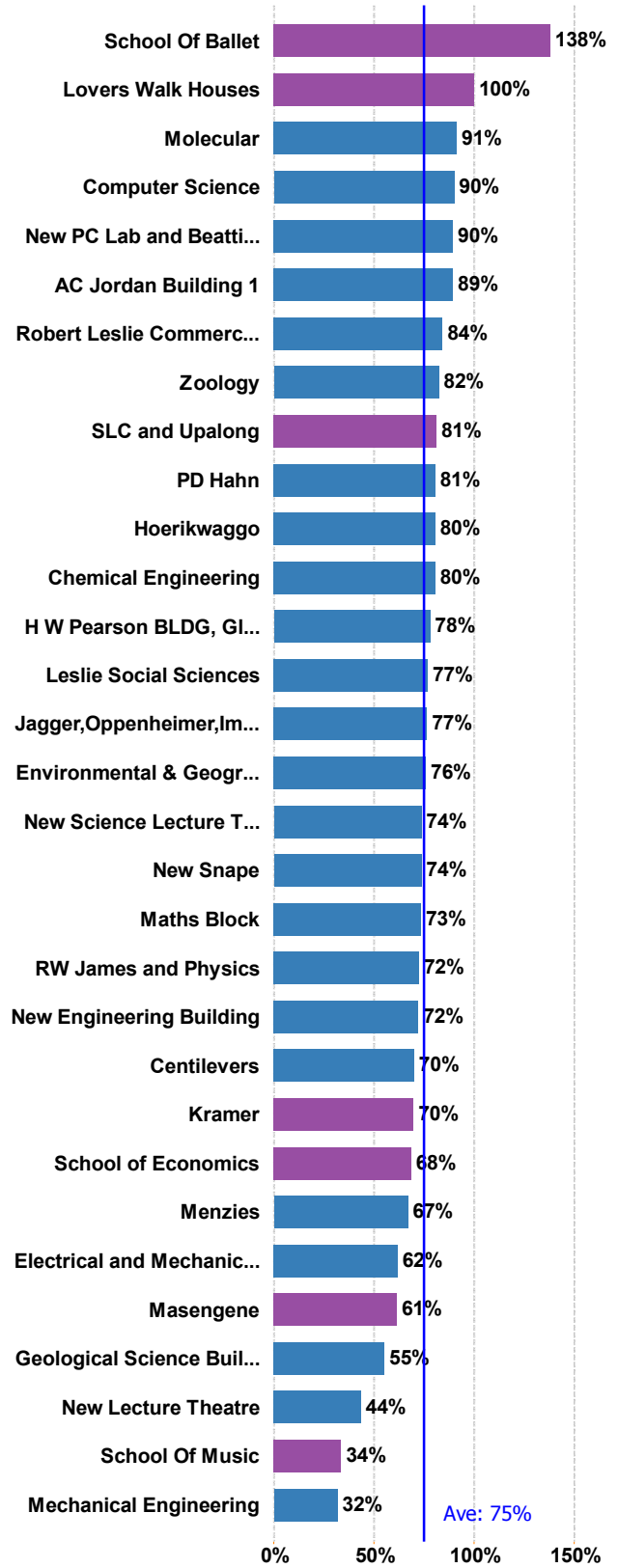
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Report Period: Jan 2018

Monthly "Night" Time Energy Usage (kWh)

OFFICE

Building	%
Rachel Bloch House a...	99%
Bremner Building	97%
Geological Ext Science...	89%
Burnage	83%
Neville Alexander Buil...	77%
Harry Oppenheimer In...	71%
Beattie Block	70%
Old Administration Bui...	69%
Student Union Extensi...	68%
Welgelegen	66%
Isaac Albow Building	66%
Maintenance building	61%
Cottage & Glenara	56%
Educare and Extensio...	41%

Ave: 72%

LECTURE VENUE

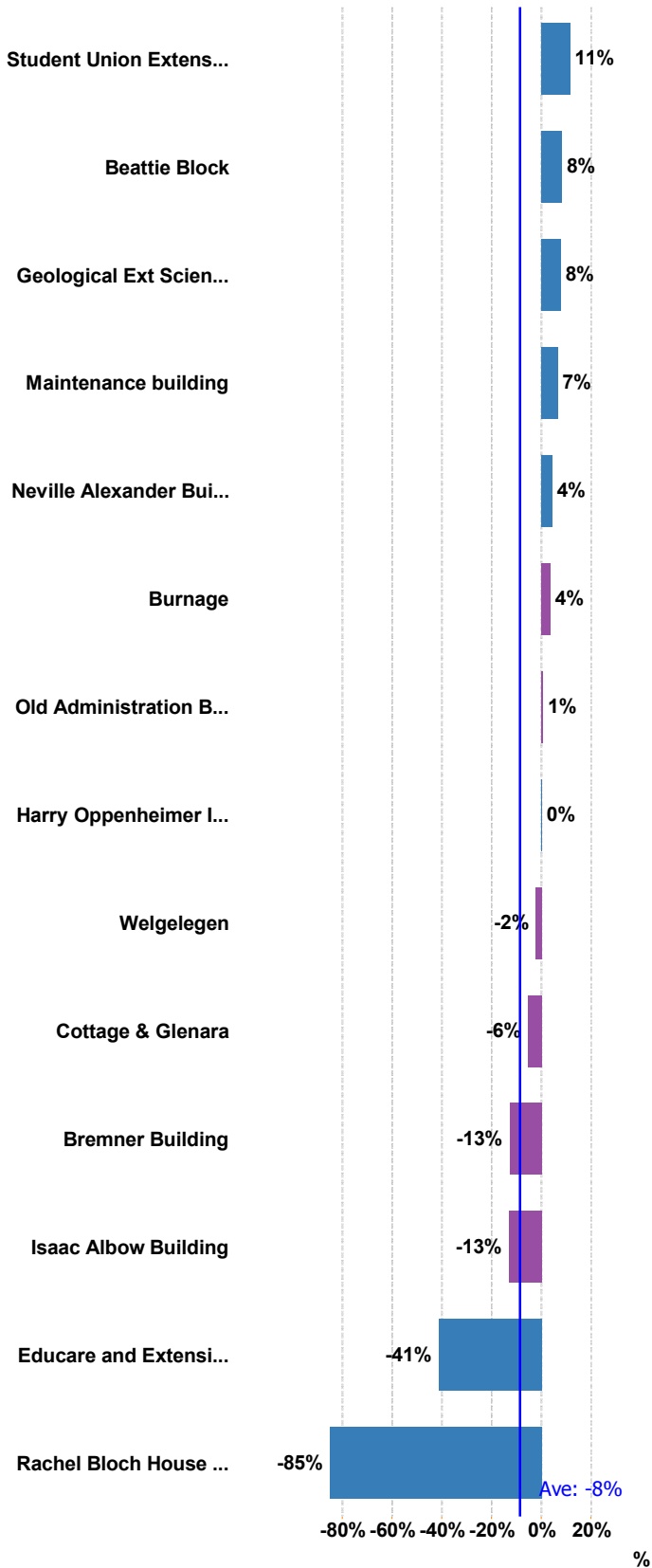| Venue	%
School Of Ballet	138%
Lovers Walk Houses	100%
Molecular	91%
Computer Science	90%
New PC Lab and Beatti...	90%
AC Jordan Building 1	89%
Robert Leslie Commerc...	84%
Zoology	82%
SLC and Upalong	81%
PD Hahn	81%
Hoerikwaggo	80%
Chemical Engineering	80%
H W Pearson BLDG, Gl...	78%
Leslie Social Sciences	77%
Jagger,Oppenheimer,Im...	77%
Environmental & Geogr...	76%
New Science Lecture T...	74%
New Snape	74%
Maths Block	73%
RW James and Physics	72%
New Engineering Building	72%
Centilevers	70%
Kramer	70%
School of Economics	68%
Menzies	67%
Electrical and Mechanic...	62%
Masengene	61%
Geological Science Buil...	55%
New Lecture Theatre	44%
School Of Music	34%
Mechanical Engineering	32%

Ave: 75%

The figures above compare 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)
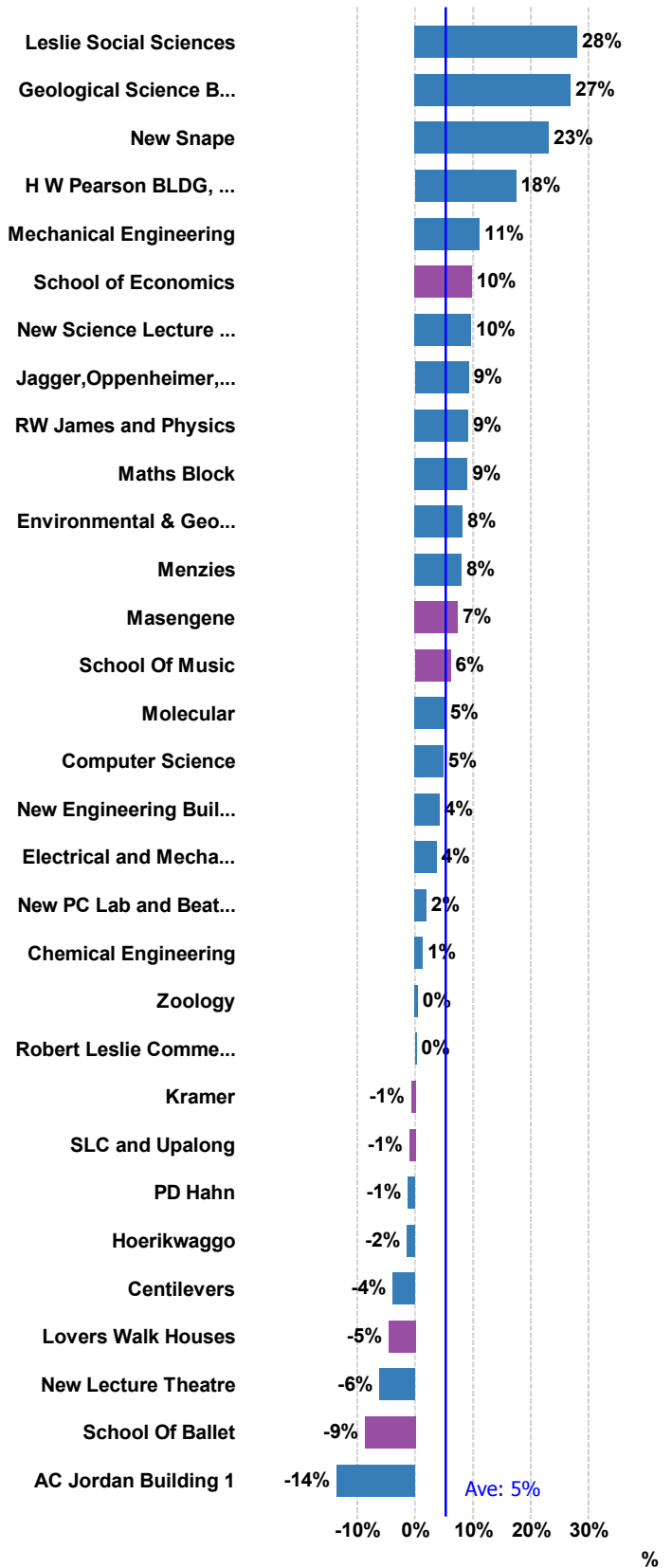
TERRA FIRMA SOFTWARE

Report Period: Jan 2018

Change in Month on Month Energy Usage (Change in kWh as a %)

OFFICE

Building	Change
Student Union Extens...	11%
Beattie Block	8%
Geological Ext Scien...	8%
Maintenance building	7%
Neville Alexander Bui...	4%
Burnage	4%
Old Administration B...	1%
Harry Oppenheimer I...	0%
Welgelegen	-2%
Cottage & Glenara	-6%
Bremner Building	-13%
Isaac Albow Building	-13%
Educare and Extensi...	-41%
Rachel Bloch House ...	-85%

Ave: -8%

LECTURE VENUE

Building	Change
Leslie Social Sciences	28%
Geological Science B...	27%
New Snape	23%
H W Pearson BLDG, ...	18%
Mechanical Engineering	11%
School of Economics	10%
New Science Lecture ...	10%
Jagger,Oppenheimer,...	9%
RW James and Physics	9%
Maths Block	9%
Environmental & Geo...	8%
Menzies	8%
Masengene	7%
School Of Music	6%
Molecular	5%
Computer Science	5%
New Engineering Buil...	4%
Electrical and Mecha...	4%
New PC Lab and Beat...	2%
Chemical Engineering	1%
Zoology	0%
Robert Leslie Comme...	0%
Kramer	-1%
SLC and Upalong	-1%
PD Hahn	-1%
Hoerikwaggo	-2%
Centilevers	-4%
Lovers Walk Houses	-5%
New Lecture Theatre	-6%
School Of Ballet	-9%
AC Jordan Building 1	-14%

Ave: 5%

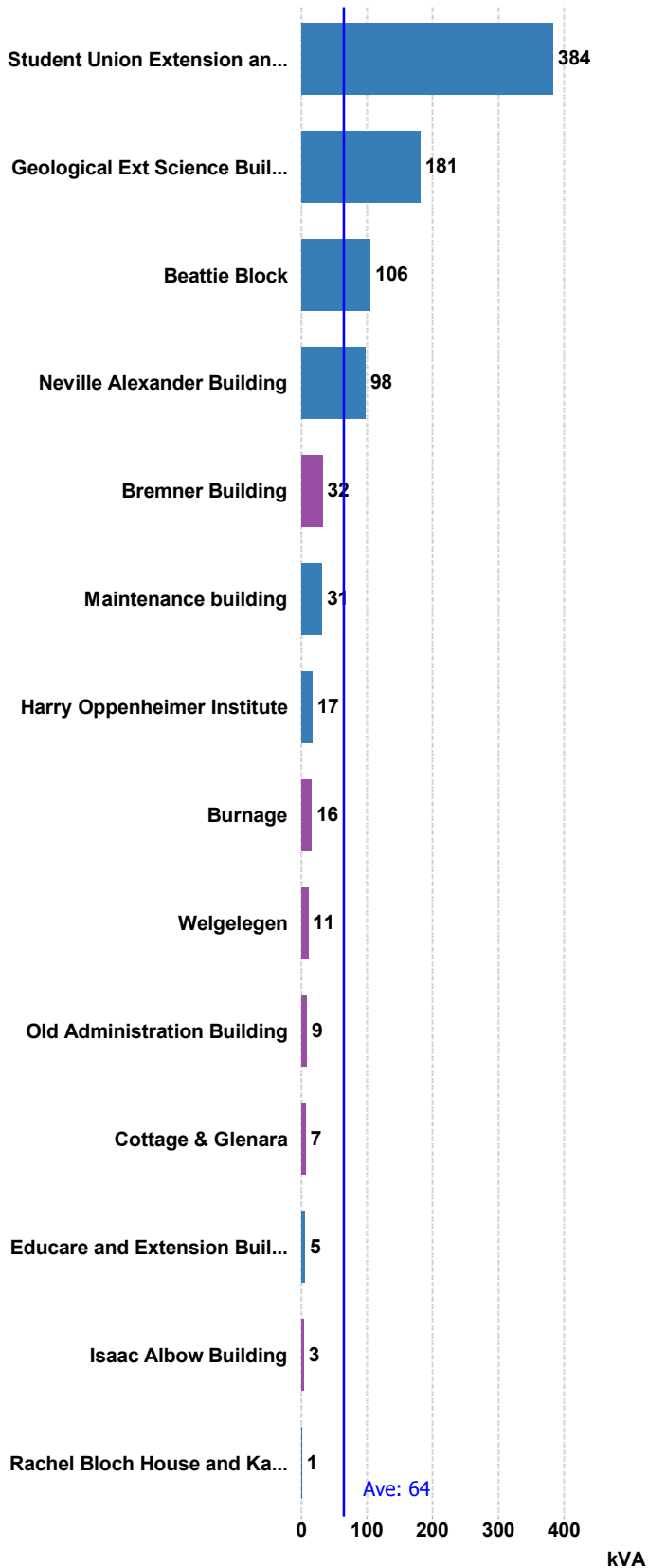## Region Key:

Lower Campus
Upper Campus

The figures above compare energy used last month to this month, 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.
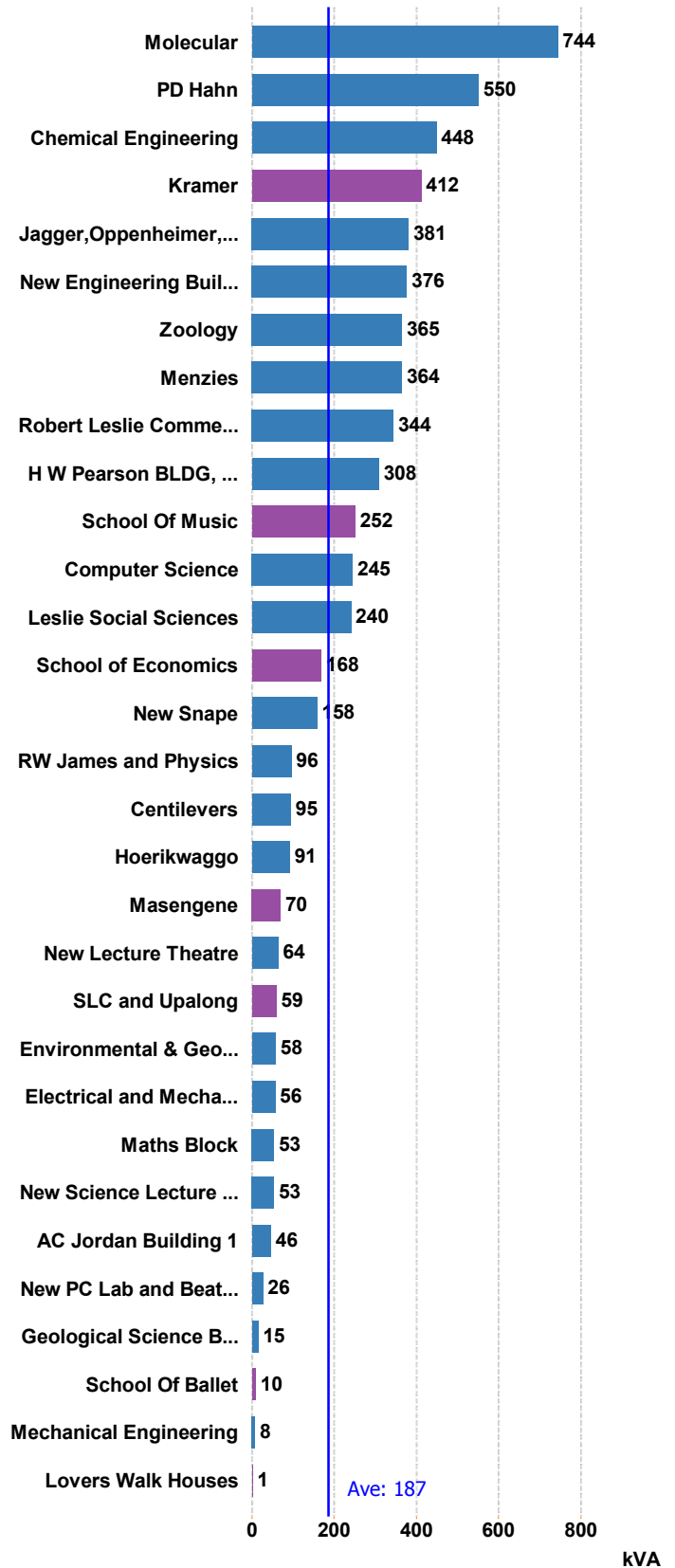
TERRA FIRMA SOFTWARE

Report Period: Jan 2018

Monthly Maximum Demand (kVA)

OFFICE

Building	kVA
Student Union Extension an...	384
Geological Ext Science Buil...	181
Beattie Block	106
Neville Alexander Building	98
Bremner Building	32
Maintenance building	31
Harry Oppenheimer Institute	17
Burnage	16
Welgelegen	11
Old Administration Building	9
Cottage & Glenara	7
Educare and Extension Buil...	5
Isaac Albow Building	3
Rachel Bloch House and Ka...	1

Ave: 64

kVA

LECTURE VENUE

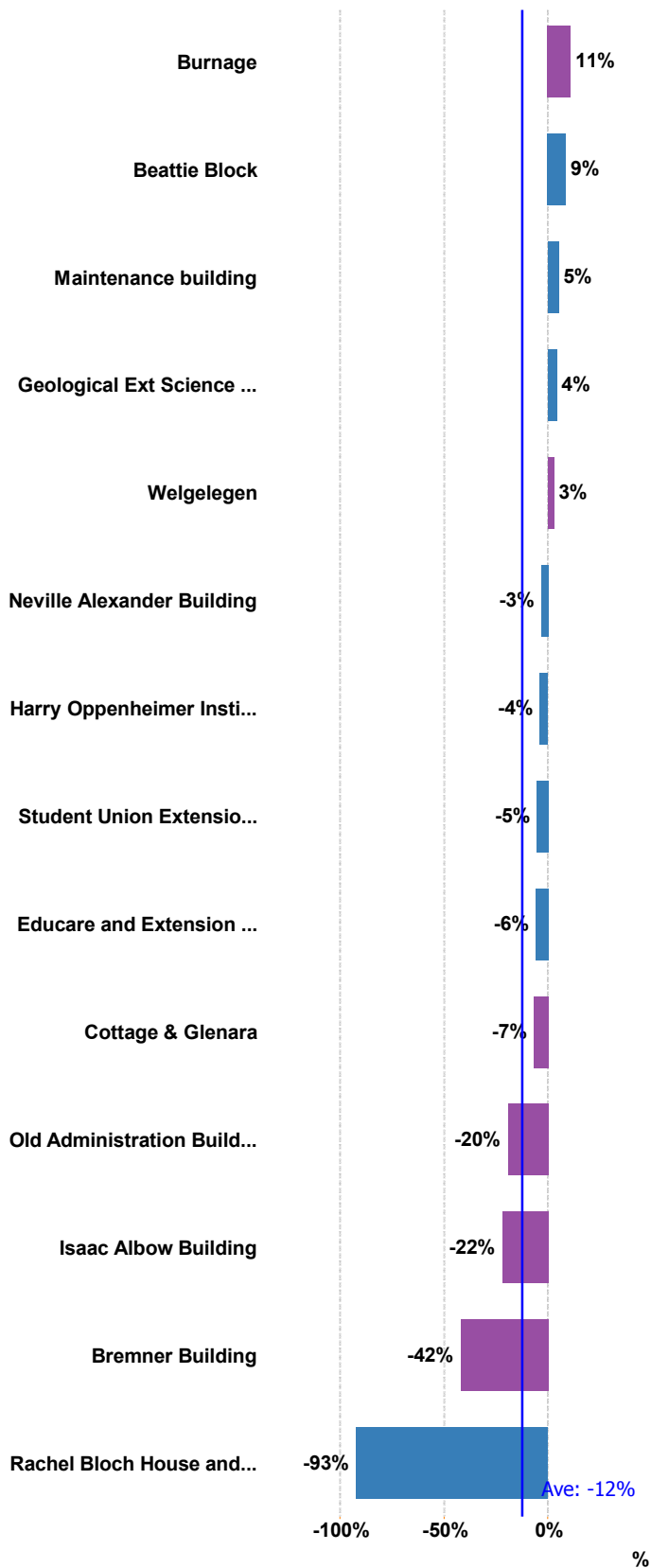| Venue	kVA
Molecular	744
PD Hahn	550
Chemical Engineering	448
Kramer	412
Jagger,Oppenheimer,...	381
New Engineering Buil...	376
Zoology	365
Menzies	364
Robert Leslie Comme...	344
H W Pearson BLDG, ...	308
School Of Music	252
Computer Science	245
Leslie Social Sciences	240
School of Economics	168
New Snape	158
RW James and Physics	96
Centilevers	95
Hoerikwaggo	91
Masengene	70
New Lecture Theatre	64
SLC and Upalong	59
Environmental & Geo...	58
Electrical and Mecha...	56
Maths Block	53
New Science Lecture ...	53
AC Jordan Building 1	46
New PC Lab and Beat...	26
Geological Science B...	15
School Of Ballet	10
Mechanical Engineering	8
Lovers Walk Houses	1

Ave: 187

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.
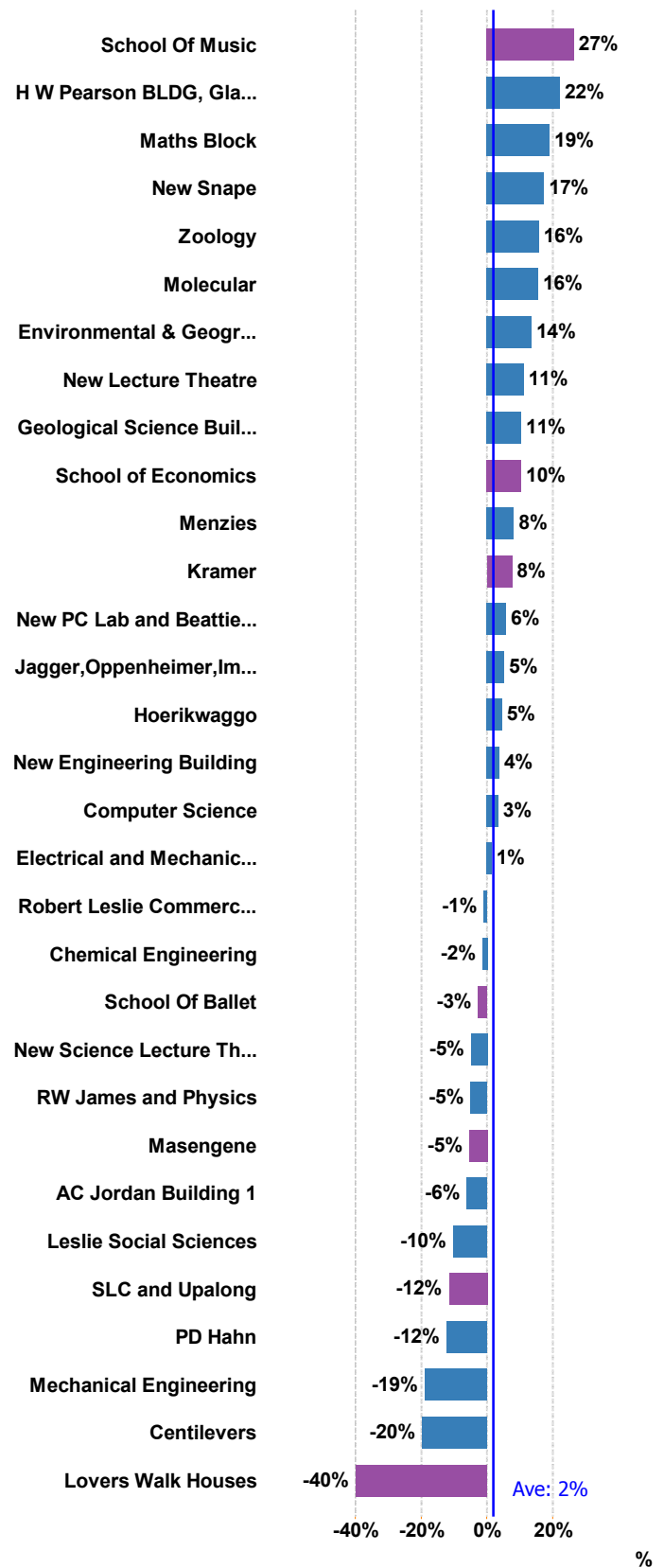
TERRA FIRMA SOFTWARE

Report Period: Jan 2018

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

OFFICE

Building	Change
Burnage	11%
Beattie Block	9%
Maintenance building	5%
Geological Ext Science ...	4%
Welgelegen	3%
Neville Alexander Building	-3%
Harry Oppenheimer Insti...	-4%
Student Union Extensio...	-5%
Educare and Extension ...	-6%
Cottage & Glenara	-7%
Old Administration Build...	-20%
Isaac Albow Building	-22%
Bremner Building	-42%
Rachel Bloch House and...	-93%

Ave: -12%

LECTURE VENUE

Venue	Change
School Of Music	27%
H W Pearson BLDG, Gla...	22%
Maths Block	19%
New Snape	17%
Zoology	16%
Molecular	16%
Environmental & Geogr...	14%
New Lecture Theatre	11%
Geological Science Buil...	11%
School of Economics	10%
Menzies	8%
Kramer	8%
New PC Lab and Beattie...	6%
Jagger,Oppenheimer,Im...	5%
Hoerikwaggo	5%
New Engineering Building	4%
Computer Science	3%
Electrical and Mechanic...	1%
Robert Leslie Commerc...	-1%
Chemical Engineering	-2%
School Of Ballet	-3%
New Science Lecture Th...	-5%
RW James and Physics	-5%
Masengene	-5%
AC Jordan Building 1	-6%
Leslie Social Sciences	-10%
SLC and Upalong	-12%
PD Hahn	-12%
Mechanical Engineering	-19%
Centilevers	-20%
Lovers Walk Houses	-40%

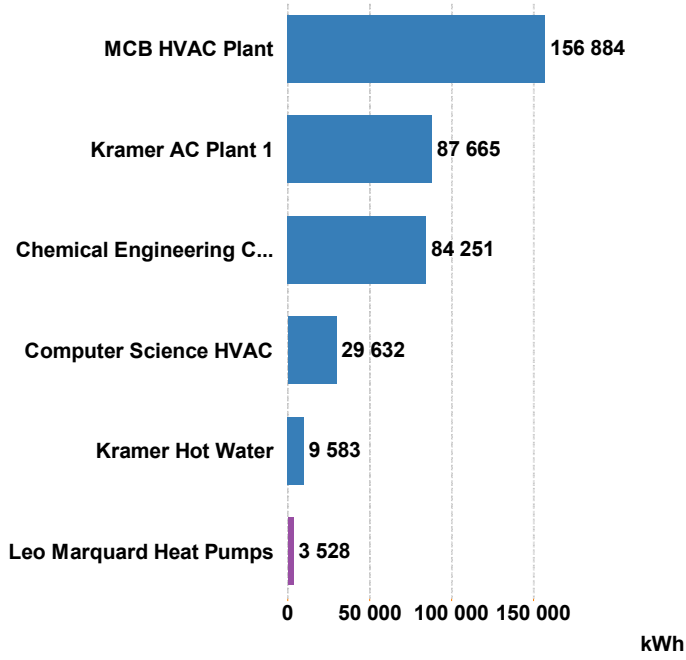Ave: 2%

The figures above compare maximum demand values from last month to this month, as a percentage. A positive number shows an increase in maximum demand, and a negative number shows an decrease in maximum demand.
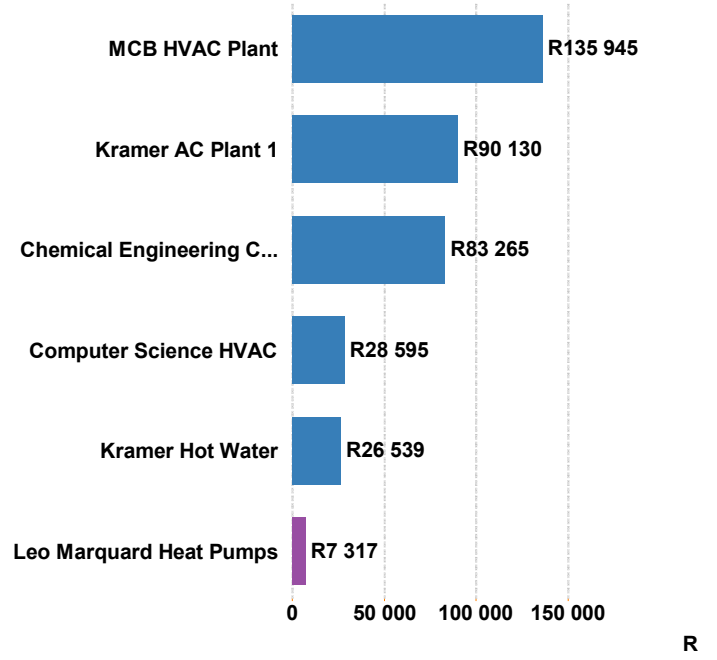
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Report Period: Jan 2018

HVAC and Water Heating (kWh)

Plant	kWh
MCB HVAC Plant	156 884
Kramer AC Plant 1	87 665
Chemical Engineering C...	84 251
Computer Science HVAC	29 632
Kramer Hot Water	9 583
Leo Marquard Heat Pumps	3 528

kWh

HVAC and Water Heating (R)

Plant	R
MCB HVAC Plant	R135 945
Kramer AC Plant 1	R90 130
Chemical Engineering C...	R83 265
Computer Science HVAC	R28 595
Kramer Hot Water	R26 539
Leo Marquard Heat Pumps	R7 317

R

Generator Monthly Energy Usage (kWh)

No data to display