

# Annual Energy Report 2012/13

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# 2012/13 Energy Report

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# **Executive Summary**

The University has published an annual report showing trends in our energy and water usage every year since 1998. With the increasing attention on carbon emissions, some elements of this report have now been subsumed within the University's Carbon Management Plan (CMP). However, we will continue to produce the Energy and Water Report to allow direct comparison on the key areas of utility consumption and costs with earlier years.

#### **External drivers:-**

- floor area was up by 7% over the last two years
- Cold weather during 2012/13 would have predicted a rise of 11% in energy consumption

#### **Key statistics:-**

- **Energy costs**, excluding taxes, rose 16% to £11.8 million in 20012/13, or £13.7 million including taxes.
- **Energy consumption** rose by 7.3%, largely as a result of increased gas usage caused by the unusually cold weather. Our energy consumption is now 1.6% lower than 2005/6 if new buildings are excluded.
- Overall emissions of **carbon dioxide** from all energy sources were down by 5.6%, aided by the introduction of new emission factors this year. Excluding buildings constructed since 2005/6, our emissions were 57,468 Tonnes.
- **Water usage** decreased by 2% to 823,703 cubic metres; our consumption peaked at 925,520 cubic metres per annum back in 2004/5



Note that most figures relate to the University's financial year of August 1st 2011 to July 31st 2013, with the baseline for comparison being the previous (2011/12) financial year. Utilities continue to be procured via Notice Ltd, which is a wholly owned subsidiary of the University of Nottingham.

# Section 1 – Total Energy Report

#### 1.A. - Energy and Water Costs Summary

Expenditure on energy and water was up by 16% to £11.8 million in 20012/13, or £13.7 million including taxes. Some of this was driven by increases in consumption due to the much colder weather – gas usage rose by 11%, but energy prices were up significantly again. Gas prices were up by 13% and electricity typically 9%, with standing charges again rising much faster than inflation. Water costs were up by 4% in the year.

We have managed to minimise our exposure to these rises through our strategy of flexible energy purchasing – this has allowed us to time our energy purchases and obtain relatively good prices compared to fixing prices on annual contracts. Savings of around £0.5million have still been achieved in each of the last two years, despite the energy markets being on a generally upward trend.

Energy and Water Costs				Change
	2010/11	2011/12	2012/13	'11/12 to '12/13
University Park	£ 5,033,602	£ 5,623,953	£ 6,350,320	13%
Sutton Bonington	£ 1,392,711	£ 1,592,272	£ 1,819,106	14%
Jubilee Campus	£ 810,022	£ 944,684	£ 1,094,625	16%
Others	£ 635,438	£ 630,104	£ 694,888	10%
Medical School	£ 1,310,000	£ 1,414,000	£ 1,868,700	32%
Total	£ 9,181,773	£10,205,013	£11,827,640	16%

Figure 1.A.1 Table of energy and water costs for last 3 years split by campus.

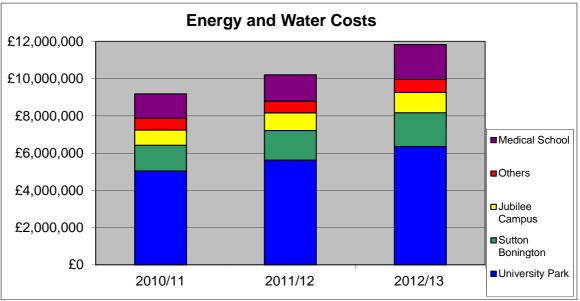


Figure 1.A.2 Graph of net energy and water costs for the last 3 years split by campus.

Note that these figures exclude VAT and Climate Change Levy, which are discussed on page 4.

#### **1.B.** – Utility costs per square metre for each Campus

Campus Costs		Cost/sq.m/annum			
	Floor Area	Electricity	Heating	Water	Total
University Park	331,486	£10.55	£5.44	£3.17	£19.16
Sutton Bonington	73,496	£13.94	£7.51	£3.30	£24.75
Jubilee Campus	75,212	£8.14	£3.67	£2.74	£14.55
Others	70,830	£4.70	£4.02	£1.08	£9.81
Medical School	75,536	£8.01	£15.37	£1.37	£24.74
Total	626,560	£9.69	£6.51	£2.68	£18.88

Figure 1.B.1 Table of energy costs per square metre, split by campus.

The overall floor area increased by 3.5% from 2011/12.

Note that if taxes (VAT and CCL, see below) are taken into account, our average utility costs are now £21.80 per square metre per annum.

# 1.C - Climate Change Levy (CCL) and VAT

VAT costs paid by Notice Ltd on energy bills rose to  $\pm 1.47$  million in 2012/13, and CCL was up to  $\pm 361,000$ , meaning that our energy taxes were up by 15% year on year.

The Climate Change Levy (CCL) was introduced in April 2001. On April  $1^{st}$  2013 the rates rose 2.8% to 0.182p/kWh on gas and 3.0% to 0.524p/kWh on the electricity costs of all non-residential properties.

If the taxes were included in the total expenditure on utilities the totals can be seen below:-

		2012/13					
	Electricity	Fossil Fuels	Water	Totals	Totals		
Utility Costs	£ 6,070,434	£ 4,077,072	£ 1,680,134	£11,827,640	£10,205,013		
Climate Change Levy	£ 248,779	£ 111,915	-	£ 360,694	£358,842		
Value Added Tax	£ 864,447	£ 608,647	-	£ 1,473,094	£1,233,558		
Tota	£ 7.183.660	£ 4,797,634	£ 1.680.134	£13.661.428	£11.797.412		

Figure 1.C.1 Table of energy and water costs including Climate Change Levy and Value Added Tax.

<b>Energy and Water Costs</b>				
2012/13	Electricity	Fossil Fuels	Water	Total
University Park	£ 3,495,825	£ 1,803,024	£ 1,051,472	£ 6,350,320
Sutton Bonington	£ 1,024,801	£ 551,936	£ 242,369	£ 1,819,106
Jubilee Campus	£ 611,983	£ 276,323	£ 206,320	£ 1,094,625
Others	£ 333,025	£ 285,090	£ 76,773	£ 694,888
Medical School	£ 604,800	£ 1,160,700	£ 103,200	£ 1,868,700
Total	£ 6,070,434	£ 4,077,072	£ 1,680,134	£11,827,640

#### 1.D - 2012/2013 Net Costs Broken Down by Campus and Utilities

Figure 1.D.1 Table of energy and water costs split by campus and by utility

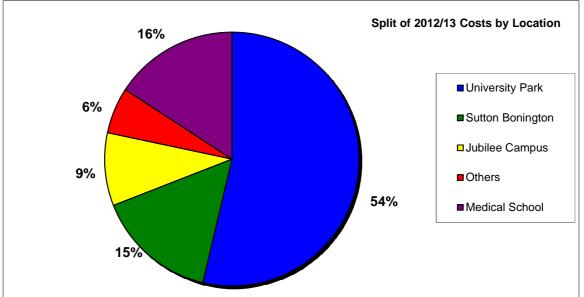


Figure 1.D.2 Chart of energy and water costs split by campus

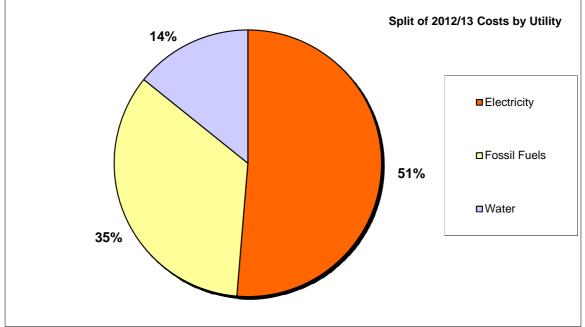


Figure 1.D.3 Chart of energy and water costs split by utility type

## 1.E - Energy Use Summary

The overall consumption of energy rose by 7.3%, largely as a result of increased gas usage caused by the unusually cold weather. Gas consumption was up by 11%, but this was actually an efficiency improvement as the weather alone would have indicated rise of 18% (see section 3.C). Floor area was also up by 3.5% in the year, on top of a similar rise of 3.5% the previous year.

As reported in section 2.A, electricity usage was up 2.2%, but if new buildings are excluded, a fall of 1.1% was achieved.

Section 3.D shows that new buildings added since 2005/6 are responsible for 9.9% of our energy consumption. Excluding these buildings, our energy consumption would be 195,058MWh compared to 191,905MWh in 2005/6 - a reduction of 1.6% - and 2012/13 was 11% colder than 2005/6.

Energy Consumption	MWh	MWh	MWh MWh	
	2010/11	2011/12	2012/13	'11/12 to '12/13
University Park	112,818	109,770	113,056	3.0%
Sutton Bonington	29,032	28,205	33,415	18.5%
Jubilee Campus	13,635	14,547	17,315	19.0%
Others	13,374	12,746	14,201	11.4%
Medical School	32,520	34,508	36,329	5.3%
Tota	<b>I</b> 201,380	199,776	214,315	7.3%

Figure 1.E.1 Table of energy usage for the last 3 years split by campus.

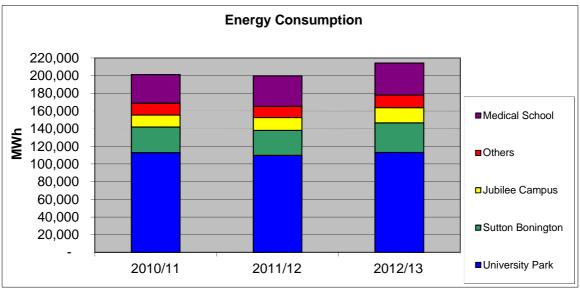


Figure 1.E.2 Graph of energy consumption for the last 3 years split by campus

Energy Consumption	MWh	MWh	MWh
2012/2013	Electricity	Fossil Fuels	Total
University Park	46,022	67,034	113,056
Sutton Bonington	13,277	20,138	33,415
Jubilee Campus	7,605	9,710	17,315
Others	4,537	9,663	14,201
Medical School	9,457	26,872	36,329
Tota	I 80,898	133,417	214,315

#### 1.F - Energy Use Breakdown by Campus and Utilities

Figure 1.F.1 Table of energy consumption split by campus and by utility

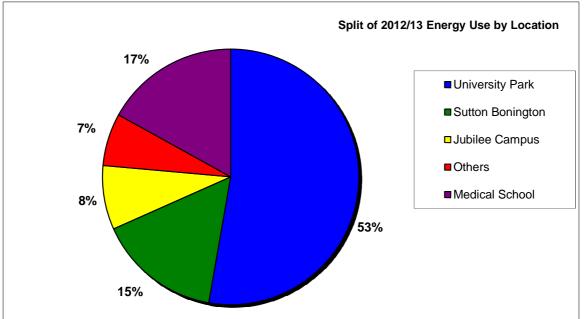
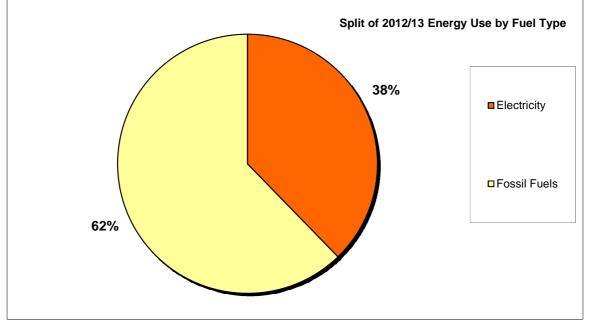


Figure 1.F.2 Pie chart of energy consumption split by campus



*Figure 1.F.3 Pie chart of energy consumption split by utility type.* Note: Our 'fossil fuels' are over 99% gas

	2009/10	2010/11	2011/12	2012/13	Change
Floor Area (sq.m.)	577,871	584,617	605,328	626,560	3.5%
Annual Energy Usage (MWh)	204,028	201,380	199,776	214,315	7.3%
Energy Usage Per sq. m. (kWh/m2)	353	344	330	342	3.6%

#### **1.G - Energy Usage and Cost Comparison with Gross Premises Area**

Figure 1.G.1 Table of last four years energy usage and floor area.

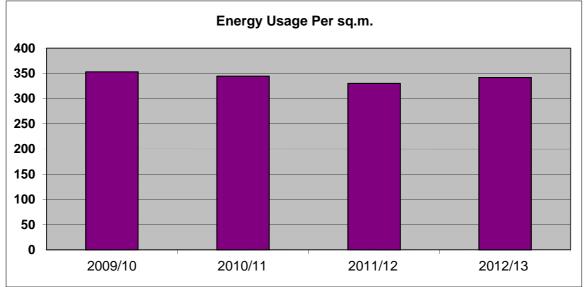


Figure 1.G.2 Graph of last four years energy usage per unit floor area.

Note that energy consumption was 425kWh/  $m^2$  back in 2004/5, and still at 396 kWh/m² in 2007/8.

	2009/10	2010/11	2011/12	2012/13	Change
Floor Area (sq.m.)	577,871	584,617	605,328	626,560	3.5%
Gross Energy and Water Costs	£ 9,333,000	£10,627,000	£11,797,000	£13,661,428	15.8%
Utility Cost Per sq. m.	£ 16.15	£ 18.18	£ 19.49	£ 21.80	11.9%

*Figure 1.G.3 Table of last four year gross energy and water costs and floor area (excluding taxes).* 

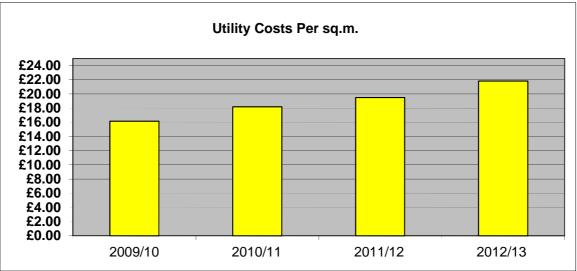


Figure 1.G.4 Graph of last four years energy and water costs normalised by floor area.

#### 1.H - Energy Usage and Cost per UK Student

	2009/10	2010/11	2011/12	2012/13	Change
UK Student Numbers	32,044	32,999	34,076	33,944	-0.4%
Annual Energy (MWh)	204,028	201,380	199,776	214,315	7.3%
Energy / Student (kWh)	6,367	6,103	5,863	6,314	7.7%

Figure 1.H.1 Table of last four years energy usage and all student numbers.

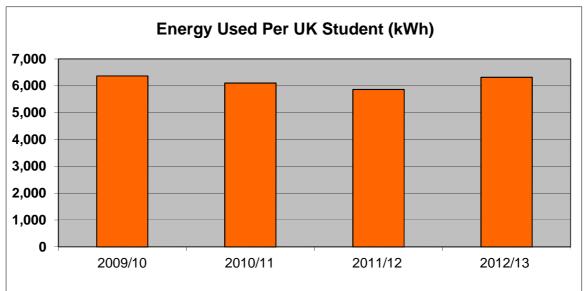


Figure 1.H.2 Graph of last four years energy usage per UK student.

	2009/10	2010/11	2011/12	2012/13	Change
UK Student Numbers	32,044	32,999	34,076	33,944	-0.4%
Energy and Water Costs	£ 9,333,000	£10,627,000	£11,797,000	£13,661,428	15.8%
Utility Costs / Student	£ 291.26	£ 322.04	£ 346.20	£ 402.47	16.3%

*Figure 1.H.3 Table of last four years gross energy and water costs and full-time student numbers.* 

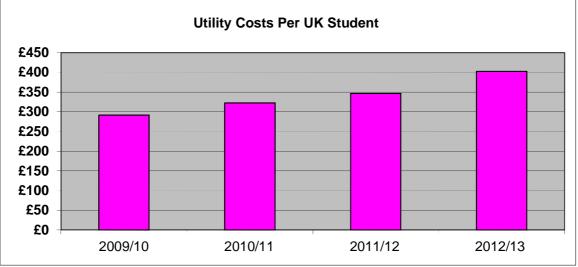


Figure 1.H.4 Graph of last four years gross energy and water costs per UK student.

Note: The statistics on student numbers exclude students not currently studying in Nottingham.

## 1.I - Utility Costs as a Proportion of University Expenditure

%age of Expenditure									Change
(£ 000)		2009/10		2010/11		2011/12		2012/13	
Utility Costs inc. taxes	£	9,333	£	10,627	£	11,797	£	13,661	15.8%
University Expenditure	£	474,600	£	479,000	£	500,300	£	539,400	7.8%
Percentage		1.97%		2.22%		2.36%		2.53%	7.4%

Figure 1.I.1 Table of last four years gross energy and water costs (including taxes) and total University expenditure.

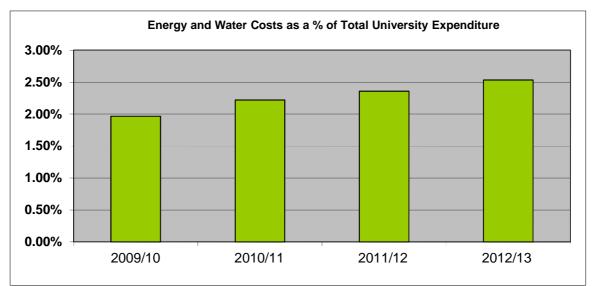


Figure 1.I.2 Graph of last four years gross energy and water costs normalised by total University turnover.

# 1.J – The Carbon Reduction Commitment Energy Efficiency Scheme

Costs from the CRC Energy Efficiency Scheme are not included in the other figures in this report, because the scheme operates on an April to March year, costs are not levied on utility bills, and the Scheme operates on a slightly different subset of properties. However, the results of the second full year of the scheme (April 2012 to March 2013) are listed below.

Under the Scheme, our emissions were reported as 55,796 Tonnes of CO2 (up from 51,276 in the previous reference, or 'footprint' year). Each tonne of CO2 emitted needs to be covered by an 'allowance', which costs £12. The University therefore purchased 55,796 allowances for a cost of £669,552.

Note that this cost, averaged out across our total energy consumption, equates to 0.312p/kWh.

# 1.K – Energy Costs Comparison to Russell Group Universities – 2011/12

The statistics in the next four tables provide a range of comparators to other major Universities, as reported in the EMS returns for 2011/12. Note that this is the most recent year where data is available for comparison, but runs one year behind the other information presented in this report.

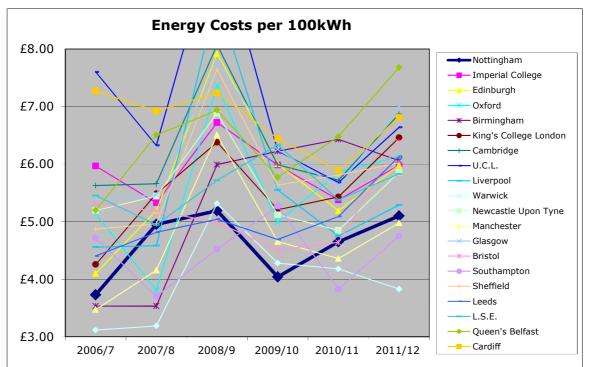


Figure 1.K.1 Graph of Russell Group Energy Costs per 100kWh.

The two graphs on this page indicate that as of last year, the University of Nottingham still enjoyed low energy prices compared to the Russell Group.

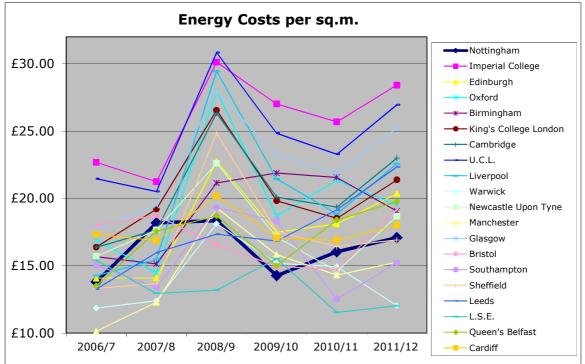
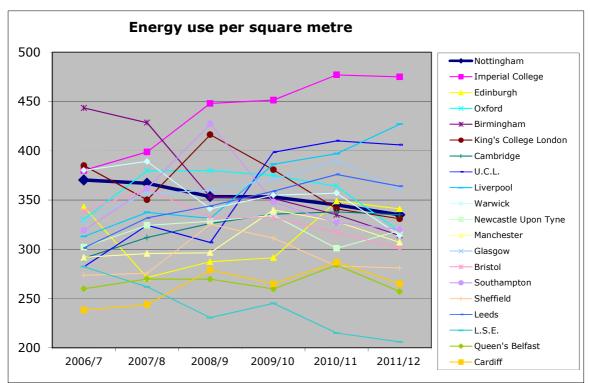


Figure 1.K.2 Graph of Russell Group Energy Costs square metre



1.L – Energy Efficiency Comparison to Russell Group Universities – 2011/12

Figure 1.L.1 Graph of Russell Group Energy use per square metre.

The graphs on this page indicate that Nottingham's energy consumption per square metre and energy use per student are still mid-range within the Russell Group, and are slowly improving.

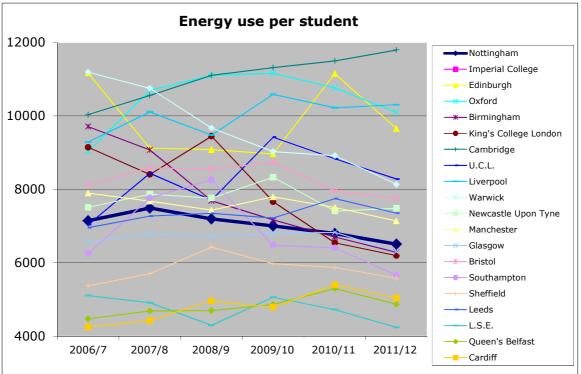


Figure 1.L.1 Graph of Russell Group Energy use per student (note Imperial is off the top of the scale at around 16,000kWh/student).

# Section 2 – Electricity, Gas and Water data

## 2.A - Electricity Consumption

Electricity consumption was up by 1,733MWh, or 2.2%. New buildings added 2,530MWh to the total (see appendix 4.A), meaning that in the older buildings a reduction of 1.1% was achieved (797MWh against a base of 72,741MWh).

Of the new buildings, the Orchard Hotel added 902MWh, the Energy Technologies Building 532MWh, Aerospace 175MWh and the Si Yuan Centre 92MWh – a total of 1,701MWh. Several other buildings completed in 2011/12 showed increases as they reached full occupancy.

Progress is being made in this area as overall electricity consumption was 79,401MWh back in 2008/9, meaning that consumption increases including all new buildings, etc. have been kept to just 1.9% in the last four years.

<b>Electricity Consumption</b>	MWh	MWh	MWh	Change
	2010/11	2011/12	2012/13	'11/12 to '12/13
University Park	44,487	45,058	46,022	2.1%
Sutton Bonington	11,516	12,557	13,277	5.7%
Jubilee Campus	7,153	7,323	7,605	3.9%
Others	5,514	4,585	4,537	-1.0%
Medical School	9,587	9,642	9,457	-1.9%
Total	78,258	79,165	80,898	2.2%

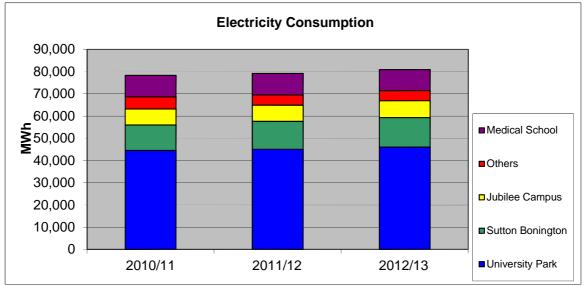


Figure 2.A.1 Table of electricity usage for the last 3 years split by campus.

Figure 2.A.2 Graph of electricity usage for the last 3 years split by campus.

See Appendix A for a detailed breakdown of consumption on an account by account basis.

## 2.B - Electricity Costs

The University continued with the flexible purchasing policy first adopted in October 2005, by renewing our contract with GDF Suez Energy in February 2013. This policy allows us to buy electricity when we feel the market price is good value.

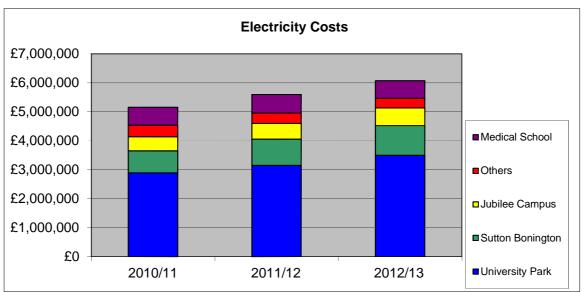
During the period, market electricity prices for large annual contracts (baseload energy only) have been remarkably stable compared to recent years, with just one significant fluctuation, a drop from around 5.4p/kWh to around 5.2p/kWh in April 2013.

At University Park, the average price paid per kWh of electricity across the year including all standing charges, rose from 6.99p/kWh in 2011/12 to 7.59p/kWh, a rise of 8.6%. As the raw energy price we paid fell by 1.6%, this shows that standing charges levied by the electricity industry were up by around 10%. One example of this is the charge to pay for the feed in tariff, which now stands at 0.335p/kWh, or £270,000 in total per annum.

The University's 'sub-100kW' sites (representing 36 smaller properties, such as the sports grounds) was tendered back in February 2012, and the contract was won by Southern Electric with prices reduced by 4%. Unit rates are now typically 10.11p/kWh for day units and 5.81p/kWh for night units and 8.95 p/kWh for evening and weekend units.

Electricity Costs								Change
			2010/11		2011/12		2012/13	'11/12 to '12/13
University Park		£	2,887,877	£	3,152,484	£	3,495,825	11%
Sutton Bonington		£	765,066	£	905,438	£	1,024,801	13%
Jubilee Campus		£	487,501	£	542,007	£	611,983	13%
Others		£	397,815	£	355,195	£	333,025	-6%
Medical School		£	615,000	£	640,000	£	604,800	-6%
	Total	£	5,153,259	£	5,595,124	£	6,070,434	8%

*Figure 2.B.1 Table of net electricity costs (excluding taxes) for the last 3 years split by campus.* 



*Figure 2.B.2 Graph of net electricity costs for the last 3 years split by campus.* 

# 2.C - Fossil Fuel Consumption

Consumption of fossil fuels rose by almost 11%, which was actually an impressive performance given the unusually cold winter. In a like-for like situation, the weather alone would have been responsible for an 18% increase in consumption. Additionally, total floor area increased by 3.5% in the year, so an efficiency gain of 10.7% was achieved overall.

A more detailed analysis of the figures shows a particularly impressive performance at University Park, as a result of a 13% year-on-year reduction at the Central Heating Station. This was achieved in the face of the cold weather as a result of a review of system settings plus work to reduce fume cupboard losses in Chemistry.

The increase at Sutton Bonington was largely down to the Main Boilerhouse figure being artificially low in 2011/12 as a result of the gas meter under-recording. The rise at Jubilee Campus was down to new buildings coming on-line.

Fossil Fuel Consumption	MWh	MWh	MWh	Change
	2010/11	2011/12	2012/13	'11/12 to '12/13
University Park	68,331	64,712	67,034	3.6%
Sutton Bonington	17,516	15,649	20,138	28.7%
Jubilee Campus	6,482	7,223	9,710	34.4%
Others	7,860	8,161	9,663	18.4%
Medical School (Steam)	22,933	24,866	26,872	8.1%
Total	123,122	120,611	133,417	10.6%

Figure 2.C.1 Table of fossil fuel usage for the last 3 years split by campus.

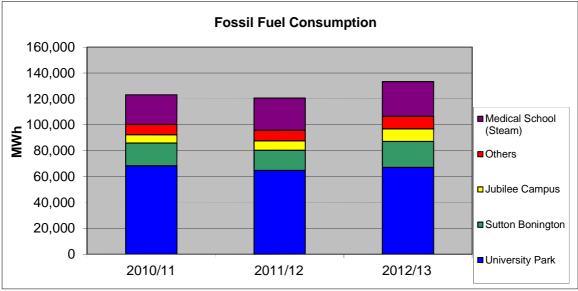


Figure 2.C.2 Graph of fossil fuel usage for the last 3 years split by campus.

See Appendix B for additional information showing a detailed breakdown of consumption on each account.

#### 2.D - Fossil Fuel Costs

The University continued with the flexible purchasing policy first adopted in October 2005, by renewing our contract with GDF Suez Energy in February 2013. This meant that we were able to continue to purchase gas in monthly tranches at opportune times, or use the day-ahead market.

During the period, gas prices for large annual contracts (energy only) have remained within a fairly narrow band of 2.1p/kWh to 2.4p/kWh, but have shown surprising volatility within that band. Generally, prices remained surprisingly high and, unlike electricity, offered little obvious value throughout the period.

Overall, the average price paid per unit across the year (including transportation charges) rose substantially, from 2.42p/kWh to 2.73p/kWh, an increase of 13%. This is on top of a 26% increase in unit costs last year, and 25% the year before that. Costs at the Medical School – actually a pass-through charge for steam rather than gas – disproportionately affected the overall figures below.

Fossil Fuel Costs							Change
		2010/11	2011/12		2012/13		'11/12 to '12/13
University Park	£	1,269,972	£	1,537,595	£	1,803,024	17%
Sutton Bonington	£	354,493	£	401,121	£	551,936	38%
Jubilee Campus	£	133,947	£	182,951	£	276,323	51%
Others	£	175,178	£	211,246	£	285,090	35%
Medical School (Steam)	£	573,000	£	660,000	£	1,160,700	76%
Total	£	2,506,590	£	2,992,912	£	4,077,072	36%

Figure 2.D.1 Table of net fossil fuel costs(excluding VAT and CCL) for the last 3 years split by campus.

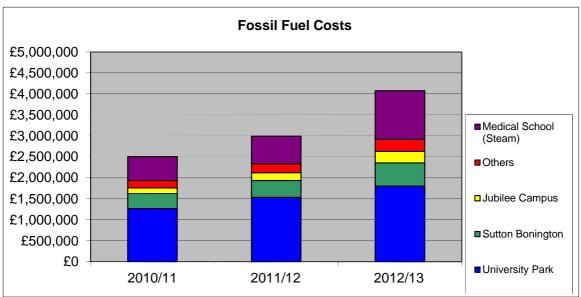


Figure 2.D.2 Graph of net fossil fuel costs for the last 3 years split by campus.

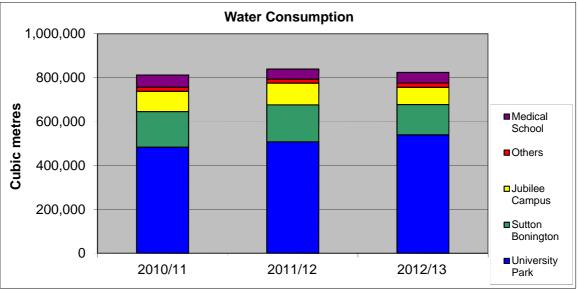
## 2.E - Water Consumption

An overall reduction of 2% was achieved in water consumption, with significant reductions at Sutton Bonington and Jubilee Campus. The situation at University Park would also have been considerably better but for a large burst of 15,000 cubic metres that occurred on December  $21^{st} 2012$ .

A system of twelve internal water meters was installed at Sutton Bonington on our own water mains network by our building surveyors team in the Spring of 2013. This is linked to our Elcomponent sub-metering system and now provides half-hourly data on water movements within our network. This system will significantly aid in early diagnosis of leaks, and is being replicated at University Park in the Autumn of 2013.

Water Consumption		cubic m.	cubic m.	cubic m.	Change
		2010/11	2011/12	2012/13	'11/12 to '12/13
University Park		483,105	507,199	539,502	6%
Sutton Bonington		161,700	169,280	138,312	-18%
Jubilee Campus		93,491	98,213	78,425	-20%
Others		18,308	18,557	19,290	4%
Medical School		56,088	46,009	48,175	5%
T	<b>Fotal</b>	812,692	839,258	823,703	-2%

Figure 2.E.1 Table of water usage for the last 3 years split by campus.



*Figure 2.E.2 Graph of water usage for the last 3 years split by campus.* 

See Appendix C for a detailed breakdown of consumption on an account by account basis.

## 2.F - Water Costs

Severn Trent Water's annual price rises occur in April of each year, and in 2013 were more modest than recent years, which have averaged around 5%.

The price of water supplied increased by 0.8% in April 2013, up from 101.62 p/m<sup>3</sup> to 102.46p/m<sup>3</sup> in summer for large sites such as University Park. The winter rate for large sites was up by the same percentage, from  $54.44/m^3$  to  $54.89 p/m^3$ . Rates for used water at large sites were up 1.7%, from  $89.41p/m^3$  to  $89.41 p/m^3$ . Charges for the surface water drainage element, which is based on site area, were up by 3.0% from £111,691 per annum to £114,996.

Water Costs							Change
		2010/11		2011/12		2012/13	'11/12 to '12/13
University Park	£	875,753	£	933,874	£	1,051,472	13%
Sutton Bonington	£	273,151	£	285,713	£	242,369	-15%
Jubilee Campus	£	188,573	£	219,726	£	206,320	-6%
Others	£	62,445	£	63,663	£	76,773	21%
Medical School	£	122,000	£	114,000	£	103,200	-9%
Tota	l £	1,521,922	£	1,616,976	£	1,680,134	4%

*Figure 2.F.1 Table of water costs for the last 3 years split by campus.* 

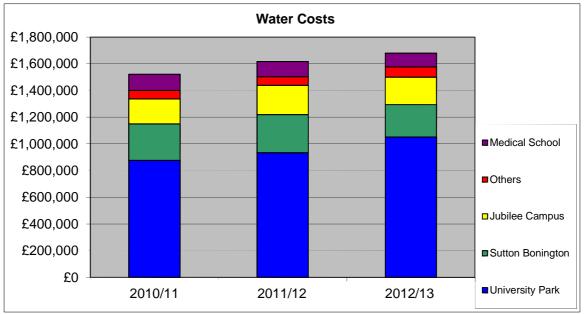


Figure 2.F.2 Graph of water costs for the last 3 years split by campus.

# Section 3 – Environmental Considerations

## 3.A - Carbon Dioxide Emissions

The University's Carbon Management Plan introduced ambitious targets to reduce emissions by 34% by 2020 compared to a 2005/6 baseline. Achieving this will necessitate annual reductions in carbon dioxide emissions of around 1,400 Tonnes per annum over the whole period. The baseline was 62,036 Tonnes, with the target for 2020 being 41,000 Tonnes.

Carbon dioxide emissions for 2012/13 showed a reduction of over 5% as the emission factors were reduced following guidance from DEFRA and Salix. Note that energy consumption rose by 7%, on account of the colder weather, and floor area increased by 3.5%. If new buildings constructed since 2005/6 are removed from the figures, then our emissions were 57,468 Tonnes.

The emission factors used in the report are summarised in the table below:-

CO <sub>2</sub> Emission Factors	2010/11	2011/12	2012/13
Electricity kg/kWh	0.541	0.541	0.48357
Gas kg/kWh	0.204	0.204	0.18404

Figure 3.A.1 Table of CO<sub>2</sub> emission factors for the last 3 years.

CO <sub>2</sub> Emissions	Tonnes	Tonnes	Tonnes	Change
	2010/11	2011/12	2012/13	'11/12 to '12/13
University Park	38,007	37,578	34,592	-7.9%
Sutton Bonington	9,804	9,964	10,103	1.4%
Jubilee Campus	5,192	5,430	5,454	0.4%
Others	4,587	4,161	3,994	-4.0%
Medical School	9,865	10,289	9,519	-7.5%
Total	67,454	67,422	63,660	-5.6%

Figure 3.A.2 Table of  $CO_2$  emissions for the last 3 years split by campus.

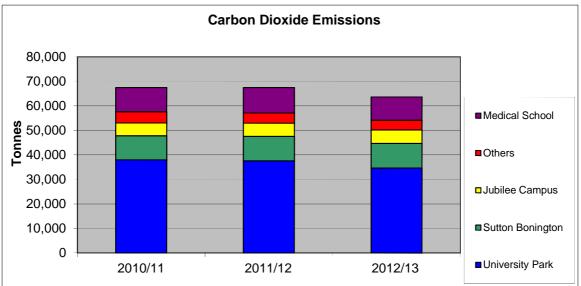


Figure 3.A.3 Graph of  $CO_2$  emissions for the last 3 years split by campus.

CO2 Emissions	Tonnes	Tonnes	Tonnes	Prop'n	Prop'n
2012/2013	Electricity	<b>Fossil Fuels</b>	Total	Elec	Gas
University Park	22,255	12,337	34,592	64%	36%
Sutton Bonington	6,420	3,682	10,103	64%	36%
Jubilee Campus	3,678	1,776	5,454	67%	33%
Others	2,194	1,800	3,994	55%	45%
Medical School	4,573	4,946	9,519	48%	52%
Total	39,120	24,540	63,660	61%	39%

#### 3.B - Carbon Dioxide Emissions Breakdown by Campus and Utilities

*Figure 3.B.1 Table of CO*<sub>2</sub> *emissions split by campus and by utility* 

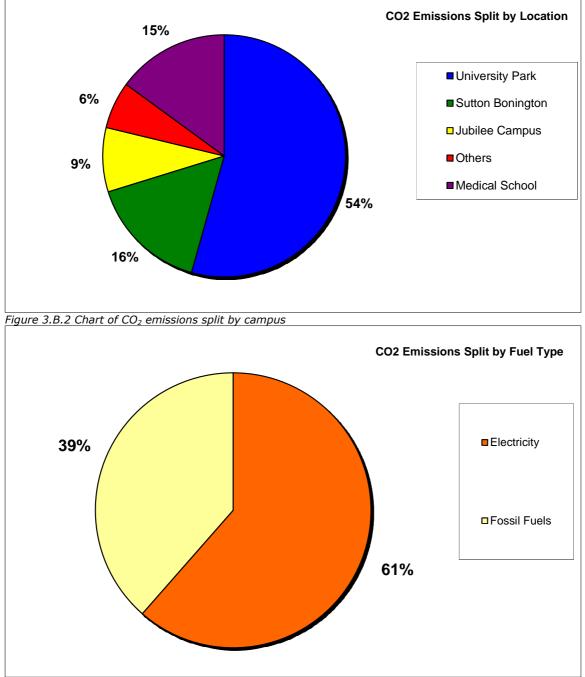


Figure 3.B.3 Chart of CO<sub>2</sub> emissions split by source fuel type

## 3.C - Weather Data – Degree Days

This financial year was surprisingly cold overall, with a consistently chilly Autumn, and a cold winter that only ended after a particularly freezing March. Overall, the year was about 12% colder than typical, but 24% colder than 2011/12, which had been particularly mild.

Degree days are determined by comparing the mean daily temperature to a set temperature, in this case 15.5 Celsius. For instance, a day where the outside temperature averaged 5.0C would be counted as 10.5 degree days. The values are summated over a calendar month and the total provides a reasonably accurate guide as to the relative heating load that should be required. For the purposes of this report, 75% of the change in degree days has been used, as production of domestic hot water typically accounts for about 25% of usage.

2012/13	Deg. Days	Deg. Days	Deg. Days	Deg. Days	'11/12 to'12/13
	20 Yr Avg	2010/11	2011/12	2012/13	Change
Aug	34	42	38	23	-39.5%
Sep	74	69	39	95	143.6%
Oct	159	165	101	190	88.1%
Nov	266	312	180	267	48.3%
Dec	339	487	297	332	11.8%
Jan	353	360	313	369	17.9%
Feb	304	245	324	353	9.0%
Mar	279	263	235	412	75.3%
Apr	212	124	251	238	-5.2%
Мау	134	104	143	154	7.7%
Jun	70	64	75	70	-6.7%
Jul	34	42	39	15	-61.5%
Total	2,258	2,277	2,035	2,518	23.7%
			Weather mod	lifier (75%)	17.8%

Figure 3.C.1 Table showing last three years monthly degree days and average degree days.

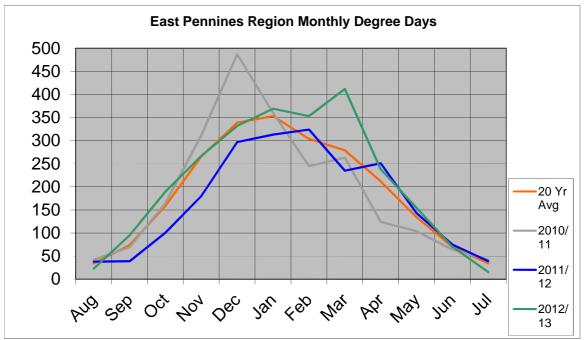


Figure 3.C.2 Graph showing last three years monthly degree days and average degree days

# 3.D - Changes since Base Year (2005/6)

The table below shows that new buildings have been responsible for 6,900 Tonnes of  $CO_2$  emissions during 2012/13. Our emissions for 2012/13 would have been 10.8% lower without the additions due to new-build.

	Units	University	New	% due to
		Total '12/13	Buildings	new build
2.A Electricity Consumption	MWh	80,898	8,954	12.4%
2.C Fossil Fuel Consumption	MWh	133,417	10,303	8.4%
1.E Energy Use Total	MWh	214,315	19,257	9.9%
2.E Water Consumption	cu.m.	823,703	34,288	4.3%
1.A Energy & Water Costs	£	£11,827,640	£384,567	3.4%
1.G Floor Area	m <sup>2</sup>	626,560	72,102	13.0%
		520,500	72,102	13.070
3.B Carbon emissions from elec.	tonnes	39,120	4,330	12.4%
3.B Carbon emissions from gas	tonnes	24,540	1,862	8.2%
3.A Total Carbon Emissions	tonnes	63,660	6,192	10.8%

Figure 3.D.1 Table showing effect of new buildings on key parameters.

A full breakdown of energy consumption in new buildings on a building-by-building basis is shown on the next page in Appendix 4A.

#### **3.E University Renewable Energy Generation**

Building	Туре	Annual Production
		(kWh)
Dearing	PV	8,491
Business Sch North	PV	18,257
Computer Sciences	PV	7,900
Derby Hall	PV	52,544
Lincoln Hall	PV	53,237
Si Yuan Chinese Studies	PV	9,200
Aerospace Technology	PV	12,600
Environmental Education Centre	PV	15,500
Sustainable Research Building	PV	7,600
	Total	185,329
Rutland & Sherwood Hall	Solar thermal	15,250
Si Yuan Chinese Studies	Solar thermal	2,225
Geospatial	Biomass	75,000
BioEnergy	Biomass	165,000
	Total	257,475

Figure 3.E.1 Table showing University renewable energy generation.

Note that the biomass production is included in the rest of the report as the fuel is ordered in from outside; solar generation is effectively hidden from the rest of the report as it takes place within the relevant buildings. A true figure for energy used in buildings should add back in the solar PV and solar thermal figure.

# Section 4 – Appendices

## 4.A - Appendix A – Buildings constructed since 2005/6

New Sites		2012/13	2012/13	2012/13	2012/13	2012/13	2012/13	Floor Area
Main Campus		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
Environmental Education Centre	1439	63,757	187,506	600	31	35	£11,457	1,424
Engineering Science Learning Cent	1661	354,741	770,000	820	172	142	£49,889	3,511
Humanities	1671	347,038	102,773	710	168	19	£30,812	4,303
Orchard Hotel	1681	902,315	1,206,256	9,900	436	222	£127,411	9,509
Mathematical Sciences	1561	390,286	771,000	800	189	142	£52,595	4,674
New eco-houses		50,000	2,424	200	24	0	£4,803	526
	Totals	2,044,380	2,852,453	12,430	989	525	£265,509	22,523
New Sites		2012/13	2012/13	2012/13	2012/13	2012/13	2012/13	Floor Area
Sutton Bonington		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	FIOOT Area
	5301	648,295	493,672	5,113	313	91		3,493
Bio-energy and Brewing Sciences	5781	048,295			0	91	£76,736	
Bio-energy BIOMASS	5781		165,000	0				0
Veterinary School	5721	1,588,281	2,074,007	6,000	768 408	382	£191,034	8,334
Gateway Building	5771	844,384	593,718	955		109	£83,344	3,253
Gustafson Glasshouse		70,385	243,693	200	34	45	£13,122	400
Sports Centre	5951	352,118	249,271	271	170	46	£37,662	2,450
Future Crop Glasshouses	5445	139,083	285,339	200	67	53	£19,113	312
	Totals	3,642,546	4,104,700	12,739	1,761	731	£428,611	18,242
New Sites		2012/13	2012/13	2012/13	2012/13	2012/13	2012/13	Floor Area
Jubilee Campus		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
6 Triumph Road	7405	66,267	45,332	299	32	8	£8,763	324
9 Triumph Road	7400	41,395	0	1,500	20	0	£18,889	399
Institute of Mental Health	7370	246,622	333,630	500	119	61	£31,497	3,074
Yang Fujia (International House)	7320	570,000	0	1,100	276	0	£45,852	3,400
Starbuck's Café	7305	80,000	20,070	50	39	4	£7,016	151
The Amenities Building	7330	323,178	584,453	2,400	156	108	£45,453	2,365
Nottingham Geospatial Bulding	7350	356,789	120,673	425	173	22	£31,891	2,944
Geospatial BIOMASS	7350	0	75,000	0	0	3		0
Sir Colin Campbell Building	7340	570,949	246,802	800	276	45	£52,475	4,534
Energy Technologies Building	7360	532,700	538,915	1,200	258	99	£61,171	3,177
Aerospace Technology Centre	7380	175,000	468,177	80	85	86	£27,729	1,934
Si Yuan Centre for Chinese Studies	7410	92,000	200,000	80	44	37	£13,202	2,078
Si fuan centre for chinese Studies	Totals	3,054,900	2,633,052	8,434	1,477	474	£13,202 £347,438	24,380
New Sites		2012/13	2012/13	2012/13	2012/13	2012/13	2012/13	Floor Area
Others		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	rioor Area
Clinical Sciences City Hosp Ph2	3325	86,727	86,727	49	42	16	£7,289	2,000
Derby School of Nursing	3571	84,015	300,000	49	42	55	£10,200	1,996
522 Derby Road	7420	3,000	95,705	0	41	18	£10,200 £5,578	950
	6931		,	236	0	18		
Unit 4 Easter Park	6314	0 38,741	84,805 145,506				£5,171	1,188
Vaughan Parry Williams Pav.			145.506	400	19	27	£8,891	823
				685	103	131	£37,129	6.957
	Totals	212,483	712,743	685	103	131	£37,129	6,957
New Sites				685 2012/13	103 2012/13	2012/13	£37,129 2012/13	6,957 Floor Area
		212,483	712,743					
New Sites		212,483 2012/13 Elec kWh	712,743 2012/13 Gas kWh	2012/13 Water m3	2012/13 Elec CO2	2012/13 Gas CO2	2012/13 Cost £	Floor Area
New Sites Main Campus		212,483 2012/13 Elec kWh 2,044,380	712,743 2012/13 Gas kWh 2,852,453	2012/13 Water m3 12,430	2012/13 Elec CO2 989	2012/13 Gas CO2 525	2012/13 Cost £ 265,509	Floor Area
New Sites Main Campus Sutton Bonington		212,483 2012/13 Elec kWh 2,044,380 3,642,546	712,743 2012/13 Gas kWh 2,852,453 4,104,700	2012/13 Water m3 12,430 12,739	2012/13 Elec CO2 989 1,761	2012/13 Gas CO2 525 731	2012/13 Cost £ 265,509 428,611	Floor Area 22,523 18,242
New Sites Main Campus		212,483 2012/13 Elec kWh 2,044,380	712,743 2012/13 Gas kWh 2,852,453	2012/13 Water m3 12,430	2012/13 Elec CO2 989	2012/13 Gas CO2 525	2012/13 Cost £ 265,509	Floor Area

Note that some of the buildings listed above have not yet been operational for a full year.

On these data tables, the following notes apply:-

- (1) University of Nottingham Innovation Park assets(2) East Midland Conference Centre Ltd assets

# 4.B - Appendix B – Electricity Data

	Electricity Invoices Main Campus		2012/13 kWh	2011/12 kWh	% change kWh	2012/13 £	2011/12 £	% change £	
	Main Campus HV Supply	1000	45,982,913	45,016,152	2%	£3,491,940	£3,148,334	11%	
	Lenton Lodge	2251	22,200	25,300	-12%	£2,050	£2,300	-11%	Jul 13 esto
	Lenton Eaves (UNSSC) (2)	1461	15,000	15,000	0%	£1,500	£1,500	0%	Jul 13 esto
	Lenton Eaves (UNSSC) (1)	1461	1,000	1,000	0%	£200	£200	0%	Jul 13 esto
	Redcourt Lodge	2222	400	600	-33%	£135	£150	-10%	Jul 13 esto
(2)	East Midlands Conference Centre	1481	1,603,466	1,456,251	10%				Inc. in 'Main Campus HV'
	Orchard Hotel	1681	902,315	0	-				Inc. in 'Main Campus HV'
	Conference Centre Cottage	1482	5,400	14,568	-63%				Inc. in 'Main Campus HV'
ĺ		Totals	46,021,513	45,058,052	2%	£3,495,825	£3,152,484	11%	
	Electricity Invoices		2012/13	2011/12	% change	2012/13	2011/12	% change	
	Sutton Bonington		kWh	kWh	kWh	£	£	£	
	Sutton Bonington Campus	6800	12,535,759	11,927,318	5%	958,370	846,773	13%	
	New Dairy	6500	630,000	500,000	26%	54,000	44,000	23%	Jul 13 esto
	Melton Lane Building A	5433	37,000	31,000	19%	3,400	2,900	17%	Jun & Jul 13 esto
	St.Michael's House (Flats 1-5)	6841	17,000	18,491	-8%	1,803	2,116	-15%	
	Bunny Park Farm	6860	13,200	10,970	20%	1,350	1,121	20%	
	St.Michael's Flats Nos 8&9	6843	9,776	8,829	11%	1,186	1,384	-14%	
	40 College Road	6811	6,600	7,112	-7%	700	748	-6%	Jul 13 esto
	24 College Road	6805	5,800	5,212	11%	560	572	-2%	Apr-Jul 13 esta
	50 College Road	6819	5,700	430	1226%	650	130	400%	Jul 13 est
	St.Michael's Close (Flats 10-15)	6840	5,600	5,700	-2%	800	700	400%	Jun & Jul 13 esta
	· · · · · · · · · · · · · · · · · · ·	6500		,					Jul 13 est
	New Dairy Herdsman's House	-	4,200	6,900	-39%	500	780	-36%	
	St.Michael's Flats Nos 6&7	6842	3,800	3,987	-5%	690	929	-26%	Jul 13 esto
	44 College Road	6814	2,000	5,428	-63%	300	615	-51%	Apr-Jul 13 esto
	Eviton House (68 College Road)	5891	650	19,112	-97%	170	1,794	-91%	Jul 13 esto
	45 College Road	6815	105	112	-7%	110	97	13%	
	Manor Farm NU Press 2	6910	0	2,884	-100%	0	279	-100%	Closed
	Manor Farm NU Press 1	6910	0	3,117	-100%	0	282	-100%	Closed
	Manor Farm Pump House Kingston	6910	0	0	-	109	110	-1%	
	Manor Farm Soar Irrigation Pump	6910	0	0	-	103	107	-4%	
	Total of 19 accounts	Totals	13,277,190	12,556,602	<b>C</b> 0/		COOF 400	13%	
		rotuic	13,211,130	12,550,002	6%	£1,024,801	£905,438	1370	
	Electricity Invoices Jubilee Campus		2012/13 kWh	2011/12 kWh	% change kWh	2012/13 £	2011/12 £	% change £	
	Electricity Invoices	7000	2012/13	2011/12	<mark>% change kWh</mark> -4%	2012/13	2011/12	% change £ 4%	
	Electricity Invoices Jubilee Campus		2012/13 kWh	2011/12 kWh	% change kWh	2012/13 £	2011/12 £	% change £	New building
	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply	7000	2012/13 kWh 5,817,989	<mark>2011/12 kWh</mark> 6,074,288	<mark>% change kWh</mark> -4%	2012/13 £ £448,189	<mark>2011/12 £</mark> £433,019	% change £ 4%	New building
	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd	7000 7000 7000 7000	2012/13 kWh 5,817,989 686,327	2011/12 kWh 6,074,288 76,161	<mark>% change kWh</mark> -4% 801%	<b>2012/13</b> £ £448,189 £63,668	2011/12 £ £433,019 £9,669	<mark>% change <u>£</u> 4% 558%</mark>	New building
!)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls	7000 7000 7000 7000	2012/13 kWh 5,817,989 686,327 658,680	2011/12 kWh 6,074,288 76,161 686,688	<mark>% change kWh</mark> -4% 801% -4%	<b>2012/13</b> £ £448,189 £63,668 £54,976	2011/12 £ £433,019 £9,669 £53,077	<mark>% change £</mark> 4% 558% 4%	New building
	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road	7000 7000 7000 7000	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000	<mark>% change kWh</mark> -4% 801% -4% 0%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700	<mark>% change £</mark> 4% 558% 4% 7%	New building
	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck': 6 Triumph Road 9 Triumph Road	7000 7000 7000 \$7301	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565	<mark>% change kWh</mark> -4% 801% -4% 0% -28% -29%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889	2011/12 £ £9,669 £53,077 £28,575 £8,700 £8,297	<mark>% change £</mark> 4% 558% 4% -7% -30% -5%	
1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion	7000 7000 7000 \$7301 7201	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000	% change           kWh           -4%           01%           -28%           -29%           0%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700	<mark>% change £</mark> 558% 4% 7% -30%	Jul '13 est
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building	7000 7000 7000 \$7301 \$7201 7340	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499	<mark>% change kWh</mark> -4% 801% -4% 0% -28% -29%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889	2011/12 £ £9,669 £53,077 £28,575 £8,700 £8,297	<mark>% change £</mark> 4% 558% 4% -7% -30% -5%	Jul '13 est Inc. in 'J.C. Main Supply'
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion	7000 7000 7000 \$7301 7201	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000	% change           kWh           -4%           01%           -28%           -29%           0%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889	2011/12 £ £9,669 £53,077 £28,575 £8,700 £8,297	<mark>% change £</mark> 4% 558% 4% -7% -30% -5%	Jul '13 est
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health	7000 7000 57000 57301 7201 7340 7370	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670	<b>2011/12</b> £ £433,019 £53,077 £28,575 £8,700 £8,297 £670	<mark>% change £</mark> 4% 558% 4% -7% -30% -5% 0%	Jul '13 estr Inc. in 'J.C. Main Supply'
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices	7000 7000 57000 57301 7201 7340 7370	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12	% change kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -           4%           -6%           -	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12	% change £ 4% 558% 4% -30% -5% 0% 13% % change	Jul '13 estr Inc. in 'J.C. Main Supply'
!) !)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others	7000 7000 \$7301 \$7201 7340 7370 <b>Totals</b>	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh	% change           kWh           -4%           801%           -4%           0%           -28%           0%           -29%           0%           -6%           -           -           % change           kWh	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £	<pre>% change £ 4% 558% 4% -30% -30% -5% 0% 13%</pre>	Jul '13 est Inc. in 'J.C. Main Supply'
)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 6 Triumph Road 7 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus	7000 7000 57301 57301 7201 7340 7370 Totals	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -4%           -6%           -6%           -6%           -4%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £ £144,812	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply'
)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck': 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School	7000 7000 7000 57301 7201 7340 7370 <b>Totals</b> 6901 3561	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 7,605,227 2012/13 kWh 2,141,983 1,177,478	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           % change           kWh           4%           4%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,700 £8,700 £8,700 £8,700 £8,700 £8,700 £8,700 £1,207 £670 £1,207	% change £ 4% 558% 4% -30% -30% -30% 0% 13% 8% change £ 11% 11% 12%	Jul '13 est Inc. in 'J.C. Main Supply'
)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital)	7000 7000 7000 57301 7201 7340 7370 <b>Totals</b> 6901 3561 3325	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -           4%           4%           4%           4%           4%           -7%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £ £144,812 £144,812 £82,375 £100,000	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply'
) )	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road 0 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital)	7000 7000 7000 57301 7201 7340 7370 <b>Totals</b> 6901 3561 3325 t3325	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -4%           0%           -6%           -6%           -7%           -1%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478 £64,210 £5,089	2011/12 £ f433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £ f144,812 £144,812 f82,375 f100,000 £8,000	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply'
)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital)	7000 7000 7000 57301 7201 7340 7370 <b>Totals</b> 6901 3561 3325	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224	% change kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -4%           4%           4%           4%           -7%           -1%           -24%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £ £144,812 £82,375 £100,000 £8,000 £5,549	<pre>% change</pre>	Jul'13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road 0 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital)	7000 7000 7000 57301 7201 7340 7370 <b>Totals</b> 6901 3561 3325 t3325	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -4%           0%           -6%           -6%           -7%           -1%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478 £64,210 £5,089	2011/12 £ f433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £ f144,812 £144,812 f82,375 f100,000 £8,000	<pre>% change</pre>	Jul'13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
) )	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Sports Ground - Highfields	7000 7000 7000 7301 7201 7340 7370 7370 7370 7370 7370 7370 7360 7370 7360 7370 737	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224	% change kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -4%           4%           4%           4%           -7%           -1%           -24%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 £542,007 2011/12 £ £144,812 £82,375 £100,000 £8,000 £5,549	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est
) )	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck': 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Sports Ground - Highfields Boat House	7000 7000 7000 7000 73701 7201 7340 7370 <b>Totals</b> 6901 3561 3325 3325 3325 3325	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,722 34,000	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           4%           -4%           -29%           0%           -1%           -24%           -59%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750	2011/12 £ f433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 <b>£542,007</b> <b>£542,007</b> <b>£542,007</b> <b>£542,007</b> <b>£</b> 144,812 £82,375 £100,000 £8,000 £5,549 £7,277	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Jul '13 est
)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospit Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street	7000 7000 7000 7000 7700 7300 7300 7300	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 6,826	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           -           4%           4%           4%           -7%           -1%           -24%           -3%           -24%           -25%           23%           -72%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729	2011/12 £ f433,019 f9,669 f53,077 f28,575 f8,700 f8,297 f670 £542,007 2011/12 f144,812 f144,812 f144,812 f144,812 f144,812 f144,812 f144,812 f14,812 f	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol
!) !)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street Grove Farm - Old Farmhouse	7000 7000 7000 7301 7201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6122 6101 6121	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 19,000 6,826 4,800	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643 23,636	% change kWh           -4%           801%           -4%           0%           -28%           0%           -6%           4%           4%           4%           -6%           -76%           -10%           -7%           -19%           -24%           -59%           23%           -72%           -80%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530	2011/12 £ f433,019 f9,669 f53,077 f28,575 f8,700 f8,297 f670 £542,007 2011/12 f f144,812 f82,375 f100,000 f8,000 f5,549 f7,277 f1,434 f2,636 f2,141	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol Jul '13 est
!) !)	Electricity Invoices Jubilee Campus Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck'! 6 Triumph Road 6 Triumph Road 7 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Sports Ground - Highfields Boat House Grove Farm - Old Farmhouse Grove Farm - Old Farmhouse Grove Farm	7000 7000 7000 7700 77201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6311 6321 6121 6121 6123	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 6,826 4,800 3,900	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643 23,636 4,811	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           4%           -6%           -7%           -7%           -24%           -59%           23%           -72%           -80%           -19%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530 £450	2011/12 £ f433,019 f9,669 f53,077 f228,575 f8,700 f82,297 f670 <b>£542,007</b> <b>£542,007</b> <b>£542,007</b> <b>£542,007</b> f144,812 f82,375 f100,000 f8,000 f5,549 f7,277 f1,434 f2,636 f2,141 f550	% change £ 4% 558% 7% -30% -5% 0% 13% % change £ 11% 12% -36% -19% -59% 22% -72% -75% -18%	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol Jul '13 est Sol Jul '13 est
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck' 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Clinical Sciences Ph. 2 (City Hospital) Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street Grove Farm - Old Farmhouse	7000 7000 7000 7301 7201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6122 6101 6121	2012/13 kWh 5,817,989 686,327 658,680 328,567 66,267 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 19,000 6,826 4,800	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643 23,636	% change kWh           -4%           801%           -4%           0%           -28%           0%           -6%           4%           4%           4%           -6%           -76%           -10%           -7%           -19%           -24%           -59%           23%           -72%           -80%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 £611,983 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530	2011/12 £ f433,019 f9,669 f53,077 f28,575 f8,700 f8,297 f670 £542,007 2011/12 f f144,812 f82,375 f100,000 f8,000 f5,549 f7,277 f1,434 f2,636 f2,141	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol Jul '13 est Jul '13 est Jul '13 est
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm 8 Peachey Street Total of 11 accounts	7000 7000 7000 7700 77201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6311 6321 6121 6121 6123	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 6,826 4,800 3,900 0 4,537,232	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 82,071 15,421 24,643 23,636 4,811 2,373 4,584,884	% change kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           4%           4%           4%           -7%           -1%           -72%           -80%           -19%           -100%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530 £450 £77 £333,025	2011/12 £ f433,019 £9,669 £53,077 f228,575 f8,700 f8,297 £670 £542,007 2011/12 £ f144,812 f82,375 f100,000 f8,000 f5,549 f7,277 f1,434 f2,636 f2,141 f550 f420 f355,195	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol Jul '13 est Jul '13 est
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck': 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospit Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm 8 Peachey Street	7000 7000 7000 7700 77201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6311 6321 6121 6121 6123	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 6,826 4,800 3,900 0	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643 23,636 4,811 2,373	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           4%           -4%           -29%           0%           -29%           0%           -6%           4%           -6%           -29%           -1%           -24%           -59%           23%           -72%           -80%           -19%           -100%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530 £450 £450	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,297 £670 <b>£542,007</b> <b>£542,007</b> <b>2011/12</b> £ £144,812 £82,375 £100,000 £5,549 £7,277 £1,434 £2,141 £2,141 £550 £420	<pre>% change f 4% 558% 4% 7% -30% -30% -30% -30% 0% 13% % change f 11% 12% -36% -36% -19% -59% 22% -72% -72% -75% -18% -82%</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol Jul '13 est Jul '13 est
!) !)	Electricity Invoices Jubilee Campus Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospital Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm 8 Peachey Street Total of 11 accounts	7000 7000 7000 7700 77201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6311 6321 6121 6121 6123	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 6,826 4,800 3,900 0 4,537,232	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 82,071 15,421 24,643 23,636 4,811 2,373 4,584,884	% change kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           4%           4%           4%           -7%           -1%           -72%           -80%           -19%           -100%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530 £450 £77 £333,025	2011/12 £ f433,019 £9,669 £53,077 f228,575 f8,700 f8,297 £670 £542,007 2011/12 £ f144,812 f82,375 f100,000 f8,000 f5,549 f7,277 f1,434 f2,636 f2,141 f550 f420 f355,195	<pre>% change</pre>	Jul '13 est Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 est Jul '13 est Sol Jul '13 est Jul '13 est
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck'! 6 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospit Sports Ground - Highfields Boat House Grove Farm - Old Farmhouse Grove Farm 8 Peachey Street Total of 11 accounts Electricity Invoices	7000 7000 7000 7700 77201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6311 6321 6121 6121 6123	2012/13 KWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 2012/13 KWh 2,141,983 1,177,478 1,015,796 86,722 34,000 19,000 6,826 4,800 3,900 0 4,537,232 2012/13	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643 23,636 4,811 2,373 4,584,884 2011/12	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           0%           -6%           4%           4%           4%           4%           -29%           0%           change           kWh           4%           -7%           -24%           -59%           23%           -72%           -80%           -19%           -100%           -19%           -100%           -100%           -10%	2012/13 £ f448,189 f63,668 f54,976 f30,510 f6,081 f7,889 f670 <b>£611,983</b> <b>2012/13</b> £ f160,215 f92,478 f64,210 f5,089 f4,497 f3,000 f1,750 f729 f530 f450 f77 f333,025 <b>2012/13</b>	2011/12 £ f433,019 £9,669 £53,077 f228,575 f8,700 £8,297 £670 <b>£542,007</b> <b>£542,007</b> <b>2011/12</b> £ f144,812 f82,375 £100,000 £5,549 £7,277 £1,434 £2,636 £2,141 £550 £2,141 £550 £355,195 2011/12	% change £ 4% 558% 4% -30% -33% 0% 3% 0% 3% 0% 13% 13% 13% 2% -19% -36% -19% -59% 22% -72% -72% -75% -72% -75% -75% -75% -75% -75% -75% -75% -75	Jul '13 esto Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' Jul '13 esto Jul '13 esto Jul '13 esto Jul '13 esto Jul '13 esto
1) 1)	Electricity Invoices Jubilee Campus Jubilee Campus Main HV Supply New HV Supply 2012 E. of Tri.Rd Newark & Southwell Halls Jubilee Sports Centre + Starbuck's 6 Triumph Road 9 Triumph Road 9 Triumph Road Charnock Ave Sports Pavilion Sir Colin Campbell Building Institute of Mental Health Total of 7 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph. 2 (City Hospit Sports Ground - Highfields Boat House Grove Farm - Changing Rooms 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm 8 Peachey Street Total of 11 accounts Electricity Invoices Medical School	7000 7000 7000 7700 77201 7340 7370 <b>Totals</b> 6901 3561 3325 6311 6321 6311 6321 6121 6121 6123	2012/13 kWh 5,817,989 686,327 658,680 328,567 41,398 6,000 570,949 246,622 7,605,227 7,605,227 2012/13 kWh 2,141,983 1,177,478 1,015,796 86,727 46,722 34,000 19,000 6,826 4,800 3,900 0 4,537,232 2012/13 kWh	2011/12 kWh 6,074,288 76,161 686,688 329,669 92,000 58,565 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 61,224 82,071 15,421 24,643 23,636 4,811 2,373 4,584,884 2011/12 kWh	% change           kWh           -4%           801%           -4%           0%           -28%           -29%           0%           -6%           4%           4%           -5%           -24%           -24%           -24%           -24%           -29%           0%           0%           23%           -72%           -80%           -19%           -100%           -10%           -10%           -10%           -10%	2012/13 £ £448,189 £63,668 £54,976 £30,510 £6,081 £7,889 £670 <b>£611,983</b> 2012/13 £ £160,215 £92,478 £64,210 £5,089 £4,497 £3,000 £1,750 £729 £530 £450 £777 £333,025 2012/13 £	2011/12 £ £433,019 £9,669 £53,077 £28,575 £8,700 £8,700 £8,700 £542,007 2011/12 £ £144,812 £82,375 £100,000 £5,549 £7,277 £1,434 £2,636 £2,141 £550 £420 £355,195 2011/12 £	% change £ 4% 558% 4% -30% -33% 0% 3% 0% 3% 0% 13% 13% 13% 2% -19% -36% -19% -59% 22% -72% -72% -75% -72% -75% -75% -75% -75% -75% -75% -75% -75	Inc. in 'New supply 2012' Jul '13 esta Jul '13 esta Jul '13 esta Jul '13 esta Sola Jul '13 esta Sola

# 4.C - Appendix C - Fossil Fuel Data

ttland Hall & Sherwood Hall igh Stewart Hall ipps Hall p-Molecular Sciences Phase 1 virming Pool erby Hall p-Molecular Sciences Phase 2 sse Boot Conference Centre nton & Wortley Hall illoughby Hall illoughby Hall ightingale Hall prence Boot Hall ience Area, MRI etc. chard Hotel evendish Hall icostser Hall oots Science Building stitute of Hearing Research ent Building ts Centre, Main Campus H.Lawrence Lakeside Pavilion aff Club Lenton Mount, Hemsley offson Building irtland Building kitchens	1421	kWh 25,283,282 3,002,263 2,605,070 2,407,750 2,131,731 2,129,544 1,201,164 2,017,024 1,802,341 1,551,516 1,551,516 1,510,459 1,456,264 1,428,089 1,314,823 1,206,156 1,116,558 1,082,939 874,905 801,767 787,518 710,226 680,767 616,055	kWh 29,172,417 2,632,344 2,489,149 2,032,763 1,887,695 1,772,688 1,884,641 1,867,312 1,118,195 1,587,467 1,566,531 1,403,571 1,428,197 1,162,343 1,139,890 0 954,327 1,129,708 896,560 688,974 493,577 636,030 473,148	kwh -13% 14% 5% 18% 13% 20% 11% 8% 61% -2% -3% 61% -2% 23% 15% - 17% -4% -2% 16% 60% 12%	£ E669,076 £117,150 £76,377 £58,412 £59,215 £52,919 £53,069 £53,439 £46,190 £39,017 £38,130 £37,924 £36,601 £43,412 £33,044 £34,379 £27,802 £27,013 £28,157 £20,244 £19,531	£ £675,524 £85,407 £65,067 £50,561 £46,977 £59,928 £43,426 £42,823 £23,362 £33,010 £32,586 £37,045 £30,019 £24,234 £23,541 £00 £28,091 £23,476 £22,720 £14,321 £10,528	£ -1% 37% 17% 26% -12% 22% 25% 98% 18% 25% 98% 18% 22% 22% 79% 40% - -1% 15% 24% 41%	Operated by De Vere Operated by De Vere
ttland Hall & Sherwood Hall igh Stewart Hall igh Stewart Hall ipps Hall p-Molecular Sciences Phase 1 virmning Pool rrby Hall p-Molecular Sciences Phase 2 sse Boot Conference Centre nton & Wortley Hall coln Hall illoughby Hall ghtingale Hall orence Boot Hall ience Area, MRI etc. chard Hotel ivendish Hall iosts Science Building stitute of Hearing Research ent Building ts Centre & School of Music iorts Centre, Main Campus H.Lawrence Lakeside Pavilion aff Club Lenton Mount, Hemsley olfson Building itchang Kitchens nton Firs - Built Environment	2191 2181 2171 1353 1481 2121 1353 1481 2121 2121 2131 2211 2211 2131 2211 1681 2101 1581 1401 1101 1581 1401 1101 1581 115811	3,002,263 2,605,070 2,407,750 2,131,731 2,129,544 2,101,164 2,017,024 1,802,341 1,551,516 1,525,686 1,510,459 1,456,264 1,428,089 1,314,823 1,206,156 1,116,558 801,767 787,518 787,518 787,518	2,632,344 2,489,149 2,032,763 1,887,695 1,772,688 1,894,641 1,867,312 1,118,195 1,587,467 1,566,531 1,403,571 1,428,197 1,162,343 1,139,890 0 954,327 1,129,708 896,560 688,974 493,577 636,030	14% 5% 18% 20% 11% 8% 61% -2% 2% 2% 2% 23% 15% - 17% -4% -2% 16% 60%	£117,150 £76,377 £58,412 £59,215 £52,919 £53,069 £46,190 £39,017 £38,130 £37,924 £36,601 £43,412 £33,044 £34,379 £27,802 £27,013 £28,157 £20,244	£85,407 £65,067 £50,561 £46,977 £59,928 £43,426 £42,823 £23,362 £33,010 £32,586 £37,045 £30,019 £24,234 £23,541 £0 £28,091 £28,091 £23,476 £22,720 £14,321	37% 17% 26% 22% 22% 25% 98% 18% 17% 2% 22% 79% 40% - - 1% 15% 24% 41%	
Igh Stewart Hall ipps Hall -Molecular Sciences Phase 1 vimming Pool roty Hall -Molecular Sciences Phase 2 sse Boot Conference Centre nton & Wortley Hall icon Hall iloughby Hall ghtingale Hall orence Boot Hall ience Area, MRI etc. rchard Hotel wendish Hall icoster Hall iots Science Building stitute of Hearing Research ent Building ts Centre & School of Music isorts Centre, Main Campus H.Lawrence Lakeside Pavilion aff Club Lenton Mount, Hemsley olfson Building kitchens nton Firs - Built Environment	2181 2171 1353 1571 1353 1481 2121 1353 1481 2141 2151 2211 2211 2211 2211 2211 2131 1681 2101 1581 1401 1501 1501 1501 1501 1631 1181 1481	2,605,070 2,407,750 2,131,731 2,129,544 2,101,164 2,017,024 1,802,341 1,551,516 1,552,586 1,510,459 1,456,264 1,428,089 1,314,823 1,206,156 1,082,939 874,905 801,767 787,518 710,226 680,767 616,055	2,489,149 2,032,763 1,887,695 1,772,688 1,894,641 1,867,312 1,5187,467 1,556,531 1,403,571 1,428,197 1,162,343 1,162,343 1,129,708 896,560 0 954,327 1,129,708	5% 18% 20% 20% 11% 8% 61% -2% 2% 2% 23% 23% -3% -3% -3% -3% -3% -3% -3% -	£76,377 £58,412 £59,215 £52,919 £53,669 £46,190 £39,017 £38,130 £37,924 £36,601 £43,412 £33,044 £33,044 £34,379 £27,013 £27,013 £28,157 £20,244	£65,067 £50,561 £46,977 £59,928 £43,426 £42,823 £23,362 £33,010 £32,586 £37,045 £30,019 £24,234 £23,541 £0 £28,091 £23,476 £22,720 £14,321	17% 16% 26% -12% 22% 98% 18% 17% 2% 22% 79% 40% - - 1% 15% 24% 41%	
ipps Hall p-Molecular Sciences Phase 1 vimming Pool arby Hall p-Molecular Sciences Phase 2 sse Boot Conference Centre nton & Wortley Hall illoughby Hall ghtingale Hall prence Boot Hall ience Area, MRI etc. chard Hotel wendish Hall tots Science Building stitute of Hearing Research ent Building ts Centre & School of Music to chard Nount, Hemsley olfson Building tritand Building kitchens nton Firs - Built Environment	2171 1353 1571 2121 1353 2141 21481 2141 2150 2211 2150 2211 1681 1271 1581 1401 1501 1501 1501 1501 1511 1511 1521 1531 1151 1531 1151 1531 153	2,407,750 2,131,731 2,129,544 2,101,164 1,802,341 1,551,516 1,525,686 1,428,089 1,314,823 1,206,156 1,116,558 1,116,558 801,767 787,518 710,226 680,767 616,055	2,032,763 1,887,695 1,772,688 1,894,641 1,867,312 1,118,195 1,587,467 1,566,531 1,403,571 1,428,197 1,162,343 1,139,890 0 954,327 1,129,708 896,560 896,560 493,577 636,030	18% 13% 20% 11% 8% 61% -2% 3% 23% 23% 23% 15% - 17% - 4% -2% 16% 60%	£58,412 £59,215 £52,919 £53,069 £46,190 £39,017 £38,130 £37,924 £36,601 £43,412 £33,044 £34,379 £27,013 £27,013 £28,157 £20,244	£50,561 £46,977 £59,928 £43,426 £42,823 £23,362 £33,010 £32,586 £37,045 £30,019 £24,234 £23,541 £0 £28,091	16% 26% -12% 22% 25% 98% 18% 17% 2% 22% 79% 40% - -1% 15% 24% 41%	
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ts Centre & School of Music orts Centre, Main Campus H.Lawrence Lakeside Pavilion aff Club Lenton Mount, Hemsley olfson Building rtfaland Building kitchens nton Firs - Built Environment	1501 1221 1631 1181 1421	710,226 680,767 616,055	636,030		£19.531	£10 E20	86%	
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H.Lawrence Lakeside Pavilion aff Club Lenton Mount, Hemsley olfson Building rtland Building kitchens nton Firs - Built Environment	1631 1181 1421	616,055	473,148		£17,724	£13,238	34%	
aff Club Lenton Mount, Hemsley olfson Building rtland Building kitchens nton Firs - Built Environment	1181 1421			44%	£17,326	£9,910	75%	
olfson Building Irtland Building kitchens nton Firs - Built Environment	1421	F22 427	519,777	19%	£16,614	£12,902	29%	
rtland Building kitchens nton Firs - Built Environment		532,137	448,571	19%	£13,380	£9,320	44%	
nton Firs - Built Environment		495,487	597,765	-17%	£12,512	£12,478	0%	
	1111	494,814	216,046	129%	£12,642	£4,579	176%	
	1431	481,013	431,490	11%	£11,831	£9,080	30%	
	1641	419,187	333,560	26%	£11,588	£8,392	38%	
nton Hurst	2411						31%	
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-								
			82,118					
istainable Research Building	1436	105,880	84,381	25%	£3,170			
Imanities	1671	102,773	60,666	69%	£4,579	£3,012	52%	
nton Close Annexe (Cripps Hall)	2175	101,071	99,493	2%	£2,538	£2,075	22%	
ipps Hall	2171	97,732	111,949	-13%	£2,478	£2,327	6%	
nton Lodge	2251	91,453	50,284	82%	£2,271	£1,051	116%	
Itland Hall	2191	73,369	89,230	-18%	£1,854	£1,861	0%	
nton & Wortley Hall	2141		73,017	-1%	£1,844	£1,520	21%	
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	2200	8,913	7,948	12%	£224	£171		
ew Eco-houses			2,445					
	ipps Health Centre rtland Building new extn. dcourt 4MEM (Production Engineering) nton Grove (History) orts Centre, Main Campus vironmental Education Centre (I chards nton Eaves (UNSSC) ntre for 3D Design coin Hall ton House (Built Env.) erwood Hall vendish Hall Extension 1994 (H. tland Hall Extension 1994 (H. tland Hall Extension 1994 (H. tland Hall Extension nton Fields (China House) stainable Research Building imanities nton Close Annexe (Cripps Hall) ipps Hall nton Lodge tland Hall arden's House Sherwoood Hall boot C.C. Annexe (Cottage) nton Firs Lodge West vendish Hall rmer Warden's House, Cavendis arden's House Florence Boot Hall ightingale Close (Nigh. Hall Wari arden's House Ancaster Hall . Wortley Hall Close (Eco-House iygroup dcourt Lodge erwood Hall w Eco-houses	apps Health Centre1231rtland Building new extn.1111dcourt2221MEM (Production Engineering)1371nton Grove (History)1211orts Centre, Main Campus1221vironmental Education Centre (I1439nton Eaves (UNSSC)1461ntre for 3D Design1223coin Hall2150ton Hause (Built Env.)1441erwood Hall200vendish Hall Extension 1994 (H)2115tand Hall Extension 1994 (H)2115stainable Research Building1436manities1671nton Cave (Cripps Hall)2175ipps Hall2191arden's House Sherwood Hall2191arden's House Scherwood Hall2191arden's House Rutland Hall2191arden's House Rutland Hall2194ton Cottage (Stables Annx, Patt1422arden's House Rutland Hall2111arden's House Florence Boot Ha2131arden's House Florence Boot Ha2131arden's House Ancaster Hall2194ton Cottage (Stables Annx, Patt1422upshuige Close (Nigh.Hall War2221wortley Hall Close (Eco-House2296uygroup1411deourt Lodge2222erwood Hall2220we Eco-houses2200	apps Health Centre         1231         341,079           rtland Building new extn.         1111         324,985           dcourt         2221         313,290           MEM (Production Engineering)         1371         239,303           nton Grove (History)         1211         235,273           orts Centre, Main Campus         1221         214,160           vironmental Education Centre (1439         187,506           chards         1161         178,352           nton Eaves (UNSSC)         1461         145,333           ntre for 3D Design         1223         131,122           coln Hall         2150         130,005           ton House (Built Env.)         1441         123,783           erwood Hall         2200         119,106           vendish Hall Extension 1994 (Hz 2115         114,402           tland Hall Extension         2195         107,310           nton Fields (China House)         2163         106,497           stainable Research Building         1436         105,803           nton Close Annexe (Cripps Hall)         2175         101,071           ipps Hall         2171         97,732           nton Close Annexe (Cottage)         1482         49,968 </td <td>pps Health Centre         1231         341,079         268,289           rtland Building new extn.         1111         324,985         220,159           dcourt         2221         313,290         240,021           MEM (Production Engineering)         1371         239,303         229,153           thor Grove (History)         1211         235,273         182,563           orts Centre, Main Campus         1221         214,160         140,516           vironmental Education Centre (I 1439         187,506         183,790           chards         1161         178,352         85,448           nton Eaves (UNSSC)         1441         123,783         142,6657           coln Hall         2100         119,005         95,713           ton House (Built Env.)         1441         123,783         143,905           erwood Hall         2100         110,106         126,158           vendish Hall Extension         2195         107,310         135,693           nton Fields (China House)         2163         106,497         82,118           stainable Research Building         1436         105,880         84,381           manities         1671         102,773         60,666           n</td> <td>ipps Health Centre         1231         341,079         268,289         27%           rtland Building new extn.         1111         324,985         220,159         48%           dcourt         2221         313,290         240,021         31%           MMEM (Production Engineering)         1371         239,303         229,153         4%           otros Grove (History)         1211         235,273         182,563         29%           orts Centre, Main Campus         1221         214,160         140,516         52%           vironmental Education Centre (I         1439         187,506         183,790         2%           chards         1161         178,352         85,448         109%           ntoon Eaves (UNSSC)         1441         123,733         126,665         15%           ntor for 3D Design         1223         131,122         6,757         1841%           erwood Hall         2100         119,106         126,158         -6%           vendish Hall Extension 1994 (H         2115         114,402         102,896         11%           tland Hall Extension         2195         107,310         135,693         -21%           nton Close Annexe (Cripps Hall)         2175         101,0</td> <td>pps Health Centre         1231         341,079         268,289         27%         £8,582           rtland Building new extn.         1111         324,985         220,159         48%         £8,138           dcourt         2221         313,290         240,021         31%         £7,855           MteM (Production Engineering)         1371         239,303         229,153         4%         £5,905           nton Grove (History)         1211         235,273         182,563         29%         £5,896           orts Centre, Main Campus         1221         214,160         140,516         52%         £6,033           vironmental Education Center (1439         187,506         183,790         2%         £5,355           chards         1161         178,352         85,448         109%         £4,202           ntor Eaves (UNSSC)         1461         145,333         126,665         15%         £4,276           ntor Fides (Built Env.)         1441         123,783         143,905         -14%         £3,124           erwood Hall         2200         119,106         126,158         -6%         £3,014           vendish Hall Extension 1994 (H 2115         114,402         102,896         11%         £2,724</td> <td>pps Health Centre         1231         341,079         268,289         27%         £8,582         £5,657           rthand Building new extn.         1111         324,985         220,159         48%         £8,138         £4,588           dcourt         2221         313,290         240,021         31%         £7,855         £4,992           MEM (Production Engineering)         1371         239,030         229,153         4%         £5,905         £4,807           nton Grove (History)         1211         235,273         182,563         29%         £5,355         £4,278           vironmental Education Centre (11439         187,506         183,790         2%         £5,355         £4,728           chards         1161         178,352         85,448         109%         £4,502         £1,801           nton Eaves (UNSSC)         1461         145,333         126,665         15%         £4,276         £2,328           coin Hall         2150         130,005         95,713         36%         £3,238         £2,001           ton House (Built Env.)         1441         123,783         143,905         144%         £2,142           ton House (Built Env.)         1414         120,737         110,484</td> <td>pps Health Centre         1231         341,079         268,289         27%         £8,582         £5,557         52%           trland Bulking new extn.         1111         324,985         220,159         48%         £8,138         £4,568         77%           dcourt         2221         313,290         240,021         31%         £5,905         £4,807         23%           MEM (Production Engineering)         1371         239,303         229,153         4%         £5,905         £4,807         23%           rots Centre, Main Campus         1221         214,160         140,516         52%         £6,033         £3,651         65%         65,355         £4,728         13%           chards         1161         178,352         85,448         109%         £4,276         £3,432         25%           cont Ball         2150         130,005         95,713         364%         £3,208         £2,001         62%           con Hall         2200         119,106         126,158         -6%         £3,014         £2,484         14%           vendish Hall Extension         215         107,310         135,693         -21%         £2,724         £2,737         13%           tadnal Bit Extension</td>	pps Health Centre         1231         341,079         268,289           rtland Building new extn.         1111         324,985         220,159           dcourt         2221         313,290         240,021           MEM (Production Engineering)         1371         239,303         229,153           thor Grove (History)         1211         235,273         182,563           orts Centre, Main Campus         1221         214,160         140,516           vironmental Education Centre (I 1439         187,506         183,790           chards         1161         178,352         85,448           nton Eaves (UNSSC)         1441         123,783         142,6657           coln Hall         2100         119,005         95,713           ton House (Built Env.)         1441         123,783         143,905           erwood Hall         2100         110,106         126,158           vendish Hall Extension         2195         107,310         135,693           nton Fields (China House)         2163         106,497         82,118           stainable Research Building         1436         105,880         84,381           manities         1671         102,773         60,666           n	ipps Health Centre         1231         341,079         268,289         27%           rtland Building new extn.         1111         324,985         220,159         48%           dcourt         2221         313,290         240,021         31%           MMEM (Production Engineering)         1371         239,303         229,153         4%           otros Grove (History)         1211         235,273         182,563         29%           orts Centre, Main Campus         1221         214,160         140,516         52%           vironmental Education Centre (I         1439         187,506         183,790         2%           chards         1161         178,352         85,448         109%           ntoon Eaves (UNSSC)         1441         123,733         126,665         15%           ntor for 3D Design         1223         131,122         6,757         1841%           erwood Hall         2100         119,106         126,158         -6%           vendish Hall Extension 1994 (H         2115         114,402         102,896         11%           tland Hall Extension         2195         107,310         135,693         -21%           nton Close Annexe (Cripps Hall)         2175         101,0	pps Health Centre         1231         341,079         268,289         27%         £8,582           rtland Building new extn.         1111         324,985         220,159         48%         £8,138           dcourt         2221         313,290         240,021         31%         £7,855           MteM (Production Engineering)         1371         239,303         229,153         4%         £5,905           nton Grove (History)         1211         235,273         182,563         29%         £5,896           orts Centre, Main Campus         1221         214,160         140,516         52%         £6,033           vironmental Education Center (1439         187,506         183,790         2%         £5,355           chards         1161         178,352         85,448         109%         £4,202           ntor Eaves (UNSSC)         1461         145,333         126,665         15%         £4,276           ntor Fides (Built Env.)         1441         123,783         143,905         -14%         £3,124           erwood Hall         2200         119,106         126,158         -6%         £3,014           vendish Hall Extension 1994 (H 2115         114,402         102,896         11%         £2,724	pps Health Centre         1231         341,079         268,289         27%         £8,582         £5,657           rthand Building new extn.         1111         324,985         220,159         48%         £8,138         £4,588           dcourt         2221         313,290         240,021         31%         £7,855         £4,992           MEM (Production Engineering)         1371         239,030         229,153         4%         £5,905         £4,807           nton Grove (History)         1211         235,273         182,563         29%         £5,355         £4,278           vironmental Education Centre (11439         187,506         183,790         2%         £5,355         £4,728           chards         1161         178,352         85,448         109%         £4,502         £1,801           nton Eaves (UNSSC)         1461         145,333         126,665         15%         £4,276         £2,328           coin Hall         2150         130,005         95,713         36%         £3,238         £2,001           ton House (Built Env.)         1441         123,783         143,905         144%         £2,142           ton House (Built Env.)         1414         120,737         110,484	pps Health Centre         1231         341,079         268,289         27%         £8,582         £5,557         52%           trland Bulking new extn.         1111         324,985         220,159         48%         £8,138         £4,568         77%           dcourt         2221         313,290         240,021         31%         £5,905         £4,807         23%           MEM (Production Engineering)         1371         239,303         229,153         4%         £5,905         £4,807         23%           rots Centre, Main Campus         1221         214,160         140,516         52%         £6,033         £3,651         65%         65,355         £4,728         13%           chards         1161         178,352         85,448         109%         £4,276         £3,432         25%           cont Ball         2150         130,005         95,713         364%         £3,208         £2,001         62%           con Hall         2200         119,106         126,158         -6%         £3,014         £2,484         14%           vendish Hall Extension         215         107,310         135,693         -21%         £2,724         £2,737         13%           tadnal Bit Extension

# 4.C - Appendix C – Fossil Fuel Data continued

	Gas Invoices Sutton Bonington		2012/13 kWh	2011/12 kWh	% change kWh	2012/13 £	2011/12 £	% change £	
		6800	9,921,416	6,725,699	48%	£262,099	£176,285	49%	Meter under-rec.d in 11/1
		6800	3,002,686	2,832,167	6%	£73,249	£61,998	18%	
		5711	2,250,303	2,070,236	9%	£63,508	£53,419	19%	
		5721	2,074,007	1,797,277	15%	£57,284	£44,475	29%	
	•	5771	593,718	500,999	19%	£16,796	£12,641	33%	
		5781	493,672	454,806	9%	£16,709	£16,443	2%	
		5951	352,118	249,271	41%	£10,170	£7,259	40%	
	TCRU Future Crop Glasshouses		285,339	218,771	30%	£8,064	£5,771	40%	
	Gustafson Glasshouse		243,693	0	-	£7,737	£0	-	New supply
	Bio-Energy BIOMASS	5781	165,000	130,489	26%	£7,600	£6,379	19%	Jun & Jul '1
	The Elms (Environmental Science -		163,473	135,204	21%	£5,041	£4,030	25%	Sun c Sun 1
		5233	131,920	93,341	41%	£10,619	£1,993	433%	
		5011	65,384	70,498	-7%	£1,619	£1,509	7%	
		5081	60,606	-4	7 70	£1,467	£0	7 70	
		5701	53,014	52,501	1%	£1,310	£1,096	20%	
	Bonington Hall Laundry & Gym	5881	44,756	40,267	11%	£1,106	£864	28%	
	Bonington Hall Warden's House	5842	37,609	28,311	33%	£927	£607	53%	
	St.Michael's Flats Nos 6&7	6842	36,585	12,252	199%		£1,181	38%	
	St.Michael's House Flat 1					£1,625			
		6841	33,521	29,626	13%	£870	£730	19%	
	St.Michael's House Flat 2	6841	33,119	36,345	-9%	£951	£863	10%	
	24 College Road	6805	33,047	22,677	46%	£858	£486	77%	
	52 College Road	6820	25,474	24,267	5%	£623	£523	19%	
	St.Michael's House Flat 3	6841	12,485	11,394	10%	£347	£246	41%	
	St.Michael's House Flat 5	6841	11,375	-12,380	-192%	£295	-£222	-233%	
	St.Michael's House Flat 4	6841	6,746	3,390	99%	£160	£71	124%	
	St.Michael's Flats Nos 8&9	6843	5,124	10,652	-52%	£525	£558	-6%	
	North Laboratory	5091	822	760	8%	£21	£16	30%	
	Eviton House (68 College Road)	5891	536	110,000	-100%	£356	£1,900	-81%	
	South Laboratory	5051	32	0	-	£1	£0	-	
	Hathern House, Bon. Hall (4)	5831	0	0	-	£0	£0	-	
	Total of 30 accounts	Totals	20,137,581	15,648,816	29%	£551,936	£401,121	38%	
	Gas Invoices		2012/13	2011/12	% change	2012/13	2011/12	% change	
	Jubilee Campus		kWh	kWh	kWh	£	£	£	
	Newark Hall	7130	1,328,513	1,241,396	7%	£42,046	£38,951	8%	
	Computer Sciences (DCS) & The A		978,607	775,604	26%	£26,396	£16,361	61%	
	The Exchange (CTF)	7030	769,653	536,838	43%	£19,571	£11,581	69%	
	Melton Hall	7110	681,911	652,437	5%	£18,957	£13,815	37%	
	Southwell Hall	7120	680,278	679,302	0%	£18,931	£18,441	3%	
	Business School South (New)	7080	609,657	821,021	-26%	£15,529	£20,872	-26%	
	The Amenities Building	7330	584,453	253,030	131%	£15,833	£7,206	120%	
	Jubilee Sports Centre	7301	552,582	429,373	29%	£15,470	£11,398	36%	
	Energy Technologies Building	7360	538,915	0	-	£17,969	£0	-	New Suppl
	Business School North (SMF)	7020	536,933	606,755	-12%	£13,180	£13,573	-3%	
	Dearing Building (FOE)	7050	530,217	598,911	-11%	£13,217	£12,780	3%	
	Aerospace Technologies Building	,7380	468,177	0	_	£14,177	£0	-	New Suppl
	Computer Sciences (DCS) & The A		408,497	252,346	62%	£10,757	£5,360	101%	iten ouppi
)	Institute of Mental Health	7370	333,630	58,256	473%	£11,609	£2,414	381%	First full yea
	Sir Colin Campbell Building (Gatew		246,802	85,987	187%	£7,163	£3,148	128%	T list full yea
/				,	107 70			12070	Ectimated new cumpl
	Si Yuan Centre for Chinese Studies		200,000	0	-	£6,000	0 <u>3</u>	-	Estimated, new suppl
	The Nottingham Geospatial Buildin		120,673	155,946	-23%	£3,728	£4,429	-16%	A 1.40
	Geospatial BIOMASS	7350	75,000	31,353	139%	£3,500	£1,200	192%	Apr-Jul13 esto
)	6 Triumph Rd		45,332	43,081	5%	£1,495	£1,328	13%	
	Starbucks Cafe Jubilee Total of 19 items		20,070 <b>9,709,900</b>	1,564 7,223,200	- 34%	£794 <b>£276,323</b>	£93 <b>£182,951</b>	- 51%	First full yea
				,,_,_,					
	Gas Invoices		2012/13	2011/12	% change	2012/13	2011/12	% change	
	Others	6001	kWh	kWh	kWh	£	£	£	
	King's Meadow Campus	6901	5,793,477	5,450,087	6%	£156,265	£125,255	25%	
	Derby Medical School	3561	2,017,341	1,401,758	44%	£56,603	£37,241	52%	
	Clinical Sciences (City Hospital)	3325	1,015,796	698,916	45%	£31,300	£20,000	57%	E-Product 1
	Grove Farm OIL		210,000	210,000	0%	£16,000	£14,000		Estimated
	Sports Ground - Highfields	6311	163,922	148,585	10%	£4,893	£4,082	20%	
	Vaughan Parry Williams Pavilion	6314	145,506	114,098	28%	£5,111	£3,642	40%	
	522 Derby Road (ex. Mansells)		95,705	0	-	£4,978	£0		New supply
	Clinical Sciences (City Hospital) Ph	3325	86,727	77,817	11%	£2,700	£2,000	35%	
	Unit 4, Easter Park		84,805	0	-	£2,663	£0		New supply
	Boathouse OIL		50,000	50,000	0%	£3,000	£2,800	7%	Estimated
	14-22 Shakespeare Street	6101	45	9,672	-100%	£1,276	£2,082	-39%	Closed
	8 Peachey Street	6102	0	59	-100%	£301	£144	110%	Closed
	Total of 11 accounts		9,663,324	8,160,992	18%	£285,090	£211,246	35%	
			2012/13	2011/12	% change	2012/13	2011/12	% change	
	Steam Used					-	-		
	Medical School	, , ,	kWh	kWh	kWh	£	£	£	Contract 1
	Medical School Medical School		<b>kWh</b> 22,122,493	<b>kWh</b> 20,866,202	6%	£955,700	£520,000	84%	Costs estd
	Medical School		kWh	kWh				84% 46%	Costs estd Costs Estd

# 4.D - Appendix D - Water Data

	Water Invoices		2012/13	2011/12	% change	2012/13	2011/12	% change	
	Main Campus		cubic m.	cubic m.	cubic m.	£	£	£	
	Main Campus Invoices	1000	505,000	482,095	5%	£0	£0	-	Jul '13 este
		2161	10,001	7,925	26%	0 <u>3</u>	£0	-	Jul '13 esto
2)	Orchard Hotel	1681	9,900	0	-	£24,000	£0	-	Jun & Jul esto
-	Redcourt	2221 1481	4,728	3,491	35%	£0	£0	-	Jul '13 est
	JBCC Banqueting Jesse Boot Conference Centre	1481	2,700	2,377	14% 25%	£0 £0	£0 £0	-	Jul '13 est
2)		1461	2,300 1,600	1,847	-11%	£0 £0	£0	-	Jul '13 est
	Lenton Eaves (UNSSC)	1401	1,800	1,788 977	-11%	£0 £0	£0	-	Jul '13 est Jul '13 est
	Paton House (Built Env.) Lenton Grove (History)	1211	750	1,538	-51%	£0	£0	_	Jul '13 est
	Lenton Hurst	2411	730	776	- 51.70	£0	£0		Jul '13 est
	Lenton Firs - Built Environment	1431	400	917	-56%	£0	£0	_	Jul '13 est
	Lenton Lodge	2251	200	234	-14%	£0	£0	-	Jul '13 est
	5A Wortley Hall Close (Eco-House		70	26	169%	£0	£0	-	Jul '13 est
	Playgroup	1411	3	234	-99%	£0	£0	-	Supply close
	Science Area	1000	0	2,590	-100%	£0	£0	-	Supply close
	Beeston Lane Gardeners' Compou		0	384	-100%	£0	£0	-	Supply close
	Water & SWD invoice	1000	0	0	-	£520,000	£493,874	9%	Jul '13 est
	TE & sewerage invoice	1000	0	0	-	£507,472	£440,000	4%	
	Total of 18 accounts	Total:	539,502	507,199	6%	£1,051,472	£933,874	13%	
	Water Invoices		2012/13	2011/12	% change	2012/13	2011/12	% change	
	Sutton Bonington	6000	cubic m.	cubic m.	cubic m.	£	£	£	Jul 12 eet
	Landcroft Lane meter	6800	122,200	154,250	-21%	£0	£0	-	Jul '13 est
	College Road meter	6800	14,500	14,099	3%	£0	£0		Jul '13 est
	St.Michael's House (Flats 1-5)	6841	1,252	754	66%	£3,133	£1,856	69%	Mar. 1.1112
	Bunny Park Farm	6860	360 0	177 0	103%	£580	£283	105%	May - Jul '13 es
	Trough, Kegworth Road	6910 6800	0	0	-	£22 £131,000	£22 £143,555	0% -9%	Es Jul 12 oc
	SB Water Costs SB TE Costs	6800	0	0	-	£131,000 £107,634	£143,555 £161,406	-33%	Jul '13 est
	Total of 7 items	0000	138,312	169.281	-18%	£242,369	£307,121	-33%	
			100,012	100,201	1070	22-12,000	2001,121	2170	
	Water Invoices		2012/13	2011/12	% change	2012/13	2011/12	% change	
	New Campus		cubic m.	cubic m.	cubic m.	£	£	£	
	Jubilee Campus main meter	7000	45,000	52,359	-14%	£0	£0	-	Mar-Jul '13 est
	Newark Hall	7130	18,000	29,231	-38%	£0	£0	-	Mar-Jul '13 est
	Southwell Hall	7120	5,300	8,227	-36%	£0	£0	-	Mar-Jul '13 est
	The Amenities Building	7330	2,400	2,338	3%	£0	£0	-	Mar-Jul '13 est
	Jubilee Sports Centre	7301	2,100	2,249	-7%	£0	£0	-	Mar-Jul '13 est
	9 Triumph Road		1,500	1,401	7%	£0	£0	-	Feb-Jul '13 est
(1)	Jubilee Campus ETB/IMH/ATC	7000	1,500	0	-	£4,100	£0	-	Jun & Jul '13 est
	YANG Fujia Building (International		1,100	1,045	5%	£0	£0	-	Mar-Jul '13 es
(1)	Sir Colin Campbell Building (Gatew		800	770	4%	£0	£0	-	Mar-Jul '13 es
	The Nottingham Geospatial Buildin	7350	425	425	0%	£0	£0	-	Mar-Jul '13 es
(1)	6 Triumph Road		299	166	80%	£1,187	£784	51%	
	Charnock Ave Sports Pavilion	7201	1	2	-36%	£33	£26	26%	Close
	9 Triumph Road costs inc SWD		0	0	-	£11,000	£8,600	28%	Jul '13 est
(1)									Mar-Jul '13 est
(1)	Jubilee Campus costs	7000	0	0	-	£190,000	£210,317	-10%	
(1)	Jubilee Campus costs Total of 14 items	7000	0 <b>78,425</b>	0 <b>98,213</b>	- -20%	£190,000 £206,320	£210,317 <b>£219,726</b>	-10% -6%	
(1)	Total of 14 items	7000	78,425	98,213		£206,320	£219,726	-6%	
(1)		7000			-20% % change cubic m.				
(1)	Total of 14 items Water Invoices	7000 6901	78,425 2012/13	98,213 2011/12	% change	£206,320 2012/13	£219,726 2011/12	-6% % change	
(1)	Total of 14 items Water Invoices Others King's Meadow Campus	6901	78,425 2012/13 cubic m. 9,179	98,213 2011/12 cubic m. 8,900	% change cubic m.	£206,320 2012/13 £ £46,486	£219,726 2011/12 £	-6% % change £	
(1)	Total of 14 items Water Invoices Others	6901	78,425 2012/13 cubic m.	98,213 2011/12 cubic m.	% change cubic m. 3%	£206,320 2012/13 £	<b>£219,726</b> <b>2011/12</b> <b>£</b> £40,153	-6% % change £ 16%	
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph	6901 3325	78,425 2012/13 cubic m. 9,179 4,746	98,213 2011/12 cubic m. 8,900 4,408 1,550	% change cubic m. 3% 8%	£206,320 2012/13 £ £46,486 £16,900	£219,726 2011/12 £ £40,153 £12,000	-6% % change £ 16% 41%	
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House	6901 3325 6122	78,425 2012/13 cubic m. 9,179 4,746 2,055	98,213 2011/12 cubic m. 8,900 4,408	% change           cubic m.           3%           8%           33%	£206,320 2012/13 £ £46,486 £16,900 £3,181	£219,726 2011/12 £ £40,153 £12,000 £2,400	-6% % change £ 16% 41% 33%	
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms	6901 3325 6122 6321	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400	% change           cubic m.           3%           8%           33%           12%	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300	6% % change £ 16% 41% 33% 16%	
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields	6901 3325 6122 6321 6311	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,565 1,425	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228	% change           cubic m.           3%           8%           33%           12%	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310	6% % change £ 16% 41% 33% 16%	Costs est
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields Unit 4, Easter Park	6901 3325 6122 6321 6311	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,565 1,425 236	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228 0	% change           cubic m.           3%           8%           33%           12%           -36%           -	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540 £2,508	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310 £0	-6% % change £ 16% 41% 33% 16% -33% -	Costs est Costs est
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields Unit 4, Easter Park Clinical Sciences (City Hospital) Ph	6901 3325 6122 6321 6311 3325	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,425 236 49	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228 0 71	% change           cubic m.           3%           8%           33%           12%           -36%           -	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540 £2,508 £175	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310 £0 £200	-6% % change £ 16% 41% 33% 16% -33% - - 13% 195%	Costs est Costs est Close
(1)	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields Unit 4, Easter Park Clinical Sciences (City Hospital) Ph 8 Peachey Street 14-22 Shakespeare Street	6901 3325 6122 6321 6311 3325 6102	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,425 236 49 35 19,290	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228 0 71 0 18,557	% change           cubic m.           3%           8%           33%           12%           -36%           -           -31%           -           4%	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540 £2,508 £175 £147 £76,773	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310 £0 £200 £000 £200 £000 £200 £00	-6% % change £ 16% 41% 33% 16% -33% - 13% 195% 21%	Costs est Costs est Costs est
	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields Unit 4, Easter Park Clinical Sciences (City Hospital) Ph 8 Peachey Street 14-22 Shakespeare Street Water Recharges	6901 3325 6122 6321 6311 3325 6102	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,425 2,36 49 35 19,290 2012/13	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228 0 71 0 18,557 2011/12	% change           cubic m.           3%           8%           333%           122%           -36%           -31%           -34%           4%           % change	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540 £2,508 £175 £147 £76,773 2012/13	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310 £0 £200 £50 £63,413 2011/12	6% % change £ 16% 41% 33% 16% -33% - - 13% 195% 21% % change	Costs estr Costs estr Costs estr
	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields Unit 4, Easter Park Clinical Sciences (City Hospital) Ph 8 Peachey Street 14-22 Shakespeare Street Water Recharges Medical School	6901 3325 6122 6321 6311 3325 6102	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,425 236 49 35 19,290 2012/13 cubic m.	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228 0 71 0 18,557 2011/12 cubic m.	% change           cubic m.           3%           8%           33%           12%           -36%           -           -31%           -           4%           % change           cubic m.	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540 £2,508 £175 £147 £76,773 2012/13 £	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310 £0 £200 £500 £63,413 2011/12 £	6% % change £ 16% 41% 33% 16% -33% -33%  13% 195% 21% 21% \$ % change £	Costs est Costs est Close Close
	Total of 14 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Grove Farm - Changing Rooms Boat House Sports Ground - Highfields Unit 4, Easter Park Clinical Sciences (City Hospital) Ph 8 Peachey Street 14-22 Shakespeare Street Water Recharges	6901 3325 6122 6321 6311 3325 6102	78,425 2012/13 cubic m. 9,179 4,746 2,055 1,565 1,425 2,36 49 35 19,290 2012/13	98,213 2011/12 cubic m. 8,900 4,408 1,550 1,400 2,228 0 71 0 18,557 2011/12	% change           cubic m.           3%           8%           333%           122%           -36%           -31%           -34%           4%           % change	£206,320 2012/13 £ £46,486 £16,900 £3,181 £3,835 £3,540 £2,508 £175 £147 £76,773 2012/13	£219,726 2011/12 £ £40,153 £12,000 £2,400 £3,300 £5,310 £0 £200 £50 £63,413 2011/12	6% % change £ 16% 41% 33% 16% -33% - - 13% 195% 21% % change	Costs est Costs est Close Close Close Scosts est



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