

2011/12 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.

Energy costs, including taxes, rose by £1.2 million to £11.8 million in 2011/12 due to high and rising European energy costs pushing up our costs. However, we continue to see a falling trend in energy consumption, which fell by 0.8%, despite floor area increasing and student numbers rising. Consumption of fossil fuels – primarily gas – was also down 2.0%, but electricity usage increased by 1.2%. As a result of new energy-efficient buildings and continuing investment in energy efficiency projects, energy consumption per square metre has fallen steadily from 425 kWh/m² in 2004/5 to 330 kWh/m² in 2011/12. This represents an energy efficiency improvement of 22% across the whole University in seven years.

Other headline performance indicators from this year's report show that overall emissions of carbon dioxide from all energy sources were basically unchanged for the year, at 67,422 Tonnes. The analysis of new buildings constructed since the base

year of 2005/6 shows that they were responsible for 4,600 Tonnes of CO_2 in 2011/12, which is a 7.3% increase on the base. In addition, water usage increased by 3% to 839,258 cubic metres, exactly in line with increased student numbers.

The University continues to work hard to reduce energy consumption and increase efficiencies. I hope you find this report both informative and a useful resource in this area.

Professor Karen Cox

Pro-Vice, Chancellor



Note that most figures relate to the University's financial year of August 1st 2011 to July 31st 2012, with the baseline for comparison being the previous (2010/11) 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

Energy and water costs rose again to £10.2 million in 20011/12, or £11.8 million including taxes. Whilst our energy consumption has remained stable or even showed small reductions, high and rising European energy prices have again pushed up our costs. 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.

Although electricity costs rose again – by 9% on top of last year's increase of 4%, the bulk of the increase was caused by the consistently high gas costs, which were up 19% on top of last year's 20% rise. Water costs went up 6% compared to 17% in 2010/11.

Energy and Water Costs				Change
	2009/10	2010/11	2011/12	'10/11 to '11/12
University Park	£ 4,633,050	£ 5,033,602	£ 5,623,953	12%
Sutton Bonington	£ 1,229,968	£ 1,392,711	£ 1,592,272	14%
Jubilee Campus	£ 713,875	£ 810,022	£ 944,684	17%
Others	£ 585,856	£ 635,438	£ 630,104	-1%
Medical School	£ 1,180,000	£ 1,310,000	£ 1,414,000	8%
Total	£ 8,342,749	£ 9,181,773	£10,205,013	11%

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

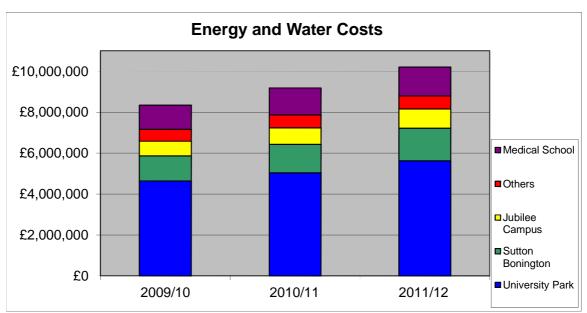


Figure 1.A.2 Graph of net energy and water costs for the last 3 years split by campus.

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	321,977	£9.79	£4.78	£2.90	£17.47					
Sutton Bonington	73,096	£12.39	£5.49	£3.91	£21.78					
Jubilee Campus	68,023	£7.97	£2.69	£3.23	£13.89					
Others	66,696	£5.33	£3.17	£0.95	£9.45					
Medical School	75,536	£8.47	£8.74	£1.51	£18.72					
Total	605,328	£9.24	£4.94	£2.67	£16.86					

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

The overall floor area increased by 3.5% from 2010/11.

Note that if taxes (VAT and CCL, see below) are taken into account, our average utility costs are now £17.56 per square metre per annum.

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

VAT costs paid by Notice Ltd on energy bills rose to £1.23 million in 2010/11, and CCL was up to £358,000, meaning that our energy taxes were up by 10.2% year on year.

The rise in VAT was particularly large as the rate increased from 17.5% to 20% on 4^{th} January 2011, meaning 2011/12 is the first full year at the higher rate. The rise in CCL was also relatively large as this was the first full year with no purchases of 'green' electricity, which was CCL-free.

The Climate Change Levy (CCL) was introduced in April 2001. On April 1st 2011 the rates rose 4.7% to 0.177p/kWh on gas and 4.9% to 0.509p/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:-

		2011/12								
	Electricity	Fo	ssil Fuels	Water	Totals	Totals				
Utility Costs	£ 5,595,12	4 £	2,992,912	£ 1,616,976	£10,205,013	£9,181,773				
Climate Change Levy	£ 256,43	8 £	102,403	-	£ 358,842	£274,471				
Value Added Tax	£ 774,05	3 £	459,504	-	£ 1,233,558	£1,170,837				
Total	£ 6,625,61	6 £	3,554,820	£ 1,616,976	£11,797,412	£10,627,081				

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

1.D - 2011/2012 Net Costs Broken Down by Campus and Utilities

Energy and Water Costs								
2011/12	E	Electricity	Fo	ssil Fuels		Water		Total
University Park	£	3,152,484	£	1,537,595	£	933,874	£	5,623,953
Sutton Bonington	£	905,438	£	401,121	£	285,713	£	1,592,272
Jubilee Campus	£	542,007	£	182,951	£	219,726	£	944,684
Others	£	355,195	£	211,246	£	63,663	£	630,104
Medical School	£	640,000	£	660,000	£	114,000	£	1,414,000
Tota	£	5,595,124	£	2,992,912	£	1,616,976	£	10,205,013

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

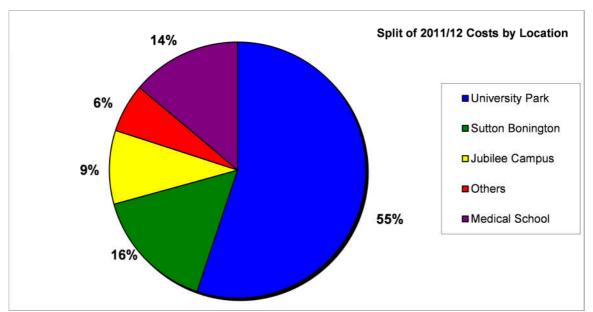


Figure 1.D.2 Chart of energy and water costs split by campus

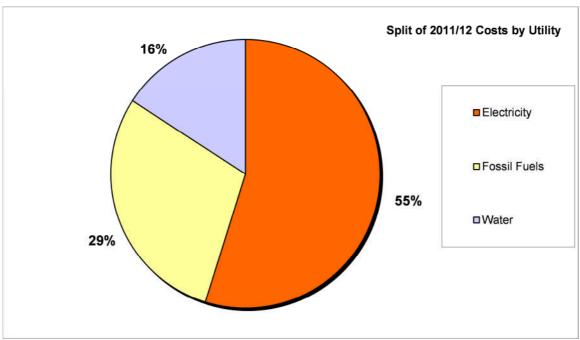


Figure 1.D.3 Chart of energy and water costs split by utility type

1.E - Energy Use Summary

The overall consumption of energy fell by 0.8%, despite floor area increasing by 3.5% and student numbers rising by 3.3%. Consumption of fossil fuels – primarily gas – was down 2.0%, but electricity usage increased by 1.2%.

As a result of new energy-efficient buildings and continuing investment in energy efficiency projects, energy consumption per square metre has fallen steadily from 425 kWh/m 2 in 2004/5 to 330 kWh/m 2 in 2011/12. This represents an energy efficiency improvement of 22% across the whole University in seven years. See section 1.G for more details.

During 2011/12, energy consumption per square metre reduced by 4.2% (see section 1.G), and consumption per student was down by 3.9% (section 1.H).

Energy Consumption	MWh	MWh	MWh	Change
-	2009/10	2010/11	2011/12	'10/11 to '11/12
University Park	115,790	112,818	109,770	-2.7%
Sutton Bonington	29,428	29,032	28,205	-2.8%
Jubilee Campus	12,874	13,635	14,547	6.7%
Others	12,899	13,374	12,746	-4.7%
Medical School	33,037	32,520	34,508	6.1%
Total	204,028	201,380	199,776	-0.8%

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

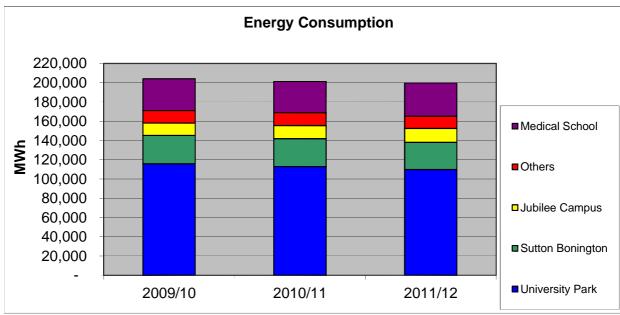


Figure 1.E.2 Graph of energy consumption for the last 3 years split by campus

1.F - Energy Use Breakdown by Campus and Utilities

Energy Consumption	MWh	MWh	MWh
2011/2012	Electricity	Fossil Fuels	Total
University Park	45,058	64,712	109,770
Sutton Bonington	12,557	15,649	28,205
Jubilee Campus	7,323	7,223	14,547
Others	4,585	8,161	12,746
Medical School	9,642	24,866	34,508
Total	79,165	120,611	199,776

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

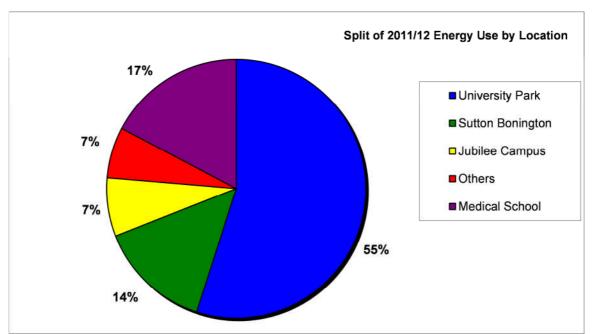


Figure 1.F.2 Pie chart of energy consumption split by campus

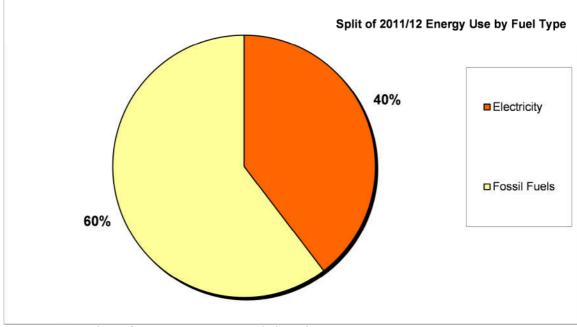


Figure 1.F.3 Pie chart of energy consumption split by utility type.

Note: Our 'fossil fuels' are over 99% gas

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

	2008/9	2009/10	2010/11	2011/12	Change
Floor Area (sq.m.)	561,189	577,871	584,617	605,328	3.5%
Annual Energy Usage (MWh)	199,279	204,028	201,380	199,776	-0.8%
Energy Usage Per sq. m. (kWh/m2)	355	353	344	330	-4.2%

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

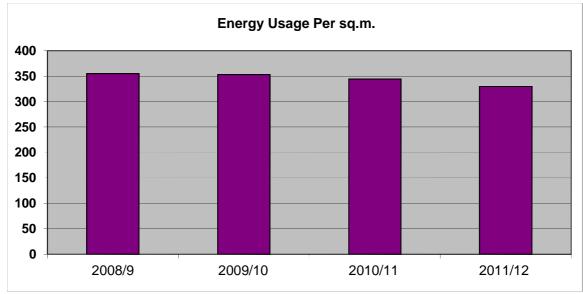


Figure 1.G.2 Graph of last four years energy usage per unit floor area.

The figures for the four years 2004/5 to 2007/8 were 425/398/370 and 396 kWh/m², meaning that other than in one year (2007/8) we have seen falls every year in this metric, and a total improvement if 22%.

	200	08/9	2	2009/10	201	0/11	20	11/12	Change
Floor Area (sq.m.)	50	61,189		577,871	5	84,617		605,328	3.5%
Gross Energy and Water Costs	£11,38	80,000	£	9,333,000	£10,6	27,000	£11,	797,412	11.0%
Utility Cost Per sq. m.	£	20.28	£	16.15	£	18.18	£	19.49	7.2%

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

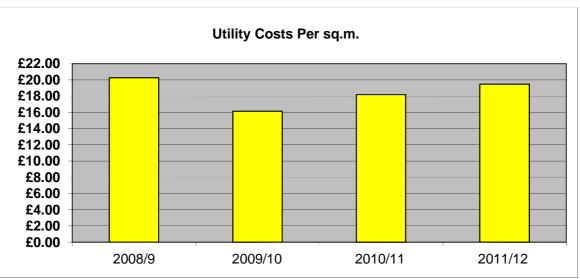


Figure 1.G.4 Graph of last four years energy and water costs normalised by floor area.

1.H - Energy Usage and Cost per FT Student

	2008/9	2009/10	2010/11	2011/12	Change
UK Student Numbers	30,457	32,044	32,999	34,076	3.3%
Annual Energy (MWh)	199,279	204,028	201,380	199,776	-0.8%
Energy / Student (kWh)	6,543	6,367	6,103	5,863	-3.9%

Figure 1.H.1 Table of last four years energy usage and full-time student numbers.

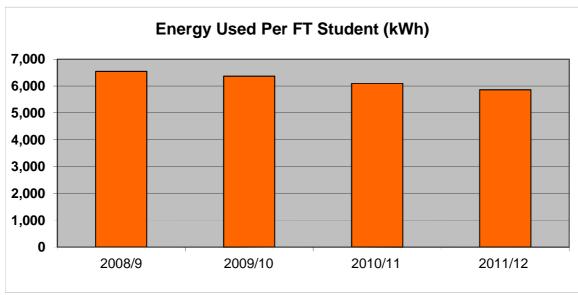


Figure 1.H.2 Graph of last four years energy usage per full-time student.

	2008/9	2009/10	2010/11	2011/12	Change
UK Student Numbers	30,457	32,044	32,999	34,076	3.3%
Energy and Water Costs	£11,380,000	£ 9,333,000	£10,627,000	£11,797,412	11.0%
Utility Costs / Student	£ 373.64	£ 291.26	£ 322.04	£ 346.21	7.5%

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

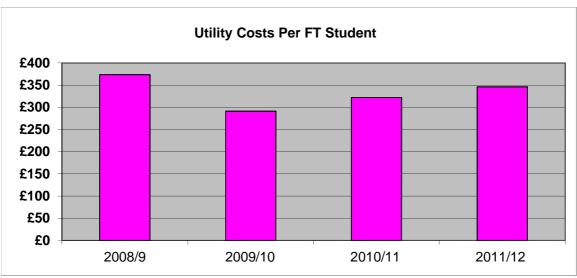


Figure 1.H.4 Graph of last four years gross energy and water costs per full-time student.

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

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

Percentage of Turnover									Change
(£ 000)		2008/9		2009/10		2010/11	4	2011/12	
Utility Costs inc. taxes	£	11,380	£	9,333	£	10,627	£	11,797	11.0%
Total University Turnover	£	448,700	£	474,600	£	479,000	£	478,000	-0.2%
Percentage		2.54%		1.97%		2.22%		2.47%	11.2%

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

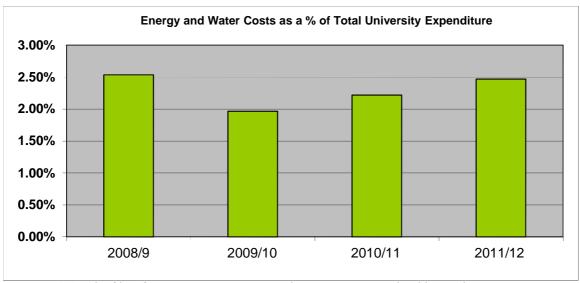


Figure 1.I.2 Graph of last four years gross energy and water costs normalised by total University turnover.

Note that utility costs as a percentage of University expenditure reached as high as 2.67% in 2005/6 and 2.65% in 2007/8.

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 first full year of the scheme (April 2011 to March 2012) are listed below.

Under the Scheme, our emissions were reported as 51,276 Tonnes of CO2 (down from 54,751 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 51,276 allowances for a cost of £615,312 and surrendered them to the Environment Agency on 20^{th} July 2012.

Late in 2012, a league table of all participating institutions will be published, with organisations ranked in order of improvements compared to the footprint year.

Note that this cost, averaged out across our total energy consumption, equates to 0.308p/kWh.

1.K - Energy Costs Comparison to Russell Group Universities - 2010/11

The statistics in the next four tables provide a range of comparators to other major Universities, as reported in the EMS returns for 2010/11. 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.

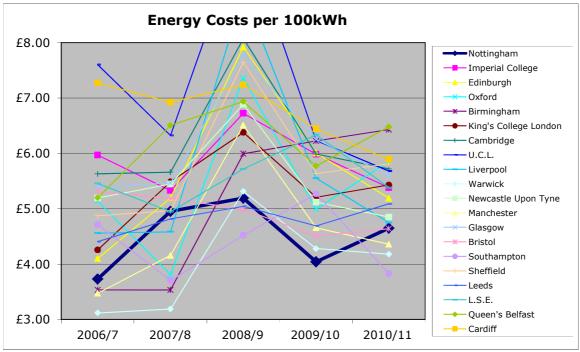


Figure 1.K.1 Graph of Russell Group Energy Costs per 100kWh.

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.

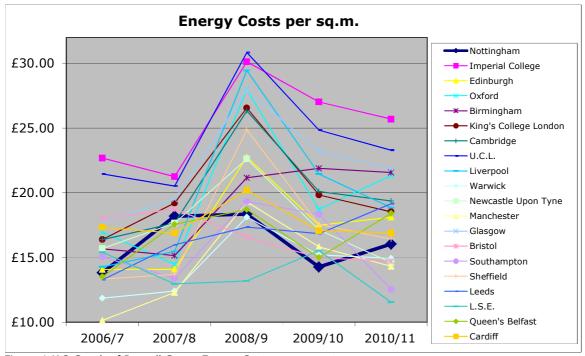


Figure 1.K.2 Graph of Russell Group Energy Costs square metre

1.L - Energy Efficiency Comparison to Russell Group Universities - 2010/11

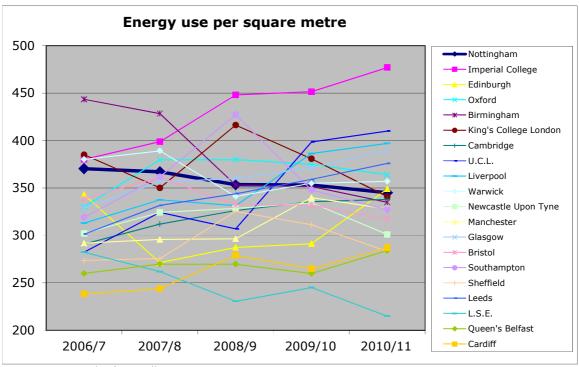


Figure 1.L.1 Graph of Russell Group Energy use per square metre.

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.

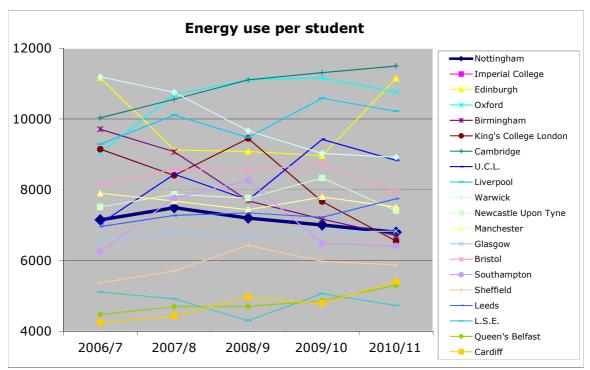


Figure 1.L.1 Graph of Russell Group Energy use per student (note Imperial is off the top of the scale at around 16,000kWh/student).

Section 2 - Electricity, Gas and Water data

2.A - Electricity Consumption

Last year's savings of 2% to 3% month on month at University Park continued through to December 2011, but were then reversed by the cold spring and the new buildings reaching full occupancy. This led to an overall increase of 1.3%.

For the same reasons, electricity consumption at Sutton Bonington jumped 9% as the new Gateway and Bioenergy buildings plus new greenhouses added to the load.

The noticeable reduction of 16.9% in the 'Others' category was down to a 31% decrease in imported electricity at King's Meadow Campus. This was due to the first full year of operation of the CHP plant; this has led to total savings of 1.3 milion kWh of electricity per year, or 39% of King's Meadow's requirements.

Electricity Consumption	MWh	MWh	MWh	Change
	2009/10	2010/11	2011/12	'10/11 to '11/12
University Park	45,867	44,487	45,058	1.3%
Sutton Bonington	11,339	11,516	12,557	9.0%
Jubilee Campus	6,854	7,153	7,323	2.4%
Others	5,709	5,514	4,585	-16.9%
Medical School	9,758	9,587	9,642	0.6%
Total	79,527	78,258	79,165	1.2%

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

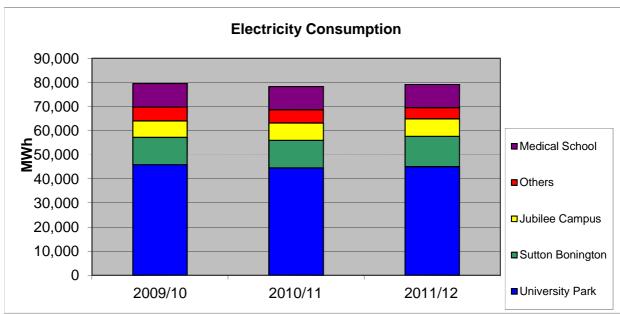


Figure 2.A.2 Graph of electricity usage for the last 3 years split by campus.

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 2012. This policy allows us to buy electricity when the market price is low.

During the period, market electricity prices for large annual contracts (baseload energy only) fell steadily from 5.8p/kWh in August 2011 to 4.8p/kWh in January 2012. Since then, the market has been very unstable, fluctuating between 4.8p/kWh and 5.4p/kWh.

At University Park, the average price paid per kWh of electricity across the year including all standing charges, rose from 6.49p/kWh in 2010/11 to 6.99p/kWh in 2011/12, a rise of 7.7%.

The University's 'sub-100kW' sites (representing 36 smaller properties, such as the sports grounds) was tendered in February 2012, and the contract was won by Southern Electric with prices reduced by 4%. All of the sites are priced individually, but 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
			2009/10		2010/11		2011/12	'10/11 to '11/12
University Park		£	2,825,400	£	2,887,877	£	3,152,484	9%
Sutton Bonington		£	717,196	£	765,066	£	905,438	18%
Jubilee Campus		£	445,349	£	487,501	£	542,007	11%
Others		£	400,160	£	397,815	£	355,195	-11%
Medical School		£	580,000	£	615,000	£	640,000	4%
	Total	£	4,968,105	£	5,153,259	£	5,595,124	9%

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

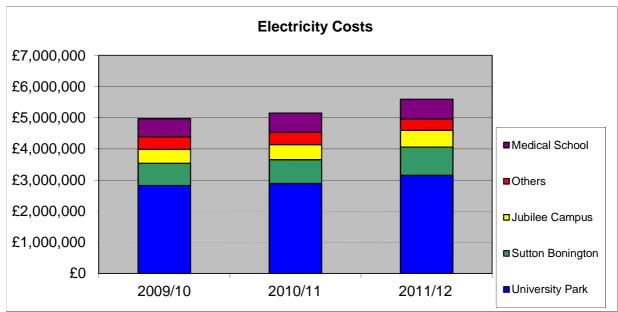


Figure 2.B.2 Graph of net electricity costs for the last 3 years split by campus.

2.C - Fossil Fuel Consumption

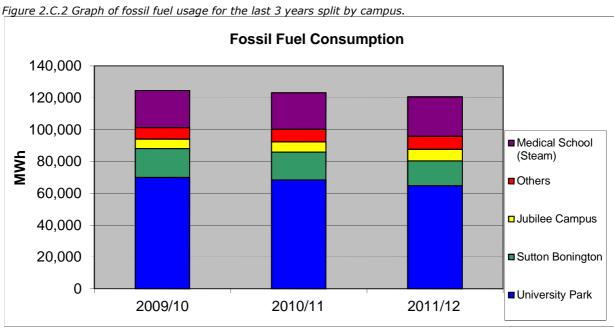
Consumption of fossil fuels fell by 2.0%, which was actually a rather disappointing performance when the milder weather would have predicted a fall of 8.0% in a likefor-like situation. However, floor area did increase by 3.5% in the year.

The biggest consumption increase was at Jubilee Campus, where new supplies billing for the first time accounted for 400MWh, i.e. all of the increase at that site.

The bulk of the increase in the 'Others' category was down to King's Meadow Campus, where operation of the site's 300kW CHP unit increased gas usage by 47%. This is an increase of 2,200MWh per annum from two years ago, but the electricity generated results in net carbon dioxide savings of 295 Tonnes per annum.

Fossil Fuel Consumption	MWh	MWh	MWh	Change
	2009/10	2010/11	2011/12	'10/11 to '11/12
University Park	69,923	68,331	64,712	-5.3%
Sutton Bonington	18,089	17,516	15,649	-10.7%
Jubilee Campus	6,020	6,482	7,223	11.4%
Others	7,190	7,860	8,161	3.8%
Medical School (Steam)	23,279	22,933	24,866	8.4%
Total	124,501	123,122	120,611	-2.0%

Figure 2.C.1 Table 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 2012. This meant that we were able to continue to purchase gas in monthly tranches at opportune times, rather than annually.

During the period, gas prices for large annual contracts (energy only) initially fell steadily, from 2.49p/kWh in August 2011 to 2.08p/kWh in January 2012. Since then, the market has been very unstable, fluctuating between 2.05p/kWh and 2.39p/kWh, but remaining relatively high compared to electricity prices.

Overall, the average price paid per unit across the year (including transportation charges) rose substantially, from 1.92p/kWh to 2.42p/kWh, an increase of 26%. This is on top of a 25% increase in unit costs last year. Note however that the total gas bill was £2.97million back in in 2005/6, and £2.66million in 2007/8.

Fossil Fuel Costs							Change
		2009/10		2010/11		2011/12	'10/11 to '11/12
University Park	£	1,051,195	£	1,269,972	£	1,537,595	21%
Sutton Bonington	£	276,305	£	354,493	Ш	401,121	13%
Jubilee Campus	£	97,113	£	133,947	Щ	182,951	37%
Others	£	134,786	£	175,178	£	211,246	21%
Medical School (Steam)	£	522,000	£	573,000	£	660,000	15%
Total	£	2,081,399	£	2,506,590	£	2,992,912	19%

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

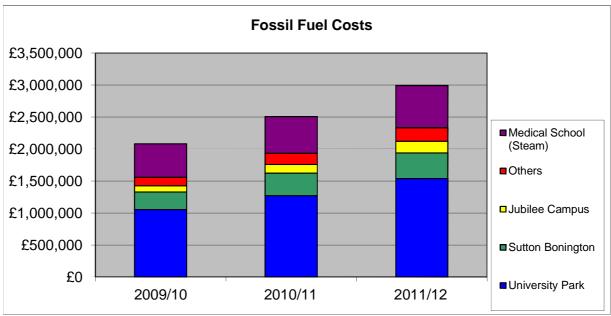


Figure 2.D.2 Graph of net fossil fuel costs for the last 3 years split by campus.

2.E - Water Consumption

Water consumption increased by 3.3% overall compared to 2010/11, exactly in line with the increase in student numbers of 3.3%. We are conscious, however, that we can improve this performance, particularly by reducing our own leakage rates. With this in mind, we are replacing elderly mains and developing a network metering scheme to detect leaks more quickly in 2013. Note that our consumption peaked at 925,520 cubic metres per annum back in 2004/5.

Water Consumption		cubic m.	cubic m.	cubic m.	Change
		2009/10	2010/11	2011/12	'10/11 to '11/12
University Park		489,239	483,105	507,199	5%
Sutton Bonington		136,755	161,700	169,280	5%
Jubilee Campus		84,248	93,491	98,213	5%
Others		13,190	18,308	18,557	1%
Medical School	_	43,705	56,088	46,009	-18%
T	otal	767,138	812,692	839,258	3%

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

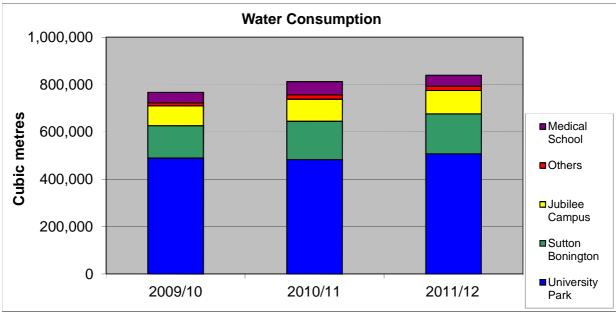


Figure 2.E.2 Graph of water usage for the last 3 years split by campus.

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

2.F - Water Costs

Severn Trent Water once again increased charges by more than inflation. The price of water supplied increased by 4.2% in April 2012, up from 97.52 p/m³ to 101.62p/m³ in summer for large sites such as University Park. The winter rate for large sites was up by the same percentage, from 52.25/m³ to 54.44 p/m³. Rates for used water at large sites were up 0.9%, from 88.6p/m³ to 89.41 p/m³. Charges for the surface water drainage element, which is based on site area, were up by 6.1% from £105,259 per annum to £111,691.

In order to minimise water charges, new supplies at Jubilee campus have been amalgamated with existing accounts for billing purposes to take advantage of large user tariffs.

Water Costs								Change
			2009/10		2010/11		2011/12	'10/11 to '11/12
University Park		£	756,455	£	875,753	£	933,874	7%
Sutton Bonington		£	236,468	£	273,151	£	285,713	5%
Jubilee Campus		£	171,413	£	188,573	£	219,726	17%
Others		£	50,911	£	62,445	£	63,663	2%
Medical School	·	£	84,000	£	122,000	£	114,000	-7%
	Total	£	1,299,246	£	1,521,922	£	1,616,976	6%

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

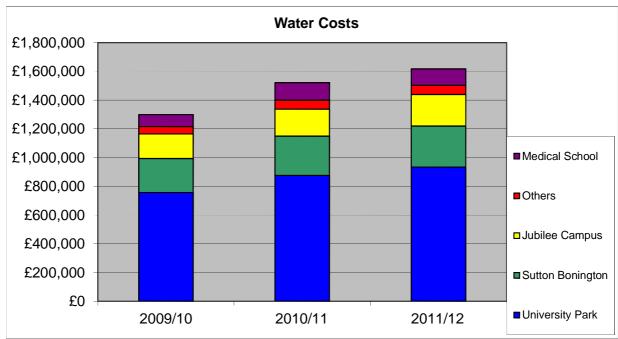


Figure 2.F.2 Graph of water costs for the last 3 years split by campus.

<u>Section 3 – Environmental Considerations</u>

3.A - Carbon Dioxide Emissions

The University's Carbon Management Plan has ambitious targets in place 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 2,500 Tonnes per annum.

In 2011/12 Carbon dioxide emissions were basically unchanged (a fall of 32 Tonnes), despite a rise in floor area of 3.5%, and a 3.3% increase in student numbers.

Note that 'green' electricity was purchased up until 31st August 2010, although no credit is shown in the attached data for this.

In the table and graph below, the Estates Management Statistics (EMS) emission factors have been used as shown:-

CO ₂ Emission Factors	2009/10	2010/11	2011/12
Electricity kg/kWh	0.542	0.541	0.541
Gas kg/kWh	0.205	0.204	0.204

Figure 3.A.1 Table of CO₂ emission factors for the last 3 years.

CO ₂ Emissions		Tonnes	Tonnes	Tonnes	Change
		2009/10	2010/11	2011/12	'10/11 to '11/12
University Park		39,194	38,007	37,578	-1.1%
Sutton Bonington		9,854	9,804	9,964	1.6%
Jubilee Campus		4,949	5,192	5,430	4.6%
Others		4,568	4,587	4,161	-9.3%
Medical School		10,061	9,865	10,289	4.3%
	Total	68,626	67,454	67,422	0.0%

Figure 3.A.2 Table of CO₂ emissions for the last 3 years split by campus.

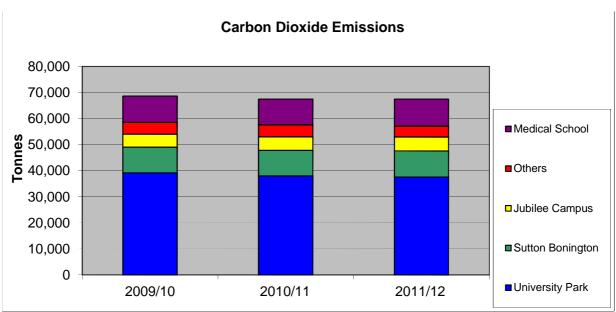
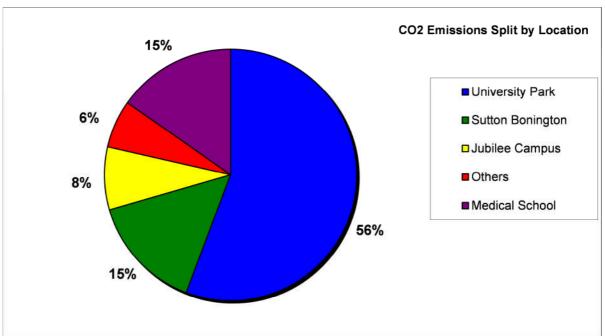


Figure 3.A.3 Graph of CO₂ emissions for the last 3 years split by campus.

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

CO2 Emissions	Tonnes	Tonnes	Tonnes	Prop'n	Prop'n
2011/2012	Electricity	Fossil Fuels	Total	Elec	Gas
University Park	24,376	13,201	37,578	65%	35%
Sutton Bonington	6,793	3,171	9,964	68%	32%
Jubilee Campus	3,962	1,468	5,430	73%	27%
Others	2,480	1,681	4,161	60%	40%
Medical School	5,216	5,073	10,289	51%	49%
Total	42,828	24,594	67,422	64%	36%

Figure 3.B.1 Table of CO₂ emissions split by campus and by utility



CO2 Emissions Split by Fuel Type

36%

General Section Split Section Section Split Section Split Section Secti

Figure 3.B.3 Chart of CO₂ emissions split by source fuel type

3.C - Weather Data - Degree Days

This year was considerably milder overall than the previous three years, with the Autumn and early part of the winter being exceptionally mild. Overall, we would expect heating usage to be down by 8% compared to 2010/11 based on the temperature alone.

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.

2011/12	Deg. Days	Deg. Days	Deg. Days	Deg. Days	'10/11 to'11/12
	20 Yr Avg	2009/10	2010/11	2011/12	Change
Aug	34	23	42	38	-9.5%
Sep	74	62	69	39	-43.5%
Oct	159	126	165	101	-38.8%
Nov	266	211	312	180	-42.3%
Dec	339	387	487	297	-39.0%
Jan	353	441	360	313	-13.1%
Feb	304	362	245	324	32.2%
Mar	279	296	263	235	-10.6%
Apr	212	198	124	251	102.4%
May	134	161	104	143	37.5%
Jun	70	54	64	75	17.2%
Jul	34	21	42	39	-7.1%
Total	2,258	2,342	2,277	2,035	-10.6%
			Weather mod	difier (75%)	-8.0%

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

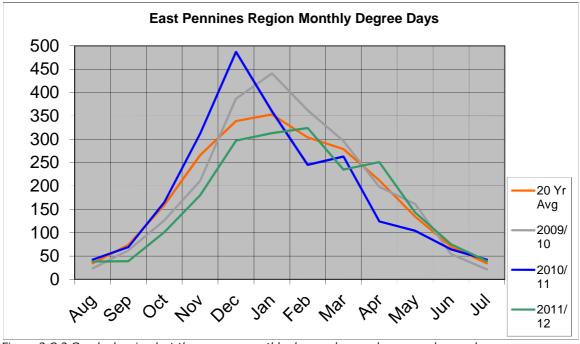


Figure 3.C.2 Graph showing last three years monthly degree days and average degree days

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

The table below shows that new buildings have been responsible for 4,600 Tonnes of CO_2 emissions during 2011/12. Our emissions for 2011/12 would have been 7.3% lower without the additions due to new-build.

	Units	University	New	% due to
		Total '11/12	Buildings	new build
2.A Electricity Consumption	MWh	79,165	6,424	8.8%
2.C Fossil Fuel Consumption	MWh	120,611	5,639	4.9%
1.E Energy Use Total	MWh	199,776	12,064	6.4%
2.E Water Consumption	cu.m.	839,258	22,675	2.8%
1.A Energy & Water Costs	£	£10,205,013	£258,992	2.6%
1.G Floor Area	m ²	605,328	50,870	9.2%
3.B Carbon emissions from elec.	tonnes	42,828	3,476	8.8%
3.B Carbon emissions from gas	tonnes	24,594	1,124	4.8%
3.A Total Carbon Emissions	tonnes	67,422	4,600	7.3%

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	6,500
Business Sch North		PV	14,500
Computer Sciences		PV	6,300
Derby Hall		PV	52,900
Lincoln Hall		PV	52,000
Environmental Education Centre		PV	14,400
Sustainable Research Building		PV	7,100
	Total		153,700
Rutland & Sherwood Hall		Solar thermal	11,300
Geospatial		Biomass	31,400
BioEnergy		Biomass	130,500
	Total		173,200

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		2011/12	2011/12	2011/12	2011/12	2011/12	2011/12	Floor Area
	Main Campus		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
	Environmental Education Centre	1439	66,977	183,790	600	36	37	£11,566	1,424
	Engineering Science Learning Cent	1661	283,415	702,200	820	153	143	£46,542	3,511
	Humanities	1671	267,762	60,666	624	145	12	£25,718	4,303
	Mathematical Sciences	1561	303,881	701,100	800	164	143	£48,206	4,674
	New eco-houses		40,000	2,445	200	22	0	£4,347	526
		Totals	895,058	1,466,411	2,444	484	299	£124,813	13,014
	New Sites		2011/12	2011/12	2011/12	2011/12	2011/12	2011/12	Floor Area
	Sutton Bonington		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
	Bio-energy and Brewing Sciences	5781	600,000	454,806	4,176	325	93	£75,383	3,493
	Bio-energy BIOMASS	5781	0	130,489	0	0	5	£6,379	(
	Veterinary School	5721	1,436,972	1,797,277	6,000	777	367	£177,910	8,334
	Gateway Building	5771	769,558	500,999	4,000	416	102	£85,620	3,253
	Sports Centre	5951	193,032	249,271	190	104	51	£23,995	2,450
	Future Crop Glasshouses	5445	100,000	218,771	500	54	45	£15,216	312
		Totals	3,099,562	3,351,613	14,866	1,677	662	£384,502	17,842
				• •					· · ·
	New Sites		2011/12	2011/12	2011/12	2011/12	2011/12	2011/12	Floor Area
	Jubilee Campus		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
1)	6 Triumph Road	7405	92,000	43,081	166	50	9	£10,812	324
1)	9 Triumph Road	7400	58,565	0	0	32	0	£16,897	399
1)	Institute of Mental Health	7370	0	58,256	100	0	12	£2,607	3,074
	International House	7320	573,824	0	1,045	310	0	£50,677	3,400
	Starbuck's Café	7305	106,000	1,564	50	57	0	£9,178	15:
	The Amenities Building	7330	404,275	253,030	2,338	219	52	£46,001	2,36
	Nottingham Geospatial Bulding	7350	364,058	155,946	425	197	32	£36,121	2,94
	Geospatial BIOMASS	7350	0	31,353	0	0	1	£1,200	. (
1)	Sir Colin Campbell Building	7340	604,499	85,987	770	327	18	£55,896	4,534
ĺ	New Supply, east of Tri. Rd		76,161	0	0	41	0	£9,669	, (
	****	Totals	2,279,382	629,217	4.894	1,233	123	£239,058	17,191
			_,,	,	.,	,			,
	New Sites		2011/12	2011/12	2011/12	2011/12	2011/12	2011/12	Floor Area
	Others		Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
	Clinical Sciences City Hosp Ph2	3325	87,612	77,817		47	16	£10,200	2,000
	Vaughan Parry Williams Pav.	6314	62,732	114,098	400	34	23	£9,734	823
		Totals	150,344	191,915	471	81	39	£19,934	2,823
	New Sites		2011/12	2011/12	2011/12	2011/12	2011/12	2011/12	Floor Area
			Elec kWh	Gas kWh	Water m3	Elec CO2	Gas CO2	Cost £	
	Main Campus		895,058	1,466,411	2,444	484	299	124,813	13,014
	Sutton Bonington		3,099,562	3,351,613	14,866	1,677	662	384,502	17,842
	Jubilee Campus		2,279,382	629,217	4,894	1,233	123	239,058	17,191
	Others		150,344	191,915	471	81	39	19,934	2,823
	Total of 12 accounts		6,424,346	5,639,156	22,675	3,476	1,124	£258,992	50,870

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		2011/12 kWh	2010/11 kWh	% change kWh	2011/12 £	2010/11 £	% change £	
	Main Campus Invoices	1000	45,016,152	44,447,070	1%	£3,148,334	£2,884,122	9%	
	Lenton Lodge	2251	25,300	22,900	10%	£2,300	£1,900	21%	Jul'12 estd
	Lenton Eaves (UNSSC)	1461	15,000	15,000	0%	£1,500	£1,400	7%	Jul'12 estd
	Lenton Eaves (UNSSC)	1461	1,000	1,000	0%	£200	£235	-15%	May - Jul'12 estd
	Redcourt Lodge	2222	600	1,400	-57%	£150	£220	-32%	Jul'12 estd
-	East Midlands Conference Centre		1,456,251	1,397,678	4%				Inc. in 'Main Camp. invoices'
(2)	Conference Centre Cottage		14,568	12,805	14%				Inc. in 'Main Camp. invoices'
	Total of 5 accounts	Totals	45,058,052	44,487,370	1%	£3,152,484	£2,887,877	9%	
	Electricity Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
	Sutton Bonington		kWh	kWh	kWh	£	£	£	
	Sutton Bonington Campus	6800	11,927,318	10,872,988	10%	846,773	710,347	19%	new Bio-energy & Gateway
	New Dairy	6500	500,000	490,000	2%	44,000	38,500	14%	Jul '12 estd
	Melton Lane Building A	5433	31,000	30,910	0%	2,900	2,558	13%	Jul '12 estd
	Eviton House (68 College Road)	5891	19,112	26,414	-28%	1,794	2,169	-17%	
	St.Michael's House (Flats 1-5)	6841	18,491	12,744	45%	2,116	1,696	25%	
	Bunny Park Farm	6860	10,970	10,730	2%	1,121	1,016	10%	
	St.Michael's Flats Nos 8&9	6843	8,829	11,790	-25%	1,384	1,782	-22%	
	40 College Road	6811	7,112	5,585	27%	748	544	37%	
	New Dairy Herdsman's house	6500	6,900	5,500	25%	780	550	42%	Jul '12 estd
	St.Michael's Close (Flats 10-15)	6840	5,700	5,828	-2%	700	650	8%	Jun & Jul '12 estd
	44 College Road	6814	5,428	4,876	11%	615	506	22%	
	24 College Road	6805	5,212	5,200	0%	572	540	6%	
	St.Michael's Flats Nos 6&7	6842	3,987	2,700	48%	929	900	3%	F
	Manor Farm NU Press 1	6910 6910	3,117	10,499	-70%	282	1,026	-72%	Empty from Oct '11
	Manor Farm NU Press 2	6819	2,884 430	17,325	-83% -86%	279	1,521 346	-82%	Empty from Oct '11
	50 College Road 45 College Road	6815	112	3,079 100	12%	130 97	120	-62% -19%	
	Manor Farm Pump House Kingsto	_	0	0	1270	110	144	-19%	Jun & Jul '12 estd
	Manor Farm Soar Irrigation Pump		0	0	-	107	152	-30%	Juli & Juli 12 estu
	Total of 19 accounts	Totals	12,556,602	11,516,268	9%	£905,438	£765,066	18%	
			12,500,002	11,010,200		2000,400	2,00,000	1070	
	Electricity Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
			LAMIL	LAMIL					
	Jubilee Campus Main Cumply	7000	kWh	kWh	kWh	£	£	£	
	Jubilee Campus Main Supply	7000	6,074,288	5,993,242	1%	£433,019	£396,850	9%	
	Jubilee Campus Main Supply Newark & Southwell Halls	7000	6,074,288 686,688	5,993,242 728,019	1% -6%	£433,019 £53,077	£396,850 £51,199	9% 4%	Building work
	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc	7000 7301	6,074,288 686,688 329,669	5,993,242 728,019 223,411	1%	£433,019 £53,077 £28,575	£396,850 £51,199 £18,380	9%	Building work
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbud New Supply 2012 East of Triumph	7000 7301 7000	6,074,288 686,688 329,669 76,161	5,993,242 728,019 223,411 0	1% -6% 48%	£433,019 £53,077 £28,575 £9,669	£396,850 £51,199 £18,380 £0	9% 4% 55%	Building work
	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbud New Supply 2012 East of Triumpl 9 Triumph Road (Dairy Crest Site)	7000 7301 7000	6,074,288 686,688 329,669 76,161 58,565	5,993,242 728,019 223,411 0 57,913	1% -6%	£433,019 £53,077 £28,575 £9,669 £8,297	£396,850 £51,199 £18,380 £0 £7,826	9% 4% 55% - 6%	·
	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbud New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site)	7000 7301 7000	6,074,288 686,688 329,669 76,161 58,565 92,000	5,993,242 728,019 223,411 0 57,913 146,860	1% -6% 48% - 1% -37%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700	£396,850 £51,199 £18,380 £0 £7,826	9% 4% 55% - 6% -32%	Apr - Jul '12 estd
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting	7000 7301 7000	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000	5,993,242 728,019 223,411 0 57,913 146,860 3,890	1% -6% 48% - 1%	£433,019 £53,077 £28,575 £9,669 £8,297	£396,850 £51,199 £18,380 £0 £7,826	9% 4% 55% - 6% -32% 31%	Apr - Jul '12 estd
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbud New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site)	7000 7301 7000 7201	6,074,288 686,688 329,669 76,161 58,565 92,000	5,993,242 728,019 223,411 0 57,913 146,860	1% -6% 48% - 1% -37% 54%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700	£396,850 £51,199 £18,380 £0 £7,826	9% 4% 55% - 6% -32% 31%	Apr - Jul '12 estd Jul '12 estd
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building	7000 7301 7000 7201 7340	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422	1% -6% 48% - 1% -37% 54%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700	£396,850 £51,199 £18,380 £0 £7,826	9% 4% 55% - 6% -32% 31%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts	7000 7301 7000 7201 7340 7370	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335	1% -6% 48% - 1% -37% 54% 2%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670	£396,850 £51,199 £18,380 £0 £7,826 £12,734 £512	9% 4% 55% - 6% -32% 31%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply'
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health	7000 7301 7000 7201 7340 7370	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0	1% -6% 48% - 1% -37% 54% 2%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670	£396,850 £51,199 £18,380 £0 £7,826 £12,734 £512	9% 4% 55% - 6% -32% 31%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices	7000 7301 7000 7201 7340 7370	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335	1% -6% 48% - 1% -37% 54% 2% *Change	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670	£396,850 £51,199 £18,380 £0 £7,826 £12,734 £512 £487,501	9% 4% 55% - 6% -32% 31% 11%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 10 Charnock Ave Lighting 10 Sir Colin Campbell Building 11 Institute of Mental Health 12 Total of 6 accounts Electricity Invoices Others	7000 7301 7000 7201 7340 7370 Totals	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501	9% 4% 55% - 6% -32% 31% 11% % change £ -25%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus	7000 7301 7000 7201 7340 7370 Totals	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501	9% 4% 555% - 6% -32% 31% 11% % change £ -25% 13%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School	7000 7301 7000 7201 7340 7370 Totals 6901 3561	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 £542,007	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832	9% 4% 555% - 6% -32% 31% 11% % change £ -25% 13% 3%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital)	7000 7301 7000 7201 7340 7370 Totals 6901 3561	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000	9% 4% 555% - 6% -32% 31% 11% % change £ -25% 13% 3%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph.2 (City Hospital)	7000 7301 7201 7340 7370 Totals	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% 13%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 £542,007 2011/12 £ £144,812 £82,375 £100,000 £8,000	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £7,000	9% 4% 55% - 6% -32% 31% 11% % change £ -25% 13% 3% 14% -9%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph.2 (City Hospital) Total Office Sports Ground - Highfields 14-22 Shakespeare Street	7000 7301 7000 7201 7340 7370 Totals 6901 3561 3325 6321 6311 6101	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% -19% 3% -19% 3% -16%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £7,000 £8,000 £5,246 £2,995	9% 4% 55% - 6% -32% 31% **Change £ -25% 13% 3% 3% 14% -9% 6% -12%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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) 14-22 Shakespeare Street Grove Farm - Old Farmhouse	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6321 6311 6101 6121	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% 13% -19% 3% -16% -64%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £7,000 £8,000 £8,000 £5,246 £2,995 £4,881	9% 4% 55% - 6% -32% 31% **Change £ -25% 13% 3% 14% -9% 6% -12% -56%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph.2 (City Hospital) Sports Ground - Highfields 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms	7000 7301 7000 7201 7340 7370 Totals 6901 3561 3325 6321 6311 6101 6121 6122	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% 13% -19% 3% -16% -64% 39%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £194,262 £72,832 £97,000 £7,000 £8,000 £5,246 £2,995 £4,881 £950	9% 4% 55% - 6% -32% 31% **Change £ -25% 13% 3% 14% -9% 6% -12% -56% 51%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms Grove Farm	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6311 6101 6121 6122 6123	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836	1% -6% 48% - 1% -37% 54% 2% ** change kWh -31% 6% 2% 13% -19% 3% -16% -64% 39% -90%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £194,262 £72,832 £97,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787	9% 4% 55% - 6% -32% 31% 11% % change £ -25% 13% 3% 14% -9% 6% -12% -56% 51% -85%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' costs est'd
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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) 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms Grove Farm 8 Peachey Street	7000 7301 7000 7201 7340 7370 Totals 6901 3561 3325 6321 6311 6101 6121 6122	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811 2,373	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836 8,300	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% -16% -64% 39% -90% -71%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550 £420	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787 £860	9% 4% 55% - 6% -32% 31% 11% % change £ -25% 13% 3% 14% -9% 6% 51% -56% 51%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012'
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms Grove Farm	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6311 6101 6121 6122 6123	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836	1% -6% 48% - 1% -37% 54% 2% ** change kWh -31% 6% 2% 13% -19% 3% -16% -64% 39% -90%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £194,262 £72,832 £97,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787	9% 4% 55% - 6% -32% 31% 11% % change £ -25% 13% 3% 14% -9% 6% 51% -56% 51%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' costs est'd
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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) 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms Grove Farm 8 Peachey Street	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6311 6101 6121 6122 6123	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811 2,373	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836 8,300	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% -16% -64% 39% -90% -71%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550 £420	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787 £860	9% 4% 55% - 6% -32% 31% 11% % change £ -25% 13% 3% 14% -9% 6% 51% -56% 51%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' costs est'd costs est'd
(1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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) 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms Grove Farm 8 Peachey Street Total of 15 accounts	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6311 6101 6121 6122 6123	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811 2,373 4,584,884	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836 8,300 5,513,944	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% 13% -19% 3% -16% -64% 39% -90% -71%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550 £420 £355,195	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £7,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787 £860 £397,814	9% 4% 55% - 6% -32% 31% **Change £ -25% 13% 3% 14% -9% 6% -12% -56% 51% -85% -51% -11%	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' costs est'd costs est'd
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 accounts Electricity Invoices Others King's Meadow Campus Derby Medical School Clinical Sciences (City Hospital) Clinical Sciences Ph.2 (City Hospital)	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6311 6101 6121 6122 6123	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811 2,373 4,584,884	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836 8,300 5,513,944	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% 13% -19% 3% -16% -64% 39% -90% -71% -17%	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550 £420 £355,195	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £194,262 £72,832 £97,000 £7,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787 £860 £397,814	9% 4% 55% - 6% -32% 31% **Change £ -25% 13% 3% 14% -9% 6% -12% -56% 51% -85% -51% -11% **Change £	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' costs est'd costs est'd
(1) (1)	Jubilee Campus Main Supply Newark & Southwell Halls Jubilee Sports Centre plus Starbuc New Supply 2012 East of Triumph 9 Triumph Road (Dairy Crest Site) 6 Triumph Road (Dairy Crest Site) Charnock Ave Lighting Sir Colin Campbell Building Institute of Mental Health Total of 6 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) 14-22 Shakespeare Street Grove Farm - Old Farmhouse Grove Farm - Changing Rooms Grove Farm 8 Peachey Street Total of 15 accounts Electricity Invoices Medical School	7000 7301 7000 7201 7340 7370 Totals 6901 3561 6321 6311 6101 6121 6122 6123	6,074,288 686,688 329,669 76,161 58,565 92,000 6,000 604,499 76,161 7,323,371 2011/12 kWh 2,057,312 1,131,458 1,094,324 87,612 82,071 61,224 24,643 23,636 15,421 4,811 2,373 4,584,884	5,993,242 728,019 223,411 0 57,913 146,860 3,890 591,422 0 7,153,335 2010/11 kWh 2,973,913 1,072,343 1,070,000 77,201 101,941 59,159 29,297 64,879 11,075 45,836 8,300 5,513,944 2010/11 kWh	1% -6% 48% - 1% -37% 54% 2% - 2% % change kWh -31% 6% 2% 13% -19% -16% -64% 39% -90% -71% -17% % change kWh	£433,019 £53,077 £28,575 £9,669 £8,297 £8,700 £670 2011/12 £ £144,812 £82,375 £100,000 £8,000 £7,277 £5,549 £2,636 £2,141 £1,434 £550 £420 £355,195	£396,850 £51,199 £18,380 £7,826 £12,734 £512 £487,501 2010/11 £ £194,262 £72,832 £97,000 £7,000 £8,000 £5,246 £2,995 £4,881 £950 £3,787 £860 £397,814	9% 4% 55% - 6% -32% 31% 11% % change £ -25% 13% 3% 14% -9% 6% -12% -56% 51% -85% -11% % change £	Apr - Jul '12 estd Jul '12 estd Inc. in 'J.C. Main Supply' Inc. in 'New supply 2012' costs est'd costs est'd Jun & Jul '12 estd

4.C - Appendix C - Fossil Fuel Data

Certern Hearing Station		Gas Invoices		2011/12	2010/11	% change kWh	2011/12	2010/11	% change	
Rutanch Hall S. Shewood Hall 2,191 2,22,344 2,905,380 -9% 685,407 654,335 57% Hugh Stewart Hall 2,181 2,489,149 2,608,716 -5% 665,607 57,165 14% Cripps Hall 2,171 2,023,764 2,163,776 -6% 650,561 46,077 24,085 25% Denty Hall 2,171 2,023,764 2,163,776 -6% 650,561 46,077 24,085 25% Denty Hall 2,187,149 1,187,150 -12% 1,187,160 -12% 1,187,160 -12% 1,187,160 -12%		•	1000							
Hugh Stewart Hall										
Crippe Hall										
Derby Hall										
Bio-Molecular Sciences Phase 1 333 1,887,095 2,133,560 -12% 449,977 422,869 10% Bio-Molecular Sciences Phase 2 333 1,867,312 1,809,836 3% 624,823 635,920 21% Bio-Molecular Sciences Phase 2 1571 1,772,688 5,959,878 12% 559,928 629,473 103% 103% 124,172,173,174 17% 633,010 622,177 3% 124,174 1			-							
Bio-Molecular Sciences Phase 2 1333 1,867,312 1,809,836 3% 642,823 639,200 21%			-							
Lestron & Wortley Hall		Bio-Molecular Sciences Phase 2	1353			3%			21%	
Lincoln Hal		Swimming Pool	1571	1,772,688	1,589,582	12%	£59,928	£29,473	103%	
Mybringhe Hall		Lenton & Wortley Hall	2141	1,587,467	1,713,374	-7%	£33,010	£32,107	3%	
Wilsonghy Hall		Lincoln Hall		1,566,531	1,616,037	-3%	£32,586	£30,423	7%	
Florence Boot Hall		Nightingale Hall		1,428,197	1,523,900	-6%	£30,019	£28,534	5%	
Science Area, MRI etc. 1271 1,139,890 1,179,800 -3% £23,476 £22,166 6%		Willoughby Hall		1,403,571	1,690,855	-17%	£37,045	£31,963		
Ancaster Hall			-	1,162,343	1,284,581		£24,234	£24,078		
22 Jesse Boot Conference Centre										
Caevendish Hall										
Boots Science Building 1881 896,560 1,148,752 -22% £22,720 £23,718 -4% Institute of Hearing Research 1401 688,974 785,965 -12% £14,232 £14,273 -3% Arts Centre & School of Music 1501 636,030 578,476 10% £113,238 £10,952 21% Wolfson Building 1421 597,765 488,616 22% £12,402 £11,270 14% The Building 1011 493,577 572,663 -9% £12,902 £11,270 14% The Building 1011 493,577 572,663 -9% £10,902 £11,270 -14% Sports Centre, Main Campus 1211 473,148 461,925 2% £9,910 £8,844 12% Staff Club Lenton Mount, Hemsley 1181 448,571 517,370 -13% £9,320 £9,782 .5% Lenton Firs - Built Environment 431 431,490 485,531 -13% £9,320 £9,822 .5% Lenton Firs - Built Environment 431 431,490 372,610 -7% £8,932 £8,652 .5% Lenton Firs - Built Environment 231 268,289 233,615 15% £6,575 £6,571 3% 66,757 £6,571 3% 67,776 67,776 37% 67,776 47%	2)									
Institute of Hearing Research										
Arts Centre & School of Music 1501 636,030 578,476 10% £113,238 £10,952 21% Worlson Bullding 1421 597,765 488,361 22% £12,476 £14,270 14% D.H.Lawrence Lakeside Pavilion 1631 519,777 572,663 -9% £10,902 £11,470 14% Thern Bullding 1101 493,577 572,663 -9% £10,502 £15,162 -131% Sports Centre, Main Campus 121 473,148 461,925 2% £9,910 £8,844 12% Staff Club Lenton Mount, Hemsley II81 448,571 51,7370 -119% £93,200 £9,982 -5% Lenton Firs - Bull Environment 1431 431,490 485,531 -11% £9,080 £9,201 -1% Innovative Technology Research C 1641 333,560 357,261 -7% £83,932 £8,852 -5% Lenton Hurst 2411 327,312 339,121 -3% £6,757 £6,571 3% Crippe Health Centre 1231 268,289 233,615 15% £5,657 £4,447 27% Redcourt 2221 240,021 224,99 -5% £4,807 £2,501 92% MMMMR (Production Engineering) 1571 229,153 131,068 75% £4,807 £2,501 92% Portsand Bullding Kwe Extn 1111 220,159 233,677 -6% £4,588 £4,436 3% Portsand Bullding Kreinen 1111 216,046 66,964 223% £4,579 £1,296 253% Environmental Education Centre (1439 183,790 150,723 22% £4,579 £1,296 253% Lenton Grove (History) 1211 182,563 179,881 1% 65,3893 £3,534 10% Fibress Centre 1221 140,516 144,174 -3% £2,365 £3,102 18% Rutland Hall Extension HWS 2195 135,693 96,400 41% £2,758 £1,820 £2,64 5% Sherwood Hall Extension Hy94 (H; 2115 02,866 37,319 36,400 41% £2,758 £1,820 25% Lenton Close Annexe (Cripps Hall) 2175 99,493 92,638 79% £2,124 £1,789 £1,613 11% Rutland Hall Extension HWS 2150 85,448 83,003 22% £2,675 £1,861 £2,047 -9% Rutland Hall Extension HWS 2150 85,448 83,003 25% £2,075 £1,810 25% Lenton Close Annexe (Cripps Hall) 2175 99,493 92,638 79% £2,124 £1,789 61,613 11% Rutland Hall Extension HWS 2150 85,448 83,903 22%		-								
Wolfson Bulding		-								
D.H.Lawrence Lakeside Pavilion 1631 519,777 572,653 -9% £12,902 £11,270 14% Trent Building 1101 493,577 769,171 -3.6% £10,528 £15,162 -31% 595										
Trent Bulding 1101 493,577 769,171 -36% £10,528 £15,162 -31% Sports Centre, Main Campus 1221 473,148 448,571 517,370 -13% £9,320 £9,782 -5% Elenton Firs - Bulk Environment 1431 431,490 485,531 -11% £9,080 £9,201 -1% Elenton Firs - Bulk Environment 1431 431,490 485,531 -11% £9,080 £9,201 -1% Elenton Firs - Bulk Environment 1431 431,490 485,531 -11% £9,080 £9,201 -1% Elenton Firs - Bulk Environment 1431 431,490 485,531 -11% £9,080 £9,201 -1% Elenton Hurst 2411 327,312 339,121 -3% £6,757 £6,571 3% Elenton Hurst 2411 327,312 339,121 -3% £6,757 £6,571 3% Elenton Hurst 2211 240,021 252,499 -5% £4,992 £4,819 4% Elenton Bulding New Extr 1111 220,159 233,677 -6% £4,588 £4,436 3% Portand Bulding Nèwe Extr 1111 220,159 233,677 -6% £4,588 £4,436 3% Elenton Grove (History) 1211 182,563 179,881 1% £3,893 £3,534 10% Environmental Education Centre (1439 183,790 150,723 22% £4,728 £2,732 73% Elenton Grove (History) 1211 182,563 179,881 1% £3,893 £3,534 10% Environmental Education Centre (1439 135,914 6% £2,989 £2,618 14% Environmental Education Centre (1439 135,693 64,80 41% £2,755 £1,862 52% Elenton Eaves (UNSSC) 1461 126,665 137,319 8% £3,432 £3,264 5% Elenton Eaves (UNSSC) 1461 126,665 137,319 8% £3,432 £3,264 5% Elenton Eaves (UNSSC) 1461 126,665 137,319 8% £3,432 £3,264 5% Elenton Close Annexe (Cripps Hall) 2175 99,493 92,638 7% £2,975 £1,805 1.1% Elenton Flore Contrads 1161 83,448 90,464 -33% £2,327 £3,108 -25% Elenton Close Annexe (Cripps Hall) 2175 99,493 92,638 7% £2,075 £1,789 £0,665 £1,780 £1		-								
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Redcourt Lodge 2222 1,362 0 - £108 £0 -		5, 5 ,	1223							
			2222							
			2222 Totals	1,362 64,711,706	68,330,916	-5%	£108 £1,537,595	£1,269,973	21%	

4.C - Appendix C - Fossil Fuel Data continued

.C - Appendix C -	Fossi	l Fuel D	ata con	tinued				
Gas Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
Sutton Bonington		kWh	kWh	kWh	£	£	£	
Main Boilerhouse	6800	6,725,699	9,065,848	-26%	£176,285	£182,732		meter under-recorded
Animal Houses Boilerhouse	6800	2,832,167	2,908,579	-3%	£61,998	£54,765	13%	
Plant Sciences Veterinary School	5711 5721	2,070,236 1,797,277	2,149,938	-4%	£53,419	£44,441	20% 17%	
Gateway Building (Bio-Science		500,999	1,863,392 62,200	-4% 705%	£44,475 £12,641	£38,161 £2,015		First full year
Bio-Energy and Brewing Science		454,806	120,353	278%	£12,641 £16,443	£5,271		First full year First full year
Sports Centre SB (New)	5951	249,271	290,365	-14%	£7,259	£6,051	212%	riist iuii yeai
Future Crop Glasshouses	3931	218,771	290,303	-1470	£5,771	£0,031		New supply
The Elms (Environmental Scien	nce - 5161	135,204	181,053	-25%	£4,030	£3,695	9%	тем зарріу
Bio-Energy BIOMASS	5781	130,489	18,700	598%	£6,379	£865		First full year
Eviton House (68 College Road	_	110,000	121,000	-9%	£1,900	£2,000		Estd
The Firs (Surgery No.2)	5233	93,341	237,153	-61%	£1,993	£4,423	-55%	2000
Main Building (Sutton Boningto		70,498	89,465	-21%	£1,509	£1,705	-11%	
Food Science Building	5701	52,501	53,149	-1%	£1,096	£990	11%	
Bonington Hall Laundry & Gym	5881	40,267	33,315	21%	£864	£630	37%	
St.Michael's House (Flats 1-5)	6841	36,345	31,121	17%	£863	£557	55%	
St.Michael's House Flat 1	6841	29,626	22,765	30%	£730	£417	75%	
Bonington Hall Warden's House	e 5842	28,311	27,026	5%	£607	£521	17%	
52 College Road	6820	24,267	24,218	0%	£523	£464	13%	
24 College Road	6805	22,677	24,627	-8%	£486	£466	4%	
St.Michael's Flats Nos 6&7	6842	12,252	59,804	-80%	£1,181	£1,556	-24%	
St.Michael's House Flat 3	6841	11,394	11,253	1%	£246	£243	1%	
St.Michael's Flats Nos 8&9	6843	10,652	10,723	-1%	£558	£340	64%	
St.Michael's House Flat 4	6841	3,390	6,823	-50%	£71	£130	-45%	
North Laboratory	5091	760	698	9%	£16	£14	14%	
Hathern House, Bon. Hall (4)	5831	0	0	-	£0	£0	-	
South Laboratory	5051	0	32	-100%	£0	£1	-100%	
Old Sports Hall SB (VLA)		0	0	-	£0	£11	-100%	
Food Hall	5081	-4	89,975	-100%	£0	£1,713	-100%	
St.Michael's House Flat 5	6841	-12,380	12,533	-199%	-£222	£315	-171%	
Total of 30 accounts	Totals	15,648,816	17,516,108	-11%	£401,121	£354,493	13%	
Gas Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
Jubilee Campus		kWh	kWh	kWh	£	£	£	
Newark Hall	7130	1,241,396	1,222,549	2%	£38,951	£28,983	34%	
Business School South (New)	7080	821,021	535,698	53%	£20,872	£10,195	105%	
Computer Sciences (DCS) & T	he / 7040	775,604	760,442	2%	£16,361	£14,402	14%	
Southwell Hall	7120	679,302	600,820	13%	£18,441	£11,429	61%	
Melton Hall	7110	652,437	647,648	1%	£13,815	£12,260	13%	
Business School North (SMF)	7020	606,755	632,462	-4%	£13,573	£13,781	-2%	
Dearing Building (FOE)	7050	598,911	513,459	17%	£12,780	£9,572	34%	
The Exchange (CTF)	7030	536,838	588,894	-9%	£11,581	£11,230	3%	
Jubilee Sports Centre	7301	429,373	369,861	16%	£11,398	£7,713	48%	
The Amenities Building + Int. H		253,030	0	-	£7,206	£0		New supply
Catering (CCF) HWS	7040	252,346	368,834	-32%	£5,360	£7,130	-25%	
The Nottingham Geospatial Bu		155,946	168,971	-8%	£4,429	£4,200	5%	
) Sir Colin Campbell Building (Ga		85,987	0	-	£3,148	£0		New supply
) Institute of Mental Health	7999	58,256	0	-	£2,414	£0		New supply
6 Triumph road		43,081	49,700	-13%	£1,328	£2,152		
Geospatial BIOMASS		31,353	22,461	40%	£1,200	£900		estd
Starbucks Café Total of 17 items		1,564	6,481,799		£93	£0		New supply
Total of 17 Items		7,223,200	6,481,799	11%	£182,951	£133,947	37%	
Gas Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
Others		kWh	kWh	kWh	£	£	£	CUR
King's Meadow Campus	6901	5,450,087	4,253,498	28%	£125,255	£85,116		CHP in operation
Derby Medical School	3561	1,401,758	1,721,917	-19%	£37,241	£34,515	8%	10/11
Clinical Sciences (City Hospital) Pn 3325	698,916	1,100,000	-36%	£20,000	£30,000		10/11 was actually 80
Grove Farm OIL	6211	210,000	210,000	0%	£14,000	£11,000		EST0
Sports Ground - Highfields Vaughan Parry Williams Pavilion	6311 n 6314	148,585	137,496	8%	£4,082	£2,889 £0		New supply
Clinical Sciences (City Hospital		114,098	141 369		£3,642			Costs estd
Boathouse OIL) r11.2	77,817 50,000	141,369	-45% 0%	£2,000	£4,000		
14-22 Shakespeare Street	6101	50,000 9,672	50,000 137,000	-93%	£2,800 £2,082	£2,200 £2,968	27% -30%	Lotu
	6101	59,672			£2,082 £144		-30%	
x Paachay Stroot	0102		123,068 -14,599		£144 £0	£2,694 -£203		
8 Peachey Street Sports Ground - Highfields Tea	PO 6311		-14.399	-T00%0				
Sports Ground - Highfields Tea	Ro 6311	8.160.992		4%	£211 246	£175 178	21%	
	Ro 6311	8,160,992	7,859,749	4%	£211,246	£175,178	21%	
Sports Ground - Highfields Tea	a Ro 6311			4%				
Sports Ground - Highfields Tea	a Ro 6311			4% % change	£211,246 256.9 2011/12	186.45 2010/11		
Sports Ground - Highfields Tea Total of 11 accounts	a Ro 6311	8,160,992	7,859,749		256.9	186.45		
Sports Ground - Highfields Tea Total of 11 accounts Steam Used	a Ro 6311	8,160,992 2011/12	7,859,749 2010/11	% change	256.9 2011/12	186.45 2010/11	% change	Cooling issues. Costs 6
Sports Ground - Highfields Tea Total of 11 accounts Steam Used Medical School	a Ro 6311	8,160,992 2011/12 kWh	7,859,749 2010/11 kWh	% change kWh	256.9 2011/12 £	186.45 2010/11 £	% change £	Cooling issues. Costs &

4.D - Appendix D - Water Data

	Water Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
	Main Campus	1000	cubic m.	cubic m.	cubic m.	£	£	£	
		1000	482,095	451,548	7%	£0	£0	-	Now includes science area
		2161 2221	7,925	10,567	-25%	£0	£0	-	
		1000	3,491	1,987	76% -73%	£0	£0	-	grounds usage Off from Dec'11
		1481	2,590 2,377	9,566	-73%	£0	£0	-	Oli irolli Dec 11
		1481	1,847	2,443 747	147%	£0	£0	-	Hotel build
		1461	1,788	1,689	6%	£0	£0	-	notei bullu
		1211	1,538	972	58%	£0	£0	-	
	` ''	1441	977	1,055	-7%	£0	£0	-	
		1431	917	774	18%	£0	£0	-	
		2411	776	824	-6%	£0	£0	-	
	Beeston Lane Gardeners' Compou	_	384	404	-5%	£0	£0	-	Account now closed
		2251	234	249	-6%	£0	£0	-	Account now closed
	2	1411	234	235	0%	£0	£0	-	
	5A Wortley Hall Close (Eco-House		26	45	-42%	£0	£0	-	
	Water + SWD invoices	1000	0	0	-	£493,874	£451,259	9%	
	TE & sewerage	1000	0	0	-	£440,000	£424,494		2012 Estd
	otal of 17 accounts	Total	507,199	483,105	5%	£933,874	£875,753	7%	2012 250
		rotak	001,100	400,100	0,0	2000,014	2010,100	. /0	
	Water Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
S	Sutton Bonington		cubic m.	cubic m.	cubic m.	£	£	£	
L	andcroft Lane meter	6800	154,250	144,000	7%	£0	£0		10/11 actually 150,247
C	College Road meter	6800	14,099	8,600	64%	£0	£0	-	10/11 actually 8,791
S	St.Michael's House (Flats 1-5)	6841	754	8,960	-92%	£1,856	£20,075	-91%	Leak fixed Jun'11
В	Bunny Park Farm	6860	177	140	26%	£283	£230	23%	
Т	Frough, Kegworth Road	6910	0	0	-	£22	£24	-7%	
	SB Water Costs	6800	0	0	-	£143,552	£125,000	15%	
_	SB TE costs	6800	0	0	-	£140,000	£127,822	10%	2012 estd
	Gateway Building		664	71	26%				Inc. in 'Landcroft L. meter'
To	otal of 7 items		169,280	161,700	5%	£285,713	£273,150	5%	
v	Water Invoices		2011/12	2010/11	% change	2011/12	2010/11	% change	
	New Campus		cubic m.	cubic m.	cubic m.	£	£	£	
	lubilee Campus main meter	7000	52,359	59,386	-12%	£0	£0	-	
	Newark Hall	7130	29,231	19,662	49%	£0	£0	-	
_	Southwell Hall	7120	8,227	7,557	9%	£0	£0	-	
	The Amenities Building	7330	2,338	2,216	6%	£0	£0	-	
	lubilee Sports Centre	7301	2,249	861	161%	£0	£0	-	Building work
	Triumph Road		1,401	1,300	8%	£0	£0	-	<u>J</u> .
	international House	7320	1,045	1,275	-18%	£0	£0	-	
	Sir Colin Campbell Building (Gatew		770	677	14%	£0	£0	-	
	The Nottingham Geospatial Buildin		425	326	30%	£0	£0	-	
	5 Trumph Road		166	230	-28%	£784	£900	-14%	
-	Charnock Ave Sports Pavilion	7201	2	2	0%	£26	£40	-35%	
	Triumph Road costs inc. SWD		0	0	-	£8,600	£0	856%	2010/11 was £4,453
	lubilee Campus costs	7000	0	0	-	£210,317	£187,633	12%	,
J									
	otal of 13 items	7000	98,213	93,492	5%	£219,726	£188,573	17%	
To	otal of 13 items	7000		93,492		£219,726	Ĺ	17%	
To	·	7000	2011/12	2010/11	% change		£188,573 2010/11	17% % change	
V C	otal of 13 items Water Invoices Others	7000		Ĺ		£219,726	2010/11 £	% change	
V C	otal of 13 items Water Invoices Others King's Meadow Campus	6901	2011/12	2010/11 cubic m. 10,200	% change cubic m. -13%	£219,726 2011/12	2010/11 £ £44,000	% change £ -9%	Jul'12 estd
V C K	otal of 13 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph	6901 3325	2011/12 cubic m. 8,900 4,408	2010/11 cubic m. 10,200 2,218	% change cubic m. -13% 99%	£219,726 2011/12 £ £40,153 £12,000	2010/11 £ £44,000 £6,500	% change £ -9% 85%	Costs estd
V C K C S	otal of 13 items Water Invoices Others King's Meadow Campus Linical Sciences (City Hospital) Ph Sports Ground - Highfields	6901 3325 6311	2011/12 cubic m. 8,900 4,408 2,228	2010/11 cubic m. 10,200 2,218 2,092	% change cubic m. -13% 99% 7%	£219,726 2011/12 £ £40,153 £12,000 £5,310	2010/11 £ £44,000 £6,500 £4,890	% change £ -9% 85% 9%	Costs estd
V C K C S	otal of 13 items Water Invoices Others Cling's Meadow Campus Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms	6901 3325 6311 6122	2011/12 cubic m. 8,900 4,408 2,228 1,550	2010/11 cubic m. 10,200 2,218 2,092 2,000	% change cubic m. -13% 99% 7% -23%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400	2010/11 £ £44,000 £6,500 £4,890 £2,800	% change £ -9% 85% 9% -14%	Costs estd Jul '12 estd
V C K C S G	Vater Invoices Others Ging's Meadow Campus Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Boat House	6901 3325 6311 6122 6321	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200	% change cubic m. -13% 99% 7% -23% 17%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000	% change £ -9% 85% 9% -14% 10%	Costs estd Jul '12 estd Jul '12 estd
V C K C S G	Vater Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Boat House Clinical Sciences (City Hospital) Ph	6901 3325 6311 6122 6321 3325	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57	% change cubic m. -13% 99% 7% -23% 17% 25%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000	% change £ -9% 85% 9% -14% 10% 33%	Costs estd Jul '12 estd Jul '12 estd Costs estd
V C K C S G B C	Vater Invoices Others Others Cing's Meadow Campus Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Soat House Clinical Sciences (City Hospital) Ph 14-22 Shakespeare Street	6901 3325 6311 6122 6321 3325 6101	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479	% change cubic m. -13% 99% 7% -23% 17% 25% -100%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £250	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000 £150 £842	% change £ -9% 85% 9% -14% 10% 33% -70%	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd
V C K C S G B C	Vater Invoices Others Others Clinical Sciences (City Hospital) Pheoports Grove Farm - Changing Rooms And House Clinical Sciences (City Hospital) Pheoports	6901 3325 6311 6122 6321 3325	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71 0	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479	% change cubic m. -13% 99% 7% -23% 117% 25% -100% -100%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £250 £550	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000 £150 £842 £264	% change £ -9% 85% 9% -14% 10% 33% -70% -81%	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd Jun& Jul '12 estd
V C K C S G B C	Vater Invoices Others Others Cing's Meadow Campus Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Soat House Clinical Sciences (City Hospital) Ph 14-22 Shakespeare Street	6901 3325 6311 6122 6321 3325 6101	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479	% change cubic m. -13% 99% 7% -23% 17% 25% -100%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £250	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000 £150 £842	% change £ -9% 85% 9% -14% 10% 33% -70% -81%	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd Jun& Jul '12 estd
V C K C S G B C 1	Vater Invoices Others Clinical Sciences (City Hospital) Pheorets Grove Farm - Changing Rooms Boat House Clinical Sciences (City Hospital) Pheorets Clinical Pheorets Clinical Pheorets Clinical Pheorets Clinical Pheorets Clinical Pheo	6901 3325 6311 6122 6321 3325 6101	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71 0 18,557	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479 62 18,308	% change cubic m. -13% 99% 7% -23% 17% 25% -100% -100%	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £250 £550 £63,663	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000 £150 £842 £264 £62,446	% change £ -9% 85% 9% -14% 10% 33% -70% -81% 2%	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd Jun& Jul '12 estd
V K K C C S S G B C C 1 1 8 T C	Vater Invoices Others Others Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Boat House Linical Sciences (City Hospital) Ph L4-22 Shakespeare Street B Peachey Street otal of 12 accounts Vater Recharges	6901 3325 6311 6122 6321 3325 6101	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71 0 18,557	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479 62 18,308	% change cubic m13% -99% -7% -23% -17% -25% -100% -100% -1% % change	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £3,300 £250 £50 £63,663	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000 £150 £842 £264 £62,446	% change £ -9% 85% 9% -14% 10% 33% -70% -81% 2%	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd Jun& Jul '12 estd
V C C C C C C C C C C C C C C C C C C C	Vater Invoices Dthers Others Ging's Meadow Campus Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Boat House Clinical Sciences (City Hospital) Ph L4-22 Shakespeare Street B Peachey Street Otal of 12 accounts Water Recharges Wedical School	6901 3325 6311 6122 6321 3325 6101	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71 0 18,557 2011/12 cubic m.	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479 62 18,308 2010/11 cubic m.	% change cubic m13% 99% 7% -23% 17% 25% -100% -100% 1% % change cubic m.	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £350 £50 £63,663	2010/11 £ £44,000 £6,500 £4,890 £3,000 £150 £842 £264 £62,446	% change £ -9% 85% 9% -14% 10% 33% -70% -81% 2% % change	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd Jun& Jul '12 estd
VV CC C	Vater Invoices Others Others Clinical Sciences (City Hospital) Ph Sports Ground - Highfields Grove Farm - Changing Rooms Boat House Linical Sciences (City Hospital) Ph L4-22 Shakespeare Street B Peachey Street otal of 12 accounts Vater Recharges	6901 3325 6311 6122 6321 3325 6101	2011/12 cubic m. 8,900 4,408 2,228 1,550 1,400 71 0 18,557	2010/11 cubic m. 10,200 2,218 2,092 2,000 1,200 57 479 62 18,308	% change cubic m13% -99% -7% -23% -17% -25% -100% -100% -1% % change	£219,726 2011/12 £ £40,153 £12,000 £5,310 £2,400 £3,300 £200 £3,300 £250 £50 £63,663	2010/11 £ £44,000 £6,500 £4,890 £2,800 £3,000 £150 £842 £264 £62,446	% change £ -9% 85% 9% -14% 10% 33% -70% -81% 2% % change £ -10%	Costs estd Jul '12 estd Jul '12 estd Costs estd Jun& Jul '12 estd Jun& Jul '12 estd

