Energy Report 2004/5

2004/5 Energy Report - Executive Summary

This energy report is produced to provide statistical information on costs and consumption of energy and water in University premises over a rolling three year period.

This year has been particularly challenging with the impact of significant increases in the world energy supply markets starting to show in our costs as the benefits of previous favourable procurement periods expire.

The annual key performance indicators (KPI's) from this year's report are as follows:-

Turnover

The University's turnover has increased by 7.7% during this reporting year

Student Numbers

The student numbers for full-time students have increased by 4.1%.

Premises

The overall premises Gross Internal Area (GIA) has increased by 6.8% over this year.

Energy

Energy consumption rose 8%.

Energy consumption per square metre was up by 1.5%.

Energy usage per FT student rose by 4.1% after falling for the previous three years.

Water

Water consumption rose by 11% during this reporting period.

Costs

All-inclusive costs for 2004/5 rose 24% to £6.15 million.

Environmental

Carbon Dioxide Emissions were reduced by 31% due to increased amounts of 'green' electricity being purchased.

Future Projections

Due to the volatility of the world energy markets, there has been a continuation of recent trends of rising costs of all forms of energy supply with unprecedented increases in the unit cost of electricity and gas during the summer of 2005. This cost inflation will result in significantly higher energy costs when most of our supply contracts are renewed at the end of September.

Industry indices cost projections suggest increased costs of around 50% for 2005/06 compared to those for 2004/05. Procurement activity during this period of volatility has followed industry best practice, tracking the monthly spot energy prices to avoid excessive risk premiums in longer term deals. In this market our current supply of green energy at zero cost differential is unlikely to be available over the next year.

The Energy Sub-Group has focussed additional activities and resources toward reducing recurrent energy consumption and is targeting a further reduction of 5% for 2005/06. A number of awareness initiatives are being promoted throughout the University premises and further emphasis will be placed on the use of energy efficient devices in our buildings and future developments.

Notes to accompany Executive Summary

The management of energy is undertaken by the Energy Sub-Group, which reports into the Environment Committee, chaired by the PVC for Infrastructure. As part of its strategy to control consumption and costs, the Energy Sub-Group has commissioned an Energy Report each year since 1997/8.

The membership of the Energy Sub-Group for 2004/5 was as follows:-

- C. Jagger Director of Estate Management
- G. Scott Environment Manager, Estates
- J. Seymour Management Accountant, Finance
- T. Rudge Energy Management Engineer, Estates
- Dr. S.Pickering Senior Lecturer, School of MMMEM
- P. Cooper Senior Engineer, Estates
- Dr. R. Wilson Senior Lecturer, Institute of Building Technology
- J. Yarnall BMS/Controls Engineer, Estates
- L. Powell Environment & Social Justice Officer, SU

Note that all figures relate to the University's financial year of August 1st 2004 to July 31st 2005, with the baseline for comparison being the previous (2003/4) financial year.

Utilities continue to be procured via Notice Ltd, which is a wholly owned subsidiary of the University of Nottingham.

2004/5 Energy Report

Contents

Introduction	5
Section 1 - Total Energy Report	
1.A - Energy and Water Costs Summary 1.B - Energy costs per square metre for each Campus 1.C - 2004/2005 Costs Broken Down by Campus and Utilities 1.D - Energy Use Summary 1.E - Energy Use Breakdown by Campus and Utilities 1.F - Energy Usage and Cost Comparison with Area 1.G - Energy Usage and Cost per FT Student 1.H - Climate Change Levy and VAT 1.I - Utility Costs as a Proportion of University Spending 1.J - Comparison to Other Universities	6 7 8 9 10 11 12 13 13
Section 2 – Analysis of Energy Components	
2.A - Electricity Consumption 2.B - Electricity Costs 2.C - Fossil Fuel Consumption 2.D - Fossil Fuel Costs 2.E - Water Consumption 2.F - Water Costs	15 16 17 18 19 20
Section 3 - Environmental Considerations	
 3.A - Carbon Dioxide Emissions 3.B - Carbon Dioxide Emissions Breakdown by Campus and Utilities 3.C - Weather Data - Degree Days 3.D - Major Asset Alterations 3.E - Conclusions 	21 22 23 24 24
Section 4 – Appendices	
4.A - Appendix A - Electricity Data 4.B - Appendix B - Fossil Fuel Data 4.C - Appendix C - Water Data	25 26 28

Introduction

The annual energy report is produced to provide statistical information over a rolling three-year period. The data includes all of the University's UK building stock with the exception of student houses not located within our campuses.

It concentrates on three sections; the content in broad terms is:

Section 1 - Total Energy Report

Covering total energy costs broken down by campus, meterage squared and full-time student numbers set against the total University turnover.

Section 2 - Analysis of Energy Components

Covering the analysis of electricity, fossil fuels (gas and fuel oil) and water consumption and costs associated directly with the consumption.

Section 3 - Environmental Considerations

Covering carbon dioxide emissions and how the climatic conditions in the East Midlands and weather data affect the required heating load for the University.

1.A. - Energy and Water Costs Summary

Our energy and water bills rose by almost £1.3 million last year, as the effect of rapidly rising world energy prices began to feed through to the University's energy contracts. The vast majority of the increase was down to electricity, where the price rose 58% from October 2004 after our existing two-year contracts ended. Similar rises in the price of gas have not yet impacted heavily on the results shown in this report, but will do so next year.

Water prices also rose by around 18% from April 2004, and are expected to rise at greater than RPI over the next four years.

Energy prices have continued to rise in the summer of 2005, will impact with increased costs on our new contracts for gas and electricity commencing October 2005. To minimise these rises, 'flexible' energy purchasing was used for the first time, linking our price to current energy markets

Energy and Water Costs				Change
	2002/3	2003/4	2004/5	'04/5 to '03/4
University Park	£2,077,626	£ 2,237,998	£3,043,972	36%
Sutton Bonington	£ 539,512	£ 536,245	£ 725,387	35%
Jubilee Campus	£ 296,760	£ 332,314	£ 379,587	14%
Others	£ 90,482	£ 147,268	£ 292,862	99%
Medical School	£1,013,500	£ 927,317	£1,026,500	11%
Total	£ 4,017,880	£ 4,181,142	£ 5,468,308	31%

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

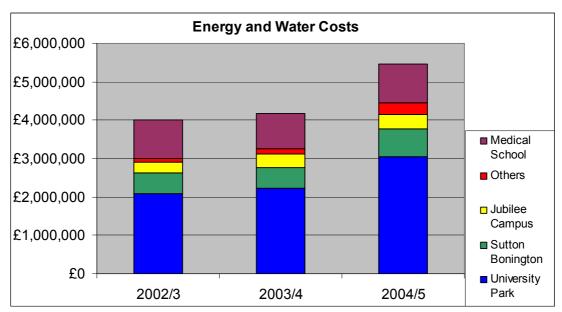


Figure 1.A.3 Graph of energy and water costs for the last 3 years split by campus.

Note that these figures exclude VAT and Climate Change Levy, which are discussed on page 10.

1.B. - Energy costs per square metre for each Campus

Campus Costs	Cost/sq.m/annum						
	Floor Area	Electricity	Heating	Total			
University Park	277,857	£6.22	£2.47	£8.69			
Sutton Bonington	48,459	£8.40	£3.47	£11.87			
Jubilee Campus	41,589	£4.93	£1.33	£6.26			
Others	52,828	£2.99	£1.66	£4.65			
Medical School	45,036	£8.90	£12.59	£21.49			
Total	465,769	£6.22	£3.36	£9.58			

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

Overall energy costs per square metre have risen to £9.58, up from £7.60 in 2003/4. Note that the acquisition of King's Meadow Campus (21,340 square metres) has reduced the 'Others' total cost per square metre from £6.20 last year to £4.65 this year.

1.C - 2004/2005 Costs Broken Down by Campus and Utilities

Energy and Water Costs				
	Electricity	Fossil Fuels	Water	Total
University Park	£1,727,374	£ 685,857	£ 630,741	£ 3,043,972
Sutton Bonington	£ 406,862	£ 168,360	£ 150,165	£ 725,387
Jubilee Campus	£ 205,062	£ 55,188	£ 119,337	£ 379,587
Others	£ 158,094	£ 87,803	£ 46,965	£ 292,862
Medical School	£ 401,000	£ 567,000	£ 58,500	£ 1,026,500
Total	£ 2,898,392	£ 1,564,208	£1,005,708	£ 5,468,308

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

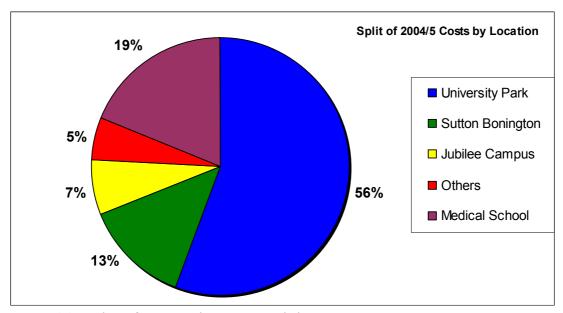


Figure 1.C.2 Pie chart of energy and water costs split by campus

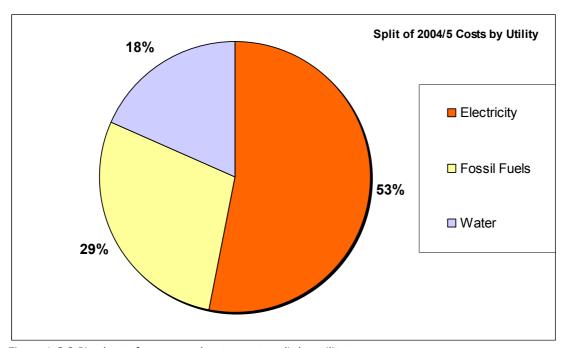


Figure 1.C.3 Pie chart of energy and water costs split by utility type

1.D - Energy Use Summary

Energy consumption was up by 8% on 2003/4, compared to an increase in premises area of 7%.

The raw figures show both electricity and fossil fuel usage rising 8%. The underlying trend over the last five years is that efficiency savings are being made on fossil fuels. There has been continued growth in electricity usage of 4% to 8% per annum as the University has grown.

Energy Consumption	MWh	MWh	MWh	Change	
	2002/3	2003/4	2004/5	'04/5 to '03/4	
University Park	105,755	109,116	116,269	7%	
Sutton Bonington	28,036	26,682	26,706	0%	
Jubilee Campus	9,087	9,333	10,396	11%	
Others	3,704	5,886	10,404	77%	
Medical School	42,200	31,585	34,150	8%	
Total	188,782	182,602	197,924	8%	

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

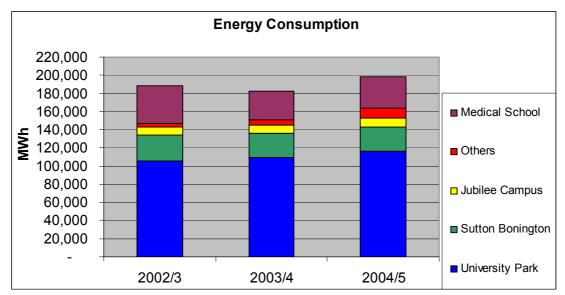


Figure 1.D.3 Graph of energy consumption for the last 3 years split by campus

1.E - Energy Use Breakdown by Campus and Utilities

Energy Consumption	MWh	MWh	MWh
2004/2005	Electricity	Fossil Fuels	Total
University Park	43,245	73,024	116,269
Sutton Bonington	10,215	16,491	26,706
Jubilee Campus	5,091	5,305	10,396
Others	3,020	7,383	10,404
Medical School	9,900	24,250	34,150
Tota	T 71,471	126,452	197,924

Figure 1.E.1 Table of energy consumption for 2004/5 split by campus and by utility

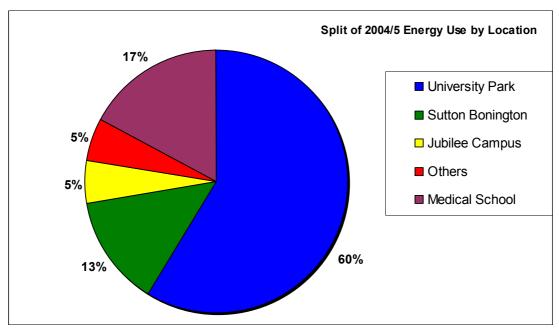


Figure 1.E.2 Pie chart of energy consumption split by campus

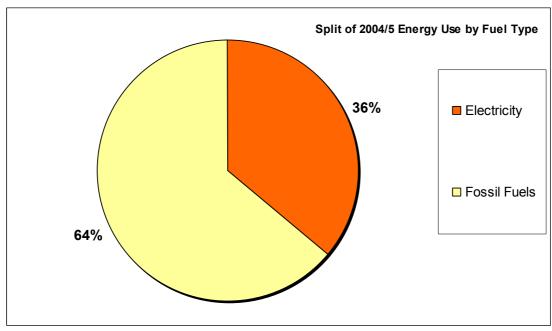


Figure 1.D.3 Pie chart of energy consumption split by utility type. Note: Our 'fossil fuels' comprise 99.5% gas and 0.5% gasoil

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

	2001/2	2002/3	2003/4	2004/5	Change
Floor Area (sq.m.)	415,322	420,854	436,236	465,769	6.8%
Annual Energy Usage (MWh)	175,758	188,782	182,602	197,924	8.4%
Energy Usage Per sq. m.	423	449	419	425	1.5%

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

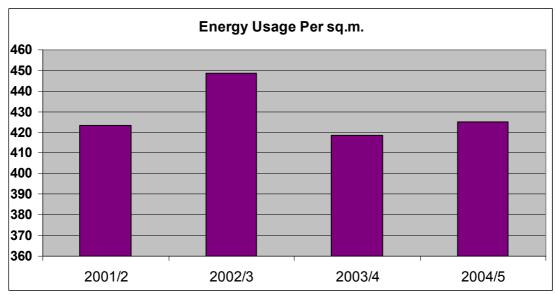


Figure 1.F.2 Graph of last four years energy usage per unit floor area.

	2001/2	2002/3	2003/4	2004/5	Change
Floor Area (sq.m.)	415,322	420,854	436,236	465,769	6.8%
Energy and Water Costs	£ 3,964,538	£ 4,017,880	£ 4,181,142	£ 5,468,308	30.8%
Utility Cost Per sq. m.	£ 9.55	£ 9.55	£ 9.58	£ 11.74	22.5%

Figure 1.F.3 Table of last four years energy and water costs and floor area.

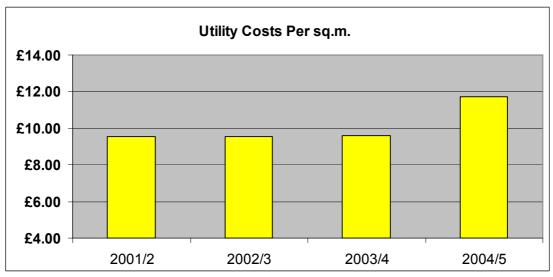


Figure 1.F.4 Graph of last four years energy and water costs normalised by floor area.

1.G - Energy Usage and Cost per FT Student

	2001/2	2002/3	2003/4	2004/5	Change
FT Student Numbers	19,130	21,244	22,808	23,740	4.1%
Annual Energy (MWh)	175,758	188,782	182,602	197,924	8.4%
Energy / Student (kWh)	9,188	8,886	8,006	8,337	4.1%

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

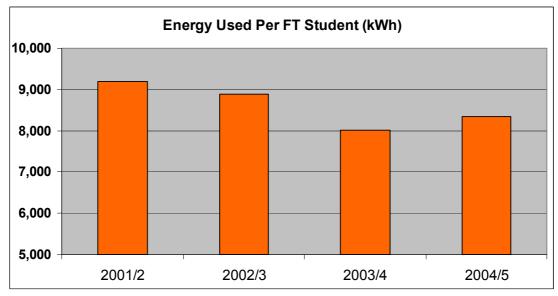


Figure 1.G.2 Graph of last four years energy usage per full-time student.

	2001/2	2002/3	2003/4	2004/5	Change
FT Student Numbers	19,130	21,244	22,808	23,740	4.1%
Energy and Water Costs	£ 3,964,538	£4,017,880	£4,181,142	£ 5,468,308	30.8%
Energy Cost / Student	£ 207.24	£ 189.13	£ 183.32	£ 230.34	25.7%

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

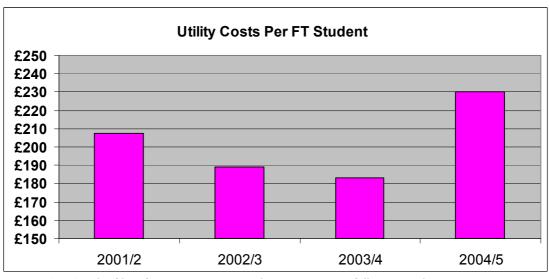


Figure 1.G.4 Graph of last four years energy and water costs per full-time student.

Note: The statistics on student numbers above are provided by the Policy and Planning Unit, Registrar's Department. They exclude students not currently studying in Nottingham.

1.H - Climate Change Levy and VAT

The Climate Change Levy (CCL) was introduced due to a change in government legislation in April 2001. This energy tax added 0.15p/kWh to gas and 0.43p/kWh to the electricity costs of all non-residential properties, although 'green' electricity is exempt.

The amount of CCL paid by Notice Ltd during 2004/5 was £47,270 for electricity and £103,253 for gas. This amount was over £150,000 less than last year due to the increased amounts of 'green' electricity that were procured (see 2B).

VAT is also not included in any of the tables or graphs shown in the report. VAT paid for 2004/5 FY was £536,965 (£146,656 on gas and £390,309 on electricity).

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

		2003/4			
	Electricity	Fossil Fuels	Water	Totals	Totals
Energy Costs	£2,898,392	£1,564,208	£ 1,005,708	£ 5,468,308	£4,181,142
Climate Change Levy	£ 47,270	£ 103,253	£ -	£ 150,523	£316,482
Value Added Tax	£ 390,309	£ 146,656	£ -	£ 536,965	£455,006
Total	£ 3,335,971	£1,814,117	£ 1,005,708	£ 6,155,796	£4,952,630

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

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

Percentage of Turnover									Change
(£ 000)		2001/2		2002/3		2003/4		2004/5	'04/5 to '03/4
Utility Costs inc. taxes	£	4,683	£	4,922	£	4,953	£	6,156	24.3%
Total University Turnover	£	265,300	£	286,300	£	303,500	£	326,400	7.5%
Percentage		1.77%		1.72%		1.63%		1.89%	15.6%

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

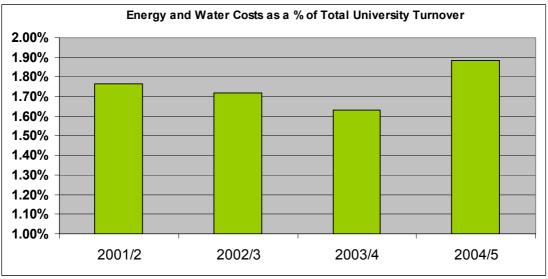


Figure 1.I.2 Graph of last four years energy and water costs normalised by total University turnover.

1.J - Comparison to Other Universities

	Energy use/	Energy/sq.m (kWh/sq.m	
	student	GIA) non-	Utility Costs/
	(kWh)	residential	income
Birmingham	6,596	488	1.51%
Bristol	4,856	405	1.54%
Cambridge	7,234	282	0.81%
Cardiff	3,574	347	1.78%
Edinburgh	5,879	261	1.56%
Glasgow	4,513	319	1.30%
Imperial College	27,630	716	2.09%
King's College London	7,861	432	1.35%
L.S.E	2,261	228	
Leeds	4,681	332	
Liverpool	6,617	390	1.69%
Manchester	5,171	408	1.24%
Newcastle Upon Tyne	5,905	324	1.55%
Nottingham	5,009	461	1.75%
Oxford	7,125	326	0.86%
Sheffield	3,292	269	1.36%
Southampton	4,820	399	1.45%
U.C.L.	n/a	n/a	n/a
Warwick	5,466	396	1.28%

Figure 1.J.1 Table of Estates Management Statistics for the 2003/4 financial year.

The statistics in table 1.J.1 provide a range of comparators to other major Universities, as reported in the EMS returns for 2003/4. Note that the figures for Nottingham do not tally exactly with those provided elsewhere in this report as the EMS figures include taxes and have slightly different definitions in some cases.

2.A - Electricity Consumption

Electricity consumption rose by 8%. Analysis of the figures shows that new buildings account for the majority of the increase:

King's Meadow Campus 750 MWh (in 5 months), Jubilee New Business School 600 MWh, New Grid Computer Facility 1,750 MWh, and the IHR expansion 1,000 MWh.

Electricity Consumption	MWh	MWh	MWh	Change
	2002/3	2003/4	2004/5	'04/5 to '03/4
University Park	37,192	39,441	43,245	10%
Sutton Bonington	10,094	10,124	10,215	1%
Jubilee Campus	4,139	4,458	5,091	14%
Others	1,233	2,018	3,020	50%
Medical School	9,900	9,935	9,900	0%
Total	62,558	65,976	71,471	8%

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

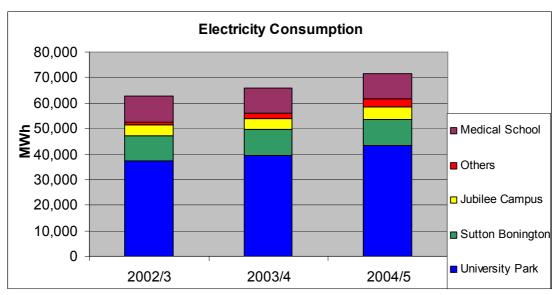


Figure 2.A.2 Graph of electricity usage for the last 3 years split by campus.

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

2.B - Electricity Costs

The existing contracts for our large sites ended in October 2004. These two year deals had protected us from substantial price rises that had already occurred in the electricity markets. At University Park the average unit price jumped from 2.69p/kWh to 4.24p/kWh, a rise of 58%, with other sites seeing rises of similar proportions. EOn retained the contracts to supply University Park and Sutton Bonington, with nPower supplying the remaining 'large' sites such as Jubilee Campus and Derby Medical School. These contracts were all awarded on a one-year basis, through to 30th September 2005.

In accordance with our Policy, we actively sought offers of 'green' electricity and were rewarded with a substantial increase in the quantity of low-CO2 electricity supplied, up to 83% from less than 1% last year. This increased energy costs by 0.41p/kWh (around 10%), but savings of 0.43p/kWh resulted from the green units being exempt from climate change levy. See section 3A for details.

The smaller 'sub-100kW' sites (a separate business package) were re-tendered in April 2004 and awarded to Bizz Energy for a duration of two years.

Electricity Costs				Change
	2002/3	2003/4	2004/5	'04/5 to '03/4
University Park	£1,010,382	£ 1,058,896	£1,727,374	63%
Sutton Bonington	£ 280,819	£ 270,777	£ 406,862	50%
Jubilee Campus	£ 125,368	£ 128,369	£ 205,062	60%
Others	£ 47,486	£ 85,179	£ 158,094	86%
Medical School	£ 404,000	£ 394,000	£ 401,000	2%
Total	£ 1,868,055	£ 1,937,221	£2,898,392	50%

Figure 2.B.1 Table of electricity costs for the last 3 years split by campus.

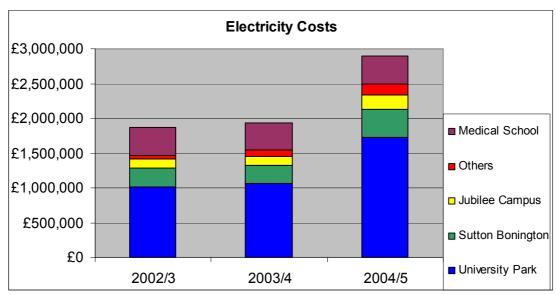


Figure 2.B.2 Graph of electricity costs for the last 3 years split by campus.

2.C - Fossil Fuel Consumption

Consumption of fossil fuels rose by 8% in 2004/5, compared to last year's reported figure. The overall increase of 9,800 MWh can be partially accounted for by new assets; Kings Meadow Campus added 3,400 MWh in 5 months, and another 1,000 MWh in total resulted from the addition of the New Business School, the first full year of operation of Biomolecular Sciences, and the IHR extension. Errors in the 2003/4 figures for the central heating station (5,000 MWh) and the Medical School (1,700 MWh), which were both underestimated, mean that in a like-for-like comparison, overall consumption actually fell 1,300MWh, or around 1%. This is broadly in line with the weather data in Section 3C, which predicts a fall of 1.5% if all other things remained equal.

At University Park, substantial savings of 3,200 MWh (20%) were made by fitting improved heating controls and two small replacement boilers at eight Halls of Residence. A payback period of just 10 months was achieved for an investment of £70,000.

Fossil Fuel Consumption	MWh	MWh	MWh	Change
	2002/3	2003/4	2004/5	'04/5 to '03/4
University Park	68,562	69,675	73,024	5%
Sutton Bonington	17,943	16,558	16,491	0%
Jubilee Campus	4,948	4,875	5,305	9%
Others	2,471	3,868	7,383	91%
Medical School (Steam)	32,300	21,650	24,250	12%
Total	126,224	116,626	126,452	8%

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

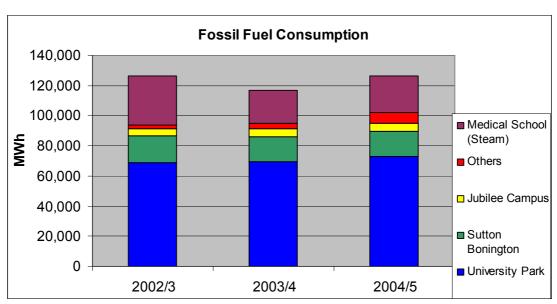


Figure 2.C.2 Graph of fossil fuel usage for the last 3 years split by campus.

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

2.D - Fossil Fuel Costs

On 31st May 2005 our existing two year contracts with Elf Business Energy finished. New tenders for the supply of gas were invited in the Spring and it was apparent that prices were very volatile and had risen rapidly. It was therefore decided to award a short four-month contract to see if prices would subside before the winter of 2005/6.

Most sites use Firm Gas (see footnote). Elf held the contract in June 2003, at a price of 0. 9791p/kWh fixed for a year, and retained it again in June 2005 with a four-month fixed price at 1.4949p/kWh (up 53%).

The new contract for Interruptible gas (see footnote - used at the Central Heating Station) was awarded to EOn at a price of 1.17p/kWh for four months, a rise of 39% on the previous yearly price of 0.8446p/kWh.

These price rises have yet to impact significantly at they only affect the last two months of these figures, and the usage of gas in these months is relatively small.

Fossil Fuel Costs							Chan	ge
		2002/3		2003/4		2004/5	'04/5 to '	03/4
University Park	£	584,900	£	642,615	£	685,857		7%
Sutton Bonington	£	164,161	£	162,124	£	168,360		4%
Jubilee Campus	£	45,190	£	47,884	£	55,188		15%
Others	£	27,408	£	42,717	£	87,803	•	106%
Medical School (Steam)	£	547,000	£	485,000	£	567,000		17%
Total	£	1,368,659	£	1,380,340	£	1,564,208		13%

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

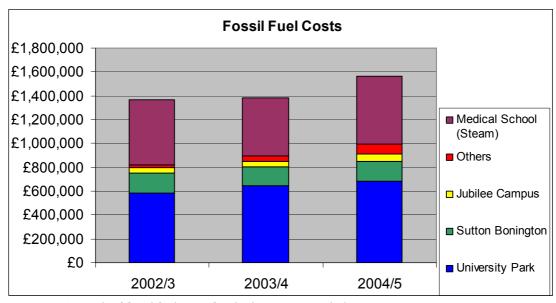


Figure 2.D.2 Graph of fossil fuel costs for the last 3 years split by campus.

Oil costs remained high throughout the period, remaining at or above 30p/litre. These levels are still significantly above an economic price for resuming operation of the oil-fired CHP unit at University Park (i.e. below 13p/l).

Note: 'Firm' gas is the standard gas supply used by the majority of smaller buildings in the UK. However many larger installations use an 'interruptible' supply. Whilst this is slightly cheaper, Transco reserve the right to stop the supply for several days a year, forcing users to switch to an alternative fuel source, such as oil.

2.E - Water Consumption

Water consumption increased by 11% with the reduction at Nottingham Medical School being more than offset by increases at University Park, Sutton Bonington, King's Meadow Campus (new usage) and Clinical Sciences (Nottingham City Hospital). The increases at Sutton Bonington were a result of recurrent problems with leakage; the increase at Clinical Sciences was traced to a plumbing problem and resolved in April 2005.

Water Consumption	cubic m.	cubic m.	cubic m.	Change
	2002/3	2003/4	2004/5	'04/5 to '03/4
University Park	555,738	560,942	608,444	8%
Sutton Bonington	97,625	117,749	148,732	26%
Jubilee Campus	94,094	86,762	86,869	0%
Others	13,284	16,938	37,975	124%
Medical School	62,000	54,352	43,570	-20%
Total	822,741	836,743	925,590	11%

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

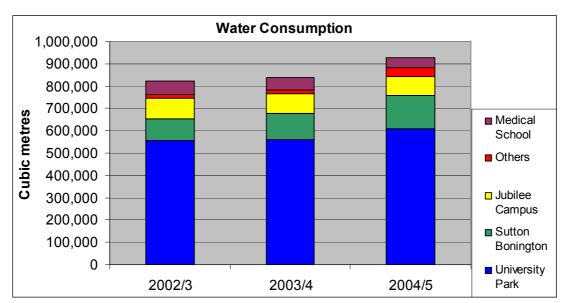


Figure 2.E.2 Graph of water usage for the last 3 years split by campus.

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

2.F - Water Costs

Although water usage rose by 11%, water costs were up by 16% as the large increases in price from Severn Trent Water began to take effect from 1^{st} April 2005.

For ordinary metered accounts, the combined price of water and sewerage rose from 130.1p/cubic metre to 139.91p (up 7.5%) in April 2004, and then rose again to 166.41p in April 2005, a rise of an additional 19.0%. Similarly, at University Park - which benefits from a high volume tariff - prices rose from 91.18p to 107.6p (up 18%) in April 2004. Surface water drainage charges rose by 19.9% for all sites at the same time.

Test drilling began in October 2005 for a borehole at University Park. This project should be completed during 2006 and will significantly reduce our water costs at University Park and help to minimise our exposure to Severn Trent's planned future cost increases of RPI plus 11% over the next four years.

Water Costs								Char	nge
			2002/3		2003/4		2004/5	'04/5 to	'03/4
University Park		£	482,344	£	536,487	£	630,741		18%
Sutton Bonington		£	94,532	£	103,344	£	150,165		45%
Jubilee Campus		£	126,202	£	156,061	£	119,337		-24%
Others		£	15,588	£	19,372	£	46,965		142%
Medical School		£	62,500	£	48,317	£	58,500		21%
	Total	£	781,166	£	863,581	£	1,005,708		16%

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

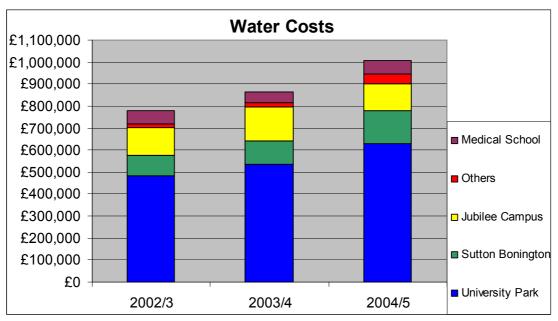


Figure 2.F.1 Graph of water costs for the last 3 years split by campus.

3.A - Carbon Dioxide Emissions

Carbon Dioxide (CO_2) is released into the atmosphere when fossil fuels are burned, and is considered the most important of the 'greenhouse' gases – gases that are thought to be responsible for a man-made warming of the atmosphere. The UK government has a target of reducing national CO_2 emissions by 12.5% from 1990 levels by 2010.

Our emissions were reduced considerably in 2004/5 due to the proportion of 'green' electricity purchased jumping from less than 1% in 2003/4 to 83% in 2004/5. This green electricity was sourced as follows: Wind 12.5%, Hydro 2.9%, Biomass 15.2%, Landfill gas 6.5%, Sewage gas 11.0%, Municipal & Industrial Waste 51.9%. This electricity was classified as 'levy exempt' meaning that although the purchase price was increased by 0.41p/kWh, it did not attract any climate change levy, taxed at 0.43p/kWh (see 1.J).

CO2 Emissions	Tonnes	Tonnes	Tonnes	Change
	2002/3	2003/4	2004/5	'04/5 to '03/4
University Park	29,020	30,198	18,658	-38%
Sutton Bonington	7,749	7,499	3,581	-52%
Jubilee Campus	2,570	2,693	2,188	-19%
Others	1,000	1,586	2,205	39%
Medical School	10,394	8,386	8,013	-4%
Total	50,732	50,362	34,645	-31%

Figure 3.A.1 Table of CO₂ emissions for the last 3 years split by campus.

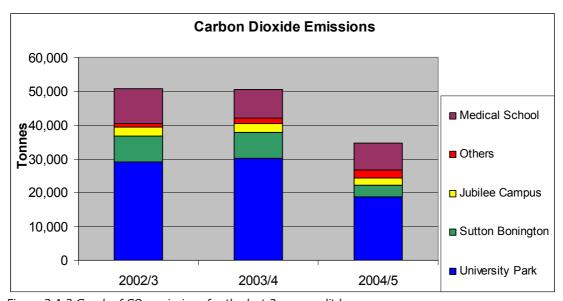


Figure 3.A.2 Graph of CO_2 emissions for the last 3 years split by campus. Conversion factors used are supplied to us by the Carbon Trust - units are Tonnes of Carbon Dioxide emitted per MWh of energy consumed. Note that DEFRA (the Department for Environment, Food and Rural Affairs) are now recommending that for electricity a constant conversion value is used until 2010, although real emissions vary year on year due to the different mix of fuels used in power stations nationally.

	2002/3	2003/4	2004/5
Electricity	0.430	0.430	0.430
Gas	0.190	0.190	0.190

<u>3.B - Carbon Dioxide Emissions Breakdown by Campus and Utilities</u>

CO2 Emissions	Tonnes	Tonnes	Tonnes
2004/2005	Electricity	Fossil Fuels	Total
University Park	4,783	13,874	18,658
Sutton Bonington	447	3,133	3,581
Jubilee Campus	1,180	1,008	2,188
Others	802	1,403	2,205
Medical School	3,406	4,608	8,013
Total	10,619	24,026	34,645

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

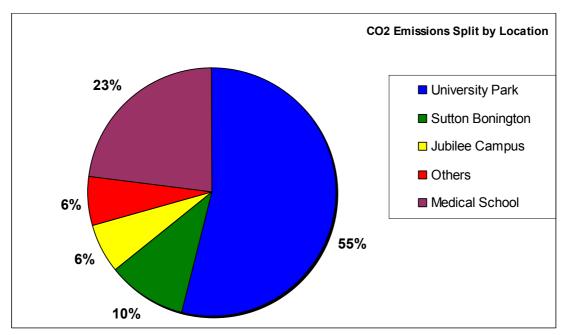


Figure 3.B.2 Graph of CO₂ emissions split by campus

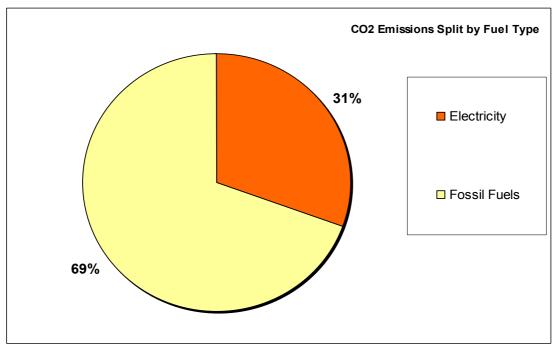


Figure 3.B.3 Graph of CO₂ emissions split by source fuel type

3.C - Weather Data - Degree Days

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.

	Deg. Days	Deg. Days	Deg. Days	Deg. Days	'04/5 to '03/4
	20 Yr Avg	2002-03	2003-04	2004-05	Change
Aug	35	18	24	18	-25.0%
Sep	76	60	68	52	-23.5%
Oct	162	185	194	154	-20.6%
Nov	270	235	232	241	3.9%
Dec	338	324	343	310	-9.6%
Jan	362	349	332	309	-6.9%
Feb	312	332	293	325	10.9%
Mar	283	248	281	265	-5.7%
Apr	217	179	176	198	12.5%
May	137	106	112	139	24.1%
Jun	74	31	45	55	22.2%
Jul	35	20	39	30	-23.1%
Total	2,301	2,087	2,139	2,096	-2.0%
			Weather mo	odifier (75%)	-1.5%

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

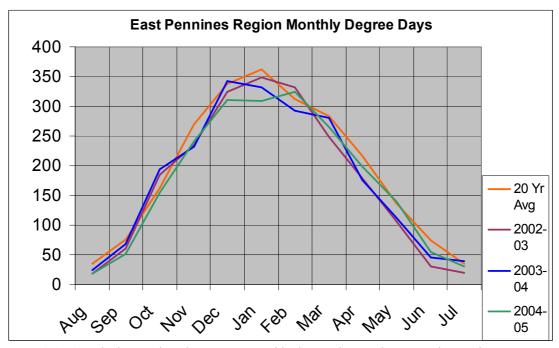


Figure 3.C.2 Graph showing last three years monthly degree days and average degree days

Note: Degree days however are an imprecise marker for a number of reasons. Firstly, not all of a building's heating load is weather dependent - production of domestic hot water typically accounts for about 25% of usage, and in halls of residence the figure could be substantially higher. Secondly, the figures are derived from Watnall weather station, and local climates can differ quite markedly

from these figures. Thirdly, wind speed and direction can have a marked effect on the energy consumption of some buildings, depending upon their construction. The degree day figures only include the effect of temperature.

For the purposes of this report, 75% of the change in degree days has been used as a realistic modifier to check 2004/5's consumption against 2003/2004's. Using this information, consumption on accounts used for heating should have decreased by about 1.5% as this year was slightly milder than last.

3.D - Major Asset Alterations

Major additions:-

King's Meadow Campus Jubilee Campus New Business School Jubilee Campus Sports Centre Institute of Hearing Research Extension

3.E - Conclusions

The UK is currently experiencing a market increase in energy prices, which is impacting adversely upon the University's utility bill. Against this background it is increasingly important that we target to reduce waste and become more energy efficient.

Our strategy, as guided by the Energy Sub-Group of the University's Environment Committee is to:-

- Implement a review of all heating control settings to eliminate waste. This was completed in September 2005, and is expected to reduce fossil fuel consumption by around 10%.
- Increase our energy awareness campaigns during 2006, with the particular aim of limiting the growth in electricity usage. Our website at http://www.nottingham.ac.uk/estate/environment/ has been updated and now acts as a central source of information.
- Continue to fund short payback opportunities during 2006 as occurred in 2005.
- Continue our programme of reviewing all major buildings to thoroughly check all energy saving control features are optimised and revised to our current standards.
- Complete the borehole project to reduce our water costs.
- Continue to review purchasing opportunities during the current period of high and volatile energy prices to obtain best value.

These actions and timescales are fully defined in the minutes of the Energy sub Group (see website), and are aimed at providing a consumption reduction of 5%, with a further 5% from additional measures to offset increased costs.

4.A - Appendix A - Electricity Data

University Park Lenton Lodge	Electricity Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Lenton Lodge	Main Campus	1000	ши	kWh	kWh	kWh	£	£	£	0-:4 11 10
Lenton Earwise Cott. No. 2										
Redoount Lodge					,					
Lenton Eaves Cott. No.1										
Float of seconds										
Sutton Bonington										
Sulton Bonington Campus 6800 ## 737,749 9.904,681 1-1% 5.888,552 528,121 48%	Total of 5 accounts	lotais		45,245,102	35,441,420	10 /0	1,727,374	1,050,050	03 /8	
Sulton Bonington Campus 6800 ## 737,749 9.904,681 1-1% 5.888,552 528,121 48%										
Sulton Bonington Campus 6800 ## 737,749 9.904,681 1-1% 5.888,552 528,121 48%	Electricity Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Sulton House (68 College Road) 5891 NO 209.493 0.0										
Evitor House (68 College Road) 5891 NO 209.493 80.509 160% E7.089 £2.315 206% New Dairy ## 66.913 O - £2.630 E0	J	6800	##						48%	
New Dairy		5891	N0	209,493		160%			206%	
St.Michael's House (Flats 1-5) 6841 NO 26,362 10,770 145% £1,042 £382 173% Field 25 5671 ## 20,000 50,000 6.00% £1,000 £1,000 2.33% Animal Research Unit (MLC) 5433 NO 27,501 29,627 -7% £773 £788 -2% PUMP HOUSE, Kingston Brook 6910 NO 14,462 0 - £765 £18 - BUMP Farm 6880 NO 110,28 1,098 - £612 £107 - 40 College Road 6811 NO 6,974 3,840 92% £412 £228 81% St.Michael's Close (Flats 10-15) 6840 NO 5,753 5,903 3% £384 £352 9% 44 College Road 6814 NO 5,128 6,371 2-20% £345 £352 9% 44 College Road 6814 NO 5,128 6,371 2-20% £345 £376 6-6% 51 Molecular Farm Farm Farm Farm Farm Farm Farm Fa	New Dairy		##		0	-			-	
Field 25	St.Michael's Flats Nos 8&9	6843	N0	28,512	17,096	67%	£1,305	£650	101%	
Animal Research Unit (MLC)	St.Michael's House (Flats 1-5)	6841	N0	26,362	10,770	145%	£1,042	£382	173%	
Pump House, Kingston Brook 6910 No	Field 25	5671	##	20,000	50,000	-60%	£1,000	£1,500	-33%	
Bunny Farm	Animal Research Unit (MLC)	5433	N0	27,501	29,627	-7%	£773	£788	-2%	
Age College Road 6811 NO 6,974 3,840 92% 6412 6228 81%			_			-			-	
St.Michael's Close (Flats 10-15)						-			-	
44 College Road										
St.Michael's Flats Nos 687 6842 NO 4.887 4.429 10% £340 £201 69% 24 College Road 6805 NO 4.683 4.740 2% £332 £303 10% 50 College Road 6815 NO 4.559 2.319 97% £329 £179 84% New Dairy Farmhouse ## 3,766 0 £237 £0 - 4 45 College Road 6815 NO 1.121 622 80% £173 £102 70% Irrig. Pump Kegworth 6910 NO 0 1.785 £133 £155 £1702 70% Irrig. Pump Kegworth 6910 NO 0 1.785 £133 £155 £1702 70% Irrig. Pump Kegworth 6910 NO 0 1.785 £133 £155 £1702 70% Irrig. Pump Kegworth 6910 NO 0 1.785 £133 £155 £1702 70% Irrig. Pump Kegworth 6910 NO 0 1.785 £133 £155 £1702 70% Irrig. Pump Kegworth 6910 NO 0 1.785 £133 £155 £1707 50% Electricity Invoices 2004/5 2003/4			-							
24 College Road										
So College Road			-	, ,						
New Dairy Farmhouse										
45 College Road		6819				97%			84%	
Irrig_Pump Kegworth						-				
Total of 18 accounts						80%				
Electricity Invoices 2004/5 2003/4 % change £ E	0 1 0					40/				
Jubilec Campus	Total of 18 accounts	lotais		10,214,871	10,123,590	1%	£406,862	£2/0,///	50%	
Jubilec Campus										
Jubilec Campus	Electricity Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Jubilee Campus										
Newark & Southwell Halls					kwn	kwn	£	£	£	
Jubilee Sports Centre	Jubilee Campus	7000	##							New Business School included
Triumph House			-	4,245,536	3,695,232	15%	£167,964	£105,174	60%	New Business School included
Totals	Newark & Southwell Halls	7000	##	4,245,536 780,472	3,695,232 762,988	15%	£167,964 £33,377	£105,174 £23,195	60%	New Business School included
Others kWh kWh kWh £ £ £ Clinical Sciences (City Hospital) 3325 E3 1,075,000 1,018,180 6% £50,900 £43,500 17% No invoices recvd, estd. King's Meadow Campus 750,000 0 - £50,000 £0 - Derby Medical School 3561 ## 888,124 734,889 21% £43,287 £31,415 38% 14-22 Shakespeare Street 6101 N0 82,530 79,311 4% £3,543 £2,789 27% Sports Ground - Highfields 6311 N0 37,207 21,975 69% £1,481 £737 101% Unit 5, William Lee Buildings 6885 N0 30,305 28,351 7% £1,409 £1,771 -20% Unit 8, William Lee Buildings 6884 N0 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 N0 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 N0 23,148	Newark & Southwell Halls Jubilee Sports Centre	7000 7301	## ##	4,245,536 780,472 34,611	3,695,232 762,988 0	15%	£167,964 £33,377 £2,196	£105,174 £23,195 £0	60%	New Business School included
Others kWh kWh kWh £ £ £ Clinical Sciences (City Hospital) 3325 E3 1,075,000 1,018,180 6% £50,900 £43,500 17% No invoices recvd, estd. King's Meadow Campus 750,000 0 - £50,000 £0 - Derby Medical School 3561 ## 888,124 734,889 21% £43,287 £31,415 38% 14-22 Shakespeare Street 6101 N0 82,530 79,311 4% £3,543 £2,789 27% Sports Ground - Highfields 6311 N0 37,207 21,975 69% £1,481 £737 101% Unit 5, William Lee Buildings 6885 N0 30,305 28,351 7% £1,409 £1,771 -20% Unit 8, William Lee Buildings 6884 N0 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 N0 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 N0 23,148	Newark & Southwell Halls Jubilee Sports Centre Triumph House	7000 7301 6701	## ## ##	4,245,536 780,472 34,611 30,053	3,695,232 762,988 0	15% 2% - -	£167,964 £33,377 £2,196 £1,525	£105,174 £23,195 £0	60% 44% - -	New Business School included
Others kWh kWh kWh £ £ £ Clinical Sciences (City Hospital) 3325 E3 1,075,000 1,018,180 6% £50,900 £43,500 17% No invoices recvd, estd. King's Meadow Campus 750,000 0 - £50,000 £0 - Derby Medical School 3561 ## 888,124 734,889 21% £43,287 £31,415 38% 14-22 Shakespeare Street 6101 N0 82,530 79,311 4% £3,543 £2,789 27% Sports Ground - Highfields 6311 N0 37,207 21,975 69% £1,481 £737 101% Unit 5, William Lee Buildings 6885 N0 30,305 28,351 7% £1,409 £1,771 -20% Unit 8, William Lee Buildings 6884 N0 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 N0 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 N0 23,148	Newark & Southwell Halls Jubilee Sports Centre Triumph House	7000 7301 6701	## ## ##	4,245,536 780,472 34,611 30,053	3,695,232 762,988 0	15% 2% - -	£167,964 £33,377 £2,196 £1,525	£105,174 £23,195 £0	60% 44% - -	New Business School included
Clinical Sciences (City Hospital) 3325 E3 1,075,000 1,018,180 6% £50,900 £43,500 17% No invoices recvd, estd.	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts	7000 7301 6701	## ## ##	4,245,536 780,472 34,611 30,053 5,090,672	3,695,232 762,988 0 0 4,458,220	15% 2% - - 14%	£167,964 £33,377 £2,196 £1,525 £406,862	£105,174 £23,195 £0 £0 £270,777	60% 44% - - 50%	New Business School included
Ming's Meadow Campus	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices	7000 7301 6701	## ## ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5	3,695,232 762,988 0 0 4,458,220	15% 2% - - 14% % change	£167,964 £33,377 £2,196 £1,525 £406,862	£105,174 £23,195 £0 £0 £270,777	60% 44% - - 50% % change	New Business School included
Derby Medical School 3561	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others	7000 7301 6701 Totals	## ## ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh	3,695,232 762,988 0 0 4,458,220 2003/4 kWh	15% 2% - - 14% % change kWh	£167,964 £33,377 £2,196 £1,525 £406,862	£105,174 £23,195 £0 £0 £270,777	60% 44% - - 50% % change	
14-22 Shakespeare Street 6101 N0 82,530 79,311 4% £3,543 £2,789 27% Sports Ground - Highfields 6311 N0 37,207 21,975 69% £1,481 £737 101% Unit 5, William Lee Buildings 6885 N0 31,505 45,773 -31% £1,409 £1,771 -20% Unit 6, William Lee Buildings 6884 N0 30,305 28,351 7% £1,390 £1,150 21% Unit 8, William Lee Buildings 6884 N0 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 N0 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 N0 23,148 7,461 - £1,143 £342 - Boat House 6321 N0 21,844 3,500 - £976 £170 - Grove Farm - Changing Rooms 6122 N0 13,049 20,837 -37% £600 £659 -9% Grove Farm 6123 N0	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital)	7000 7301 6701 Totals	## ## ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000	3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180	15% 2% - - 14% % change kWh	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £	£105,174 £23,195 £0 £0 £270,777 2003/4 £	60% 44% - - 50% % change	
Sports Ground - Highfields	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus	7000 7301 6701 Totals 3325	## ## ## E3:	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 0	15% 2% - - 14% % change kWh -	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000	£105,174 £23,195 £0 £0 £270,777 2003/4 £ £43,500 £0	60% 44% 50% % change £ 17%	
Unit 5, William Lee Buildings 6885 No 31,505 45,773 -31% £1,409 £1,771 -20% Unit 6, William Lee Buildings 6883 No 30,305 28,351 7% £1,390 £1,150 21% Unit 8, William Lee Buildings 6884 No 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 No 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 No 23,148 7,461 - £1,143 £342 - Boat House 6321 No 21,844 3,500 - £976 £170 - Grove Farm - Changing Rooms 6122 No 13,049 20,837 -37% £600 £659 -9% Grove Farm - Old Farmhouse 6121 No 10,334 7,229 43% £572 £314 82% Grove Farm 6123 No 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School	7000 7301 6701 Totals 3325 3561	## ## E3:	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 0 734,889	15% 2% - - 14% % change kWh - - 21%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415	60% 44% 50% % change £ 17% 38%	
Unit 6, William Lee Buildings 6883 No 30,305 28,351 7% £1,390 £1,150 21% Unit 8, William Lee Buildings 6884 No 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 No 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 No 23,148 7,461 - £1,143 £342 - Boat House 6321 No 21,844 3,500 - £976 £170 - Grove Farm - Changing Rooms 6122 No 13,049 20,837 -37% £600 £659 -9% Grove Farm - Old Farmhouse 6121 No 10,334 7,229 43% £572 £314 82% Grove Farm 6123 No 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440 2,018,368 50% £158,094 £85,179 <	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street	7000 7301 6701 Totals 3325 3561 6101	## ## E3:	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530	3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311	15% 2% - - 14% % change kWh 6% - 21% 4%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789	60% 44%	No invoices recvd, estd.
Unit 8, William Lee Buildings 6884 No 26,344 21,513 22% £1,257 £940 34% Clumber Lodge 6900 No 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 No 23,148 7,461 - £1,143 £342 - Boat House 6321 No 21,844 3,500 - £976 £170 - Grove Farm - Changing Rooms 6122 No 13,049 20,837 -37% £600 £659 -9% Grove Farm - Old Farmhouse 6121 No 10,334 7,229 43% £572 £314 82% Grove Farm 6123 No 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440 2,018,368 50% £158,094 £85,179 86% Electricity Invoices kWh kWh kWh £ £ £ £ £ Incudes 'overheads' Embedded Units (Q.M.C.) 7,650,000 7	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields	7000 7301 6701 Totals 3325 3561 6101 6311	## ## E3: ## N0	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207	3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975	15% 2% - - 14% % change kWh 6% - - 21% 4% 69%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481	£105,174 £23,195 £0 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £737	60% 44% 50% % change £ 17% - 38% 27% 101%	No invoices recvd, estd.
Clumber Lodge 6900 No 26,485 26,277 1% £1,191 £1,216 -2% 8 Peachey Street 6102 No 23,148 7,461 - £1,143 £342 - Boat House 6321 No 21,844 3,500 - £976 £170 - Grove Farm - Changing Rooms 6122 No 13,049 20,837 -37% £600 £659 -9% Grove Farm - Old Farmhouse 6121 No 10,334 7,229 43% £572 £314 82% Grove Farm 6123 No 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440 2,018,368 50% £158,094 £85,179 86% Electricity Invoices Medical School kWh kWh kWh £ £ £ £ lncudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 </td <td>Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings</td> <td>7000 7301 6701 Totals 3325 3561 6101 6311 6885</td> <td>## ## ## E33 ## NO NO NO</td> <td>4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505</td> <td>3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773</td> <td>15% 2%</td> <td>£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £43,287 £3,543 £1,481 £1,409</td> <td>£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £737 £1,771</td> <td>60% 44% 50% % change £ 17% 38% 27% 101%20%</td> <td>No invoices recvd, estd.</td>	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings	7000 7301 6701 Totals 3325 3561 6101 6311 6885	## ## ## E33 ## NO NO NO	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505	3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773	15% 2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £43,287 £3,543 £1,481 £1,409	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £737 £1,771	60% 44% 50% % change £ 17% 38% 27% 101%20%	No invoices recvd, estd.
8 Peachey Street 6102 N0 23,148 7,461 - £1,143 £342 - Boat House 6321 N0 21,844 3,500 - £976 £170 - Grove Farm - Changing Rooms 6122 N0 13,049 20,837 -37% £600 £659 -9% Grove Farm - Old Farmhouse 6121 N0 10,334 7,229 43% £572 £314 82% Grove Farm 6123 N0 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440 2,018,368 50% £158,094 £85,179 86% Electricity Invoices Wedical School kWh kWh kWh £ £ £ Medical School 7,650,000 7,735,300 1% £318,000 £320,000 -11% Incudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6883	## ## ## E33: ## NO NO NO NO NO	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305	3,695,232 762,988 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351	15% 2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,409	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150	60% 44% 50% % change £ 17%	No invoices recvd, estd.
Boat House	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6883 6884	## ## ## ## ## ## ## ## ## ## ## ## ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513	15% 2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,409 £1,390	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940	60% 44%	No invoices recvd, estd.
Grove Farm - Changing Rooms 6122 No 13,049 20,837 -37% £600 £659 -9% Grove Farm - Old Farmhouse 6121 No 10,334 7,229 43% £572 £314 82% Grove Farm 6123 No 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440 2,018,368 50% £158,094 £85,179 86% Electricity Invoices 2004/5 kWh kWh kWh £ £ £ Medical School 7,650,000 7,735,300 1% £318,000 £320,000 1% Incudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6883 6884 6900	## ## ## ## ## ## ## ## ## ## ## ## ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277	15% 2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,191	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216	60% 44%	No invoices recvd, estd.
Grove Farm - Old Farmhouse 6121 N0 10,334 7,229 43% £572 £314 82% Grove Farm 6123 N0 4,565 3,072 49% £345 £176 96% Total of 14 accounts 3,020,440 2,018,368 50% £158,094 £85,179 86% Electricity Invoices 2004/5 kWh kWh kWh £ £ £ Medical School 7,650,000 7,735,300 1% £318,000 £320,000 1% Incudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street	7000 7301 6701 Totals 3325 3561 6101 6381 6883 6884 6900 6102	### ### ### ### ### ### ### ### ### ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148	3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461	15% 2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,191	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £737 £1,150 £940 £1,216	60% 44%	No invoices recvd, estd.
Grove Farm	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6883 6884 6900 6102 6321	## ## ## E33: ## NO	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844	3,695,232 762,988 0 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500	15% 2% 2% 14% % change kWh 6% 4% 69% 4% 69% 7% 22% 1% 1%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,191 £1,143	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £737 £1,771 £1,150 £940 £1,216 £342 £170	60% 44% 50% % change £ 17% - 38% 27% 101% -20% 214% 34% -2%	No invoices recvd, estd.
Total of 14 accounts 3,020,440 2,018,368 50%	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049	3,695,232 762,988 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837	15% 2% 14% % change kWh 6% 21% 4% 69% -31% 7% 22% 1%37%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,191 £1,143 £976	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £170 £659	60% 44%	No invoices recvd, estd.
Comparison Com	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837 7,229	15% 2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,143 £1,143 £1,143 £1,143	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £170 £659 £314	60% 44% 50% % change £ 17% 38% 27% 101% -20% 211% 34% -2%9% 82%	No invoices recvd, estd.
Medical School kWh kWh £ £ £ Medical School 7,650,000 7,735,300 1% £318,000 £320,000 1% Incudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837 7,229 3,072	15% 2% 2% 14% % change kWh 6% 21% 4% 69% 31% 1% 1%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,490 £1,390 £1,257 £1,191 £1,143 £976 £600 £572 £345	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £1770 £659 £314 £176	60% 44%	No invoices recvd, estd.
Medical School kWh kWh £ £ £ Medical School 7,650,000 7,735,300 1% £318,000 £320,000 1% Incudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse Grove Farm	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565	3,695,232 762,988 0 4,458,220 2003/4 kWh 1,018,180 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837 7,229 3,072	15% 2% 2% 14% % change kWh 6% 21% 4% 69% 31% 1% 1%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £50,000 £43,287 £3,543 £1,481 £1,490 £1,390 £1,257 £1,191 £1,143 £976 £600 £572 £345	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £1770 £659 £314 £176	60% 44%	No invoices recvd, estd.
Medical School 7,650,000 7,735,300 1% £318,000 £320,000 1% Incudes 'overheads' Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse Grove Farm Total of 14 accounts	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565 3,020,440	3,695,232 762,988 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837 7,229 3,072 2,018,368	15% 2% 2% 14% % change kWh 6% 21% 4% 69% -31% 7% 22% 1%37% 43% 49% 50%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,191 £1,143 £976 £600 £572 £345 £158,094	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £170 £659 £314 £176 £85,179	60% 44%	No invoices recvd, estd.
Embedded Units (Q.M.C.) 2,250,000 2,200,000 -2% £83,000 £74,000 -11% Incudes 'overheads'	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse Grove Farm Total of 14 accounts	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565 3,020,440	3,695,232 762,988 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,573 28,351 21,513 26,277 7,461 3,500 20,837 7,229 3,072 2,018,368	15% 2% 14% % change kWh 6%	£167,964 £33,377 £2,196 £1,525 £406,862 £50,900 £50,000 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,143 £1,143 £976 £600 £572 £345 £158,094	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £170 £659 £314 £176 £85,179	60% 44%	No invoices recvd, estd.
	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse Grove Farm Total of 14 accounts Electricity Invoices Medical School	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565 3,020,440 2004/5 kWh	3,695,232 762,988 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837 7,229 3,072 2,018,368 2003/4 kWh	15% 2% 2% 14% % change kWh 6% 21% 49% 69% 31%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £50,900 £50,000 £43,287 £3,543 £1,409 £1,390 £1,390 £1,143 £1,1443 £1,445 £1570 £345 £572 £345 £345 £345 £345 £345 £345 £345 £345	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £170 £659 £314 £176 £85,179	60% 44%	No invoices recvd, estd.
Totals 9,900,000 9,935,300 0% £401,000 £394,000 2%	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse Grove Farm Total of 14 accounts Electricity Invoices Medical School Medical School	7000 7301 6701 Totals 3325 3561 6101 6311 6885 6884 6900 6102 6321 6122 6121	## ## ## E33: ### N00 N00 N00 N00 N00 N00 N00 N00 N00	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565 3,020,440 2004/5 kWh	3,695,232 762,988 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 26,277 7,461 3,500 20,837 7,229 3,072 2,018,368 2003/4 kWh 7,735,300	15% 2% 2% 14% % change kWh 6% 4% 69% -31% 22% 1% -37% 43% 49% 50% % change kWh	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,000 £43,287 £3,543 £1,481 £1,490 £1,257 £1,191 £1,143 £976 £600 £572 £345 £158,094	£105,174 £23,195 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £1,771 £1,150 £940 £1,216 £342 £170 £659 £314 £176 £85,179	60% 44%	No invoices recvd, estd.
	Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others Clinical Sciences (City Hospital) King's Meadow Campus Derby Medical School 14-22 Shakespeare Street Sports Ground - Highfields Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 8, William Lee Buildings Clumber Lodge 8 Peachey Street Boat House Grove Farm - Changing Rooms Grove Farm - Old Farmhouse Grove Farm Total of 14 accounts Electricity Invoices Medical School	3325 3561 6101 6311 6885 6883 6900 6102 6321 6122 6123	### ### ### ### ### ### ### ### ### ##	4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 1,075,000 750,000 888,124 82,530 37,207 31,505 30,305 26,344 26,485 23,148 21,844 13,049 10,334 4,565 3,020,440 2004/5 kWh 7,650,000 2,250,000	3,695,232 762,988 0 0 4,458,220 4,458,220 2003/4 kWh 1,018,180 0 734,889 79,311 21,975 45,773 28,351 21,513 26,277 7,461 3,500 20,837 7,229 3,072 2,018,368 2003/4 kWh 7,735,300 2,200,000	15% 2% 2% 14% % change kWh 6% -21% 4% 59% 31% 7% 43% 43% 49% 50% % change kWh 1% -2%	£167,964 £33,377 £2,196 £1,525 £406,862 2004/5 £ £50,900 £43,287 £3,543 £1,481 £1,409 £1,390 £1,257 £1,191 £1,143 £976 £600 £572 £345 £158,094 2004/5 £	£105,174 £23,195 £0 £0 £270,777 2003/4 £ £43,500 £31,415 £2,789 £737 £1,771 £1,150 £940 £1,216 £342 £170 £659 £314 £176 £85,179 2003/4 £ £320,000 £74,000	60% 44% 50% % change £ 17%	No invoices recvd, estd. Incudes 'overheads' Incudes 'overheads'

4.B - Appendix B - Fossil Fuel Data

Gas Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Main Campus			kWh	kWh	kWh	£	£	£	
Central Heating Station	1000	##	36,830,608	30,668,000	20%	£317,774	£259,100	23%	2003/4 estimate low
Rutland Hall & Sherwood Hall	2191	##	3,355,938	4,062,434	-17%	£33,822	£39,775	-15%	New BMS
Cripps Hall	2171	##	2,689,005	2,869,374	-6%	£27,122	£28,094	-3%	
Hugh Stewart Hall	2181		2,413,024	2,905,117	-17%	£24,376	£28,444		New BMS
Derby Hall	2121		2,351,562	2,559,568	-8%	£23,614	£25,061	-6%	
Bio-Molecular Sciences	1353		1,973,492	1,634,294	21%	£19,870	£16,001		2003/4 not fully occupied
Lenton & Wortley Hall	2141		1,686,290	2,180,773	-23%	£17,152	£21,352		New BMS
Nightingale Hall	2161		1,551,047	1,836,022	-16%	£15,625	£17,976		New BMS
Willoughby Hall	2211		1,535,468	1,902,189	-19%	£15,538	£18,624		New BMS
Lincoln Hall	2151 1271		1,538,214	1,966,444	-22%	£15,471	£19,253		New BMS
Tower' (various) Jesse Boot Conference Centre	1481	_	1,265,298 1,244,902	1,232,443 1,189,679	3% 5%	£12,875	£12,067 £11,648	7% 10%	
Florence Boot Hall	2131		1,244,902	1,296,358	-6%	£12,816 £12,301	£11,046	-3%	
Boots Science Building	1581	_	1,156,775	1,033,651	12%	£12,301	£12,093	19%	
Swimming Pool	1571		1,130,773	1,152,608	-2%	£11,640	£11,285	3%	
Cavendish Hall	2111	_	1,034,618	972,055	6%	£10,469	£9,517	10%	
Ancaster Hall	2101		1,027,223	1,111,845	-8%	£10,438	£10,886	-4%	
Institute of Hearing Research	1401		819,966	446,841	84%	£8,550	£4,375		Building extended
Architecture	1433		852,483	899,844	-5%	£8,347	£8,810	-5%	3 - 3
Trent Building	1101	##	660,366	567,582	16%	£6,540	£5,557	18%	
Sports Centre, Main Campus	1221	##	602,110	673,369	-11%	£6,012	£6,593	-9%	
Arts Centre & School of Music	1501	##	489,621	530,062	-8%	£5,037	£5,190	-3%	
Staff Club Lenton Mount	1181	##	492,472	533,070	-8%	£4,987	£5,219	-4%	
Wolfson Building	1421		490,174	523,716	-6%	£4,917	£5,128	-4%	
Lenton Hurst	2411	_	401,407	405,671	-1%	£4,068	£3,972	2%	
D.H.Lawrence Lakeside Pavilion	1631		363,791	349,645	4%	£3,695	£3,423	8%	
New Studio (Built Environment)	1439		168,664	954	-	£3,145	£15	-	
Redcourt	2221		294,002	270,749	9%	£2,977	£2,651	12%	
Cripps Hall Kitchen	2171		283,955	338,676	-16%	£2,957	£3,316	-11%	
Cripps Health Centre	1231		263,175	289,471	-9%	£2,680	£2,834	-5%	
Portland Building	1111		241,827	269,824	-10%	£2,433	£2,642	-8%	Converting to gas
Lenton Grove (History)	1211		203,982	210,799	-3%	£1,998	£2,064	-3%	
Lenton Close Annexe (Cripps Hall)	2175 2200		185,777	184,597	1% -4%	£1,879	£1,807	4% 0%	
Sherwood Hall Kitchen Paton House (Built Env.)	1441		183,918 170,590	191,012 188,759	-10%	£1,870 £1,699	£1,870 £1,848	-8%	
Lincoln Hall Kitchen	2151	-	162,473	183,493	-11%	£1,653	£1,797	-8%	
MMMEM (Production Engineering)	1371		157,837	188,055	-16%	£1,582	£1,797	-14%	
Fitness Centre (Sports Centre)	1221		101,122	114,365	-12%	£1,443	£1,628	-11%	
Cavendish Hall Kitchen	2111		117,890	123,532	-5%	£1,211	£1,210	0%	
Rutland Hall Extension	2195		109,021	108,342	1%	£1,151	£1,061	8%	
Cavendish Hall Extension	2115		108,746	110,739	-2%	£1,143	£1,084	5%	
Sustainable Research Building	1436		109,177	118,865	-8%	£1,078	£1,164	-7%	
Lenton & Wortley Hall Kitchen	2141	##	89,591	92,752	-3%	£927	£908	2%	
China House (Lenton Fields)	2163	##	90,000	111,197	-19%	£880	£1,089	-19%	Est, no readings after Nov '04
Rutland Hall Kitchen	2191		84,434	84,434	0%	£827	£827		In query, overbilled
Playgroup	1411	_	73,004	76,052	-4%	£723	£745	-3%	
Orchards	1161		73,286	89,851	-18%	£719	£880	-18%	
Portland Building Buttery Bar	1111		67,960	86,399	-21%	£698	£846	-17%	
J.Boot C.C. Annexe (Cottage)	1482		61,407	51,521	19%	£618	£504	23%	
Warden's House Cavendish Hall	2113		56,663	60,116	-6%	£579	£589	-2%	
Warden's House Rutland Hall	2194		54,628	42,653	28%	£543	£418	30%	
Warden's House Sherwoood Hall	2207		51,772	50,475	3%	£522	£494	6%	
Lenton Lodge	2251		51,948	55,610	-7%	£510	£544	-6%	
Squash Courts (Sch of Built Env.)	1223		43,595	47,985	-9%	£430	£470	-9%	
1 Nightingale Close (Nigh.Hall Ward			40,880	42,268	-3%	£410	£414	-1%	
Warden's House Ancaster Hall	2105		37,483	37,352	0%	£389	£366	6%	
Warden's House Florence Boot Hal Lenton Firs Lodge West			31,838	33,079	-4% -30%	£327 £282	£324 £396	1% -29%	
Paton Cottage	2241 ####		28,196 24,455	40,469 26,295	-30%	£282 £247	£396 £257	-29% -4%	
5A Wortley Hall Close (Eco-House)			18,786	26,293	-29%	£247 £189	£257	-28%	
Sherwood Hall Laundry	2200		8,758	9,029	-29%	£189	£201	- <u>-28%</u> 1%	
Lenton Eaves (UNSSC) - OIL	1461		0,730	122,600	-5 /0	£09	£2,283	1 /0	
Clifton Building 1 (North)	1351		0	93,663		£0	£917		
Total of 63 accounts	Totals		73,023,587	69,675,320	5%	685,857	642,615	7%	
rotal or oo docoding	-		-0,010,001	JU, J. 10, 020	970	- Joor	-,,,,,,,,	- /0	

4.B - Appendix B - Fossil Fuel Data continued

Gas Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Sutton Bonington			kWh	kWh	kWh	£	£	£	
Sutton Bonington Campus	6800	##	10,015,554	10,218,683	-2%	£101,981	£100,051	2%	
Plant Sciences	5711		2,700,473	2,643,317	2%	£27.568	£25,881	7%	
Animal Houses Boilerhouse	6800		2,585,629	2,541,788	2%	£26,630	£24,887	7%	
The Elms (Environmental Science)	5161		154,862	209,374	-26%	£1,558	£2,050	-24%	
Eviton House (68 College Road)	5891		140,026	150,231	-7%	£1,405	£1,471	-4%	
Portakabins (T.C.R. unit)	5301		89,501	127,312	-30%	£1,100	£1,247	-12%	
Sports Pavilion Sutton Bonington	5621	-	104,625	105,249	-1%	£1,040	£1,031	1%	
Main Building (Sutton Bonington)	5011		95,221	108,121	-12%	£967	£1,059	-9%	
Hathern House, Bon. Hall (4)	5831		95,062	90,548	5%	£940	£887	6%	
Sports Hall Sutton Bonington	5221		95,053	81,669	16%	£940	£800	18%	
Food Sciences Building	5701		59,505	58,270	2%	£631	£571	11%	
Food Hall	5081	-	52,122	51,656	1%	£553	£506	9%	
Bonington Hall Laundry & Gym	5881		51,344	74,509	-31%	£525	£730	-28%	
St.Michael's Flats Nos 6&7	6842	_	43,430	7,102	-5170	£439	£70	-2070	03/4 est'd readings
Bonington Hall Warden's House	5842		41,012	41,658	-2%	£409	£408	0%	03/4 est d readings
North Laboratory	5091		27,311	1,859	-2 /0	£409	£408	0 70	00/4
					4420/			4500/	03/4 est'd readings
St.Michael's Flats Nos 8&9	6843		23,292	9,624	142%	£235	£94		03/4 est'd readings
24 College Road	6805		21,687	8,940	143%	£213	£88	142%	03/4 est'd readings
St.Michael's House Flat 1	6841	_	20,867	1,516	-	£210	£15	-	03/4 est'd readings
St.Michael's House Flat 3	6841		18,497	1,106	-	£187	£11	-	03/4 est'd readings
St.Michael's House Flat 4	6841		17,991	663	- 000/	£182	£6	-	03/4 est'd readings
52 College Road	6820	-	17,002	23,038	-26%	£168	£226	-26%	
St.Michael's House Flat 2	6841		15,361	1,296	-	£155	£13	-	03/4 est'd readings
St.Michael's House Flat 5	6841	-	5,350	410	-	£54	£4	-	03/4 est'd readings
South Laboratory	5051		0	32	-	£0	£0	-	
Total of 25 accounts	Totals	\$	16,490,777	16,557,971	0%	168,360	162,124	4%	
One levelene			0004/5	0000/4	0/ -1	0004/5	0000/4	0/ -1	
Gas Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Jubilee Campus	7400	Luul	kWh	kWh	kWh	£	£	£	l .
Newark Hall	7130		1,184,313	1,154,999	3%	£12,025	£11,309	6%	
Computer Sciences (DCS) & The A		-	868,098	854,687	2%	£8,805	£8,368	5%	
Melton Hall	7110		633,775	636,268	0%	£6,483	£6,230	4%	
New Business School	7080		472,422	49,541	-	£6,364	£637	-	First full year
Southwell Hall	7120		596,352	612,422	-3%	£6,005	£5,996	0%	
The Exchange (CTF)	7030		470,458	598,879	-21%	£4,673	£5,864	-20%	
Dearing Building (FOE)	7050		417,149	435,841	-4%	£4,178	£4,267	-2%	
CCF hot water	7040		381,146	159,164	139%	£3,842	£1,558	147%	
Business School (SMF)	7020		281,194	373,327	-25%	£2,813	£3,655	-23%	
Total of 9 accounts	Totals	5	5,304,907	4,875,128	9%	55,188	47,884	15%	ı
One broaders			0004/5	0000/4	0/ - 1	0004/5	0000/4	0/ - 1	
Gas Invoices Others			2004/5 kWh	2003/4 kWh	% change kWh	2004/5 £	2003/4 £	% change £	
	0004	ши							Man Ind
King's Meadow Campus	6901 3325	_	3,382,946	1 297 740		£40,940	£0		Mar-Jul
Clinical Sciences (City Hospital)	_		1,786,980	1,387,740	29%	£18,100	£13,560		Estd, no invoices received
Derby Medical School	3561	##	1,105,112	1,345,264	-18%	£11,072	£13,171	-16%	
Grove Farm - OIL	6122	шп	277,976	254,194	9%	£7,328	£4,690	56%	
14-22 Shakespeare Street	6101	-	267,061	262,982	2%	£2,635	£2,575	2%	
Clumber Lodge	6900	##	218,544	124,372	76%	£2,207	£1,218	81%	
Sports Ground - Highfields - OIL	6311	J.,,	79,986	168,372	-52%	£2,062	£3,145	-34%	
Unit 5, William Lee Buildings	6885		53,296	25,360	110%	£1,072	£449		
8 Peachey Street	6102		99,271	105,703	-6%	£1,003	£1,035		
Sports Ground - Highfields	6311		87,223	83,556		£880	£818		
Unit 6, William Lee Buildings	6883		24663	31,652		£502	£588		
Sports Ground - Highfields	6311	##	159	158		£2	£2	0%	
IDOOT HOUSE OIL	6821	1	0	78,178	-	£0	£1,466		
Boat House - OIL	002.				040/	87,803	42,717	106%	
Total of 13 accounts	0021		7,383,217	3,867,531	91%	,		10070	
	002		7,383,217	3,867,531	91%			10070	
Total of 13 accounts	002								
Total of 13 accounts Steam Used	002		2004/5	2003/4	% change	2004/5	2003/4	% change	
Total of 13 accounts Steam Used Medical School			2004/5 kWh	2003/4 kWh	% change kWh	2004/5 £	2003/4 £	% change	
Total of 13 accounts Steam Used Medical School Medical School	(Ste	eam)	2004/5 kWh 19,750,000	2003/4 kWh 17,250,000	% change kWh	2004/5 £ £465,000	2003/4 £ £405,000	% change £	Est'd. NB 2003/4 est. was low
Total of 13 accounts Steam Used Medical School	(Ste	eam)	2004/5 kWh	2003/4 kWh	% change kWh	2004/5 £	2003/4 £	% change £	

4.C - Appendix C - Water Data

Water Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Main Campus			cubic m.	cubic m.	cubic m.	£	£	£	
Water and SWD DD	1000	##	0	0	-	343,430	294,533	17%	
Trade Effluent and Sewerage	1000	##	0	0	-	287,311	241,954	19%	
Main Supply, S.Entrance	1000	##	561,659	520,618	8%	0	0	-	
Science Area	1000	_	14,890	10,916	36%	0	0	-	
Nightingale Hall	2161	##	10,900	11,850	-8%	0	0	-	
Jesse Boot Conference Centre	1481	##	6,782	6,595	3%	0	0	-	
Jesse Boot Conference Centre	1481	##	3,872	2,912	33%	0	0	-	
Paton House (Built Env.)	1441	##	3,456	1,174	194%	0	0	-	
Lenton Grove (History) Architecture	1211	##	1,839	1,538 1,637	20% 2%	0	0	-	
Lenton Hurst	1433 2411	##	1,665 1,200	1,315	-9%	0	0		
Lenton Eaves (UNSSC)	1461	##	740	1,040	-29%	0	0	_	
Lenton Lodge	2251	##	452	113	300%	0	0	_	
Redcourt	2221	##	399	709	-44%	0	0	_	
Beeston Lane Gardeners' Compound	1511	##	309	206	50%	0	0	-	
Playgroup	1411	##	238	262	-9%	0	0	-	
5A Wortley Hall Close (Eco-House)	2296	##	43	57	-25%	0	0	-	
Total of 17 accounts	Total	s	608,444	560,942	8%	630,741	536,487	18%	

Water Invoices			2004/5	2003/4	% change	2004/5	2003/4	% change	
Sutton Bonington	0000		cubic m.	cubic m.	cubic m.	£	£	£	
SB Campus Water DD	6800	_	0	0	-	77,300	55,717		estd, no rec.
SB Trade Effluent & Sewerage St.Michael's Close	6800 6841	##		0 3071	230%	57,091 15.207	43,331	32%	Leak, now fixed
Bunny Farm	6860	-	10,132 600	62	230%	15,207	4,213 67	201%	Leak, now fixed
Trough, Keyworth	6910	##	000	02	_	17	16	6%	
Landcroft Lane meter	6800	##	112.000	97,911	14%	0	0	- 070	estd, no rec.
College Road meter	6800	-	26,000	16,705	56%	0	0	_	estd, no rec. Leaks?
Total of 7 accounts	-		148,732	117,749	26%	150,165	103,344	45%	
Water Invoices			2004/5	000014					
				2003/4	% change	2004/5	2003/4	% change	
New Campus			cubic m.	cubic m.	% change cubic m.	£	£	£	
New Campus JC Water DD	7000		cubic m.	cubic m.	cubic m.	£ 81,901	£ 106,506	£ -23%	New tariff, rebate received
New Campus JC Water DD Newark Hall	7130	##	cubic m. 0 14,746	cubic m. 0 14,533	cubic m.	£ 81,901 23,577	£ 106,506 21,363	£ -23% 10%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall	7130 7120	## ##	cubic m. 0 14,746 7,672	cubic m. 0 14,533 7,828	cubic m. - 1% -2%	£ 81,901 23,577 13,465	£ 106,506 21,363 12,539	£ -23% 10% 7%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House	7130 7120 6701	## ## ##	cubic m. 0 14,746 7,672 24	cubic m. 0 14,533 7,828 33	cubic m. - 1% -2% -27%	£ 81,901 23,577 13,465 215	£ 106,506 21,363 12,539 225	£ -23% 10%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House	7130 7120 6701 6701	## ## ##	cubic m. 0 14,746 7,672 24 0	cubic m. 0 14,533 7,828 33 0	cubic m. - 1% -2% -27%	£ 81,901 23,577 13,465 215 147	£ 106,506 21,363 12,539 225 149	£ -23% 10% 7% -4%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion	7130 7120 6701 6701 7201	## ## ## ##	cubic m. 0 14,746 7,672 24 0 7	cubic m. 0 14,533 7,828 33 0 33	cubic m 1% -2% -27%79%	£ 81,901 23,577 13,465 215 147 32	£ 106,506 21,363 12,539 225 149 69	£ -23% 10% 7%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume	7130 7120 6701 6701	## ## ## ## ##	cubic m. 0 14,746 7,672 24 0	cubic m. 0 14,533 7,828 33 0 33 63,629	cubic m 1% -2% -27%79% 1%	£ 81,901 23,577 13,465 215 147 32 0	£ 106,506 21,363 12,539 225 149 69 0	£ -23% 10% 7% -4%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion	7130 7120 6701 6701 7201	## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420	cubic m. 0 14,533 7,828 33 0 33	cubic m 1% -2% -27%79%	£ 81,901 23,577 13,465 215 147 32	£ 106,506 21,363 12,539 225 149 69	£ -23% 10% 7% -4%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site	7130 7120 6701 6701 7201	## ## ## ## ##	0 14,746 7,672 24 0 7 64,420	cubic m. 0 14,533 7,828 33 0 33 63,629 706	cubic m. - 1% -2% -27% -27%79% 1% -100%	£ 81,901 23,577 13,465 215 147 32 0	£ 106,506 21,363 12,539 225 149 69 0 15,210	£ -23% 10% 7% -4%54%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices	7130 7120 6701 6701 7201	## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061	£ -23% 10% 7% -4%54%24% % change	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others	7130 7120 6701 6701 7201 7000	## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m.	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m.	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337	£ 106,506 21,363 12,539 225 1449 69 0 15,210 156,061 2003/4 £	£ -23% 10% 7% -4% -4%54%24% % change	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital)	7130 7120 6701 6701 7201	## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500	£ 106,506 21,363 12,539 225 1449 69 0 15,210 156,061 2003/4 £ 14,000	£ -23% 10% 7% -4%54%24% % change	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus	7130 7120 6701 6701 7201 7000	## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0	£ -23% 10% 7% -4% -4%54%24% % change £ 68%	New tariff, rebate received
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge	7130 7120 6701 6701 7201 7000 3325	## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446	£ -23% 10% 7% -4%54%24% % change £ 68% 231%	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields	7130 7120 6701 6701 7201 7000 3325 6900 6311	## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207	£ -23% 10% 7% -4%	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101	## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622	£ -23% 10% 7% -4% -4%54%	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883	## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440	cubic m. - 1% -2% -27%79% -1% -100% -100% % change cubic m5% 196% -25% -40% -34%	£ 81,901 23,577 13,465 215 147 32 0 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650	£ 106,506 21,363 12,539 225 1449 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585	£ -23% 10% 7% -4% -4%54%24% % change £ 68% 231% 6% 1	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885	## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77	cubic m. 0 14,533 7,828 33 0 0 33 63,629 7006 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 966	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389	£ -23% 10% 7% -4% -4%54%	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102	## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 966 109	cubic m. - 1% -2% -27%79% -1% -100% -100% % change cubic m5% 196% -25% -40% -34%	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196	£ -23% 10% 7% -4%4%54%24% % change £ 68%231% 6% 1 111% 5% 0	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102	## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 777 97	cubic m. 0 14,533 7,828 33 0 0 33 63,629 7006 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 966	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389	£ -23% 10% 7% -4% -4% -54%24% % change £ 68% 231% 6% 1 111% 55%	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884	## ## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 440 96 109 81	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241 201	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81	£ -23% 10% 7% -4%	
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings Boat House	7130 7120 6701 7201 7201 7000 3325 6900 6311 6101 6883 6102 6891 6122	## ## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97 74 0 0 0 5511	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 96 109 81 0 0 0 511	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 4,783 1,277 962 650 410 241 201 173 68 700	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61 648	£ -23% 10% 7% -4% -4% -54%24% % change £ 68%231% 6% 1 11% 5% 0 148% 0 8%	estd, no bills recvd
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884	## ## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 8445 618 63 77 97 74 0 0	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 4440 96 109 81 0 0	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241 201 173 68	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61	£ -23% 10% 7% -4% -4% -54%54% % change £ 88% 231% 6% 6% 11 11% 5% 0 148% 26% 0	estd, no bills recvd
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings Boat House	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884	## ## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97 74 0 0 511 37,975	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 440 96 109 81 0 0 0 511 16,938	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241 201 173 68 700 46,965	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61 648 19,372	£ -23% 10% 7% -4%	estd, no bills recvd
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings Unit 5, William Lee Buildings Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings Boat House Total of 12 accounts	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884	## ## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97 74 0 0 0 37,975	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 96 109 81 0 0 0 1,613 16,938	cubic m.	£ 81,901 23,577 13,465 147 32 0 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241 201 173 68 700 46,965	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61 648 19,372	£ -23% 10% 7% -4% -4% -54%24% % change £ 68% 68% 11 11% 5% 0 148% 26% 0 8% 142% % change	estd, no bills recvd
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings Boat House Total of 12 accounts Water Recharges Medical School	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884 6321	## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97 74 0 0 0 511 37,975 2004/5 cubic m.	cubic m. 0 14,533 7,828 33 0 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 96 109 81 0 0 1511 16,938	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241 201 173 68 700 46,965	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61 648 19,372 2003/4 £	£ -23% 10% 7% -4% -4% -54%24% % change £ 68%231% 6% 1 111% 55% 0 148% 26% 0 8% 142% % change	estd, no bills recvd
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings Boat House Total of 12 accounts Water Recharges Medical School Medical School	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884	## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97 74 0 0 511 37,975 2004/5 cubic m. 32,770	cubic m. 0 14,533 7,828 33 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 96 109 81 0 0 0 511 16,938 2003/4 cubic m. 40,852	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 4,783 1,277 962 650 410 241 201 173 68 700 46,965 2004/5 £ 47,000	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61 648 19,372 2003/4 £ 36,319	£ -23% 10% 7% -4% -4% -54% % change £ 68% - 231% 6% 1 11% 5% 0 148% 26% 0 8% 142% % change £	estd, no bills recvd
New Campus JC Water DD Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Raleigh Site Total of 8 items Water Invoices Others Clinical Sciences (City Hospital) Kings Meadow Campus Clumber Lodge Sports Ground - Highfields 14-22 Shakespeare Street Unit 6, William Lee Buildings Unit 5, William Lee Buildings 8 Peachey Street Unit 8, Edison Village (Synergy Hou Grove Farm - Changing Rooms Unit 8, William Lee Buildings Boat House Total of 12 accounts Water Recharges Medical School	7130 7120 6701 6701 7201 7000 3325 6900 6311 6101 6883 6885 6102 6891 6122 6884 6321	## ## ## ## ## ## ## ## ## ## ##	cubic m. 0 14,746 7,672 24 0 7 64,420 0 86,869 2004/5 cubic m. 22,317 8,000 5,373 845 618 63 77 97 74 0 0 0 511 37,975 2004/5 cubic m.	cubic m. 0 14,533 7,828 33 0 0 33 63,629 706 86,762 2003/4 cubic m. 12,762 0 1,817 1,122 440 96 109 81 0 0 1511 16,938	cubic m.	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 23,500 14,000 4,783 1,277 962 650 410 241 201 173 68 700 46,965	£ 106,506 21,363 12,539 225 149 69 0 15,210 156,061 2003/4 £ 14,000 0 1,446 1,207 622 585 389 196 81 137 61 648 19,372 2003/4 £	£ -23% 10% 7% -4% -4% -54% % change £ 68% - 231% 6% 1 11% 5% 0 148% 26% 0 8% 142% % change £	estd, no bills recvd