Energy Report 2005/6

2005/6 Energy Report - Executive Summary

Overall 2005/6 saw a reduction in energy and water consumption by the University. However energy costs have continued to increase. The impact has been a £3.3million increase in total energy and water costs*.

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

Energy

Total energy consumption was reduced by 3.0%, despite colder weather which would have indicated a consumption increase of 2.4%.

Energy consumption per square metre reduced by 6.3%, and is now falling below $400kWh/m^2$ for the first time.

Energy usage per FT student reduced by 6.7% from last year, to a new low (now 12.5% lower than in 2002/2003)

Water

Water consumption was reduced by 8% during this reporting period.

Costs

Significant increases in utility costs including taxes for 2005/6 showed a rise of 54%, taking the total to £9.47 million.

Environmental

Overall CO₂ Emissions have risen 42% due to reduced amounts of 'green' electricity being purchased.

Turnover

The University's turnover has increased by 8.4% during this reporting year. Toal utility costs are now 2.67% of turnover.

Student Numbers

The student numbers for full-time students have increased by 4.0%.

Premises

The overall premises Gross Internal Area (GIA) has increased by 3.5% over this period. The first full year of occupation of the King's Meadow Campus added an extra 1.3million kWh (1.2%) to overall energy consumption.

*This year saw the introduction of `flexible' energy procurement practice which removed the large contingency costs of future fixed pricing but included accepting inherent market risk. In the event, the cost benefit achieved has been £550k for the 12 months commencing 1st October 2005.

Notes to accompany Executive Summary

The strategic management of energy is undertaken by the Energy Sub-Group, this reports to 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 2005/6 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
- S. Day Environment & Social Justice Officer, SU

Note that most figures relate to the University's financial year of August 1^{st} 2005 to July 31^{st} 2006, with the baseline for comparison being the previous (2004/5) financial year.

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

2005/6 Energy Report

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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 by campus, floor area (square metres), 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.

Section 4 – Appendices

Covering the individual accounts billed for electricity, gas and water, plus a record of work undertaken during the year.

Section 1 - Total Energy Report

1.A. - Energy and Water Costs Summary

Energy and water bills increased by almost £2.8million last year, a significant increase on the year before. UK energy prices have doubled in the last two years, driven up by high world oil prices and a shortage of gas into the UK. Prices now seem to have stabilised, but remain at significantly increased levels to those of the last five years.

In sections 2.B and 2.D you will see how new purchasing strategies have helped to minimise the impact of these energy price rises. However, it is important that the University continues to do everything possible to reduce our consumption in order to minimise our exposure to continued high energy prices.

Energy and Water Costs				Change
	2003/4	2004/5	2005/6	'05/6 to '04/5
University Park	£2,237,998	£3,043,972	£4,697,358	54%
Sutton Bonington	£ 536,245	£ 725,387	£1,149,584	58%
Jubilee Campus	£ 332,314	£ 379,587	£ 530,352	40%
Others	£ 147,268	£ 292,862	£ 486,098	66%
Medical School	£ 927,317	£1,026,500	£1,378,232	34%
Total	£ 4,181,142	£ 5,468,308	£ 8,241,624	51%

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

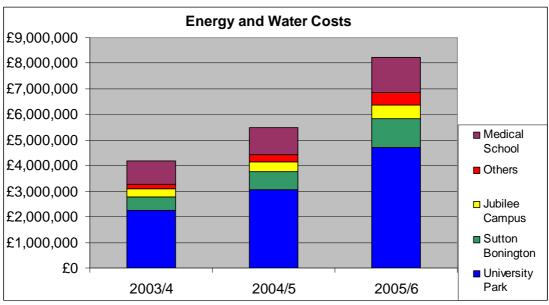


Figure 1.A.2 Graph of energy and water costs for the last 3 years split by campus.

Note that these figures exclude VAT and Climate Change Levy, which are discussed on page 7.

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

Campus Costs		Cost/sq.m/annum					
	Floor Area	Electricity	Heating	Water	Total		
University Park	287,072	£8.79	£5.25	£2.33			
Sutton Bonington	48,740	£12.61	£7.16	£3.82	£23.59		
Jubilee Campus	45,570	£6.59	£2.57	£2.48	£11.64		
Others	53,919	£5.31	£2.75	£0.95			
Medical School	46,843	£9.88	£18.13	£1.41	£29.42		
Total	482,144	£8.68	£6.16	£2.25	£17.09		

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

The overall floor area increased by 3.5% from 2004/5.

Note that if taxes are taken into account, our average utility costs are now £19.63 per square metre per annum.

1.C - Climate Change Levy and VAT

The total amount of CCL paid by Notice Ltd during 2005/6 was £211,000 for electricity and £92,000 for gas. This showed an increase compared to last year due to the reduced amount of 'green' electricity that was available for procurement.

In the majority of tables in this report VAT is also not included. However for completeness some tables have VAT shown where indicated. VAT paid for 2005/6 FY was £921,000 (£270,000 gas and £651,000 on electricity).

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

		2005/6						
	Electricity	Fossil Fuels	Water	Totals	Totals			
Energy Costs	£4,186,654	£2,970,946	£1,084,024	£ 8,241,624	£5,468,308			
Climate Change Levy	£ 210,987	£ 91,632	£ -	£ 302,620	£150,523			
Value Added Tax	£ 651,021	£ 270,009	£ -	£ 921,029	£536,965			
Total	£ 5,048,662	£ 3,332,587	£ 1,084,024	£ 9,465,273	£6,155,796			

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

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.

1.D - 2005/2006 Costs Broken Down by Campus and Utilities

Energy and Water Costs				
	Electricity	Fossil Fuels	Water	Total
University Park	£ 2,522,336	£1,507,478	£ 667,544	£ 4,697,358
Sutton Bonington	£ 614,473	£ 349,059	£ 186,052	£ 1,149,584
Jubilee Campus	£ 300,457	£ 116,892	£ 113,003	£ 530,352
Others	£ 286,388	£ 148,485	£ 51,225	£ 486,098
Medical School	£ 463,000	£ 849,032	£ 66,200	£ 1,378,232
Total	£ 4,186,654	£ 2,970,946	£1,084,024	£ 8,241,624

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

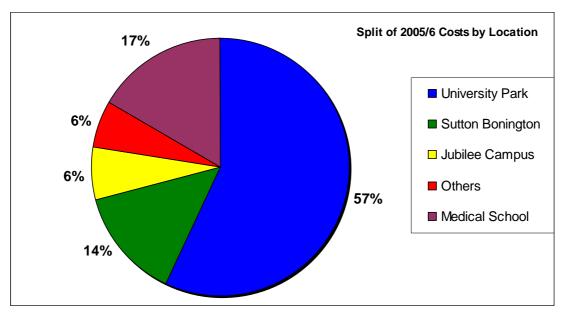


Figure 1.D.2 Pie chart of energy and water costs split by campus

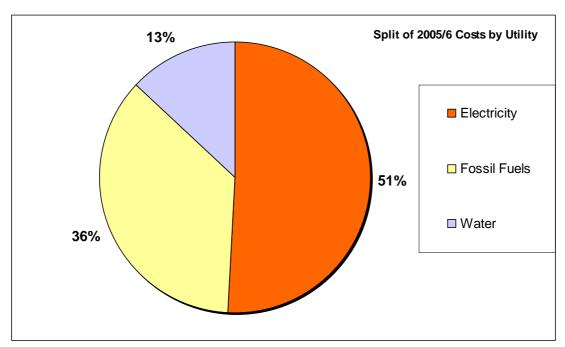


Figure 1.D.3 Pie chart of energy and water costs split by utility type

1.E - Energy Use Summary

Energy consumption reduced by 3% in 2005/6. Electricity consumption increased in line with the increase in floor area up by 4% (see section 2.A), gas consumption decreased by 7% taking into account a significantly cold period (see 2.C)

Energy Consumption	MWh	MWh	MWh	Change	
	2003/4	2004/5	2005/6	'05/6 to '04/5	
University Park	109,116	116,269	109,088	-6%	
Sutton Bonington	26,682	26,706	25,818	-3%	
Jubilee Campus	9,333	10,396	9,939	-4%	
Others	5,886	10,404	10,544	1%	
Medical School	31,585	34,150	36,516	7%	
Tota	182,602	197,924	191,905	-3%	

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

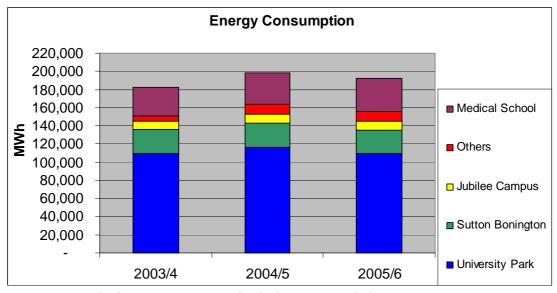


Figure 1.E.2 Graph of energy consumption for the last 3 years split by campus

1.F - Energy Use Breakdown by Campus and Utilities

Energy Consumption	Consumption MWh		MWh
2005/2006	Electricity	Fossil Fuels	Total
University Park	44,380	64,708	109,088
Sutton Bonington	10,475	15,343	25,818
Jubilee Campus	4,912	5,027	9,939
Others	4,134	6,410	10,544
Medical School	10,204	26,312	36,516
Total	74,105	117,800	191,905

Figure 1.F.1 Table of energy consumption for 2005/6 split by campus and by utility

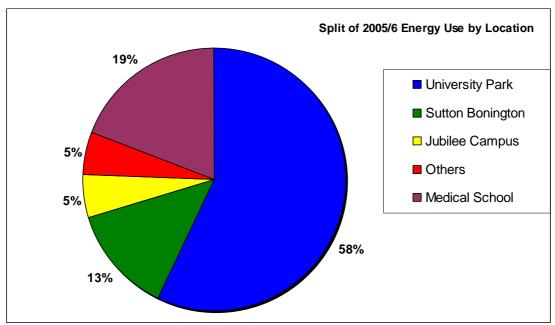


Figure 1.F.2 Pie chart of energy consumption split by campus

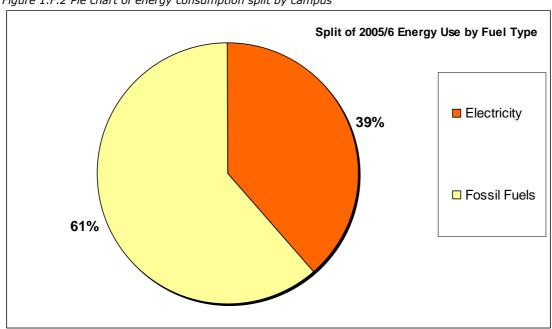


Figure 1.F.3 Pie chart of energy consumption split by utility type. Note: Our 'fossil fuels' comprise 99.5% gas and 0.5% gasoil

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

	2002/3	2003/4	2004/5	2005/6	Change
Floor Area (sq.m.)	420,854	436,236	465,769	482,144	3.5%
Annual Energy Usage (MWh)	188,782	182,602	197,924	191,905	-3.0%
Energy Usage Per sq. m.	449	419	425	398	-6.3%

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

Note that energy usage has fallen below 400kWh per square metre.

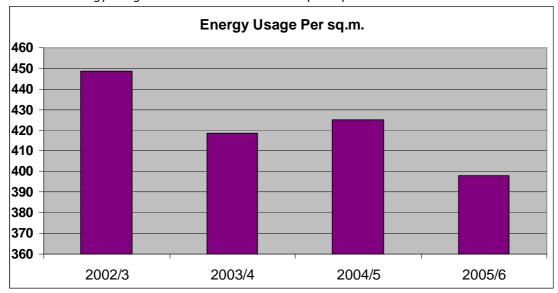


Figure 1.G.2 Graph of last four years energy usage per unit floor area.

	2002/3	2003/4	2004/5	2005/6	Change
Floor Area (sq.m.)	420,854	436,236	465,769	482,144	3.5%
Energy and Water Costs	£ 4,017,880	£ 4,181,142	£ 5,468,308	£ 8,241,624	50.7%
Utility Cost Per sq. m.	£ 9.55	£ 9.58	£ 11.74	£ 17.09	45.6%

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

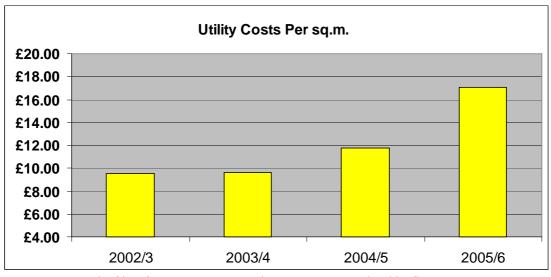


Figure 1.G.4 Graph of last four years energy and water costs normalised by floor area.

1.H - Energy Usage and Cost per FT Student

	2002/3	2003/4	2004/5	2005/6	Change
FT Student Numbers	21,244	22,808	23,740	24,680	4.0%
Annual Energy (MWh)	188,782	182,602	197,924	191,905	-3.0%
Energy / Student (kWh)	8,886	8,006	8,337	7,776	-6.7%

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

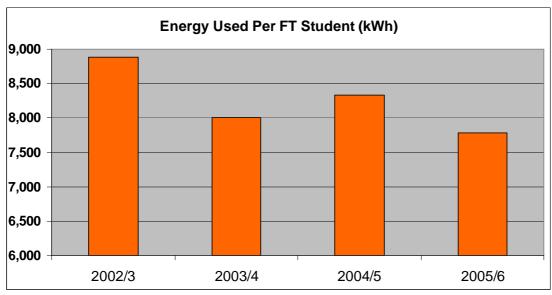


Figure 1.H.2 Graph of last four years energy usage per full-time student.

	2002/3	2003/4	2004/5	2005/6	Change
FT Student Numbers	21,244	22,808	23,740	24,680	4.0%
Energy and Water Costs	£ 4,017,880	£4,181,142	£5,468,308	£ 8,241,624	50.7%
Utility Costs / Student	£ 189.13	£ 183.32	£ 230.34	£ 333.94	45.0%

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

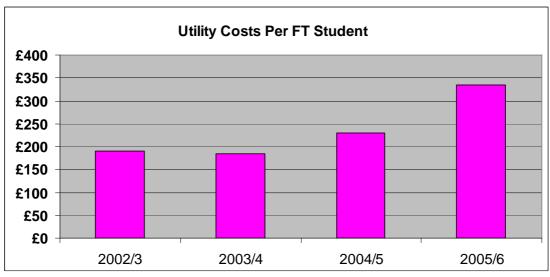


Figure 1.H.4 Graph of last four years energy and water costs per full-time student.

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.I - Utility Costs as a Proportion of University Turnover

Percentage of Turnover									Change
(£ 000)		2002/3		2003/4		2004/5		2005/6	'05/6 to '04/5
Utility Costs inc. taxes	£	4,922	£	4,953	£	6,156	£	9,465	53.8%
Total University Turnover	£	286,300	£	303,500	£	326,400	£	353,944	8.4%
Percentage		1.72%		1.63%		1.89%		2.67%	41.8%

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

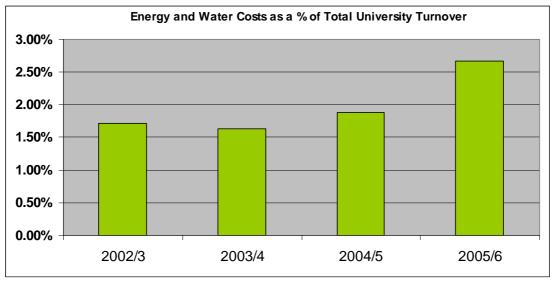


Figure 1.I.2 Graph of last four years energy and water costs normalised by total University turnover.

1.J - Comparison to Other Universities - 2004/5

	Energy use/ student (kWh)	Energy/sq.m (kWh/sq.m GIA) non- residential	Utility Costs/income
Birmingham	6,634	470	1.75%
Bristol	5,114	443	1.84%
Cambridge	7,518	280	1.02%
Cardiff	2,012	182	1.61%
Edinburgh	7,703	338	1.69%
Glasgow	4,749	335	1.38%
Imperial College	27,247	723	1.90%
King's College London	6,416	363	1.49%
L.S.E	2,468	188	1.09%
Leeds	4,364	333	2.11%
Liverpool	6,468	371	2.07%
Manchester	0	0	0.00%
Newcastle Upon Tyne	5,663	310	1.54%
Nottingham	5,187	455	2.05%
Oxford	8,110	353	0.95%
Sheffield	3,595	281	1.47%
Southampton	4,560	385	1.80%
U.C.L.	5,791	304	1.05%
Warwick	6,307	446	1.52%

Figure 1.J.1 Table of Estates Management Statistics for the 2004/5 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 2004/5. Note that this is the most recent year where data is available for comparison, but is one year behind the most recent information presented elsewhere in this report.

Energy use per m2 at Nottingham is high compared to other institutions in the Russell Group; this in part reflects the higher utilisation of space at Nottingham. Non-residential space per student is just 11.4m2 at Nottingham, compared to an average of 13.6m2 for the Russell Group (excluding London institutions, Oxford, and Cambridge). This difference of approximately 19% represents a more intensively used estate.

Utility costs as a percentage of income are high for Nottingham compared to other institutions – 2.05% compared to an average of 1.66% (Russell Group excluding London institutions, Oxford, and Cambridge). Nottingham has higher water costs and an income mix heavily weighted towards teaching. The amount paid per kWh for energy at Nottingham is 2.89 pence against an average of 2.94 pence.

Section 2 - Analysis of Energy Components

2.A - Electricity Consumption

Electricity consumption increased by 4%, due to the increase in the Estate, up a total of 2,634 MWh.

In general, electricity consumption appears to be moderating after efforts on various fronts during 2005/6. Four hundred automatic light switch controls were fitted to small meeting rooms and toilet areas. Considerable time has also been spent on optimising performance of many of our complex buildings. The effects of this can be seen in reduced consumption at sites such as the Jubilee Campus and Derby Medical School. Additionally, the campaign to reduce wastage from fume cupboards has had a significant effect on fan use in air handling units and chillers, as well as the fume cupboard fans themselves.

Electricity Consumption	MWh	MWh	MWh	Change
	2003/4	2004/5	2005/6	'05/6 to '04/5
University Park	39,441	43,245	44,380	3%
Sutton Bonington	10,124	10,215	10,475	3%
Jubilee Campus	4,458	5,091	4,912	-4%
Others	2,018	3,020	4,134	37%
Medical School	9,935	9,900	10,204	3%
Total	65,976	71,471	74,105	4%

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

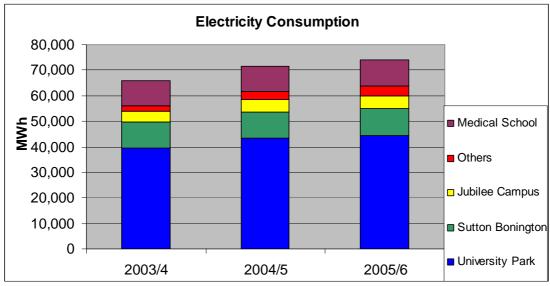


Figure 2.A.2 Graph of electricity usage for the last 3 years split by campus.

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

2.B - Electricity Costs

The main electricity contracts were tendered in August 2005 for a new contract year commencing October $1^{\rm st}$ 2005. Gaz de France offered the lowest priced traditional contract, averaging $6.64 \rm p/kWh$ – an increase of 43% on the previous contract price of $4.63 \rm p/kWh$. It was resolved by the Energy Sub-Group on $25^{\rm th}$ August 2005 to use a 'flexible' contract from Gaz de France, and purchase electricity during the year. Savings of 6.9% were achieved compared to the traditional fixed-price offer over the life of the contract. This equates to a saving of £328,000, and gave an average purchase price of $6.18 \rm p/kWh$. Note that we were paying an average price of just $2.69 \rm p/kWh$ as recently as September 2004.

The tender for the University's 'sub-100kW' sites (representing 36 smaller properties, such as sports grounds) was issued in January 2006 to commence April $1^{\rm st}$ 2006. Prices were felt to be particularly high at that time, so the contract was retendered again a month later, and an overall reduction of £10,000 achieved. However, average contract prices still increased from 3.99p/kWh to 7.97p/kWh (100%). The new supplier was Eon, and was 100% CCL-exempt green energy – supplies had previously been with Bizz Energy.

Electricity Costs				Change
	2003/4	2004/5	2005/6	'05/6 to '04/5
University Park	£1,058,896	£1,727,374	£ 2,522,336	46%
Sutton Bonington	£ 270,777	£ 406,862	£ 614,473	51%
Jubilee Campus	£ 128,369	£ 205,062	£ 300,457	47%
Others	£ 85,179	£ 158,094	£ 286,388	81%
Medical School	£ 394,000	£ 401,000	£ 463,000	15%
Total	£1,937,221	£2,898,392	£4,186,654	44%

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

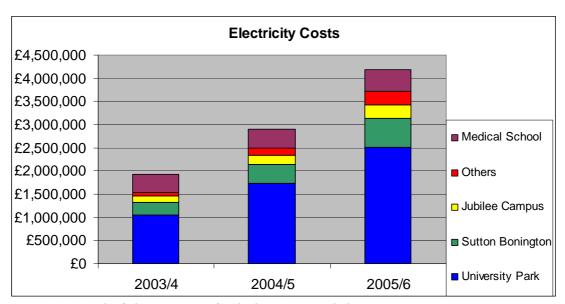


Figure 2.B.2 Graph of electricity costs for the last 3 years split by campus.

2.C - Fossil Fuel Consumption

Consumption of fossil fuels fell by 7% in 2005/6. When degree day adjustment is considered (see 3C) the consumption reduction is 10.8%. The bulk of the savings were made at University Park, where savings of 20% were made at the Central Heating Station. This was achieved from a thorough review of building operating hours, and setting the system temperatures lower during evenings and weekends. A campaign to reduce unnecessary fume cupboard usage was introduced from February 2006 – fume cupboards account for around 20% of our total energy costs. There was also an extended summer shutdown of the system for maintenance, meaning that more hot water was generated electrically during the summer.

Fossil Fuel Consumption	MWh	MWh	MWh	Change
	2003/4	2004/5	2005/6	'05/6 to '04/5
University Park	69,675	73,024	64,708	-11%
Sutton Bonington	16,558	16,491	15,343	-7%
Jubilee Campus	4,875	5,305	5,027	-5%
Others	3,868	7,383	6,410	-13%
Medical School (Steam)	21,650	24,250	26,312	9%
Total	116,626	126,452	117,800	-7%

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

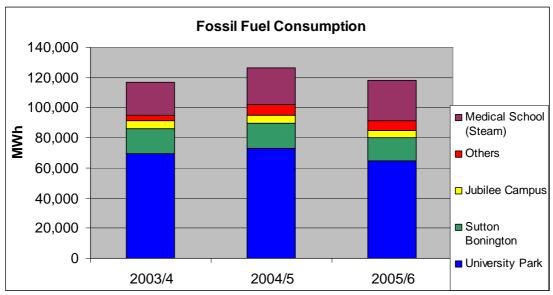


Figure 2.C.2 Graph of fossil fuel usage for the last 3 years split by campus.

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

2.D - Fossil Fuel Costs

Gas prices increased again during 2005. The University's existing firm gas contract ended on 31st May 2005, when the price was 0.9791p/kWh. A short four month summer contract at 1.4949p/kWh (up 53%) was then undertaken as a stopgap, to see if the price rise was temporary. However prices remained high, and the best price available in August 2005 for a traditional one-year contract commencing 1st October 2005 was 2.615p/kWh (up 167% on the last full year). This offer was rejected, and it was decided by the Energy Sub-Committee (Aug 25th) that a new form of 'flexible' contract would be used. With this type of contract the price paid varies according to the market price of gas during the year. Whilst this method carries a risk that prices can increase, it was felt that the fixed prices included an unusually high risk premium. In the event the contract (with Gaz de France) was a success, with a 10.3% saving (£272,000) being achieved compared to the quoted fixed price contract. Prices varied from month to month, but the overall average received was 2.346p/kWh.

Fossil Fuel Costs							Chang	е
		2003/4		2004/5		2005/6	'05/6 to '0	4/5
University Park	£	642,615	£	685,857	£	1,507,478	12	20%
Sutton Bonington	£	162,124	£	168,360	£	349,059	10	07%
Jubilee Campus	£	47,884	£	55,188	£	116,892	1	12%
Others	£	42,717	£	87,803	£	148,485	(39%
Medical School (Steam)	£	485,000	£	567,000	£	849,032	!	50%
Total	£1	1,380,340	£′	1,564,208	£2	2,970,946	(90%

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

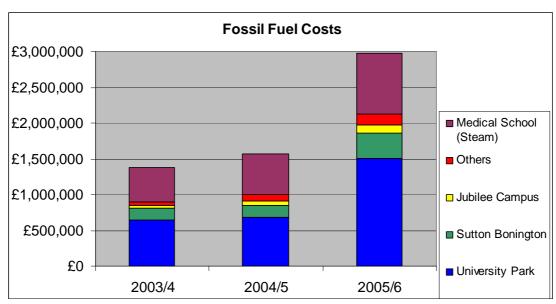


Figure 2.D.2 Graph of fossil fuel costs for the last 3 years split by campus.

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 for the year has shown an overall reduction of 8% on the previous year. There was an investment of twenty thousand pounds in urinal controls, which were installed between December 2005 and February 2006. These devices incorporate a PIR detector and timer and prevent urinals flushing continually when there is no usage. A significant leak was also detected and fixed at University Park.

Plans to develop a borehole for potable water at University Park with Severn Trent had to be suspended after levels of some trace elements in the water were found to be high. Whilst the levels of contamination were treatable, the economics of the scheme would have been seriously affected, and it was decided by the Energy Sub-Group to stop the proposals at this stage before capital costs were incurred.

Water Consumption	cubic m.	cubic m.	cubic m.	Change
	2003/4	2004/5	2005/6	'05/6 to '04/5
University Park	560,942	608,444	546,497	-10%
Sutton Bonington	117,749	148,732	162,052	9%
Jubilee Campus	86,762	86,869	76,534	-12%
Others	16,938	37,975	22,987	-39%
Medical School	54,352	43,570	43,118	-1%
Total	836,743	925,590	851,188	-8%

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

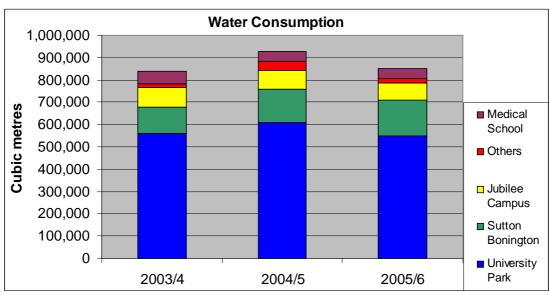


Figure 2.E.2 Graph of water usage for the last 3 years split by campus.

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

2.F - Water Costs

Severn Trent increase their prices for water supply and sewerage by an average of 16% over the year to 31^{st} July 2006.

Prices for winter water at large sites (ECO 250 Tariff) rose 19% in April 2005 to $38.28 p/m^3$, and then 2.4% in April 2006 to $39.21 p/m^3$. Summer water (May to September) also rose 2.4%, from $72.77 p/m^3$ to $74.54 p/m^3$. On unmetered sites, water costs rose by 3.8%, from 81.87 to 85.02 pence.

The most significant increases in April 2006 were in used water, which rose by 11.1%, from 48.8p/m^3 to 54.22p/m^3 in April 2005. Surface water drainage, which is usually based on site area, went up 9.9%, for instance from £81,777 to £89,873 at University Park. On unmetered sites, used water costs rose by 6.3%, from 79.76 to 84.77 pence.

Water Costs								Char	nge
			2003/4		2004/5		2005/6	'05/6 to	'04/5
University Park		£	536,487	£	630,741	£	667,544		6%
Sutton Bonington		£	103,344	£	150,165	£	186,052		24%
Jubilee Campus		£	156,061	£	119,337	£	113,003		-5%
Others		£	19,372	£	46,965	£	51,225		9%
Medical School		£	48,317	£	58,500	£	66,200		13%
	Total	£	863,581	£´	1,005,708	£	1,084,024		8%

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

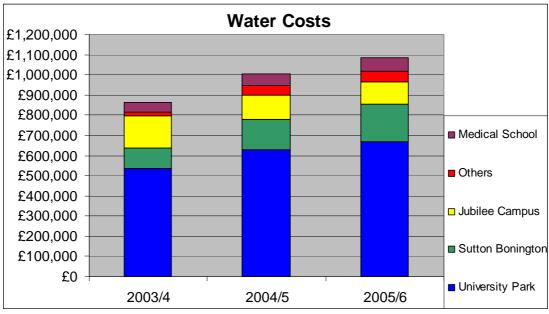


Figure 2.F.2 Graph of water costs for the last 3 years split by campus.

Note that 'Summer' water prices relate to the calendar months May to September, 'winter' relates to October to April.

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

3.A - Carbon Dioxide Emissions

University Park is included in the EU Emissions Trading Scheme – the calendar year of 2005 was the first year of operation of the Scheme. The University beat its target of 13,569 Tonnes by 1,014 Tonnes (7.5%), emitting 12,555 Tonnes of CO_2 from the campus. Note that this scheme only covers fossil fuel emissions from University Park and covers the calendar year, unlike the tables and graphs here which show the University's financial year.

Overall emissions of carbon dioxide from all sources increased during 2005/6, as the proportion of 'green' electricity we were able to procure reduced. This was principally due to the main 'half-hourly' electricity contracts not having a flexible green product available for this year. This decision was endorsed by the Energy Sub-Group of 25th August 2005, and the policy remains to actively seek 'green' sources of electricity at the tender stages.

CO2 Emissions	Tonnes	Tonnes	Tonnes	Change
	2003/4	2004/5	2005/6	'05/6 to '04/5
University Park	30,198	18,658	28,419	52%
Sutton Bonington	7,499	3,581	6,721	88%
Jubilee Campus	2,693	2,188	2,740	25%
Others	1,586	2,205	2,640	20%
Medical School	8,386	8,013	8,509	6%
Tota	50,362	34,645	49,030	42%

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

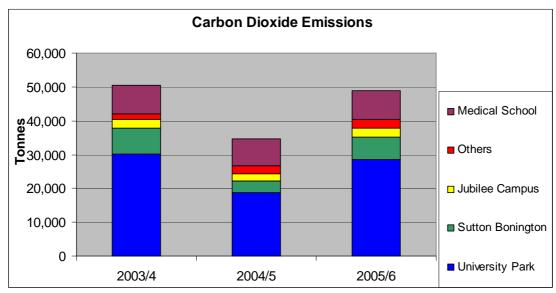


Figure 3.A.2 Graph of CO_2 emissions for the last 3 years split by campus. Conversion factors used are supplied to us by the Carbon Trust - units are Tonnes of Carbon Dioxide emitted per MWh of energy consumed. Note that DEFRA (the Department for Environment, Food and Rural Affairs) are now recommending 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.

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 manmade warming of the atmosphere. The UK government has a target of reducing national CO_2 emissions by 12.5% from 1990 levels by 2010.

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

CO2 Emissions	Tonnes	Tonnes	Tonnes
2005/2006	Electricity	Fossil Fuels	Total
University Park	16,125	12,294	28,419
Sutton Bonington	3,806	2,915	6,721
Jubilee Campus	1,785	955	2,740
Others	1,422	1,218	2,640
Medical School	3,510	4,999	8,509
Total	26,648	22,382	49,030

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

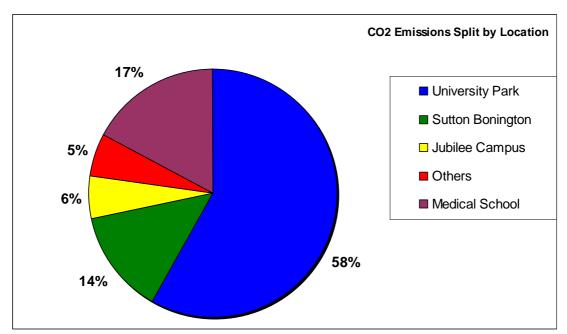


Figure 3.B.2 Graph of CO₂ emissions split by campus

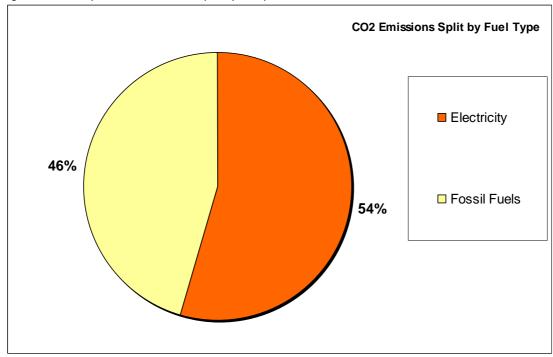


Figure 3.B.3 Graph of CO₂ emissions split by source fuel type

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	'05/6 to '04/5
	20 Yr Avg	2003-04	2004-05	2005-06	Change
Aug	35	24	18	33	83.3%
Sep	76	68	52	52	0.0%
Oct	162	194	154	90	-41.6%
Nov	270	232	241	280	16.2%
Dec	338	343	310	345	11.3%
Jan	362	332	309	353	14.2%
Feb	312	293	325	328	0.9%
Mar	283	281	265	337	27.2%
Apr	217	176	198	215	8.6%
May	137	112	139	114	-18.0%
Jun	74	45	55	43	-21.8%
Jul	35	39	30	12	-60.0%
Total	2,301	2,139	2,096	2,202	5.1%
			Weather mo	difier (75%)	3.8%

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

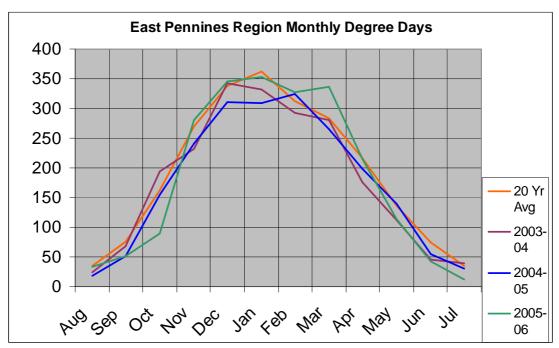


Figure 3.C.2 Graph showing last three years monthly degree days and average degree days

For the purposes of this report, 75% of the change in degree days has been used, as production of domestic hot water typically accounts for about 25% of usage. Using this information indicates consumption of fossil fuels should have increased by about 4% as 2005/6 was colder than 2004/5.

3.D - Conclusions

There have been successes in achieving reductions in both energy and water consumption, which have helped to minimise the effect of higher energy prices. Additional resources have been directed at energy management, and in increased funding of energy conservation projects.

This strategy will continue, under the direction of the University Environment Committee's Energy Sub-Group.

Our terms of reference are to:-

- Promote energy conservation schemes which offer attractive payback periods
- Review the best long term strategies for energy provision, considering issues such as decentralisation and combined heat and power
- Continue to use innovative purchasing strategies to obtain the best value energy supply contracts
- Actively seek offers of 'green' electricity
- Liaise with our building users to ensure correct hours of operation of heating and ventilation systems are maintained
- Revisit controls settings in our existing buildings to optimise energy usage and reduce waste
- Explore opportunities for new and renewable energy technologies in new building developments
- Promote energy awareness campaigns throughout all of the University's buildings and Schools (see our website at http://www.nottingham.ac.uk/estate/environment/)

Section 4 – Appendices

4.A - Appendix A - Electricity Data

Electricity Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Main Campus			kWh	kWh	kWh	£	£	£
University Park	1000		44,330,935	43,179,653	3%	2,519,398	1,724,226	46%
Lenton Lodge	2251		27,293	38,339	-29%	1,425	1,704	-16%
Lenton Eaves Cottage No.2	2243		17,595	24,351	-28%	1,122	1,195	-6%
Redcourt Lodge	2222		804	1,129	-29%	125	178	-30%
Lenton Eaves Cottage No.1	2243		3,855 44,380,482	1,630	137%	266	71	275%
Total of 5 accounts	Totals		44,380,482	43,245,102	3%	2,522,336	1,727,374	46%
Electricity Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Sutton Bonington			kWh	kWh	kWh	£	£	£
Sutton Bonington Campus	6800	S40	10,187,245	9,773,749	4%	597,429	388,952	54%
Eviton House (68 College Road)	5891	_	100,000	209,493	-52%	7,000	7,089	-1%
New Dairy		##	98,399	66,913	47%	4,091	2,630	56%
Animal Research Unit (MLC)	5433	##	25,640	27,501	-7%	1,043	773	35%
St.Michael's House (Flats 1-5)	6841	N0	18,107	26,362	-31%	844	1,042	-19%
St.Michael's Flats Nos 6&7	6842	N0	10,967	4,887	124%	561	340	65%
Field 25	5671		0	20,000	-100%	500	1,000	-50%
45 College Road	6815		8,959	1,121	699%	486	173	181%
Manor Farm - Pump House Kingsto		_	8,145	14,462	-44%	446	765	-42%
Manor Farm - Soar Irrig. Pump	6910		3,864	0		394	133	196%
New Dairy		##	5,691	3,766	51%	350	237	48%
40 College Road	6811		5,461	6,974	-22%	302	412	-27%
Manor Farm - NU Press 2	6910		3,044	0	- 050/	246	0	- 000/
24 College Road	6805		3,497	4,663	-25%	240	332	-28%
50 College Road St.Michael's Close (Flats 10-15)	6819 6840	-	3,288 3,077	4,559 5,753	-28% -47%	235 226	329 384	-29% -41%
Manor Farm - NU Press 1	6910		1,878	0,753	-47%	159	0	-4176
Bunny Farm	6860		-4,153	11,028	-138%	114	612	-81%
44 College Road	6814		-212	5,128	-104%	80	354	-77%
St.Michael's Flats Nos 8&9	6843		-8,336	28,512	-129%	-273	1,305	-121%
Total of 18 accounts	Totals		10,474,561	10,214,871	3%	£614,473	£406,862	51%
				-, ,-			,,,,,,	
Electricity Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Jubilee Campus			kWh	kWh	kWh	£	£	£
Jubilee Campus Jubilee Campus	7000		kWh 3,944,260	kWh 4,245,536	kWh -7%	£ 236,234	£ 167,964	£ 41%
Jubilee Campus Jubilee Campus Newark & Southwell Halls	7000	S4(kWh 3,944,260 776,420	kWh 4,245,536 780,472	kWh -7% -1%	£ 236,234 50,152	£ 167,964 33,377	£ 41% 50%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre	7000 7301	S4(kWh 3,944,260 776,420 168,616	kWh 4,245,536 780,472 34,611	kWh -7% -1% 387%	£ 236,234 50,152 13,008	£ 167,964 33,377 2,196	£ 41% 50% 492%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House	7000 7301 6701	S40 S40 ##	kWh 3,944,260 776,420 168,616 22,673	kWh 4,245,536 780,472 34,611 30,053	kWh -7% -1% 387% -25%	£ 236,234 50,152 13,008 1,063	£ 167,964 33,377 2,196 1,525	£ 41% 50% 492% -30%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre	7000 7301	S40 S40 ##	kWh 3,944,260 776,420 168,616	kWh 4,245,536 780,472 34,611	kWh -7% -1% 387%	£ 236,234 50,152 13,008	£ 167,964 33,377 2,196	£ 41% 50% 492%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House	7000 7301 6701	S40 S40 ##	kWh 3,944,260 776,420 168,616 22,673	kWh 4,245,536 780,472 34,611 30,053	kWh -7% -1% 387% -25%	£ 236,234 50,152 13,008 1,063	£ 167,964 33,377 2,196 1,525	£ 41% 50% 492% -30%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts	7000 7301 6701	S40 S40 ##	kWh 3,944,260 776,420 168,616 22,673	kWh 4,245,536 780,472 34,611 30,053 5,090,672	kWh -7% -1% 387% -25% -4%	£ 236,234 50,152 13,008 1,063 £300,457	£ 167,964 33,377 2,196 1,525 £205,062	£ 41% 50% 492% -30% 47%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House	7000 7301 6701	S40 S40 ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969	kWh 4,245,536 780,472 34,611 30,053	kWh -7% -1% 387% -25%	£ 236,234 50,152 13,008 1,063	£ 167,964 33,377 2,196 1,525	£ 41% 50% 492% -30%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices	7000 7301 6701	S4(S4(##	kWh 3,944,260 776,420 168,616 22,673 4,911,969	kWh 4,245,536 780,472 34,611 30,053 5,090,672	kWh -7% -11% 387% -25% -4%	£ 236,234 50,152 13,008 1,063 £300,457	£ 167,964 33,377 2,196 1,525 £205,062	£ 41% 50% 492% -30% 47%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus	7000 7301 6701 Totals	\$40 \$40 ## \$40 \$40	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh	kWh -7% -1% 387% -25% -4% % change kWh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £	£ 41% 50% 492% -30% 47% % change £
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others	7000 7301 6701 Totals	S40 S40 ## S40 E33	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000	kWh -7% -1% 387% -25% -4% % change kWh 173%	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000	£ 41% 50% 492% -30% 47% % change £ 187%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street	7000 7301 6701 Totals 6901 3325 3561 6101	S40 ## S40 E33 S40 ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000	kWh -7% -1% 387% -25% -4% % change kWh 173% -3%	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900	£ 41% 50% 492% -30% 47% % change £ 187% 49%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings	7000 7301 6701 Totals 6901 3325 3561 6101 6885	S40 ## S40 E3: S40 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505	**Wh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883	S40 ## \$40 E33 S40 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305	**Mh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122	S40 ## \$40 E33 S40 ## ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049	*** kWh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 43,287 3,543 1,409 1,390 600	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 1% 134%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884	S4(## S4(E3; S4(## ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344	**Mh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257	£ 41% 50% 492% -30% 47% % change £ 187% 26% -11% 8% 134% 8%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102	S40 ## S40 E33 S40 ## ## ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148	**Mh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 134% 8% -23%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900	S4(## S4(E3; S4(## ## ## ## NO	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485	*** kWh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 1% 134% 8% -23% -28%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311	S4(## S4(E3; S4(## ## ## NO ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207	*** kWh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 134% 88% -23% -28% -49%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6122 6884 6102 6900 6311 6123	S40 ## S40 E33 S40 ## ## ## N00 ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565	*** kWh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 134% 134% -23% -28% -49% 99%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334	**Mh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 134% 134% -23% -28% -49% 99% -18%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6122 6884 6102 6900 6311 6123	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844	**Wh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572 976	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -111% 8% 134% 8% -23% -28% -49% 99% -18% -97%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334	**Mh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 134% 134% -23% -28% -49% 99% -18%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844	**Wh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572 976	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -111% 8% 134% 8% -23% -28% -49% 99% -18% -97%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844	**Mh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572 976	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -111% 8% 134% 8% -23% -28% -49% 99% -18% -97%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House Total of 14 accounts	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70 4,134,430	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844 3,020,440	**Wh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25 £286,388	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 572 976 £158,094	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -111% 8% 134% 8% -23% -28% -49% 99% -18% -97% 81%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Unit 6, William Lee Buildings B Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House Total of 14 accounts Electricity Invoices Medical School Medical School	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S40 S40 E33 S40 ## ## ## N00 ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70 4,134,430 2005/6 kWh 7,920,000	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844 3,020,440 2004/5 kWh 7,650,000	*** kWh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25 £286,388	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572 976 £158,094 2004/5 £ 318,000	£ 41% 50% 492% -30% 47% % change £ 187% 49% -26% -11% 8% -23% -28% -49% 99% -18% -97% 81% % change £
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Grove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House Total of 14 accounts Electricity Invoices Medical School	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6122 6900 6311 6123 6121 6321	S4(## S4(## ## ## ## NO ## ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70 4,134,430 2005/6 kWh 7,920,000 2,284,000	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844 3,020,440 2004/5 kWh 7,650,000 2,250,000	**Wh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25 £286,388 2005/6 £ 365,000 98,000	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572 976 £158,094 2004/5 £ 318,000 83,000	£ 41% 50% 492% -30% 47% % change £ 187% 49% 26% -11% 8% 134% -23% -28% -49% 99% -18% 81% % change £ 15% 818%
Jubilee Campus Jubilee Campus Newark & Southwell Halls Jubilee Sports Centre Triumph House Total of 4 accounts Electricity Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Derby Medical School 14-22 Shakespeare Street Unit 5, William Lee Buildings Unit 6, William Lee Buildings Crove Farm - Changing Rooms Unit 8, William Lee Buildings 8 Peachey Street Clumber Lodge Sports Ground - Highfields Grove Farm Grove Farm - Old Farmhouse Boat House Total of 14 accounts Electricity Invoices Medical School Medical School	7000 7301 6701 Totals 6901 3325 3561 6101 6885 6883 6122 6884 6102 6900 6311 6123 6121	S4(## S4(## ## ## ## NO ## ## ##	kWh 3,944,260 776,420 168,616 22,673 4,911,969 2005/6 kWh 2,046,139 1,044,970 821,186 63,605 28,608 26,210 22,900 25,226 15,809 19,706 7,967 9,072 3,102 -70 4,134,430 2005/6 kWh 7,920,000	kWh 4,245,536 780,472 34,611 30,053 5,090,672 2004/5 kWh 750,000 1,075,000 888,124 82,530 31,505 30,305 13,049 26,344 23,148 26,485 37,207 4,565 10,334 21,844 3,020,440 2004/5 kWh 7,650,000	**Wh	£ 236,234 50,152 13,008 1,063 £300,457 2005/6 £ 143,525 76,000 54,351 3,144 1,522 1,406 1,405 1,363 883 862 749 686 467 25 £286,388	£ 167,964 33,377 2,196 1,525 £205,062 2004/5 £ 50,000 50,900 43,287 3,543 1,409 1,390 600 1,257 1,143 1,191 1,481 345 572 976 £158,094 2004/5 £ 318,000	£ 41% 50% 492% -30% 47% % change £ 187% 49% -26% -11% 8% -23% -28% -49% 99% -18% -97% 81% % change £

4.B - Appendix B - Fossil Fuel Data

Rutland Hall & Sherwood Hall 2191 ## 3,193,447 3,355,938 -5% 590,772 533,822 168 Hugh Stewart Hall 2171 ## 2,250,540 2,689,050 -13% 553,897 527,172 99 Derty Hall 2171 ## 2,250,540 2,689,050 -13% 553,897 527,172 99 Derty Hall 2161 ## 2,277,816 2,351,562 -13% 553,897 527,172 99 Derty Hall 2151 ## 1,853,722 1,973,492 -6% 543,787 519,870 120 Lincoln Hall 2151 ## 1,853,722 1,973,492 -6% 543,787 519,870 120 Lincoln Hall 2161 ## 1,649,814 1,853,722 1,973,492 -6% 533,736 521,7152 120 Nightingale Hall 2161 ## 1,649,814 1,850,473 1,551,047 2,66 537,139 515,625 120 Nightingale Hall 2161 ## 1,869,473 1,551,047 2,66 537,139 515,625 1,538 105 1,555,488 1,555,388 1,5	Gas Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Rutland Hall & Sherwood Hall	Main Campus			kWh	kWh		£	£	
Hugh Stewart Hall	Central Heating Station	1000	##	29,424,276	36,830,608	-20%	£683,274		115%
Cripps Hall	Rutland Hall & Sherwood Hall	2191	##	3,193,447	3,355,938	-5%	£90,772	£33,822	168%
Derby Hall	Hugh Stewart Hall	2181	##	2,489,463	2,413,024	3%	£57,733	£24,376	137%
Bio-Mielecular Sciences		2171	##	2,350,540	2,689,005	-13%	£53,897	£27,122	99%
Lincoln Hall	Derby Hall		_	2,077,816	2,351,562	-12%			106%
Lenton & Wortley Hall									120%
Nightingale Hall			-		1,538,214				147%
Willoughby Hall	·		_					· · · · · · · · · · · · · · · · · · ·	120%
Jasse Boot Conference Centre	0 0								138%
Florence Boot Hall	Ü ,		_						105%
Tower, MRI etc			_						140%
Cavendish Hall			_						124%
Swimming Pool	·		_	, ,			,		104%
Ancaster Hall 2101									
Boots Science Building 1581 ## 958,352 1,156,775 -17% £21,965 £11,933 81 158			_						
Institute of Hearing Research 1401			_						
Architecture 1433	ŭ		_					· · · · · · · · · · · · · · · · · · ·	83%
Sports Centre, Main Campus 1221 ## 584,477 602,110 -3% £13,688 £6,012 127 17ent, Law & SS etc 1101 ## 555,850 660,366 -16% £13,192 £6,540 102 Staff Club Lenton Mount 1181 ## 555,850 660,366 -16% £13,192 £6,540 102 Staff Club Lenton Mount 1181 ## 555,850 660,366 -16% £13,192 £6,540 102 Staff Club Lenton Mount 1181 ## 555,850 660,366 -16% £13,192 £6,540 102 Staff Club Lenton Mount 1181 ## 447,240 489,621 -9% £10,136 £5,037 101 1			_						
Trent, Law & SS etc			\vdash				,	,-	
Staff Club Lenton Mount	•							· · · · · · · · · · · · · · · · · · ·	102%
Arts Centre & School of Music									
D.H. Lawrence Lakeside Pavilion									
Wolfson Building									
Lenton Hurst				,	•				
Cripps Hall Kitchen	ŭ		_		,				
Redcourt			_						
Cripps Health Centre	• • • • • • • • • • • • • • • • • • • •		_					· · · · · · · · · · · · · · · · · · ·	
Portland Building Extension			-						
MMMEM (Production Engineering) 1371 ## 209,559 157,837 33% £4,907 £1,582 210 Sports Centre, Fitness Centre 1221 ## 235,368 101,122 133% £4,627 £1,443 221 Lenton Close Annexe (Cripps Hall) 2175 ## 182,293 185,777 -2% £4,150 £1,879 121 Sustainable Research Building 1436 ## 185,569 109,177 70% £4,016 £1,078 273 Lenton Grove (History) 1211 ## 170,309 203,982 -17% £3,998 £1,870 112 Paton House (Built Env.) 1441 ## 151,624 170,590 -11% £3,557 £1,699 109 109 Lincoln Hall Kitchen 2151 ## 126,590 89,591 41% £2,737 £927 195 Cavendish Hall Extension 2115 ## 122,184 117,890 4% £2,622 £1,211 117 Cavendish Hall Extension 2115 ## 170,382 108,746 -1% £2,300 £1,143 101 Rutland Hall Kitchen 2191 ## 97,179 84,434 15% £2,081 £2,737 £927 152 Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Playgroup 1411 ## 88,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 Crchards 1161 ## 68,749 73,266 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 42,836 54,628 -22% £1,145 £510 125 Elenton Fires Lodge West 2241 ## 42,836 54,628 -22% £1,145 £510 125 Elenton Fires Lodge West 2241 ## 42,836 54,628 -22% £1,135 £90 125 Elenton Fires Lodge West 2241 ## 42,836 54,628 -22% £1,135 £606 £430 44 Paton Cottage ### 42,836 54,628 -22% £1,135 £606 £430 44 Paton Cottage ### ## 42,836 54,628 -22% £1,032 £543 90 Paton Cottage ### ## 42,836 43,595 -2% £606 £430 44 54 54 54 54 54 54	<u> </u>		_						
Sports Centre, Fitness Centre 1221 ## 235,368 101,122 133% £4,627 £1,443 221	ŭ		\vdash						
New Studio (Built Environment)			_						221%
Lenton Close Annexe (Cripps Hall) 2175	· · · · · · · · · · · · · · · · · · ·		_				,		39%
Sustainable Research Building	,		_						121%
Lenton Grove (History)	· · · · · /		-	· ·					273%
Sherwood Hall Kitchen 2200 ## 179,121 183,918 -3% £3,958 £1,870 112	Ŭ .		_				,		100%
Paton House (Built Env.)	` ,,		_						112%
Lincoln Hall Kitchen 2151 ## 151,775 162,473 -7% £3,405 £1,653 106 Lenton & Wortley Hall Kitchen 2141 ## 126,590 89,591 41% £2,737 £927 195 Cavendish Hall Kitchen 2111 ## 122,184 117,890 4% £2,622 £1,211 117 Cavendish Hall Extension 2115 ## 107,982 108,746 -1% £2,300 £1,143 101 Rutland Hall Extension 2195 ## 100,345 109,021 -8% £2,172 £1,151 89 Rutland Hall Kitchen 2191 ## 97,179 84,434 15% £2,081 £827 152 Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House Sherwood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -2% £1,032 £543 90 Warden's House Florence Boot Hall 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage H## ## 28,614 24,455 17% £658 £247 166 \$140 For Wortley Hall Close (Eco-House) 2296 ## 19,856 18,766 6% £283 £444 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72				,	,				109%
Lenton & Wortley Hall Kitchen 2141	,		\vdash						106%
Cavendish Hall Kitchen 2111 ## 122,184 117,890 4% £2,622 £1,211 117 Cavendish Hall Extension 2115 ## 107,982 108,746 -1% £2,300 £1,143 101 Rutland Hall Extension 2195 ## 100,345 109,021 -8% £2,172 £1,151 89 Rutland Hall Kitchen 2191 ## 97,179 84,434 15% £2,081 £827 152 Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td>195%</td></t<>								· · · · · · · · · · · · · · · · · · ·	195%
Cavendish Hall Extension 2115 ## 107,982 108,746 -1% £2,300 £1,143 101 Rutland Hall Extension 2195 ## 100,345 109,021 -8% £2,172 £1,151 89 Rutland Hall Kitchen 2191 ## 97,179 84,434 15% £2,081 £827 152 Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House Sherwood Hall 2207 ## </td <td>,</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>117%</td>	,		-						117%
Rutland Hall Extension 2195 ## 100,345 109,021 -8% £2,172 £1,151 89 Rutland Hall Kitchen 2191 ## 97,179 84,434 15% £2,081 £827 152 Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4%							,		101%
Rutland Hall Kitchen 2191 ## 97,179 84,434 15% £2,081 £827 152 Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwood Hall 2207 ## 53,476 51,772 3%	Rutland Hall Extension								89%
Playgroup 1411 ## 87,769 73,004 20% £2,041 £723 182 Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% <t< td=""><td>Rutland Hall Kitchen</td><td>2191</td><td>##</td><td></td><td></td><td>15%</td><td>£2,081</td><td></td><td>152%</td></t<>	Rutland Hall Kitchen	2191	##			15%	£2,081		152%
Lenton Eaves (UNSSC) - Gas 1461 ## 90,000 0 - £1,800 £0 - China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwoood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628							,		182%
China House (Lenton Fields) 2163 ## 97,000 90,000 8% £1,760 £880 100 Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwoood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483			_						
Orchards 1161 ## 68,749 73,286 -6% £1,650 £719 129 Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwoood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196			_			8%			100%
Portland Building Bar 1111 ## 68,286 67,960 0% £1,398 £698 100 J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwoood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841	, ,				73,286				129%
J.Boot C.C. Annexe (Cottage) 1482 ## 60,408 61,407 -2% £1,384 £618 124 Former Warden's House, Cavendis 2113 ## 54,647 56,663 -4% £1,233 £579 113 Warden's House Sherwoood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hall 2133 ## 34,48	Portland Building Bar			68,286	67,960	0%		£698	100%
Warden's House Sherwood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hall 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage ### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 4	J.Boot C.C. Annexe (Cottage)	1482	##		61,407	-2%		£618	124%
Warden's House Sherwood Hall 2207 ## 53,476 51,772 3% £1,227 £522 135 Lenton Lodge 2251 ## 47,979 51,948 -8% £1,145 £510 125 Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hall 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage ### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 4				54,647	56,663	-4%			113%
Warden's House Rutland Hall 2194 ## 42,836 54,628 -22% £1,032 £543 90 Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hal 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage #### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777	Warden's House Sherwoood Hall	2207	##	53,476	51,772	3%	£1,227	£522	135%
Warden's House Ancaster Hall 2105 ## 38,529 37,483 3% £874 £389 125 Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hal 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage #### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72				47,979	51,948	-8%			125%
Lenton Firs Lodge West 2241 ## 35,911 28,196 27% £837 £282 197 1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hall 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage #### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72	Warden's House Rutland Hall	2194	##	42,836	,	-22%			90%
1 Nightingale Close (Nigh.Hall Ward 2321 ## 36,841 40,880 -10% £831 £410 103 Warden's House Florence Boot Hall 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage #### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72				38,529		3%			125%
Warden's House Florence Boot Hall 2133 ## 34,483 31,838 8% £766 £327 134 Paton Cottage #### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72					,	27%	£837		197%
Paton Cottage #### ## 28,614 24,455 17% £658 £247 166 Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72					40,880	-10%	£831	£410	103%
Squash Courts (Sch of Built Env.) 1223 ## 42,566 43,595 -2% £606 £430 41 5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72		2133	##	34,483	31,838	8%	£766	£327	134%
5A Wortley Hall Close (Eco-House) 2296 ## 19,856 18,786 6% £283 £44 543 Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72	Paton Cottage								166%
Sherwood Hall Laundry 2200 ## 7,777 8,758 -11% £153 £89 72									41%
									543%
Total of 62 accounts									72%
	Total of 62 accounts	Totals		64,707,721	73,023,587	-11%	1,507,478	685,712	120%

4.B - Appendix B - Fossil Fuel Data continued

Gas Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Sutton Bonington			kWh	kWh	kWh	£	£	£
Sutton Bonington Campus	6800	##	9,214,579	10,015,554	-8%	£208,663	£101,981	105%
Plant Sciences	5711	_	2,444,601	2,700,473	-9%	£58,949	£27,568	114%
Animal Houses Boilerhouse	6800		2,588,200	2,585,629	0%	£56,881	£26,630	114%
The Elms (Environmental Science)	5161	$\overline{}$	185,342	154,862	20%	£4,418	£1,558	184%
Sports Pavilion Sutton Bonington	5621	_	93,710	104,625	-10%	£2,212	£1,040	113%
Main Building (Sutton Bonington)	5011	-	93,484	95,221	-2%	£2,173	£967	125%
Hathern House, Bon. Hall (4) Sports Hall Sutton Bonington	5831 5221		95,295	95,062	0%	£2,094	£940	123%
Eviton House (68 College Road)	5891	_	84,964 74,117	95,053 140,026	-11% -47%	£2,050 £1,726	£940 £1,405	118% 23%
Food Sciences Building	5701		59,791	59,505	0%	£1,720	£1,403 £631	94%
St.Michael's Flats Nos 6&7	6842	-	50,422	43,430	16%	£1,227	£439	175%
Bonington Hall Laundry & Gym	5881	-	54,114	51,344	5%	£1,192	£525	127%
Food Hall	5081	##	47,563	52,122	-9%	£1,071	£553	94%
Bonington Hall Warden's House	5842	-	38,893	41,012	-5%	£903	£409	121%
Portakabins (T.C.R. unit)	5301	_	57,993	89,501	-35%	£829	£1,100	-25%
St.Michael's House Flat 1	6841		24,477	20,867	17%	£561	£210	167%
St.Michael's House Flat 4	6841		21,763	17,991	21%	£501	£182	175%
24 College Road	6805	##	20,552	21,687	-5%	£490	£213	130%
St.Michael's Flats Nos 8&9	6843	##	32,771	23,292	41%	£470	£235	100%
52 College Road	6820	-	19,591	17,002	15%	£456	£168	171%
St.Michael's House Flat 5	6841	\vdash	17,016	5,350	218%	£414	£54	667%
St.Michael's House Flat 2	6841	##	13,500	15,361	-12%	£318	£155	105%
St.Michael's House Flat 3	6841		9,663	18,497	-48%	£233	£187	25%
North Laboratory	5091		947	27,311	-97%	£21	£270	-92%
Total of 24 accounts	Totals		15,343,348	16,490,777	-7%	349,059	168,360	107%
Gas Invoices			2005/6	2004/5	% change	2005/6	2004/5	0/ change
Jubilee Campus			kWh	kWh	% change kWh	2005/6 £	2004/5 £	% change £
Newark Hall	7130	##	1,334,531	1,184,313	13%	£30,390	£12,025	153%
Southwell Hall	7120	-	703,900	596,352	18%	£16,092	£6,005	168%
Computer Sciences (DCS) & The A	7040		625,451	868,098	-28%	£14,746	£8,805	67%
Melton Hall	7110	-	542,810	633,775	-14%	£12,299	£6,483	90%
The Exchange (CTF)	7030	-	456,864	470,458	-3%	£10,939	£4,673	134%
Dearing Building (FOE)	7050		389,591	417,149	-7%	£9,190	£4,178	120%
Computer Sciences (DCS) & The A	7040	##	344,324	381,146	-10%	£8,116	£3,842	111%
New Business School	7080	##	294,807	472,422	-38%	£7,021	£6,364	10%
Business School (SMF)	7020	##	264,721	281,194	-6%	£6,349	£2,813	126%
Jubilee Sports Centre	7301		70,000	0	-	£1,750	£0	-
Total of 10 items	ı		5,026,999	5,304,907	-5%	116,892	55,188	112%
			2005/2	2004/5	~ .	2005/2		~ .
Gas Invoices			2005/6				2004/5	% change
Others				2004/5	% change	2005/6		% change
			kWh	kWh	kWh	£	£	£
King's Meadow Campus	6901	##	kWh 2,825,631	kWh 3,382,946	kWh -16%	£ £64,308	£ £40,940	£ 57%
Clinical Sciences (City Hospital)	3325		kWh 2,825,631 1,517,401	kWh 3,382,946 1,786,980	kWh -16% -15%	£ £64,308 £35,000	£ £40,940 £18,100	£ 57% 93%
Clinical Sciences (City Hospital) Derby Medical School	3325 3561	##	kWh 2,825,631 1,517,401 929,196	kWh 3,382,946 1,786,980 1,105,112	kWh -16% -15% -16%	£ £64,308 £35,000 £22,415	£ £40,940 £18,100 £11,072	£ 57% 93% 102%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL	3325 3561 6122	##	kWh 2,825,631 1,517,401 929,196 225,884	kWh 3,382,946 1,786,980 1,105,112 277,976	kWh -16% -15% -16% -19%	£ £64,308 £35,000 £22,415 £7,945	£ £40,940 £18,100 £11,072 £7,328	£ 57% 93% 102% 8%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge	3325 3561 6122 6900	##	kWh 2,825,631 1,517,401 929,196 225,884 356,864	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544	kWh -16% -15% -16% -19% 63%	£ £64,308 £35,000 £22,415 £7,945 £6,700	£ £40,940 £18,100 £11,072 £7,328 £2,207	£ 57% 93% 102% 8% 204%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street	3325 3561 6122 6900 6101	##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061	kWh -16% -15% -16% -19% 63% -10%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635	57% 93% 102% 8% 204% 119%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street	3325 3561 6122 6900 6101 6102	## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271	kWh -16% -15% -16% -19% -33% -10% -9%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003	57% 93% 102% 8% 204% 119%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields	3325 3561 6122 6900 6101 6102 6311	## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986	kWh -16% -15% -16% -19% -63% -10% -9% -5%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062	57% 93% 102% 8% 204% 119% 117%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings	3325 3561 6122 6900 6101 6102 6311 6885	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296	kWh -16% -15% -16% -19% 63% -10% -9% 5% 23%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072	57% 93% 102% 8% 204% 119% 117% -32%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields	3325 3561 6122 6900 6101 6102 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986	kWh -16% -15% -16% -19% -63% -10% -9% -5%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062	£ 57% 93% 102% 8% 204% 1119% 1117% -32% 25% -15%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields	3325 3561 6122 6900 6101 6102 6311 6885 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223	kWh -16% -15% -16% -19% -63% -10% -9% -5% -23% -66%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880	57% 93% 102% 8% 204% 119% 117%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings	3325 3561 6122 6900 6101 6102 6311 6885 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663	kWh -16% -15% -16% -19% 63% -10% -9% 5% 23% -66% 83%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502	£ 57% 93% 102% 8% 204% 1119% 1117% -32% 25% -15% 33%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields	3325 3561 6122 6900 6101 6102 6311 6885 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663 159	kWh -16% -15% -16% -19% 63% -10% -5% 23% -66% 83% -100%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502	£ 57% 93% 102% 8% 204% 1119% -32% 25% -15% 33% -100%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OlL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Total of 12 accounts	3325 3561 6122 6900 6101 6102 6311 6885 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081 0 6,409,793	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663 159 7,383,217	kWh -16% -15% -16% -19% -63% -10% -9% -5% -23% -66% -83% -100% -13%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668 £0 148,485	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502 £2 87,803	£ 57% 93% 102% 8% 204% 119% 117% -32% 25% -15% 33% -100% 69%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OlL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Total of 12 accounts	3325 3561 6122 6900 6101 6102 6311 6885 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081 0 6,409,793	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663 159 7,383,217	kWh -16% -15% -16% -19% -63% -10% -9% -5% -23% -66% -83% -100% -13%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668 £0 148,485	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502 £2 87,803	£ 57% 93% 102% 8% 204% 119% 117% -32% 25% -155% 33% -100% 69%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Total of 12 accounts Steam Used Medical School	3325 3561 6122 6900 6101 6102 6311 6885 6311	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081 0 6,409,793	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663 159 7,383,217	kWh -16% -15% -16% -19% -63% -10% -9% -5% -23% -66% -3% -100% -13% -13%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668 £0 148,485	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502 £2 87,803	£ 57% 93% 102% 8% 204% 119% 117% -32% 25% -15% 33% -100% 69%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Total of 12 accounts Steam Used Medical School Medical School	3325 3561 6122 6900 6101 6102 6311 6885 6311 (Ste	## ## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081 0 6,409,793 2005/6 kWh 21,418,475	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663 159 7,383,217 2004/5 kWh 19,750,000	kWh -16% -15% -16% -19% -63% -10% -9% -5% -23% -66% -33% -100% -13% -13% % change kWh -8%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668 £0 148,485 2005/6 £ £685,857	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502 £2 87,803	£ 57% 93% 102% 8% 204% 119% -32% -15% -35% -100% 69% % change £ 47%
Clinical Sciences (City Hospital) Derby Medical School Grove Farm - OIL Clumber Lodge 14-22 Shakespeare Street 8 Peachey Street Sports Ground - Highfields Unit 5, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Unit 6, William Lee Buildings Sports Ground - Highfields Total of 12 accounts Steam Used Medical School	3325 3561 6122 6900 6101 6102 6311 6885 6311 (Ste	## ## ## ## ## ##	kWh 2,825,631 1,517,401 929,196 225,884 356,864 239,154 90,655 84,196 65,697 30,034 45,081 0 6,409,793	kWh 3,382,946 1,786,980 1,105,112 277,976 218,544 267,061 99,271 79,986 53,296 87,223 24,663 159 7,383,217	kWh -16% -15% -16% -19% -63% -10% -9% -5% -23% -66% -3% -100% -13% -13%	£ £64,308 £35,000 £22,415 £7,945 £6,700 £5,782 £2,174 £1,412 £1,336 £745 £668 £0 148,485	£ £40,940 £18,100 £11,072 £7,328 £2,207 £2,635 £1,003 £2,062 £1,072 £880 £502 £2 87,803	\$ 57% 93% 102% 8% 204% 119% 117% -32% 25% -155% 333% -100% 69% % change £

4.C - Appendix C - Water Data

Water Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Main Campus			cubic m.	cubic m.	cubic m.	£	£	£
Water and SWD	1000	##	0	0	-	364,652	343,430	6%
TE and Sewerage	1000	##	0	0	-	302,892	287,311	5%
Main Supply, S.Ent	1000	##	512,491	561,659	-9%	0	0	-
Nightingale Hall	2161	##	10,540	10,900	-3%	0	0	-
Science Area	1000	##	8,316	14,890	-44%	0	0	-
Jesse Boot Conference Centre	1481	##	6,862	6,782	1%	0	0	-
Jesse Boot Conference Centre	1481	##	3,257	3,872	-16%	0	0	-
Lenton Hurst	2411	##	1,070	1,200	-11%	0	0	-
Lenton Eaves (UNSSC)	1461	##	905	740	22%	0	0	-
Architecture	1433	##	726	1,665	-56%	0	0	-
Lenton Grove (History)	1211	##	506	1,839	-72%	0	0	-
Redcourt	2221	##	437	399	10%	0	0	-
Paton House (Built Env.)	1441	##	421	3,456	-88%	0	0	-
Beeston Lane Gardeners' Compour	1511	##	360	309	17%	0	0	-
Lenton Lodge	2251	##	314	452	-31%	0	0	-
Playgroup	1411	-	239	238	0%	0	0	-
5A Wortley Hall Close (Eco-House)	2296		53	43	23%	0	0	-
Total of 17 accounts	Total	S	546,497	608,444	-10%	667,544	630,741	6%
Water Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Sutton Bonington			cubic m.	cubic m.	cubic m.	2003/6 £	£	% change
S B Campus Water DD	6800	##	0	0	- Cubic III.	105,000	77,300	36%
SB Trade Effluent & Sewerage	6800	-	0	0	_	77,000	57,091	35%
St.Michael's Close	6841	##	1,997	10132	-80%	3,445	15,207	-77%
Bunny Farm	6860	##	555	600	-8%	589	550	7%
Trough, Kegworth	6910	##	0	000	-0 /6	18	17	6%
Landcroft Lane meter	6800	##	145,500	112,000	30%	0	0	0 /6
College Road meter	6800	##	14,000	26,000	-46%	0	0	_
Total of 7 accounts	0000	##	162,052	148,732	9%	186,052	150.165	24%
Total of Faccounts			.02,002	110,102	0,0	100,002	100,100	,0
Water Invoices			2005/6	2004/5	% change	2005/6	2004/5	% change
Water Invoices New Campus			2005/6 cubic m.	2004/5 cubic m.	% change cubic m.	2005/6 £	£	% change £
	7000	023		cubic m.	cubic m.	£ 66,000	£ 81,901	£ -19%
New Campus	7000 7130	-	cubic m.	cubic m.	U	£	£	£
New Campus Jubilee Campus Payments Newark Hall Southwell Hall		##	cubic m.	cubic m.	cubic m.	£ 66,000	£ 81,901	£ -19%
New Campus Jubilee Campus Payments Newark Hall	7130	##	cubic m. 0 14,658	cubic m. 0 14,746	cubic m. - -1%	£ 66,000 27,010	£ 81,901 23,577	£ -19% 15%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House	7130 7120	## ##	cubic m. 0 14,658 9,333	cubic m. 0 14,746 7,672	cubic m. - -1% 22%	£ 66,000 27,010 18,811	£ 81,901 23,577 13,465	£ -19% 15% 40% 324% 35%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion	7130 7120 6701	## ## ## ##	cubic m. 0 14,658 9,333 416	cubic m. 0 14,746 7,672 24	cubic m1% 22% 1633% - 314%	£ 66,000 27,010 18,811 912	£ 81,901 23,577 13,465 215	£ -19% 15% 40% 324%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House	7130 7120 6701 6701	## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098	cubic m. 0 14,746 7,672 24 0 7 64,420	cubic m1% 22% 1633% - 314% -19%	£ 66,000 27,010 18,811 912 198 72 0	£ 81,901 23,577 13,465 215 147 32 0	£ -19% 15% 40% 324% 35% 125%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion	7130 7120 6701 6701 7201	## ## ## ##	cubic m. 0 14,658 9,333 416 0 29	cubic m. 0 14,746 7,672 24 0 7	cubic m1% 22% 1633% - 314%	£ 66,000 27,010 18,811 912 198 72	£ 81,901 23,577 13,465 215 147	£ -19% 15% 40% 324% 35%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items	7130 7120 6701 6701 7201	## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869	cubic m1% 22% 1633% - 314% -19% -12%	£ 66,000 27,010 18,811 912 198 72 0 113,003	£ 81,901 23,577 13,465 215 147 32 0 119,337	£ -19% 15% 40% 324% 35% 125%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices	7130 7120 6701 6701 7201	## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534	0 14,746 7,672 24 0 7 64,420 86,869	cubic m1% -22% 1633% - 314% -19% -12% % change	£ 66,000 27,010 18,811 912 198 72 0 113,003	£ 81,901 23,577 13,465 215 147 32 0 119,337	£ -19% 15% 40% 324% 35% 125%5% % change
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others	7130 7120 6701 6701 7201 7000	## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m.	0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m.	cubic m1% -22% 1633% - 314% -19% -12% % change cubic m.	£ 66,000 27,010 18,811 912 198 72 0 113,003	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £	£ -19% 15% 40% 324% 35% 125% -5% % change
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus	7130 7120 6701 6701 7201 7000	## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814	0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000	cubic m1% -22% -1633%314% -19% -12% % change cubic m27%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000	£ -19% 15% 40% 324% 35% 125% -5% % change £
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital)	7130 7120 6701 6701 7201 7000 6901 3325	## ## ## ## ## W3	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500	£ -19% 15% 40% 324% 35% 125% -5% % change £ 95% -28%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields	7130 7120 6701 6701 7201 7000 6901 3325 6311	## ## ## ## W3 ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845	cubic m1% -22% -1633%314% -19% -12% % change cubic m27%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277	£ -19% 15% 40% 324% 35% 125%5% % change £ 95% -28% 74%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms	7130 7120 6701 6701 7201 7000 6901 3325 6311 6122	## ## ## ## W3 ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173	£ -19% 15% 40% 324% 35% 125% -5% % change £ 95% -28% 74% 518%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street	7130 7120 6701 7201 7000 6901 3325 6311 6122 6101	## ## ## ## W3 ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%10%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962	£ -19% 15% 40% 324% 35% 125%5% % change £ 95% -28% 74% 518%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings	7130 7120 6701 7201 7000 6901 3325 6311 6122 6101 6883	## ## ## ## W3 ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63	cubic m1% -22% -1633% -314% -19% -12% % change cubic m27% -41% -51% -10% -24%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650	£ -19% 15% 40% 324% 35% 125%5% % change £ 95% -28% 74% 518% 0 3%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge	7130 7120 6701 6701 7201 7000 6901 3325 6311 6122 6101 6883 6900	## ## ## ## W3 ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51% -10% -24% -88%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783	£ -19% 15% 40% 324% 35% 125%5% % change £ 95% -28% 74% 518% 0 3% -86%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings	7130 7120 6701 7201 7000 6901 3325 6311 6122 6101 6883 6900 6885	## ## ## ## W3 ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373	cubic m1% -22% -1633% 314% -19% -12% % change cubic m27% -41% -51% -10% -24% -88% -51%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508	£ 81,901 23,577 13,465 215 147 322 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410	£ -19% 15% 40% 324% 125% 125% ** change £ 95% -28% 74% 518% 0 3% -86%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House	7130 7120 6701 7201 7000 6901 3325 6311 6122 6101 6883 6900 6885 6321	## ## ## ## ## W3 ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 633 5373 77 511	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%10% -24% -88% -51% -64%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700	£ -19% 15% 40% 324% 35% 125% ** change £ 95% -28% 74% 518% 0 3% -86% 0 -54%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street	7130 7120 6701 6701 7201 7000 6901 3325 6311 6122 6883 6900 6885 6321 6102	## ## ## ## W3 ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%10% -24% -88% -51% -64% -10%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293	£ 81,901 23,577 13,465 215 147 32 0119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241	£ -19% 15% 40% 324% 35% 125% ** change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%10% -24% -88% -51% -64%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241	£ -19% 15% 40% 324% 35% 125% **Change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22% - 0
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou Unit 8, William Lee Buildings	7130 7120 6701 6701 7201 7000 6901 3325 6311 6122 6883 6900 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97 74	cubic m1% -22% 1633%314% -19% -12% % change cubic m27% -41% -51%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293 142 51	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241 201 68	£ -19% -19% -15% -324% -35% -125% -5% % change £ -95% -28% -74% -518% -0 -36% -0 -54% -22% -0 -25%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%10% -24% -88% -51% -64% -10%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241	£ -19% 15% 40% 324% 35% 125% **Change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22% - 0
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou Unit 8, William Lee Buildings	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97 74	cubic m1% -22% -1633%314% -19% -12% % change cubic m27% -41% -51%10% -244% -88% -51% -64% -64% -65%39%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293 142 51 51,225	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241 201 68 46,965	£ -19% 15% 40% 324% 35% 125% ** change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22% - 0 -25% 9%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou Unit 8, William Lee Buildings	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26 0 22,987	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97 74 0 37,975	cubic m1% -22% 1633%314% -19% -12% % change cubic m27% -41% -51% -51% -64% -65% -65% -39% % change	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293 142 51	£ 81,901 23,577 13,465 215 147 32 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241 201 68	£ -19% -19% -15% -324% -35% -125% -5% % change £ -95% -28% -74% -518% -0 -36% -0 -54% -22% -0 -25%
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou Unit 8, William Lee Buildings Total of 12 accounts	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26 0 22,987 2005/6 cubic m.	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97 74 0 37,975 2004/5 cubic m.	cubic m1% -22% 1633%314% -19% -12% % change cubic m27% -41% -51% -24% -88% -51% -64% -10% -65% -39% % change cubic m.	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293 142 51 51,225	£ 81,901 23,577 13,465 215 147 322 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241 201 68 46,965 2004/5 £	£ -19% 15% 40% 324% 125% 125% * change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22% - 0 -25% % change
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou Unit 8, William Lee Buildings Total of 12 accounts Water Recharges Medical School Medical School	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 266 0 22,987 2005/6 cubic m. 32,318	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97 74 0 37,975 2004/5 cubic m. 32,770	cubic m1% -22% 1633%314% -19% -12% % change cubic m27% -41% -51% -51% -64% -65% -65% -39% % change	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293 142 51 51,225	£ 81,901 23,577 13,465 215 147 322 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241 201 68 46,965 2004/5 £ 47,000	£ -19% 15% 40% 324% 35% 125% ** change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22% - 0 -25% 9% ** change
New Campus Jubilee Campus Payments Newark Hall Southwell Hall Triumph House Triumph House Charnock Ave Sports Pavilion Jubilee Campus Water volume Total of 8 items Water Invoices Others King's Meadow Campus Clinical Sciences (City Hospital) Sports Ground - Highfields Grove Farm - Changing Rooms 14-22 Shakespeare Street Unit 6, William Lee Buildings Clumber Lodge Unit 5, William Lee Buildings Boat House 8 Peachey Street Unit 8, Edison Village (Synergy Hou Unit 8, William Lee Buildings Total of 12 accounts Water Recharges Medical School	7130 7120 6701 7201 7201 7201 73325 6311 6122 6101 6883 6321 6102 6890 6885 6321 6102	## ## ## ## W3 ## ## ## ## ## ##	cubic m. 0 14,658 9,333 416 0 29 52,098 76,534 2005/6 cubic m. 5,814 13,262 1,280 961 559 48 629 116 185 107 26 0 22,987 2005/6 cubic m.	cubic m. 0 14,746 7,672 24 0 7 64,420 86,869 2004/5 cubic m. 8,000 22,317 845 0 618 63 5373 77 511 97 74 0 37,975 2004/5 cubic m.	cubic m1% -22% 1633%314% -19% -12% % change cubic m27% -41% -51% -10% -24% -88% -51% -64% -10% -65% -39% % change cubic m1%	£ 66,000 27,010 18,811 912 198 72 0 113,003 2005/6 £ 27,324 17,000 2,217 1,070 983 668 648 508 321 293 142 51 51,225 2005/6 £ 53,000	£ 81,901 23,577 13,465 215 147 322 0 119,337 2004/5 £ 14,000 23,500 1,277 173 962 650 4783 410 700 241 201 68 46,965 2004/5 £	£ -19% 15% 40% 324% 35% 125% ** change £ 95% -28% 74% 518% 0 3% -86% 0 -54% 22% - 0 -25% 9% ** change

4.D - Appendix D - Major areas of work during 2005/6

- Installation of Urinal flush controls (all campuses)
- New heating controls at Lenton Hurst (University Park)
- Improved temperature control of absorption chillers at Nottingham Medical School
- New automatic lighting controls in meeting rooms and toilets (all campuses)
- Installation of capacitors in University Park Substations to reduce wasted electrical power
- Installation of inverters on fans at Maths & Physics air handling units
- Major recommissioning of BMS energy controls at North Lab, Sutton Bonington
- Use of BMS to restrict electrical wastage at fan coil units at New Business School, Jubilee Campus
- Replacement of failed heating control valves, King's Meadow Campus
- Reduction in heating and electrical consumption from awareness campaign over costs of running fume cupboards, with particular reductions in Chemistry building and Boots Science building (University Park)
- Replacement of single-glazed windows with double glazing in halls of residence