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SECTION 1: BACKGROUND

1.1 Context

This is the fifth in a series of reports on the energy performance of buildings occupied by the Northern Ireland public sector. This work is set in the context of the Climate Change Programme undertaken by the United Kingdom and supporting policies at national and regional level for energy management by public bodies.

The strategy document "First Steps Towards Sustainability" published by the Office of the First Minister and Deputy First Minister in May 2006, seeks to secure a 25% reduction in Northern Ireland's greenhouse gas emissions by 2025 compared to 1990 levels. With regard to public bodies, the strategy calls for the Government estate to be carbon neutral by 2015.

To encourage departments in pursuit of these objectives, from 31 March 2007 a statutory duty has been placed on Northern Ireland departments and District Councils to act in the way best calculated to contribute to the achievement of sustainable development in Northern Ireland.

The work being carried out under the Public Sector Energy Campaign is an important part of the Department of Finance and Personnel's (DFP) response to these and other similar initiatives.

Specifically, this report looks at the performance of the public sector in Northern Ireland as it aims to improve energy efficiency and reduce carbon consumption across its estate in line with agreed targets.

1.2 The Northern Ireland Public Sector Estate

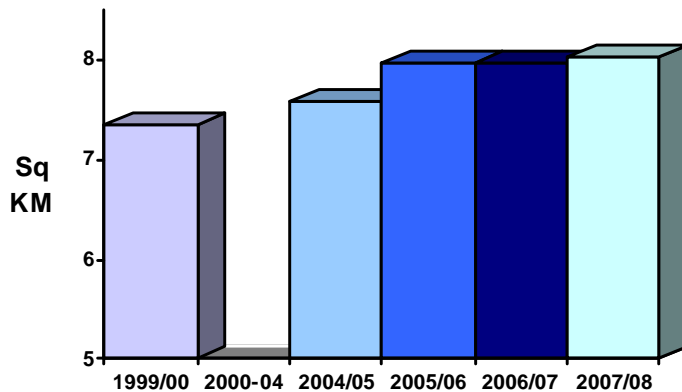
The public sector estate, to which this report refers, is defined as those buildings occupied by the eleven Northern Ireland Departments and the Northern Ireland Office (NIO), their associated bodies, agencies, boards, executives and trusts; including both the health and education estates. District Councils and relevant Non Departmental Public Bodies (NDPB) are also included.

The report does not however, include property occupied by GB departments such as HM Revenue and Customs (HMRC), the Northern Ireland Court Service, the Identity & Passport Service, MoD etc.; except insofar as they are minor tenants of NI central department buildings.

This report relates to data provided on 3520 buildings. Whilst a number of buildings remain unreported, this is improving year on year and much progress has been made over the last couple of years to improve the timeliness and quality of returns.

Despite this progress some gaps or anomalies in the data remain, particularly for the years 2000-2003. Mostly, these can be attributed to failures by Departments/public bodies to return energy consumption data on an annual basis or to update PSEC on the changing occupancy or profile of their estates.

NI Public Sector Estate Treated Floor Area



The public sector estate in Northern Ireland comprises a diverse range of building types including office blocks, schools, hospitals, leisure centres, prisons and work depots. Since the 1999/00 base year, the size of the occupied floor area in the estate has increased by 8.6% to 8.04km². This represents a 1.8% increase since 2006/07.

Treated floor area of the estate (km)

99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08
7.4					7.6	7.9	7.9	8.04

Data for the period between 2000-2004 is incomplete and has therefore been removed as it may present a false picture of the estate.

1.3 Energy Profile of the Public Sector Estate

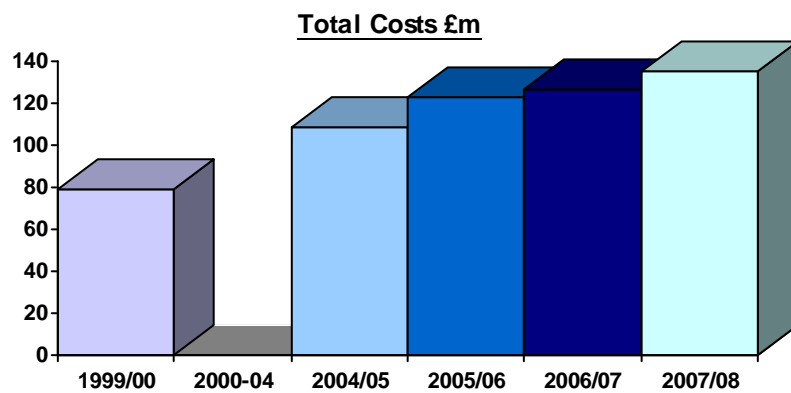
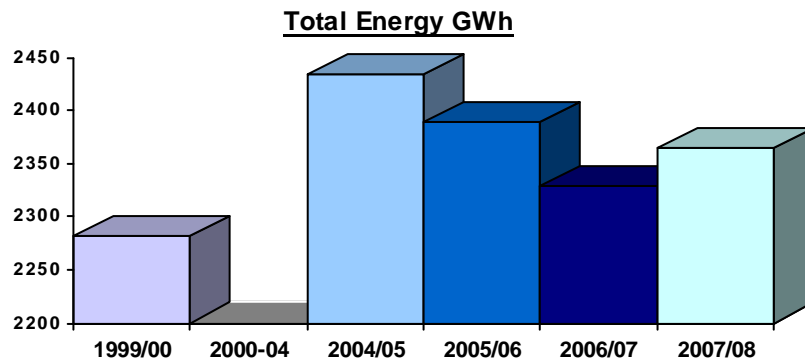
Energy totals for the entire public sector

The consumption of energy in the public sector in Northern Ireland has been subject to measurement and reporting since the early 1980s. During this time, targets for the estate have evolved to align with developing national and international priorities and policies on climate change and the consumption of energy.

With an annual energy bill totalling just over £135 million in 2007/08, the public sector remains a significant consumer in the Northern Ireland energy market. Whilst progress has been made to reduce the amount of energy consumed on the estate in recent years, the overall level of consumption still remains greater than that of the 1999/2000 base year and shows an increase against the 2006/07 year.

The following charts and table demonstrate the overall energy consumption and costs in the entire public sector against the base year and more specifically on a year-by-year basis since 2004/05. This measures all the energy consumed by the public sector both within its buildings and non-building use such as street lighting and water processing.

Northern Ireland Public Sector
Total Energy Consumption and Costs (buildings and non-buildings)



Year	Total energy consumed	% Change since 1999/00 base year	Total cost	% Change since 1999/00 base year
1999/00	2,281 gWh	-	£79m	-
2004/05	2,433 gWh	+ 6.7%	£109m	+ 37.9%
2005/06	2,389 gWh	+ 4.7%	£123 m	+ 55.7%
2006/07	2,322 gWh	+ 1.8%	£127m	+ 60.8%
2007/08	2,365 gWh	+ 3.7%	£135m	+ 71.9%

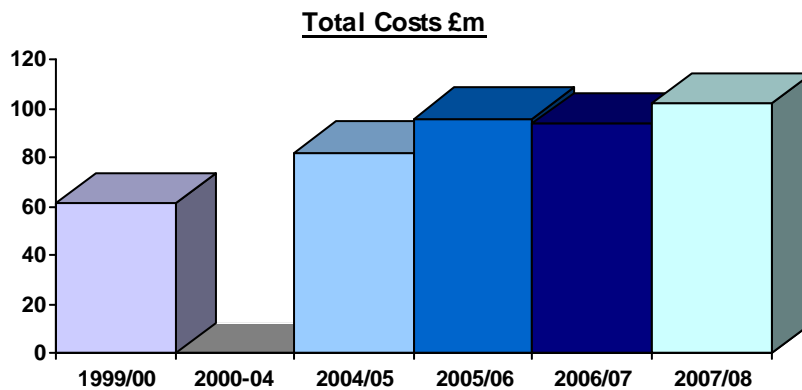
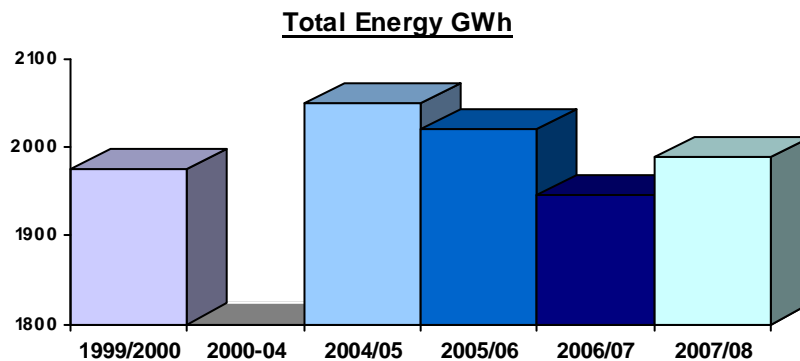
The 2007/08 figures show an increase in the total amount of energy used compared with the previous year, a reverse in the trend that has seen consumption fall over the previous two years.

Energy totals for buildings only

Looking more specifically at just the energy performance of the buildings that make up the public sector estate in Northern Ireland, following the pattern for total energy consumed, 2007/08 saw an increase in consumption against both the base year and 2006/07.

The cost of this energy also increased significantly during the year; however this is reflective of market conditions over the period under report.

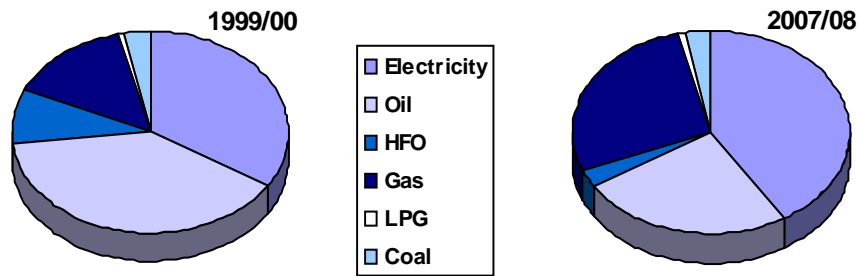
Northern Ireland Public Sector
Total Energy Consumption and Costs (buildings only)



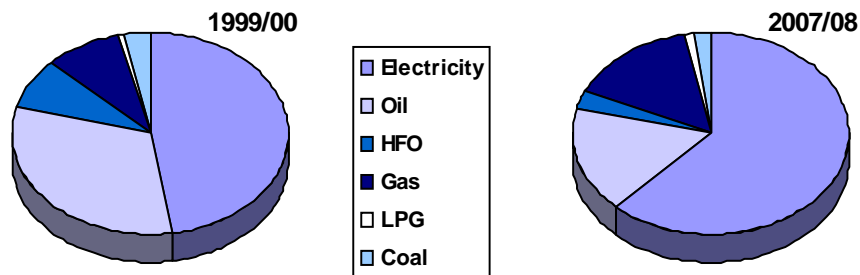
Year	Total energy consumed	% Change since 1999/00 base year	Total cost	% Change since 1999/00 base year
1999/00	1,974 gWh	-	£61m	-
2004/05	2,050 gWh	+ 3.8%	£82m	+ 34.4%
2005/06	2,020 gWh	+ 2.3%	£96 m	+ 57.3%
2006/07	1,946 gWh	- 1.4%	£94m	+ 54.1%
2007/08	1,988 gWh	+ 0.7%	£102m	+ 67.2%

As well as aiming to improve energy efficiency of buildings, there is an increasing focus on the need to reduce carbon emissions. Since the base year of 1999/2000 a number of buildings have undergone conversion from more carbon intensive fuels such as oil or heavy fuel oil to gas, with lower associated emissions. More recently, renewable energy technologies have been introduced in a small number of sites across the estate. This is still a relatively new and growing area in the NI public sector representing only 0.16% of total energy consumed at a cost of £18k, too small to feature in the following charts.

Northern Ireland Public Sector
Total energy consumed by fuel source (%)



Northern Ireland Public Sector
Carbon dioxide emissions by fuel source (%)



1.4 Energy Targets

The public sector accounts for about 5% of Northern Ireland's total energy consumption. It is therefore of pivotal importance that public bodies should be seen to be taking an active role in pursuing national and local strategies for energy efficiency and lowering carbon emissions. For this reason, specific targets have been set for the public estate in Northern Ireland.

In 2003, the Government published the White Paper *Our Energy Future – Creating a Low Carbon Economy*. Under the White Paper and its Implementation Plan, new targets were set for central Government Departments. However, these did not automatically extend to Northern Ireland. In 2004, the then Minister for Finance and Personnel, Ian Pearson MP, subsequently endorsed the following three targets to apply to all public bodies in Northern Ireland:

- To increase the energy efficiency of the buildings on their estates measured in terms of kiloWatt-hours (kWh) of fuel and electricity used per square metre of building floor area by 15% by 2010/11, relative to a base year of 1999/2000;
- To reduce absolute carbon, from fuel and electricity used in buildings on their estates by 12.5% by 2010/11, relative to a base year of 1999/2000; and
- To source at least 10% of their electricity from renewable sources by 31 March 2008.

The Department for Enterprise, Trade and Investment has overall responsibility for energy generation and supply in Northern Ireland, and in 2004 established a target to reduce electricity consumption by 1% per annum between 2007-2012 on a 2006/07 baseline. It was agreed the public sector would mirror this target and aim for a 1% reduction year-on-year in its estate.

However, Northern Ireland as a devolved administration will contribute to the UK energy savings target under the EU Energy End Use and End Services Directive. The UK Energy Efficiency Action Plan now supersedes the DETI target and aims for a 1% reduction in all energy by 2016. DETI has therefore amended its target accordingly and as of 2009/10 will be seeking to achieve a 1% reduction annually on all energy, not just electricity.

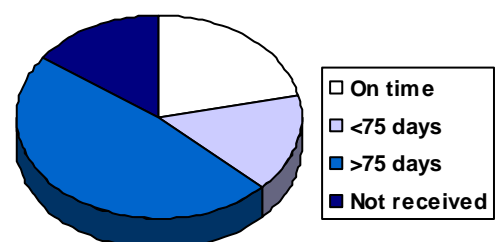
For the purposes of this report, performance will be measured against the electricity reduction target for 2007/08 and for the next report 2008/09. However, as data for all energy sources is available this has been included in the report for illustrative purposes only at this time but will replace the electricity target in 2009/10.

- To reduce electricity consumption by 1% annually from 2007 until 2012 based on a 2006/07 baseline.

1.5 Energy Consumption Data

All Departments, Councils and the major Non Departmental Public Bodies are asked to provide annual energy returns for each of the buildings for which they are responsible. The information may be obtained by Premises Officers from meter readings or bills and sent to a Departmental Energy Manager (DEM) who is responsible for providing the return to DFP. Another option

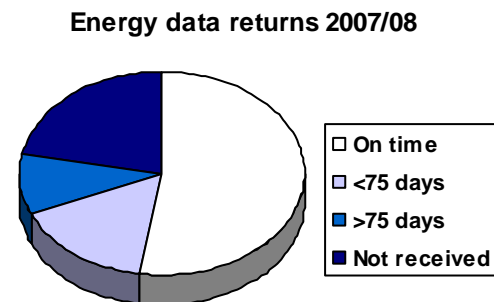
Energy data returns 2006/07



is for the DEM to use the services of the Engineering Services and Energy Unit in DFP to collate the information each year from the remote meter reading high frequency system, which covers all the major buildings in the NI office estate.

It is important to note that while responsibility for the provision of building services for the NI Departments core office estate may be centralised within Properties Division of DFP, buildings may be occupied by another Department or public body. As the occupants of a building are a major factor in how efficiently the building is utilised, responsibility for providing the energy returns on which this report is based lies with the main occupying Department for each building.

This year saw a significant improvement in the rate of data returns by the deadline, jumping from 22% to 52%. The number of returns made up to 75 days late has remained largely unchanged, with just 10% received over 75 days late compared to 48% the year before.



Despite these improvements, the number of bodies that failed to return their data has increased from the previous year from 15% to 22%. Whilst it is encouraging that those bodies that return data are generally doing so faster, the percentage making late returns is still significant enough to impact on the overall performance towards targets, as in the absence of a completed return, estimates have been used. A breakdown of performance for each body in submitting their energy return over the last two years is attached at table 3.15.

The quality of information returned may also be variable, with data omitted or in need of correction. Therefore it is important to note that whilst data may have been returned by the deadline, this is not a reflection of the substance or quality of the return.

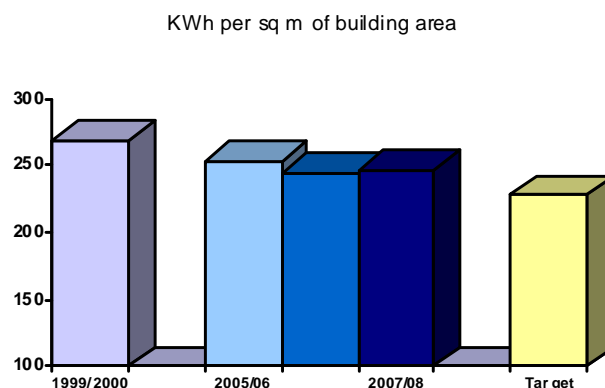
SECTION 2: PERFORMANCE AGAINST TARGETS

2.1 Energy Efficiency Target

- To increase the energy efficiency of the buildings on the estate measured in terms of kiloWatt-hours (kWh) of fuel and electricity used per square metre of building floor area by 15% by 2010/11, relative to a base year of 1999/2000.

Energy efficiency per square metre of building area has improved by 8% since the base year of 1999/2000.

As can be clearly seen from the chart, 2007/08 saw a worsening of performance in energy efficiency. This goes against the trend of the previous years since 2004/05.



Energy efficiency of buildings (kWh per m² of building floor area)

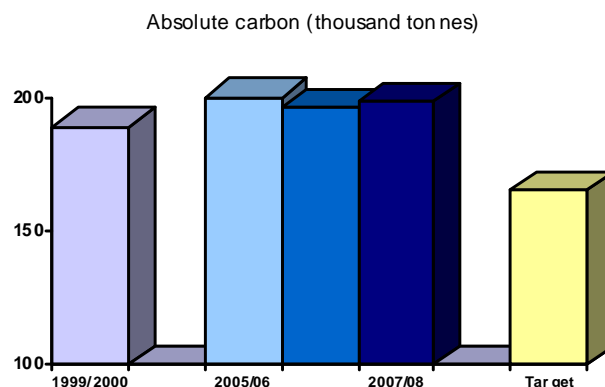
99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08
268					271	253	244	247

2.2 Carbon Emissions Target

- To reduce absolute carbon, from fuel and electricity used in buildings on the estate, by 12.5% by 2010/11, relative to a base year of 1999/2000.

Total carbon emissions have increased by 4.8% from the base year, against a target of 12.5% by 2010/11.

This is a further increase from 2006/07, making it increasingly unlikely that this target can be achieved by 2010/11. In total, absolute carbon emissions must be cut by over 17% from 2008/09 levels within 3 years to meet this objective.



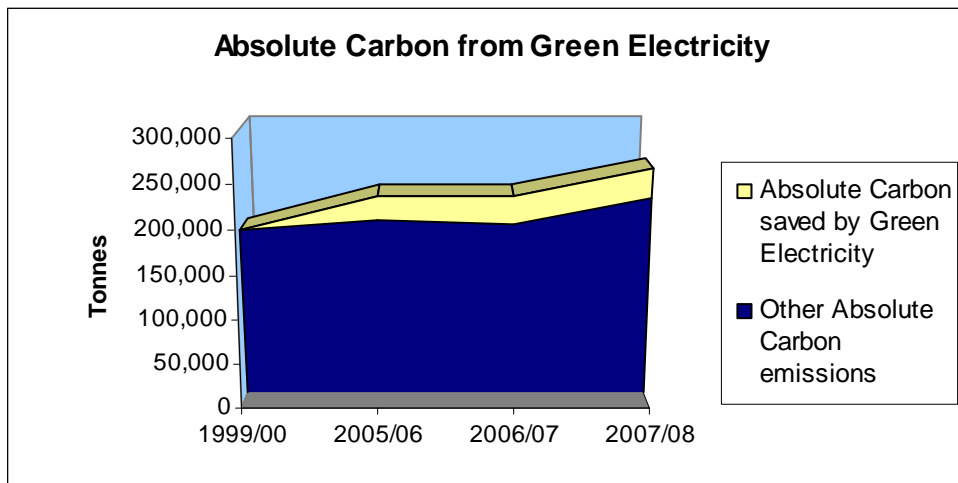
Absolute Carbon (Thousand Tonnes)

99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08
189					201	200	196	198

PSEC reports prior to 2005-07 credited carbon savings by the purchase of "green" electricity towards the achievement of this target. As the electricity supplier claims the carbon savings at source, to continue to include the purchase of green electricity towards this target would lead to double counting on these savings. Figures for all years under report have been amended to reflect this change. Over-reliance by the public sector on the purchase of green electricity to reduce carbon emissions may have contributed to the poor performance towards this target.

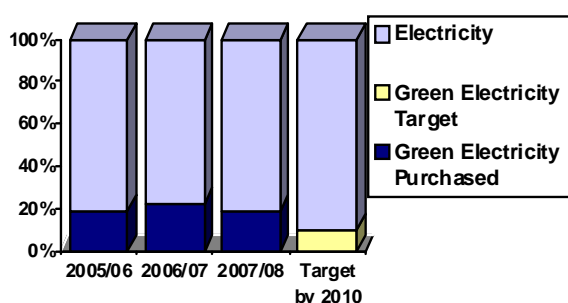
Energy generated on site from renewable sources will be treated as low or zero carbon for the purposes of this report and will continue to count towards reduction targets..

Whilst the estate cannot claim the carbon credit for purchased "green" electricity, the following chart demonstrates the contribution made by the purchase of green electricity towards the overall reduction of emissions.



2.3 Renewable Energy Target

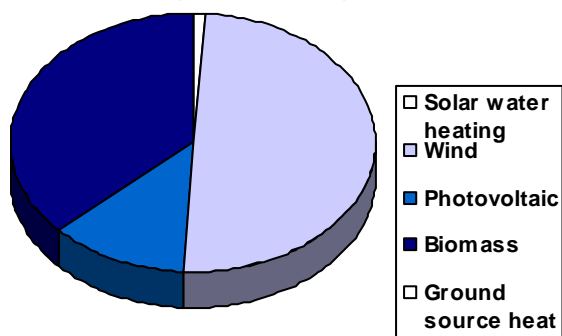
- To source at least 10% of electricity from renewable sources by 31 March 2008.



For the entire estate 19% of the electricity consumed was purchased from renewable sources (green electricity) in 2007/08.

This target has therefore been exceeded.

Energy generated by renewable energy technologies (kWh)



In addition to the purchase of green electricity, the reported amount of electricity and/or heat generated on site by renewable technologies has increased by over 60% since 2006/07. Whilst the overall contribution remains small, representing just 0.16% of total energy consumption, this is a growing area and future reports should show a continued growth in the amount of such energy generated and the types of technologies utilised.

Renewable Technology	kWh generated	
	2006/07	2007/08
Solar water heating	25,000	250
Wind	1,009,418	707,475
Photovoltaic cells	248,968	227,801
Hydro	0	657,971
Biomass	747,416	1,660,799
Ground source heat	200	8,632
Total electricity	2,031,002	3,262,928

NI Water has also reported that hydro-electric plants at Silent Valley and Oaklands generated a combined total of 1,708 MWh of energy that was sold to the grid along with the applicable Renewables Obligation Certificates (ROCs). As this energy

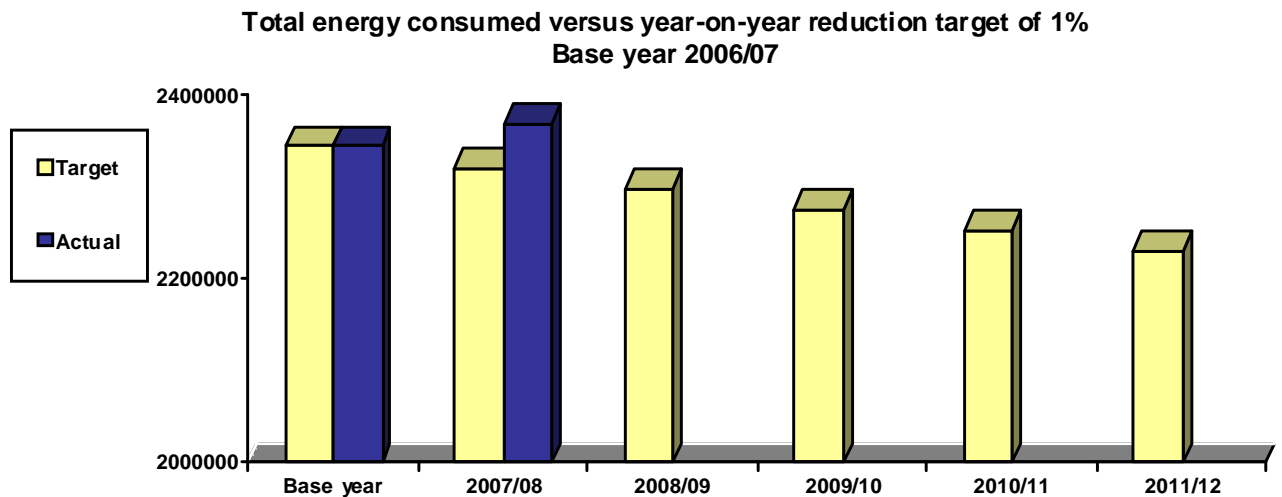
was not consumed on the estate it cannot count towards Government carbon reduction targets.

2.4 Total Energy Reduction Target

- To reduce total electricity consumption by 1% annually up to 2011/12 on a 2006/07 base year.

The Department for Enterprise, Trade and Investment had originally set a target to reduce electricity consumption across Northern Ireland by 1% annually between 2007 and 2012 on a 2006/07 baseline.

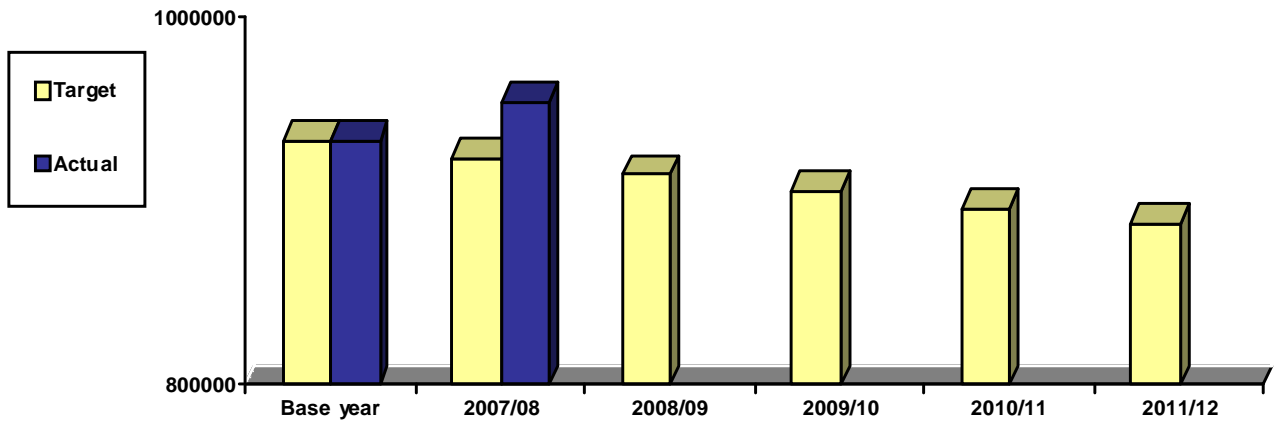
The total amount of electricity consumed by the public sector in 2007/08 failed to meet the 1% reduction target with consumption actually increasing by 2.25%.



This DETI target has now been superseded by the UK Energy Efficiency Action Plan in response to the EU's Energy End Use and Energy Services Directive. As of 2009/10 DETI will be amending their target to include a reduction in all energy consumed in Northern Ireland by 1% annually.

The data currently collected from public bodies enables this target to be measured from 2007/08 although the focus for the 2007/08 and 2008/09 years has been limited to electricity.

Total electricity consumed versus year-on-year reduction target of 1%
Base year 2006/07



2.5 Conclusions

Overall, 2007/08 shows mixed results in performance towards targets. Whilst the renewable energy target has been met and in fact well exceeded, performance on the remaining targets did not fare so well. Energy efficiency per m² of building area has seen a complete reversal against trend and is poorer than at any time in the last four years.

By 2006/07, energy efficiency had improved by 9% since the base year however in 2007/08 this dropped by 1% to 8%. The previous two years had seen a marked improvement on energy efficiency and it therefore remains to be seen if 2007/08 is just a blip in performance or if this marks the start of a reversal in the trend. With just 3 years left to run on this target, this fall in performance presents a challenge for the public sector to improve the energy efficiency of its buildings by a further 7.7% from its current levels.

Looking at the public sector estate performance in reducing absolute carbon emissions from its buildings, this is the second year in a row to witness a rise in emissions. Prior to the 2005-07 report, an allowance for green electricity purchased was granted towards the achievement of this target. This is no longer the case and all electricity purchased from energy suppliers is treated equally in this report. It seems likely that the over-reliance of green electricity as a vehicle to reduce carbon emissions has had a negative impact on performance towards this target. The apparent ease with which target number 3 to purchase 10% of electricity from renewable sources has been exceeded would indicate as much. With just 3 years left to reduce emissions by 17% from current levels this target looks beyond the public sector's reach and it will be a challenge just to reach the 1999/00 levels.

The increasing use of electricity in the public sector estate has no doubt played a factor in both efficiency and carbon emission targets in the year under report. This is the first year of measuring the public sector's latest target to reduce electricity by 1% annually from 2007-2012 based on a 2006/07 baseline. Once again, performance for the year under report has been poor, with consumption of electricity actually increasing by 2.25%.

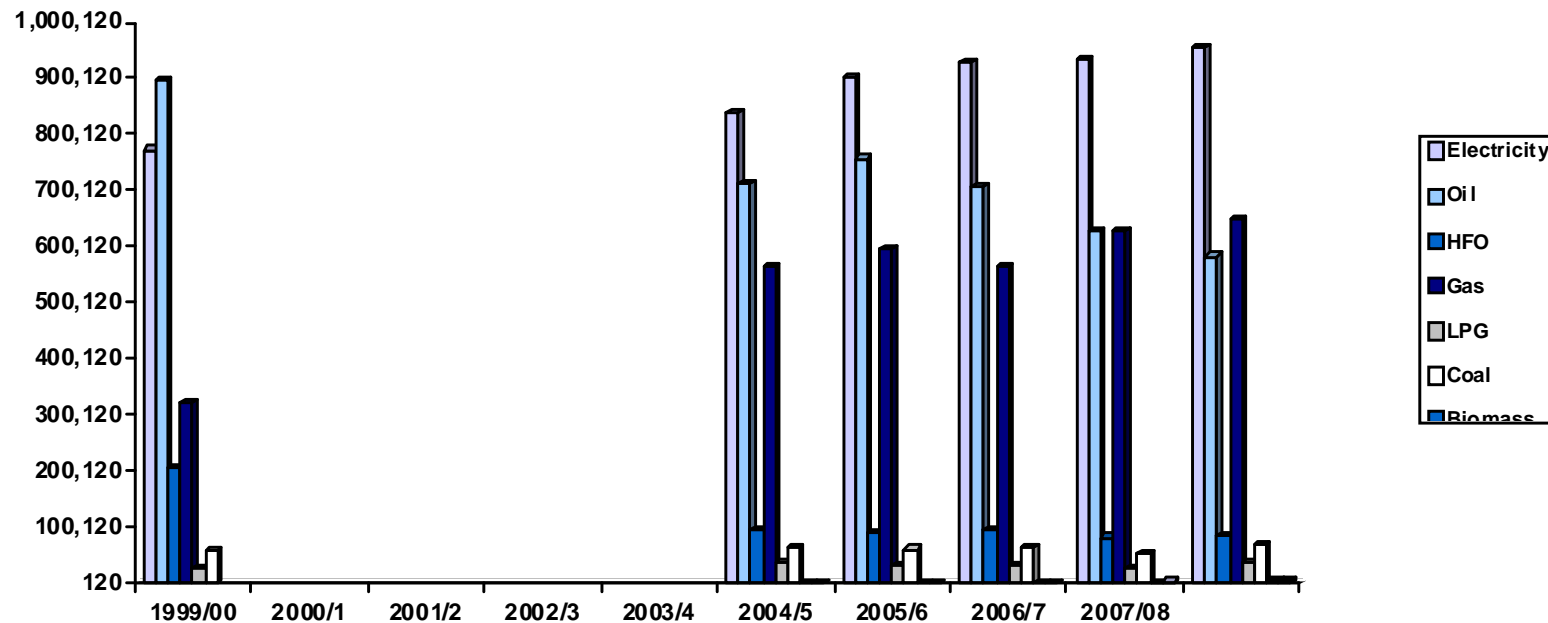
Going forward, the Department will be reviewing the targets for the public sector estate to ensure the targets are achievable and measurable. This will involve establishing a new baseline where the data is more robust than the current base year of 1999/2000.

SECTION 3: DATA TABLES AND CHARTS

3.1 Total energy consumption by fuel type (MWh) – includes non-building use

	1999/00	2000/1	2001/2	2002/3	2003/4	2004/5	2005/6	2006/7	2007/8
Electricity	773,228					904,249	928,148	933,128	954,127
Oil	896,146					756,911	707,754	627,928	582,327
HFO	202,871					86,520	94,535	80,529	81,217
Gas	323,112					594,710	565,005	628,681	646,466
LPG	26,680					31,164	31,586	23,563	35,361
Coal	59,101					59,807	62,952	50,173	67,679
Biomass	0					0	0	747	1,661
Renewables	0					0	0	1,284	1,602
Totals	2,281,137					2,433,361	2,388,246	2,321,453	2,365,234

Total energy consumption by fuel (MWh)
Includes non-building use



3.2 Total energy consumption by Department/Public Body (KWh) – includes non-building use

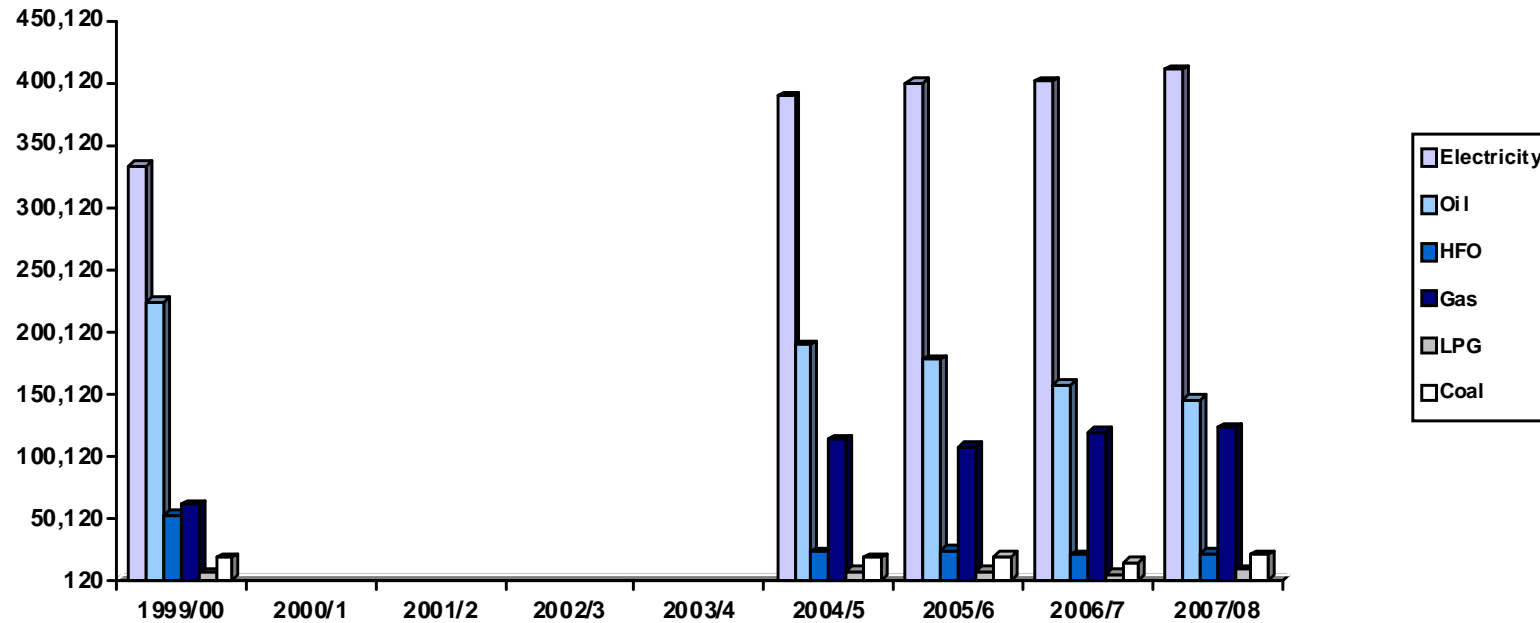
	1999/00	2000/1	2001/2	2002/3	2003/4	2004/5	2005/6	2006/7	2007/08
Assembly Commission	6,149,230					5,779,097	4,694,205	4,616,173	5,460,316
Councils	195,624,813					187,590,314	181,984,719	219,494,786	205,695,100
Councils Non Bdg Use	911,597					1,627,312	1,652,711	7,028,390	2,451,562
DARD	37,755,450					46,800,987	43,881,943	39,472,989	53,564,742
DCAL	3,400,568					3,381,406	3,381,406	2,718,258	2,718,258
DE	473,325,787					603,259,361	516,269,816	504,282,690	510,505,098
DEL	199,516,982					212,410,605	219,030,205	204,022,618	232,706,954
DEL Core	1,734,359					1,772,575	1,764,025	1,299,000	1,299,000
DETI	4,430,926					3,248,574	3,233,767	3,141,679	3,344,640
DFP	7,809,355					7,176,620	9,532,218	9,273,474	7,593,590
DHSS&PS	768,740,846					736,077,164	769,159,344	699,510,968	720,453,346
DOE	12,538,371					12,272,439	13,712,119	14,559,050	12,726,434
DRD	15,248,885					15,397,453	15,117,319	15,422,368	14,099,128
DRD Street Lights	97,883,192					106,777,296	108,144,000	111,052,856	110,892,976
Water Process	207,691,152					274,564,128	258,545,616	257,811,376	261,430,547
DSD	25,014,308					29,299,824	33,996,494	28,805,182	30,176,810
Major NDPBs	35,949,594					32,730,242	34,118,456	32,495,105	27,697,367
NI Prison Service	74,246,434					42,610,300	58,811,495	59,375,403	59,375,403
NIO	10,606,882					5,905,169	4,912,734	5,537,935	3,489,357
PSNI	99,777,600					101,502,877	103,301,456	98,530,107	95,926,524
NI Water Offices*	2,781,139					3,177,344	3,002,284	3,002,284	2,581,142
OFMDFM	0					0	0	0	1,045,571
Totals	2,281,137,470					2,433,361,087	2,388,246,332	2,321,452,691	2,365,233,865

* Figures for 1999/00 – 2006/07 extracted from the DRD office estate.

3.3 Total carbon dioxide emissions by fuel type (kgs) – includes non-building use

	1999/00	2000/1	2001/2	2002/3	2003/4	2004/5	2005/6	2006/07	2007/08
Electricity	332,488					388,827	399,120	401,245	410,468
Oil	224,036					189,228	177,235	156,982	145,582
HFO	52,746					22,495	24,348	20,937	21,116
Gas	61,391					112,995	107,117	119,449	122,829
LPG	6,136					7,168	7,265	5,419	8,133
Coal	17,730					17,942	18,886	15,052	20,304
Totals	693,908					738,441	733,671	718,995	726,732

**Total carbon dioxide emissions by fuel (Tonnes)
Includes non-building use**

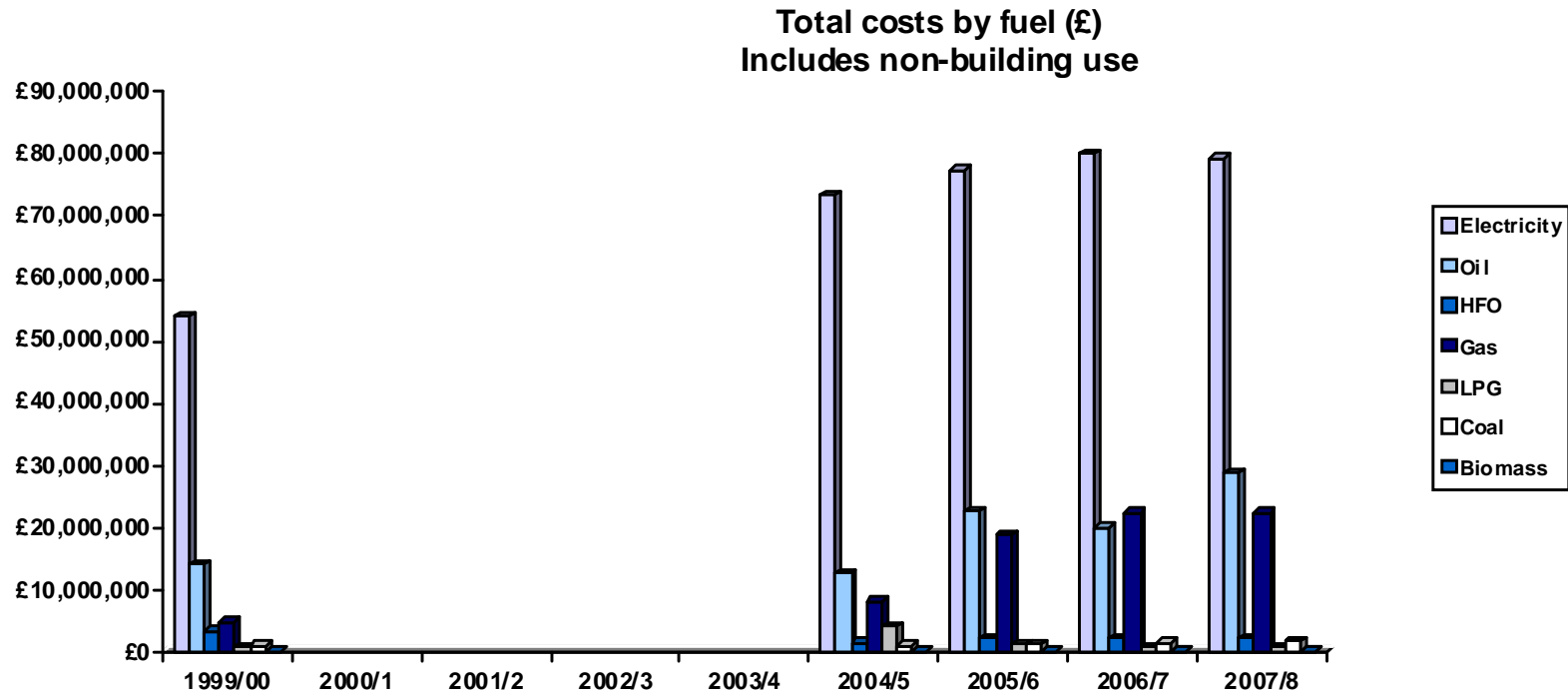


3.4 Total carbon dioxide Emissions by Department/Public Body (kgs) – includes non-building use

	1999/00	2000/1	2001/2	2002/3	2003/4	2004/5	2005/6	2006/07	2007/08
Assembly Commission	1,957,054					1,807,617	1,384,004	1,362,357	1,626,089
Councils	57,866,275					53,363,674	52,526,501	63,896,237	58,421,802
Councils Non Bdg Use	375,182					695,386	707,079	2,027,762	1,012,815
DARD	12,915,750					14,239,292	13,297,036	14,133,942	15,969,399
DCAL	1,101,030					1,092,790	1,092,790	912,070	912,070
DE	132,822,574					165,051,189	143,727,074	139,556,463	141,786,858
DEL	56,221,554					59,354,056	62,023,005	58,997,126	66,630,606
DEL Core	603,466					586,420	577,637	435,690	435,690
DETI	1,414,162					976,559	964,285	1,046,621	1,019,935
DFP	2,765,945					2,396,690	3,276,958	3,830,246	2,797,090
DHSS&PS	212,780,733					202,983,115	213,544,871	193,857,835	199,706,702
DOE	3,853,376					3,740,987	4,148,633	4,402,526	4,146,794
DRD	5,385,994					5,423,366	5,224,481	5,379,210	4,953,151
DRD Street Lights	42,089,772					45,914,240	46,501,920	47,752,728	47,683,980
Water Process	85,503,816					113,145,848	110,652,488	108,744,656	109,889,552
DSD	8,447,763					9,664,892	11,173,491	10,982,633	10,120,817
Major NDPBs	11,752,160					10,738,055	11,194,335	10,819,018	9,284,510
NI Prison Service	20,753,585					12,281,097	16,211,525	16,547,418	16,547,418
NIO	1,829,018					1,751,158	1,616,471	1,873,265	1,267,472
PSNI	32,508,911					32,198,828	32,875,647	31,486,773	31,356,718
NI Water Offices	959,878					1,035,823	950,403	950,403	847,692
OFMDFM	0					0	0	0	314,543
Totals	693,907,998					738,441,082	733,670,634	718,994,979	726,731,703

3.5 Total costs by fuel type (£) – includes non-building use

	1999/00	2000/1	2001/2	2002/3	2003/4	2004/5	2005/6	2006/7	2007/08
Electricity	£53,996,079					£73,531,793	£77,531,207	£80,181,426	£79,350,047
Oil	£13,979,891					£12,489,014	£22,577,365	£19,981,827	£28,759,850
HFO	£3,347,366					£1,427,583	£2,051,406	£2,148,266	£2,019,994
Gas	£4,782,066					£8,088,062	£18,871,160	£22,341,791	£22,337,785
LPG	£632,314					£4,091,845	£1,313,960	£646,545	£904,617
Coal	£992,890					£998,770	£1,259,043	£1,434,066	£1,803,520
Biomass	£0					£0	£0	£9,186	£18,027
Totals	£78,635,346					£108,539,230	£123,058,685	£126,743,107	£135,193,840



3.6 Total costs by Department/Public Body (£) – includes non-building use

	1999/00	2000/1	2001/2	2002/3	2003/4	2004/5	2005/6	2006/7	2007/08
Assembly Commission	£216,955					£271,272	£268,641	£214,936	£280,467
Councils	£6,959,258					£9,330,217	£9,021,508	£9,966,464	£11,545,973
Councils Non Bdg Use	£64,137					£137,066	£145,137	£389,530	£236,888
DARD	£1,649,260					£2,280,573	£2,424,628	£2,168,755	£3,672,727
DCAL	£152,076					£178,391	£196,895	£173,943	£173,943
DE	£13,940,829					£22,419,867	£25,476,272	£26,087,221	£27,762,851
DEL	£5,708,432					£8,265,763	£10,594,991	£9,520,962	£12,450,378
DEL Core	£89,997					£103,220	£116,590	£87,519	£87,519
DETI	£165,558					£252,040	£279,016	£383,837	£244,785
DFP	£376,163					£423,031	£624,427	£698,400	£657,240
DHSS&PS	£21,758,036					£27,353,294	£33,638,708	£30,169,245	£28,961,893
DOE	£458,629					£602,488	£732,062	£854,535	£1,068,622
DRD	£730,910					£939,022	£966,973	£1,044,506	£1,086,204
DRD Street Lights	£6,335,261					£8,220,693	£8,783,048	£10,039,148	£10,018,846
Water Process	£11,011,067					£17,722,421	£17,700,110	£21,933,486	£22,331,823
DSD	£1,090,201					£1,738,176	£2,105,028	£1,878,114	£2,247,732
Major NDPBs	£1,556,871					£1,802,810	£2,079,120	£2,588,472	£2,117,918
NI Prison Service	£2,212,019					£1,645,124	£2,356,505	£2,808,399	£3,572,974
NIO	£307,956					£253,115	£311,634	£345,981	£376,119
PSNI	£3,709,923					£4,425,293	£5,062,357	£5,208,461	£6,043,492
Water NI Offices	£141,808					£175,354	£175,035	£181,193	£188,892
OFMDFM	£0					£0	£0	£0	£66,554
Totals	£78,635,346					£108,539,230	£123,058,685	£126,743,107	£135,193,840

3.7 Summary of total energy consumption performance by Department/Public Body

Energy (KWh)						
					% move on	
	2007/08	2006/07	2005/06	1999/00	2006/07	1999/00
Assembly Commission	5,460,316	4,616,173	4,694,205	6,149,230	18.3%	-11.2%
Councils	205,695,100	219,494,786	181,984,719	195,624,813	-6.3%	5.1%
Councils Non Bdg Use	2,451,562	7,028,390	1,652,711	911,597	-65.1%	168.9%
DARD	53,564,742	39,472,989	43,881,943	37,755,450	35.7%	41.9%
DCAL	2,718,258	2,718,258	3,381,406	3,400,568	0.0%	-20.1%
DE	510,505,098	504,282,690	516,269,816	473,325,787	1.2%	7.9%
DEL	232,706,954	204,022,618	219,030,205	199,516,982	14.1%	16.6%
DEL Core	1,299,000	1,299,000	1,764,025	1,734,359	0.0%	-25.1%
DETI	3,344,640	3,141,679	3,233,767	4,430,926	6.5%	-24.5%
DFP	7,593,590	9,273,474	9,532,218	7,809,355	-18.1%	-2.8%
DHSS&PS	720,453,346	699,510,968	769,159,344	768,740,846	3.0%	-6.3%
DOE	12,726,434	14,559,050	13,712,119	12,538,371	-12.6%	1.5%
DRD	14,099,128	15,422,368	15,117,319	15,248,885	-8.6%	-7.5%
DRD Street Lights	110,892,976	111,052,856	108,144,000	97,883,192	-0.1%	13.3%
Water Process	261,430,547	257,811,376	258,545,616	207,691,152	1.4%	25.9%
DSD	30,176,810	28,805,182	33,996,494	25,014,308	4.8%	20.6%
Major NDPBs	27,697,367	32,495,105	34,118,456	35,949,594	-14.8%	-23.0%
NI Prison Service	59,375,403	59,375,403	58,811,495	74,246,434	0.0%	-20.0%
NIO	3,489,357	5,537,935	4,912,734	10,606,882	-37.0%	-67.1%
PSNI	95,926,524	98,530,107	103,301,456	99,777,600	-2.6%	-3.9%
NI Water Offices	2,581,142	3,002,284	3,002,284	2,781,139	-14.0%	-7.2%
OFMDFM	1,045,571	0	0	0	0.0%	0.0%
Totals - includes non-building use	2,365,233,865	2,321,452,691	2,388,246,332	2,281,137,470	1.9%	3.7%
Totals – buildings only	1,987,877,638	1,945,560,069	2,019,904,005	1,974,651,529	2.2%	0.7%

3.8 Summary of total carbon dioxide emission performance by Department/Public Body

Carbon dioxide (Kg)						
	2007/08	2006/07	2005/06	1999/00	% move on	
					2006/07	1999/00
Assembly Commission	1,626,089	1,362,357	1,384,004	1,957,054	19.4%	-16.9%
Councils	58,421,802	63,896,237	52,526,501	57,866,275	-8.6%	1.0%
Councils Non Bdg Use	1,012,815	2,027,762	707,079	375,182	-50.1%	170.0%
DARD	15,969,399	14,133,942	13,297,036	12,915,750	13.0%	23.6%
DCAL	912,070	912,070	1,092,790	1,101,030	0.0%	-17.2%
DE	141,786,858	139,556,463	143,727,074	132,822,574	1.6%	6.7%
DEL	66,630,606	58,997,126	62,023,005	56,221,554	12.9%	18.5%
DEL Core	435,690	435,690	577,637	603,466	0.0%	-27.8%
DETI	1,019,935	1,046,621	964,285	1,414,162	-2.5%	-27.9%
DFP	2,797,090	3,830,246	3,276,958	2,765,945	-27.0%	1.1%
DHSS&PS	199,706,702	193,857,835	213,544,871	212,780,733	3.0%	-6.1%
DOE	4,146,794	4,402,526	4,148,633	3,853,376	-5.8%	7.6%
DRD	4,953,151	5,379,210	5,224,481	5,385,994	-7.9%	-8.0%
DRD Street Lights	47,683,980	47,752,728	46,501,920	42,089,772	-0.1%	13.3%
Water Process	109,889,552	108,744,656	110,652,488	85,503,816	1.1%	28.5%
DSD	10,120,817	10,982,633	11,173,491	8,447,763	-7.8%	19.8%
Major NDPBs	9,284,510	10,819,018	11,194,335	11,752,160	-14.2%	-21.0%
NI Prison Service	16,547,418	16,547,418	16,211,525	20,753,585	0.0%	-20.3%
NIO	1,267,472	1,873,265	1,616,471	1,829,018	-32.3%	-30.7%
PSNI	31,356,718	31,486,773	32,875,647	32,508,911	-0.4%	-3.5%
NI Water Offices	847,692	950,403	950,403	959,878	-10.8%	-11.7%
OFMDFM	314,543	0	0	0	0.0%	0.0%
Totals - includes non-building use	726,731,703	718,994,979	733,670,634	693,907,998	1.1%	4.7%
Totals – buildings only	568,145,356	560,469,833	575,809,147	565,939,228	1.4%	0.4%

3.9 Summary of total energy cost performance by Department/Public Body

Energy costs (£)					% move on	
	2007/08	2006/07	2005/06	1999/00	2006/07	1999/00
Assembly Commission	£280,467	£214,936	£268,641	£216,955	30.5%	29.3%
Councils	£11,545,973	£9,966,464	£9,021,508	£6,959,258	15.8%	65.9%
Councils Non Bdg Use	£236,888	£389,530	£145,137	£64,137	-39.2%	269.3%
DARD	£3,672,727	£2,168,755	£2,424,628	£1,649,260	69.3%	122.7%
DCAL	£173,943	£173,943	£196,895	£152,076	0.0%	14.4%
DE	£27,762,851	£26,087,221	£25,476,272	£13,940,829	6.4%	99.1%
DEL	£12,450,378	£9,520,962	£10,594,991	£5,708,432	30.8%	118.1%
DEL Core	£87,519	£87,519	£116,590	£89,997	0.0%	-2.8%
DETI	£244,785	£383,837	£279,016	£165,558	-36.2%	47.9%
DFP	£657,240	£698,400	£624,427	£376,163	-5.9%	74.7%
DHSS&PS	£28,961,893	£30,169,245	£33,638,708	£21,758,036	-4.0%	33.1%
DOE	£1,068,622	£854,535	£732,062	£458,629	25.1%	133.0%
DRD	£1,086,204	£1,044,506	£966,973	£730,910	4.0%	48.6%
DRD Street Lights	£10,018,846	£10,039,148	£8,783,048	£6,335,261	-0.2%	58.1%
Water Process	£22,331,823	£21,933,486	£17,700,110	£11,011,067	1.8%	102.8%
DSD	£2,247,732	£1,878,114	£2,105,028	£1,090,201	19.7%	106.2%
Major NDPBs	£2,117,918	£2,588,472	£2,079,120	£1,556,871	-18.2%	36.0%
NI Prison Service	£3,572,974	£2,808,399	£2,356,505	£2,212,019	27.2%	61.5%
NIO	£376,119	£345,981	£311,634	£307,956	8.7%	22.1%
PSNI	£6,043,492	£5,208,461	£5,062,357	£3,709,923	16.0%	62.9%
Water Offices	£188,892	£181,193	£175,035	£141,808	4.2%	33.2%
OFMDFM	£66,554	£0	£0	£0	0.0%	0.0%
Totals - includes non-building use	£135,193,840	£126,743,107	£123,058,685	£78,635,346	6.7%	71.9%
Totals – buildings only	£102,417,391	£94,380,943	£96,430,390	£61,224,881	8.5%	67.3%

3.10 Summary of energy efficiency performance by square metre of building area

Energy (KWh/m ²)					% move on	
	2007/08	2006/07	2005/06	1999/00	2006/07	1999/00
Assembly Commission	276	247	251	329	11.8%	-16.1%
Councils	260	280	290	345	-7.1%	-24.6%
DARD	224	168	182	156	33.6%	44.1%
DCAL	234	234	291	286	0.0%	-18.2%
DE	145	146	152	151	-0.2%	-3.4%
DEL	256	238	253	235	7.6%	8.8%
DEL Core	173	173	176	173	0.0%	0.0%
DETI	242	227	234	208	6.5%	16.5%
DFP	115	148	197	165	-22.1%	-29.9%
DHSS&PS	451	428	413	477	5.3%	-5.4%
DOE	211	241	250	224	-12.7%	-6.1%
DRD	226	245	242	232	-7.8%	-2.8%
DSD	205	196	237	236	4.6%	-13.1%
Major NDPBs	165	185	193	203	-11.2%	-19.1%
NI Prison Service	591	591	594	622	0.0%	-5.1%
NIO	181	255	255	519	-28.8%	-65.1%
PSNI	312	321	328	358	-2.7%	-12.8%
OFMDFM	378	0	0	0	0.0%	0.0%
Totals	247	244	253	268	1.3%	-7.9%

3.11 Summary of absolute carbon performance by square metre of building area

Absolute carbon (kg/m ²)					% move on	
	2007/08	2006/07	2005/06	1999/00	2006/07	1999/00
Assembly Commission	26	20	20	29	31.5%	-8.5%
Councils	23	22	23	28	1.2%	-19.2%
DARD	21	16	15	15	27.4%	43.9%
DCAL	25	21	26	25	18.1%	0.1%
DE	12	11	12	12	9.9%	4.9%
DEL	23	19	20	18	20.2%	24.8%
DEL Core	19	16	16	16	19.9%	15.5%
DETI	24	21	19	18	14.3%	30.5%
DFP	15	17	18	16	-11.2%	-6.9%
DHSS&PS	37	32	31	36	15.6%	4.1%
DOE	20	20	21	19	-1.1%	4.7%
DRD	26	23	23	22	9.8%	14.3%
DSD	22	20	21	22	9.1%	2.4%
Major NDPBs	18	17	17	18	4.7%	-2.7%
NI Prison Service	49	45	45	47	8.5%	2.7%
NIO	22	24	23	24	-6.7%	-10.2%
PSNI	33	28	28	32	16.8%	2.7%
OFMDFM	36	0	0	0	0.0%	0.0%
Totals	21	19	20	21	11.9%	2.3%

3.12 Summary of cost performance by square metre of building area

Costs (£/m ²)						
					% move on	
	2007/08	2006/07	2005/06	1999/00	2006/07	1999/00
Assembly Commission	£14	£12	£14	£12	23.3%	22.1%
Councils	£15	£13	£14	£12	14.8%	18.9%
DARD	£15	£9	£10	£7	66.8%	126.2%
DCAL	£15	£15	£17	£13	0.0%	17.0%
DE	£8	£8	£7	£4	4.9%	78.4%
DEL	£14	£11	£12	£7	23.3%	103.5%
DEL Core	£12	£12	£12	£9	0.0%	29.8%
DETI	£18	£28	£20	£8	-36.2%	128.1%
DFP	£10	£11	£13	£8	-10.4%	25.9%
DHSS&PS	£18	£18	£18	£13	-1.9%	34.4%
DOE	£18	£14	£13	£8	24.8%	115.6%
DRD	£17	£17	£15	£11	4.9%	56.3%
DSD	£15	£13	£15	£10	19.5%	48.6%
Major NDPBs	£13	£15	£12	£9	-14.8%	42.9%
NI Prison Service	£36	£28	£24	£19	27.2%	91.7%
NIO	£20	£16	£16	£15	22.8%	29.7%
PSNI	£20	£17	£16	£13	15.9%	47.8%
OFMDFM	£24	£0	£0	£0	0.0%	0.0%
Totals	£17	£16	£15	£11	5.7%	57.3%

3.13 Summary of renewable energy generation by Department/Public Body 2007/08 (KWh)

	Total Biomass KWh	Total Wind KWh	Total Hydro-electric KWh	Total Photovoltaic KWh	Total Solar Water Heating KWh	Total Ground Source Heat KWh	TOTAL RENEWABLES KWh
Assembly Commission	0	0	0	0	0	0	0
Councils	590,549	45,535	0	35,245	0	0	671,329
Councils Non Bdg Use	0	0	0	0	0	0	0
DARD	41,400	2,100	0	0	0	0	43,500
DCAL	0	0	0	0	0	0	0
DE	0	9,600	0	150,710	0	0	160,310
DEL	985,650	0	0	41,846	250	8,632	1,036,378
DEL Core	0	0	0	0	0	0	0
DETI	0	0	0	0	0	0	0
DFP	0	0	0	0	0	0	0
DHSS&PS	0	650,240	0	0	0	0	650,240
DOE	0	0	0	0	0	0	0
DRD	0	0	0	0	0	0	0
DRD Street Lights	0	0	0	0	0	0	0
Water Process	0	0	657,971	0	0	0	657,971
DSD	0	0	0	0	0	0	0
Major NDPBs	0	0	0	0	0	0	0
NI Prison Service	0	0	0	0	0	0	0
NIO	43,200	0	0	0	0	0	43,200
PSNI	0	0	0	0	0	0	0
Water Offices	0	0	0	0	0	0	0
OFMDFM	0	0	0	0	0	0	0
Totals	1,660,799	707,475	657,971	227,801	250	8,632	3,262,928

3.14 Reported building area by Department/Public Body

	1999/2000		2005/06		2006/07		2007/08	
	Total Buildings	Total Area (m ²)	Total Buildings	Total Area (m ²)	Total Buildings	Total Area (m ²)	Total Buildings	Total Area (m ²)
Assembly Commission	1	18,678	1	18,678	1	18,678	2	19,770
Councils	678	566,350	722	628,357	792	783,307	786	790,280
DARD	56	242,739	53	241,158	50	235,294	61	238,937
DCAL	4	11,905	3	11,636	3	11,636	3	11,636
DE	1,331	3,144,008	1,434	3,398,929	1,424	3,460,054	1,427	3,508,843
DEL	199	848,319	154	864,732	142	857,664	149	909,317
DEL Core	2	9,999	2	9,999	1	7,489	1	7,489
DETI	6	21,338	5	13,831	5	13,831	5	13,831
DFP	16	47,425	16	48,494	20	62,616	22	65,802
DHSS&PS *	7	1,613,232	8	1,862,981	8	1,633,551	8	1,598,223
DOE	51	55,890	49	54,838	50	60,304	52	60,411
DRD	30	65,647	26	62,448	27	62,953	27	62,435
DSD	61	106,086	72	143,147	73	146,935	74	147,189
Major NDPBs	207	176,816	205	176,888	176	175,307	193	168,298
NI Prison Service	6	119,276	5	99,019	5	100,518	5	100,518
NIO	8	20,431	11	19,237	11	21,737	10	19,237
PSNI	181	278,771	166	315,248	151	307,035	156	307,266
OFMDFM	0	0	0	0	0	0	1	2,764
Water Offices	7	12,957	7	12,957	8	14,191	7	11,844
Totals	2,851	7,359,867	2,939	7,982,577	2,947	7,973,100	2,989	8,044,090

3.15 Energy data return performance 2006/07 – 2007/08

Data received by deadline

This table indicates the performance of each public sector body in returning the requested energy data within the deadline. A “traffic light” system has been used to highlight performance and to demonstrate the improvements made by a number of bodies from the 2006/07 year.

Performance has been categorised into four groups:

On time	
Up to 75 days late	
Over 75 days late	
Not returned	

Department	Sub-department	2006/07	2007/08
Northern Ireland Assembly Commission			
Assembly Commission	Parliament Buildings	#N/A	On time
District Councils			
Councils	Antrim Borough Council	13	On time
Councils	Ards Borough Council	45	28
Councils	Armagh City & District Council	18	184
Councils	Ballymena Borough Council	203	6
Councils	Ballymoney Borough Council	199	On time
Councils	Banbridge District Council	Not returned	Not returned
Councils	Belfast City Council	On time	40
Councils	Carrickfergus Borough Council	Not returned	Not returned
Councils	Castlereagh Borough Council	185	On time
Councils	Coleraine Borough Council	On time	119
Councils	Cookstown District Council	81	61
Councils	Craigavon Borough Council	Not returned	Not returned
Councils	Derry City Council	On time	On time
Councils	Down District Council	On time	Not returned
Councils	Dungannon & South Tyrone Borough Council	On time	On time
Councils	Fermanagh District Council	On time	On time
Councils	Larne Borough Council	Not returned	Not returned
Councils	Limavady Borough Council	199	118
Councils	Lisburn City Council	Not returned	204
Councils	Magherafelt District Council	Not returned	219
Councils	Moyle District Council	101	15
Councils	Newry & Mourne District Council	217	On time
Councils	Newtownabbey Borough Council	77	On time
Councils	North Down Borough Council	104	On time
Councils	Omagh District Council	On time	15
Councils	Strabane District Council	103	On time
Northern Ireland Departments, schools, healthcare and the Northern Ireland Office			
DARD	Department of Agriculture & Rural Development	42	16
DCAL	Department of Culture, Arts & Leisure	195	Not returned
DE	Belfast Education & Library Board	150	31

Department	Sub-department	2006/07	2007/08
DE	North-Eastern Education & Library Board	46	21
DE	Rathgael Complex	180	On time
DE	South-Eastern Education & Library Board	On time	29
DE	Southern Education & Library Board	33	19
DE	VGS and GMI Schools	180	143
DE	Waterside House	180	On time
DE	Western Education & Library Board	97	79
DEL	Belfast Metropolitan College - Belfast	Not returned	On time
DEL	Belfast Metropolitan College - Castlereagh	124	On time
DEL	DEL Core	Not returned	Not returned
DEL	North West Regional College -Limavady	Not returned	On time
DEL	North West Regional College -North West	On time	On time
DEL	Northern Regional College - Causeway	Not returned	On time
DEL	Northern Regional College - East Antrim	On time	On time
DEL	Northern Regional College - North East	97	On time
DEL	Queen's University	On time	On time
DEL	South Eastern Regional College -East Down	102	Not returned
DEL	South Eastern Regional College -Lisburn	103	Not returned
DEL	South Eastern Regional College -North Down & Ards	104	Not returned
DEL	South West College - Fermanagh	104	Not returned
DEL	South West College -East Tyrone	Not returned	Not returned
DEL	South West College -Omagh	On time	On time
DEL	Southern Regional College -Armagh	Not returned	On time
DEL	Southern Regional College -Banbridge	#N/A	On time
DEL	Southern Regional College -Lurgan	#N/A	On time
DEL	Southern Regional College -Newry & Kilkeel	On time	On time
DEL	Southern Regional College -Portadown	#N/A	On time
DEL	St.Mary's University College	On time	On time
DEL	Stranmillis University College	58	On time
DEL	University of Ulster	3	On time
DETI	Department of Enterprise, Trade & Investment	On time	On time
DFP	Department of Finance and Personnel	96	17
DHSS&PS	DHSS Core	87	128
DHSS&PS	Health and Social Care	75	On time
DHSS&PS	NI Fire & Rescue Service	75	On time
DOE	Department of the Environment	99	On time
DOE	NI Environment Agency	213	On time
DRD	Department for Regional Development	33	On time
DRD	Street Lighting	On time	On time
DSD	Department for Social Development	On time	On time
NIO	Northern Ireland Office	139	On time
NIPS	Northern Ireland Prison Service	161	Not returned
OFMDFM	Office of the First Minister and Deputy First Minister	Not required	Not returned
Non-Departmental Public Bodies			
Major NDPBs	Audit Office	151	On time
Major NDPBs	Invest NI	Not returned	Not returned
Major NDPBs	National Museums Northern Ireland	Not returned	On time
Major NDPBs	Northern Ireland Housing Executive	139	Not returned
Major NDPBs	Probation Board for Northern Ireland	On time	Not returned

Department	Sub-department	2006/07	2007/08
Major NDPBs	Public Libraries	Not returned	On time
Major NDPBs	Public Records Office for NI	216	Not returned
Police Service for Northern Ireland			
PSNI	Police Service for Northern Ireland	14	18
Government Owned Company			
NI Water*	Water Service Process & offices	On time	On time

* 2006/07 Water Service reported via DRD

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