

END OF YEAR REPORT ON THE ENVIRONMENTAL IMPACT OF ENERGY CONSUMPTION DURING 2004/2005

Abstract

This report presents the 2004/2005 end of year status of the environmental impact of the energy consumed by the non-housing building stock.

RECOMMENDATION

The Resources and Central Services Committee is recommended to note the contents of this report.

1 INTRODUCTION

The Property Services department currently manages the energy requirements for all non-housing properties within Angus Council and maintains an overview, in conjunction with the Finance department, of the rate of consumption of the individual properties and the departments. This includes the monitoring and reporting of the environmental impact resulting from the consumption of energy.

The energy consumed, and the carbon dioxide produced, by Council non-housing properties is monitored and the pattern of consumption and carbon dioxide production compared with profiles for preceding years with adjustment made for differences resulting from variations in weather and occupational / estate changes.

2 STATUS

The consumption and carbon dioxide production status, as at 31 March 2005 is detailed in Table 1.

Table 1 Overall Consumption and carbon dioxide production.

Year	General Power		Heating				Total kWh	Total kg of CO ₂
	Electricity kWh	kg of CO ₂	Gas kWh	kg of CO ₂	Oil kWh	kg of CO ₂		
Data at 31/03/2004	23,294,878	9,638,005	41,710,751	7,925,043	2,377,909	618,256	67,383,538	18,181,304
Data at 31/03/2005	22,130,134	8,815,675	41,380,555	7,862,305	2,321,720	603,647	65,832,409	17,281,627
	-5.00%					% Difference	-2.30%	-4.95%

Weather Adjustment for Heating	
Degree Day 2003/04	2319
Degree Day 2004/05	2252

The figures for the end of the financial year 2004/05 show a very encouraging 4.95% reduction in the total production of carbon dioxide from the consumption of energy compared with financial year 2003/04. This reduction is mainly due to a decrease in the electricity consumption, which was down by 5% as a result of a combination of the following actions:

- energy and environmental conservation Spend to Save programme.
- Energy Efficiency Initiative Fund, Invest to Save. (Funded by the Scottish Executive)
- active promotion of good housekeeping practices.
- energy saving contributions from improvements incorporated during refurbishments
- specification of low energy personal computers

Overall the gas and oil consumption figure has fallen slightly by 1.0% this can be attributed to schools which have been converted from electrical to either gas or oil heating using more efficient boiler plant.

Additional savings will be achieved through the fine adjustment of the heating set points of buildings to prevent the overheating beyond the previously adopted heating standards.

It is essential that these Spend to Save and Best Practice initiatives continue and achieve further reductions in CO₂ production to ensure that the Council can continue to fulfil its obligations regardless of any changes in the availability of green electricity and the risk that green electricity may become more expensive in the future. Over achieving the 12½% target will be of credit to the Council and help towards achieving the more demanding targets set by the Government.

See Appendix 1 for a breakdown of Table 1.

See Appendix 2 for the current status of the various CO₂ targets.

3 FINANCIAL IMPLICATIONS

There are no financial implications at this time.

4 HUMAN RIGHTS IMPLICATIONS

There are no Human Rights Act implications specific to this report.

Any implications, as a consequence of discharging recommendations detailed in this report, will be managed in accordance with the standing procedures and processes established by the Property Services department.

5 CONSULTATION

The Chief Executive, the Director of Law & Administration and the Acting Director of Finance have been consulted in the preparation of this report.

REFERENCES

<u>Committee</u>	<u>Date</u>	<u>Report No</u>	<u>Subject</u>
-	-	-	2003/2004 Final Revenue and Capital Budget Documents
Strategic Policy	24 June 2003	771/03	Environment and Quality of Life
Resources and Central Services	19 June 2003	742/03	Review of the Energy Management Unit
Policy and Resources	23 October 2001	1202/01	Energy Management updated strategy and future funding arrangements

APPENDICES

Appendix 1 Energy consumption & carbon dioxide production 2004/05 as at:- 31 March 2005.

Appendix 2 Current status of the various CO₂ targets.

BACKGROUND PAPERS

No background papers, as defined by Section 50D of the Local Government (Scotland) Act 1973 (other than any containing confidential or exempt information), were relied on to any material extent in preparing the above report.

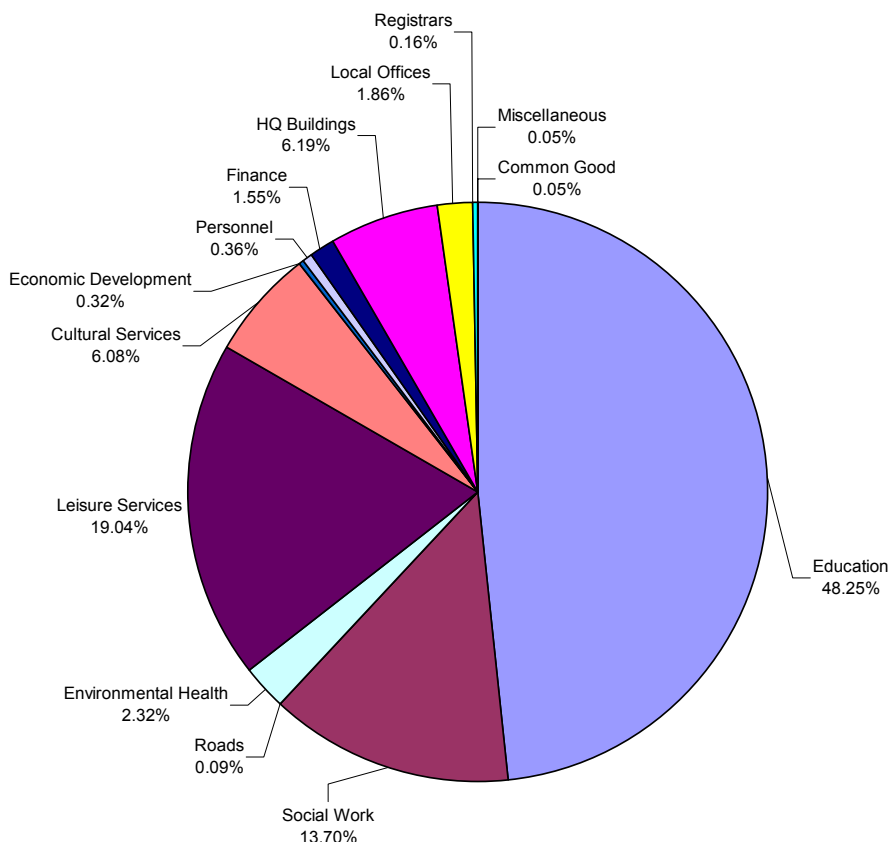
M G Lunny
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Appendix 1

Energy Consumption and carbon dioxide production 2004/05 as at:- 31 March 2005

Department	Electricity Consumption kWh	Green Electricity	CO2 kg	Gas Consumption kWh	CO2 kg	Oil Consumption kWh	CO2 kg	Total Consumption kWh	Total CO2 kg
Education	12,443,197	6,241,349	3,721,109	23,506,375	4,466,211	1,760,510	457,733	37,933,790	8,645,052
Social Work	2,539,808	0	1,523,885	4,500,351	855,067	288,449	74,997	7,367,907	2,453,948
Roads	26,203	0	15,722	0	0	0	0	25,616	15,722
Environmental Health	680,986	0	408,591	35,085	6,666	0	0	701,560	415,257
Leisure Services	3,848,134	490,860	2,014,365	7,347,591	1,396,042	0	0	11,266,578	3,410,407
Cultural Services	887,220	0	532,332	2,927,298	556,187	0	0	3,857,220	1,088,519
Economic Development	72,423	0	43,454	70,739	13,440	0	0	143,051	56,894
Personnel	107,462	0	64,477	0	0	0	0	105,054	64,477
Finance	316,807	0	190,084	461,921	87,765	0	0	781,504	277,849
HQ Buildings	1,746,797	705,134	624,998	2,075,532	394,351	342,003	88,921	4,169,561	1,108,270
Local Offices	427,413	0	256,448	399,966	75,994	0	0	826,352	332,442
Registrars	31,111	0	18,667	55,667	10,577	0	0	87,271	29,243
Miscellaneous	14,705	0	8,823	0	0	0	0	14,375	8,823
Common Good	14,090	0	8,454	0	0	0	0	13,774	8,454
Total	23,156,356	7,437,343	9,120,053	41,380,524	7,862,300	2,390,962	621,650	67,293,613	17,915,357

Percentage carbon dioxide production per department



Appendix 2 Current status of various CO2 targets

