

END OF YEAR REPORT ON THE ENVIRONMENTAL IMPACT OF THE ENERGY CONSUMPTION DURING 2003/2004

Abstract

This report presents the 2003/2004 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 2004 is detailed in Table 1.

Table 1 Overall Consumption and carbon dioxide production.

Year	Electricity		Gas		Oil		Total	Total
	kWh	kg of CO2	kWh	kg of CO2	kWh	kg of CO2	kWh	kg of CO2
Data at 31/03/2003	24,116,119	13,629,878	41,568,035	7,897,927	4,916,355	1,278,252	70,600,509	22,806,057
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
% Difference							-4.56%	-20.28%

Weather Adjustment

Degree Day 2002/03	2377
Degree Day 2004/05	2319
	-2.50%

The figures for the end of the financial year 2003/04 show a significant 20% reduction in the production of carbon dioxide from the consumption of energy compared with financial year 2002/03. This reduction is mainly due to the impact of green electricity, which substantially increased, in financial year 2003/04. Green electricity is in short supply and high demand. As a consequence it cannot be guaranteed that the Council will be able to maintain or increase the proportion of green electricity, due to market forces, when our supply contracts come due for renewal.

The underlying trend of CO₂ production, without the benefit of green electricity, demonstrates a continuing reduction, ~5% during financial year 2003/04, due to the effects of setting maximum heating temperatures, the adoption of good housekeeping practice supported by education and awareness and training programmes, Energy Spend to Save initiatives and the contributions from improvements to the energy efficiency of buildings when new build and major refurbishments are undertaken.

These initiatives have successfully compensated for the increase in CO₂ production previously reported as being created by the increase in use of electrical equipment, particularly computers, by the Council.

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. 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 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 2003/04 as at:- 31 March 2004.

Appendix 2 Current status of the various CO₂ targets.

BACKGROUND PAPERS

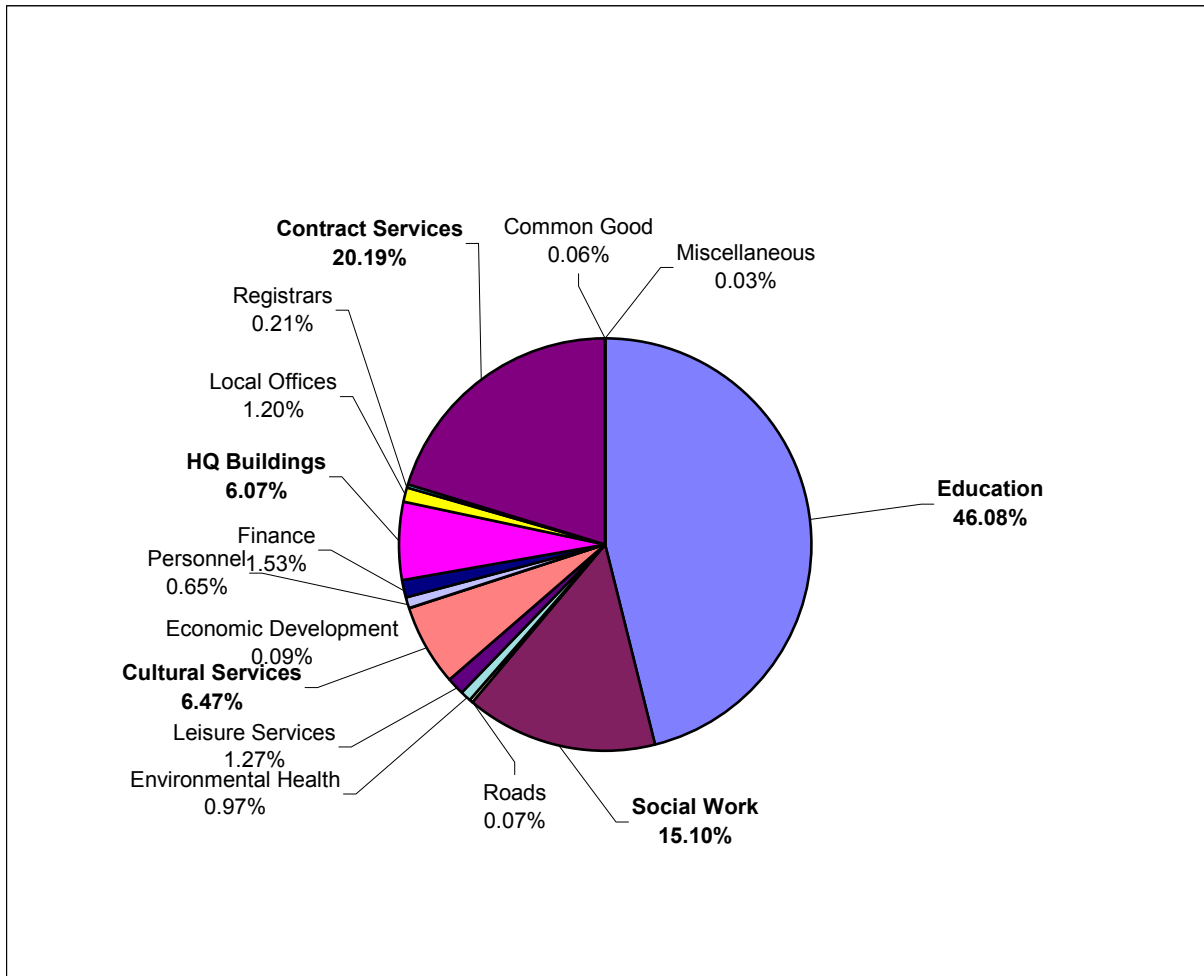
No background papers, as defined by Section 50D of the Local Government (Scotland) Act 1973 (other than any containing confidential or exempt information), were relied on to any material extent in preparing the above report.

M G Lunny
Director of Property Services

Appendix 1 Energy Consumption and carbon Dioxide production as at:- 31 March 2004

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	12,034,328	6,018,019	3,609,785	22,779,560	4,328,116	1,695,198	440,751	36,509,086	8,378,653
Social Work	3,311,627	0	1,986,976	3,458,587	657,132	389,194	101,190	7,159,408	2,745,298
Roads	20,481	0	12,289	0	0	0	0	20,481	12,289
Environmental Health	274,016	0	164,410	67,200	12,768	0	0	341,216	177,178
Leisure Services	645,740	521,098	74,785	826,123	156,963	0	0	1,471,863	231,749
Cultural Services	941,437	0	564,862	3,220,781	611,948	0	0	4,162,218	1,176,811
Economic Development	26,330	0	15,798	0	0	0	0	26,330	15,798
Personnel	175,664	0	105,398	64,165	12,191	0	0	239,829	117,590
Finance	314,626	0	188,776	469,506	89,206	0	0	784,132	277,982
HQ Buildings	1,709,443	692,420	610,214	2,199,317	417,870	293,517	76,314	4,202,277	1,104,398
Local Offices	226,563	0	135,938	435,027	82,655	0	0	661,590	218,593
Registrars	45,990	0	27,594	52,020	9,884	0	0	98,010	37,478
Contract Services	3,540,769	0	2,124,461	8,138,465	1,546,308	0	0	11,679,234	3,670,770
Miscellaneous	9,434	0	5,660	0	0	0	0	9,434	5,660
Common Good	18,430	0	11,058	0	0	0	0	18,430	11,058
Total	23,294,878	7,231,537	9,638,005	41,710,751	7,925,043	2,377,909	618,256	67,383,538	18,181,304

% Carbon dioxide production per department



Appendix 2 Current status of the various CO₂ targets

