AGENDA ITEM NO 14
REPORT NO 809/11

ANGUS COUNCIL
CORPORATE SERVICES COMMITTEE – 1 DECEMBER 2011

ENERGY CONSUMPTION AND CARBON DIOXIDE EMISSIONS (CRC) PROGRESS REPORT - MID YEAR 2011/2012

REPORT BY THE DIRECTOR OF CORPORATE SERVICES

ABSTRACT: This report presents the status of cumulative energy consumption and carbon dioxide emissions for the period up to 30 September 2011.

1. RECOMMENDATIONS

It is recommended that the Committee notes the contents of this report.

2. BACKGROUND

The Angus Council, at its meeting on the 17th September 2009, noted the contents of the report no: 665/09, MANAGING THE CLIMATE CHANGE (SCOTLAND) ACT 2009 AND CARBON REDUCTION COMMITMENT OBLIGATIONS, which detailed the progress achieved in preparing for the implementation of the Carbon Reduction Commitment (CRC) obligation and the implications of new and imminent legislation.

Report no: 668/10, THE ESTABLISHMENT OF MANAGEMENT ARRANGEMENTS TO FULFIL THE REQUIREMENTS OF THE CARBON REDUCTION COMMITMENT ENERGY EFFICIENCY ORDER 2010, noted and approved by the Strategic Policy Committee at its meeting of 07 September 2010, provided an update on the progress achieved in preparing Angus Council to participate fully in delivering the new legal duty introduced by the Carbon Reduction Commitment Energy Efficiency Order 2010 and recommended management arrangements for establishing and implementing continuing appropriate carbon reduction strategies.

Part of these new arrangements is a refocusing of performance from financial outturn for the corporate energy budget and associated environmental impact to the energy consumption and carbon dioxide emissions performance of the council currently comprising:

- Non-Housing Council properties
- Street lighting
- Housing communal areas and sheltered accommodation

Report no: 611/11, CORPORATE ENERGY CONSUMPTION AND CARBON DIOXIDE EMISSIONS REDUCTION TARGETS, noted and approved by the Strategic Policy Committee at its meeting of 06 September 2011, adopted the following Angus Council reduction targets:

- an annual corporate carbon dioxide emissions reduction target of 2.5% p.a. which has the potential to achieve a 22.5% reduction by 2020 when compared to a 2010/11 base
- an annual corporate energy consumption reduction (energy efficiency) target of 1.5% p.a. which has the potential to achieve a 13.5% reduction by 2020 when compared to a 2010/11 base

The profiles adopted for energy consumption and carbon dioxide emissions for street lighting and communal areas and sheltered accommodation in this report have been developed through monitoring during 2010/11 and are being refined during 2011/12 utilising the energy consumption and carbon dioxide emissions data gathered during the year. This will enable the profiles to become more representative for 2012/13 and future years.
Re-accreditation to the Carbon Trust Standard is currently underway. The submission by Angus Council has expanded the footprint to incorporate additional sources of carbon dioxide emissions from street lighting and business mileage (cars, trains and aeroplanes). Fugitive emissions, those created by landfill sites and refrigerant gases, have also been incorporated but these have minimal impact. There remains scope to incorporate, in the future, Angus Council performance in respect of Housing communal areas and sheltered accommodation as well as staff Home to Office mileage.

3. CURRENT POSITION

Monitoring development

The footprint year (baseline) for carbon dioxide emissions reduction performance measurement in accordance with the CRC Energy Efficiency Scheme Order 2010 is financial year 2010/11. Angus Council has submitted its Footprint Report to the Environment Agency and as a consequence all future performance, within the CRC Scheme, will be measured against this baseline.

This has been recognised and accommodated through the energy consumption and carbon dioxide emissions reduction targets adopted by Angus Council and now incorporated within this report as well as the associated single outcome agreement performance indicators.

The energy consumption and carbon dioxide emissions budgets for 2011/12 have been prepared on the basis of:-

- the respective outturns for the 2010/11 Financial Year
- any adjustments (minimal) necessary as a consequence of changes in the Council’s non-housing estate
- any adjustments necessary as a consequence of additional information provided by the Housing division in 2011/12 identifying increases for Housing communal areas and sheltered accommodation
- any adjustments necessary as a consequence of additional information provided by the Roads division in 2011/12 identifying increases for street lighting

In the latter regard, adjustment has been made as a consequence of the guidance detailed in Report No: 568/11 regarding the impact on energy consumption resulting from the move from the existing unmetered supply arrangements for street lighting to “passive half hour” supply arrangements and the consequential anticipated 5.6% increase in energy consumption.

Mid-year progress overall and for the individual sources are detailed in Appendix 1 both on a cumulative and monthly basis. The respective contributions to the overall budgets made by these three sources of energy consumption and carbon dioxide emissions are detailed in Appendix 2 of this report.

The respective profiles are based upon the consumptions and associated emissions performance data gathered during 2010/11 and are considered reliable for the non-housing Council properties source. However the profiles for street lighting and communal housing are less reliable due to the changes in consumption identified in 2011/12.

These latter profiles are being refined during 2011/12 utilising the energy consumption and carbon dioxide emissions data gathered during the year. This will enable the profiles to be refined to be more representative for 2012/13 and future years. This omission does not invalidate the progress being reported.

The data available for street lighting is now based on the actual hours of use and monthly consumption will vary according to the time of year.

Whilst the energy consumptions and carbon dioxide emissions from street lighting make a significant contribution to Council performance this is much less the case for communal areas and sheltered housing.
Performance
The mid-year position clearly indicates steady progress in maintaining reduced energy consumption and carbon dioxide emissions overall and that the respective target reductions of 1.5% and 2.5% are likely to be achieved subject to the impact of the winter period should it be more severe than that for 2010/11.

This achievement is solely due to the non-housing Council properties source. The street lighting and Housing communal areas and sheltered accommodation sources are over consuming and over emitting, compared to 2010/11, for the reasons detailed in this report.

4. RISK
This report does not require any specific risk issues to be addressed.

Under the CRC Energy Efficiency Scheme Order 2010, failure to achieve satisfactory progress in reducing carbon dioxide emissions will result in the risks of:-

- Higher than intended carbon allowance purchases
- Reputational impact of poor performance in the CRC Scheme league table

5. FINANCIAL IMPLICATIONS
There are no financial implications directly associated with the recommendations contained in this report.

6. 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 Division.

7. EQUALITIES IMPLICATIONS
The issues dealt with in this Report have been subject of consideration from an equalities perspective (as required by legislation). An equalities impact assessment is not required.

8. ANGUS COMMUNITY PLAN AND SINGLE OUTCOME AGREEMENT
This report contributes to the following local outcome contained within the Angus Community Plan and Single Outcome Agreement 2011-14:-

- Our carbon footprint is reduced

9. CONSULTATION
The Chief Executive, the Director of Neighbourhood Services, the Director of Infrastructure Services, the Head of Law and Administration, and the Head of Finance have been consulted in the preparation of this report.

REFERENCES

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<td>Corporate Services</td>
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<td>Strategic Policy</td>
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<td>The Establishment of Management Arrangements to Fulfil the Requirements of the Carbon Reduction Commitment Energy Efficiency Order 2010.</td>
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NOTE: 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.
Appendix 2  Energy Consumption and Carbon Dioxide Emissions – Sources

Figure 1 Energy Consumption

- Non-Housing Estate: 82%
- Communal Areas & Sheltered Housing: 7%
- Street Lighting: 11%
Figure 2 Carbon Dioxide emissions

Carbon Dioxide emissions

- Street Lighting: 19%
- Communal Areas & Sheltered Housing: 6%
- Non-Housing Estate: 75%