

PERTH AND KINROSS COUNCIL

Property Sub Committee

5 November 2014

Energy Consumption in Council Buildings

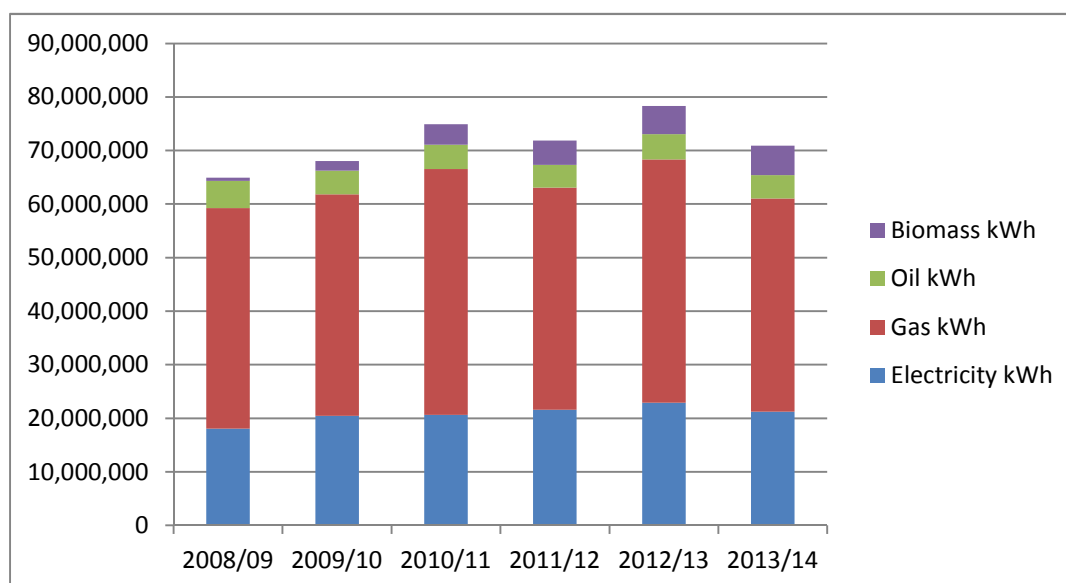
Depute Director (Environment)

This report updates the Property Sub Committee on the first quarter position with regard to energy consumption within the property portfolio. It focuses on the recent management initiatives and monitoring arrangements in place to deliver energy saving projects.

1. BACKGROUND

2008 – 2014 Energy Consumption

- 1.1 The following graph and accompanying table shows the Council's energy consumption over the last six financial years.



	Electricity	Gas	Oil	Biomass	Total (kWh)	Increase/Decrease (from previous year)
2008/09	18,063,485	41,188,458	5,089,600	580,000	64,921,543	
2009/10	20,442,243	41,406,192	4,376,511	1,792,450	68,017,396	5%
2010/11	20,620,207	45,925,330	4,529,833	3,822,830	74,898,200	10%
2011/12	21,619,570	41,477,850	4,238,539	4,512,450	71,848,409	(4%)
2012/13	22,899,349	45,406,460	4,765,773	5,254,730	78,326,312	9%
2013/14	21,227,338	39,796,293	4,411,530	5,456,245	70,891,406	(9%)

- 1.2 The graph and accompanying table shows that during the period 2008/09 – 2012/13, electricity consumption increased by 27%, gas consumption by 10% and total consumption by 21%.
- 1.3 The increase in consumption over the period from 2008/09 until 2013/14, is primarily due to the increase in the estate and in particular the commissioning of six new schools under the Investment in Learning initiative.
- 1.4 The consumption figures for 2013/14, shows a decrease in total consumption from the previous year of 9%. This is primarily due to less gas (the Council's primary source of heating) being consumed as the result of last winter being relatively mild.
- 1.5 The total increase in energy consumption during the review period has had the effect of increasing the Council's carbon emissions for energy from 18,600 tonnes of CO₂ (in 2008/09) to 20,000 tonnes of CO₂ (2013/14). Linked to 1.3 above, 2013/14 consumption was lower than the 22,000 tonnes produced in 2012/13.
- 1.6 The resultant increase in energy consumption, and therefore a consequential increase in CO₂ emissions, means that the Council is required by legislation to pay a Carbon Reduction Energy Efficiency Scheme Levy, which is £400k for 2013/14, for which there is a separate budget.

2. 2014/15

Energy Use to Date

- 2.1 The summary below, however, compares the available current data i.e. the first quarter of this financial year (April-June 2014) with a similar period in 2013/14.

Utility Type	2013/14 kWh	2014/15 kWh	Difference	%
Electricity	5,767,010	5,438,855	-328,155	-6%
Gas	8,276,643	6,898,251	-1,378,392	-17%
Oil	1,148,264	833,462	-314,802	-27%
Biomass	1,144,250	1,075,890	-68,360	-6%
Total	16,336,167	14,246,458	-2,089,709	-13%

- 2.2 The figures show an overall decrease in total energy consumption from 2013/14 of 13%, with the most significant decrease being in the consumption of gas, which shows a significant decrease of 17%. The second quarter's data will become available in November, and will be reported to a future meeting of the Committee.

- 2.3 This decrease is due to the Property Energy Team adopting a more pro-active role in controlling heating within the estate, including, from April 2014, a reduction in building temperatures (where this can be controlled through our building management software) to a maximum of 20 degrees C, with the exception of Residential Homes for the Elderly (RHEs) and nurseries.
- 2.4 It is intended that the increased roll-out of building management software; (eight buildings are programmed for upgrade this current year), with further installations or up-grades planned for next year, will assist the Energy Team in achieving further reductions in heating costs in the coming year, along with a consequential reduction in the Carbon Reduction Energy Efficiency Scheme Levy .

Energy Projects

- 2.5 For financial year 2014/15, Property Services' Energy Team's budget for energy conservation projects, for 2014/15 is £856,000.
- 2.6 The projects include the following main types of energy conservation measures:
- Lighting upgrades
 - Fitting of improved heating controls
 - Roof insulation
 - Feasibility for the installation of solar panels
- 2.7 The Photovoltaic project is currently about to be tendered with installations planned on the following properties (subject to the tendered prices meeting reasonable payback criteria):
- Our Lady's Primary School
 - Beechgrove RHE
 - Blairgowrie High
 - Auchterarder High
 - Parkdale RHE
 - Dalweem RHE
 - Perth High School
 - 2 High Street
 - Carpenter House

3. CONCLUSION AND RECOMMENDATIONS

- 3.1 This monitoring reflects the current position within 1st quarter of 2014/15. However, as this reflects potentially the least energy consumption, the winter months will obviously have a greater heating load which will be reported on at a later date.

3.2 The Property Sub Committee is asked to:

- i. Note the progress of the energy management team in reducing consumption and delivering energy saving projects to the Council estate.
- ii. Request further information in due course about progress on energy management.

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1. IMPLICATIONS, ASSESSMENTS, CONSULTATION AND COMMUNICATION

Strategic Implications	Yes / None
Community Plan / Single Outcome Agreement	Yes
Corporate Plan	Yes
Resource Implications	
Financial	None
Workforce	None
Asset Management (land, property, IST)	None
Assessments	
Equality Impact Assessment	Yes
Strategic Environmental Assessment	None
Sustainability (community, economic, environmental)	Yes
Legal and Governance	None
Risk	None
Consultation	
Internal	None
External	None
Communication	
Communications Plan	None

1. Strategic Implications

Community Plan / Single Outcome Agreement

1.1 The Perth and Kinross Community Planning Partnership (CPP) brings together organisations to plan and deliver services for the people of Perth and Kinross. Together the CPP has developed the Perth and Kinross Community Plan which outlines the key things we think are important for Perth and Kinross.

- i) Giving every child the best start in life
- ii) Developing educated, responsible and informed citizens
- iii) Promoting a prosperous, inclusive and sustainable economy
- iv) Supporting people to lead independent, healthy and active lives
- v) Creating a safe and sustainable place for future generations

1.2 It is considered that the actions contained within this report contribute to objective v.

Corporate Plan

- 1.3 The Council's Corporate Plan 2013-2018 outlines the same five objectives as those detailed above in the Community Plan. These objectives provide a clear strategic direction, inform decisions at a corporate and service level and shape resource allocation. It is considered that the actions contained in the report contribute to the objectives as outlined in paragraph 1.2 above.

2. Resource Implications

Financial

- 2.1 This report has no additional financial resource implications.

Workforce

- 2.2 This report has no specific workforce implications.

Asset Management (land, property, IT)

- 2.3 This report has no specific asset management implications.

3. Assessments

Equality Impact Assessment

- 3.1 Under the Equality Act 2010, the Council is required to eliminate discrimination, advance equality of opportunity, and foster good relations between equality groups. Carrying out Equality Impact Assessments for plans and policies allows the Council to demonstrate that it is meeting these duties.
- 3.2 This section should reflect that the proposals have been considered under the Corporate Equalities Impact Assessment process (EqIA) with the following outcome:
- (i) Assessed as **not relevant** for the purposes of EqIA.

Strategic Environmental Assessment

- 3.3 Strategic Environmental Assessment (SEA) is a legal requirement under the Environmental Assessment (Scotland) Act 2005 that applies to all qualifying plans, programmes and strategies, including policies (PPS). The proposals have been considered under the Act and no further action is required as it does not qualify as a PPS as defined by the Act and is therefore exempt.

Sustainability

- 3.4 Under the provisions of the Local Government in Scotland Act 2003 the Council has to discharge its duties in a way which contributes to the achievement of sustainable development. In terms of the Climate Change Act, the Council has a general duty to demonstrate its commitment to sustainability and the community, environmental and economic impacts of its actions.
- 3.5 The proposals contained within the report are assessed to have a positive impact on sustainability, particularly with regard to reducing energy use.

Legal and Governance

- 3.5 This report has no legal or governance implications.

Risk

- 3.7 This report has no significant risk implications.

4. Consultation

Internal

- 4.1 The Head of Legal Services, Head of Finance and the Head of Democratic Services have been consulted with this report.

External

- 4.2 Not applicable.

5. Communication

- 5.1 Not applicable.

2. BACKGROUND PAPERS

None.

3. APPENDICES

None.

