



Renfrewshire Council

To: Infrastructure, Land & Environment Policy Board

On: 24th January 2018

Report by: Director of Finance & Resources

**Heading: Renfrewshire Council Carbon Management Plan 2014/15 –
2019/20, Update 2016/17**

1. Summary

- 1.1. Reducing Carbon Emissions is one of the principle measures to address climate change and is a key priority for all Local Authorities.
- 1.2. The Carbon Management Plan was approved by the Planning & Property Policy Board on 11th November 2014. The Plan sets a target reduction of 36% carbon emissions from the 2012/13 baseline by March 2020. This covers a number of sectors across the Council.
- 1.3. This Report provides an update on the achievements of the Carbon Management Plan.

2. Recommendations

- 2.1 It is recommended that the Infrastructure, Land and Environment Policy Board note the Report.
-

3. Background

- 3.1 Renfrewshire Council recognises that climate change will have far reaching effects on Renfrewshire's economy, its people and its environment and is determined to lead by example in tackling the causes of climate change.
- 3.2 The Carbon Management Plan (CMP), quantifies the Councils CO₂ emissions from an established baseline for the financial year 2012/13. In the baseline year 2012/13 the Council generated carbon emissions of 53,515 tonnes of CO₂ from buildings, fleet, waste, street lighting and staff travel.
- 3.3 The Council identified a target to reduce these carbon emissions by 36% by March 2020, which equates to 19,397 tonnes of CO₂ over the same period. All services contribute to the achievement of the carbon reduction targets.
- 3.4 The programme of carbon reduction activities contained within the Plan not only deliver carbon reductions in line with the Climate Change Declaration and deliver significant cost savings for the authority, but also positions the council well for the Carbon Reduction Commitment (CRC) – Energy Efficiency Scheme. The CRC Energy Efficiency Scheme is a mandatory UK scheme aimed at improving energy efficiency and cutting carbon dioxide emissions in large public and private sector organisations.
-

4. Update

- 4.1 As detailed in the CMP, Renfrewshire Councils 2019/20 target equated to a reduction of 36% from the baseline position. Current progress after 2016/17 shows a reduction of 34.7%, considerably more than anticipated.
- 4.2 A full breakdown of the target is provided below:

	2012-13 Baseline	2016-17 Actual	2016-17 Actual
	CO2 Emissions (tonnes)	CO2 Emissions (tonnes)	% Reduction
Electricity (buildings)	12,505	9,280	25.8%
Gas (buildings)	14,479	8,123	43.9%
Oil (buildings)	1,735	432	75.1%
Water (buildings)	395	354	10.4%
Transport (Council Fleet)	3,521	3,730	-5.9%
Street Lighting	7,016	5,191	26.0%
Waste	13,348	7,289	45.4%
Staff Mileage	516	527	-2.1%
Total CO2	53,515	34,926	34.7%

- 4.3 This target has been achieved through a variety of measures, including:

1. Building Management Systems and plant room controls have been installed to provide a greater control over the operation of our heating systems within public buildings and provides remote access to the majority of our larger consuming properties.
2. Photovoltaic Panels have been installed on the roofs of a number of buildings with further installations due in 2017/18. Installations have been undertaken to date at the following buildings:

Castlehead HS,	Gryffe HS,
Johnstone HS,	Trinity HS,
Renfrew HS,	Parkmains HS,
Montrose Care Home,	Renfrew Care Home,
Weaver Linn Respite,	Hunterhill Care Home,
St James PS,	Johnstone Town Hall,
Houston PS,	St Peters PS,
Williamsburgh PS,	St Charles PS,
Ralston PS,	St Marys PS,
West PS,	Heriot PS

3. Boiler upgrades have been installed at St Catherine's PS, St Fillans PS. and Wallace PS. During the 2017/18 summer holidays, boilers have been replaced at Houston PS, Our Lady of Peace PS, the Anchor Centre and Auchenlodment PS with future years benefiting from the savings.
4. Oil to Gas Boiler Conversion in Brediland PS. Work is currently underway to replace the oil boilers at Underwood Rd with highly efficient gas boilers.
5. Biomass Boiler complete at Rivebrae School and Mossvale/St James PS.
6. Carbon emissions from the councils transport fleet increased due to an increased number of vehicles being purchased. However, the council has achieved its target to provide 5% of its fleet from electric vehicles.
7. The diversion of waste from landfill has greatly reduced the tonnage of carbon from waste and is presently exceeding target by creating energy from waste through combustion.
8. The council have invested on the replacement of our street lighting with energy efficient LED's. This has resulted in significant reductions in electricity consumption and carbon emissions. It should be noted that the savings for 2016/17 are part year savings as the installation programme

was ongoing throughout the year. As such, full year savings for 2017/18 will see a greater reduction in electricity/CO2.

9. Water consumption has reduced through the installation of automatic meters that highlight increased consumption and possible bursts alerts to help minimise water wastage.
-

Implications of the Report

1. **Financial** – The Energy Investment Fund is used to implement initiatives within our public buildings. Reducing our energy consumption will result in lower fuel costs (although, this is dependent on the utility tariffs agreed through the Scottish Procurement Contract).
 2. **HR & Organisational Development** – *none*
 3. **Community Planning** - *the Carbon Management Plan will reduce carbon emissions.*
 4. **Legal** - *none*
 5. **Property/Assets** - Projects were identified and implemented throughout our public buildings portfolio.
 6. **Information Technology** - *none*
 7. **Equality & Human Rights** - *none*
 8. **Health & Safety** - *none*
 9. **Procurement** - *none*
 10. **Risk** - *none*
 11. **Privacy Impact** - *none*
-

List of Background Papers

- (a) Background Paper 1 – Carbon Management Plan 2014/15 – 2019/20

The foregoing background papers will be retained within Development & Housing Services for inspection by the public for the prescribed period of four years from the date of the meeting. The contact officer within the service is Craig Doogan, Energy Manager, Tel. 0141-618 6198, e-mail address: craig.doogan@renfrewshire.gov.uk.

Author: Craig Doogan
0141 618 6198
Craig.Doogan@renfrewshire.gov.uk