

To: Greener Renfrewshire Thematic Board

On: 7th November 2016

**Report by:
Director of Finance & Resources**

Renfrewshire Council Carbon Management Plan 2014/15 – 2019/20, Update 2014/15

1. Summary

Reducing Carbon Emissions is one of the principle measures to address climate change and is a key priority for all Local Authorities.

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.

This Report provides an update on the achievements of the Carbon Management Plan.

2. Recommendations

That the Report be noted.

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 53,514 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 2015/16 shows a reduction of 20.4%, considerably more than anticipated.
- 4.2 A full breakdown of the target is provided below:

	2012-13 Baseline	2015-16 Actual	2015-16 Actual
	CO2 Emissions (tonnes)	CO2 Emissions (tonnes)	% Reduction
Electricity (buildings)	12,505	11,021	11.9%
Gas (buildings)	14,479	10,488	27.6%
Oil (buildings)	1,735	451	74.0%
Water (buildings)	395	387	2.0%
Transport (Council Fleet)	3,521	3,534	-0.4%
Street Lighting	7,016	7,204	-2.7%
Waste	13,348	9,038	32.3%
Staff Mileage	516	488	5.4%
Total CO2 Actual	53,515	42,611	20.4%

The transport (council fleet) figure was updated to reflect more accurate baseline data.

- 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 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.
4. Oil to Gas Boiler Conversion in Brediland PS. Building Services have recently completed the installation of new gas boilers at Howwood PS.
5. Biomass Boiler complete at Bridge of Weir PS and St Anthony's PS.
6. Hot water energy efficiency equipment has been installed throughout our estate to reduce gas consumption caused by inefficiently running the secondary pumps when not required. This has resulted in significant gas savings.
7. LED external lighting has been installed in all our PPP school car parks and external lighting.
8. The council has achieved its target to provide 5% of its fleet from electric vehicles.
9. New and cleaner fossil fuelled cars
10. 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.
11. The street lighting consumption has increased from the baseline year. However, an acceleration of the LED replacement programme has been agreed and commenced at the start of 2016 and is due for completion in May 2017.
12. Water consumption increased on the baseline year and reduced on the previous year. This is due to 1 major water burst which has since been repaired.

- 4.4 A multi-disciplinary Working Group within Property Services has been created with a view to reviewing and updating the Sustainable Building Design Guide that forms part of the Carbon Management Plan Appendix. The updated guide will be complete and included in the next CMP update report.

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