

To: Infrastructure, Land & Environment Policy Board

On: 23 January 2019

Report by: Director of Finance & Resources

**Heading: Renfrewshire Council Carbon Management Plan 2014/15 – 2019/20,
Update 2017/18**

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.
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2 Recommendations

- 2.1 It is recommended that the Infrastructure, Land and Environment Policy Board note the Report.
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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. Renfrewshire Councils Climate Change Declaration for 2017/18 was approved at the Infrastructure, Land & Environment Policy Board on 7th November 2018. 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 2017/18 shows a reduction of 45.5%, considerably more than anticipated.
- 4.2 A full breakdown of the target is provided below:

	2012-13 Baseline CO2 Emissions (tonnes)	2017-18 Actual CO2 Emissions (tonnes)	2017-18 Actual % Reduction
Electricity (buildings)	12,505	8,018	35.9%
Gas (buildings)	14,479	8,584	40.7%
Oil (buildings)	1,735	55	96.9%
Water (buildings)	395	392	0.8%
Transport (Council Fleet)	3,521	3,652	-3.7%
Street Lighting	7,016	2,136	69.6%
Waste	13,348	5,863	56.1%
Staff Mileage	516	448	13.2%
Target	53,515	48,107	10.1%
Total CO2 Actual	53,515	29,148	45.5%

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. 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,	Houston PS,
St Peters PS,	Heriot PS
Williamsburgh PS,	St Charles PS,
Ralston PS,	St Marys PS,
West PS,	St Pauls PS
Inchinnan PS,	

3. Boiler upgrades have been installed at Houston PS, Our Lady of Peace PS, the Anchor Centre and Auchenlodment PS with future years benefiting from the savings.
4. LED internal lighting has been installed at Bridge of Weir PS, East Fulton PS, St Catherine's PS and St Anne's PS.
5. Work has been complete to replace the oil boilers at Underwood Rd with highly efficient gas boilers.
6. Biomass Boilers complete at St Fergus PS and St Pauls PS.
7. Carbon emissions from the council's transport fleet increased on the baseline. However, the figure reduced when compared to the previous year, partly 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.
8. 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.

9. 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.
10. Water consumption has reduced from the baseline. However, the 2017/18 consumption increased on the previous year due to some burst pipes. The overall reduction from the baseline is largely 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*
 12. **Cosla Policy Position** - *none*
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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.

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