M E M O

TO:	Elected members
FROM:	Tania Parata
DATE:	19th December 2017
SUBJECT:	Council's emission reduction rate programme

Introduction

During recent activity workshops for the 2018 Long Term Plan, elected members sought more information regarding Council's carbon and energy management functions. Council's CEMARS certification has recently (19/12/2017) been confirmed, and the organisation's Energy Management and Reduction Plan (EMRP) has also recently been approved.

This memo sets out how the work involved in CEMARS certification, and the EMRP, relate to Council's activities and how they can (if confirmed through the 2018 LTP) result in ongoing improvements in carbon and energy management.

The Council has a number of roles in supporting environmental sustainability. Not only is the Council a regulator and protector of the natural environment, it is an enabler and provides opportunities for climate mitigation through community development/led initiatives. The Council is also an award winning organisation that works hard to reduce its carbon footprint.

Background - timeline

- 2003 - the Council signed a MoU with ECCA to become an energy wise Council,
- 2004 - The Council joined the Cities for Climate Protection NZ which required Council to measure GHG (Green House Gases) emissions and report them along with plans and progress to reduce emission rates.
- 2009 –the Council adopted an energy policy to provide a framework for energy saving projects
- 2011 - Council committed to becoming CEMARS certified (Carbon Emissions Measurement and Reduction Scheme) as a way of formally committing to increasing Council's renewable energy supply and reducing our fossil fuel use.
- 2012 CEMARS certification achieved (and maintained since)
- 2014 Green Ribbon Awards x 3 "Reducing our greenhouse gas emissions", "Public sector award", "Community award"
- 2017 Environmark Award – overall winner "Outstanding performance in carbon management, large organisation"

Summary - Carbon and Emission reduction programme report 2016/17

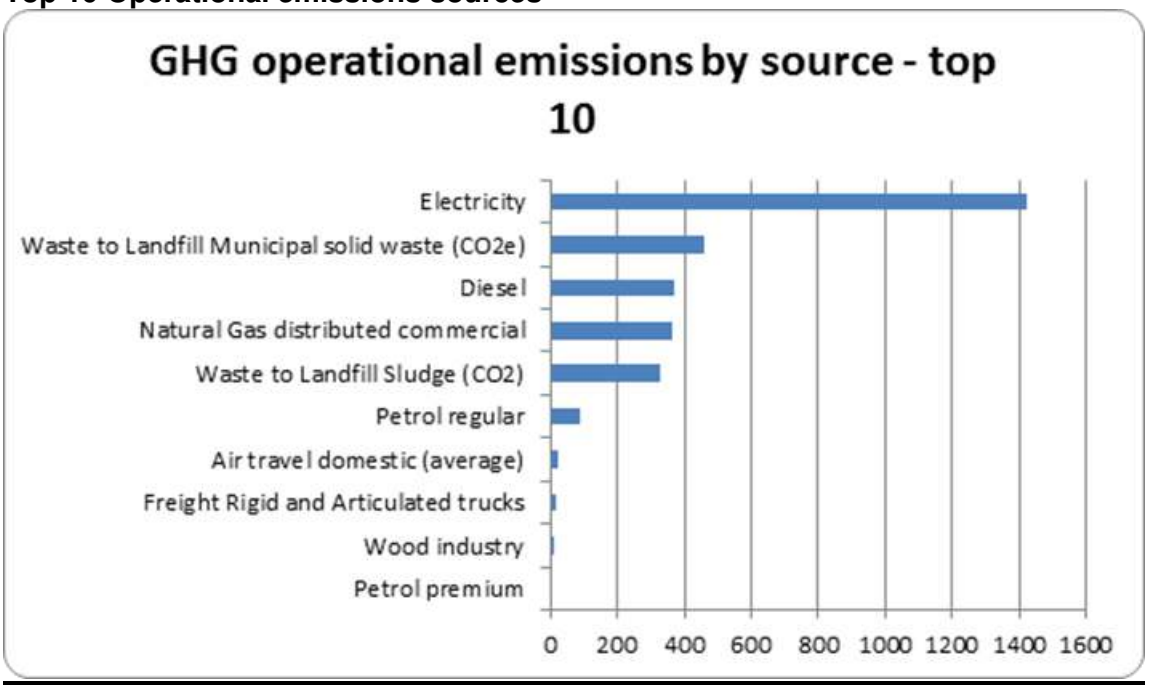
The following summary highlights the Council's emission reduction programme. A full report is attached.

Council has measured GHG emissions with a 2010 baseline. This baseline is used for CEMARS and helps Council implemented a programme to contribute to an overall 80% emissions reduction target by 2022:

Target for emissions reduction = on track

- 56% reduction achieved last year (2016)
- Approximately 75% for 2017, mostly due to sewage sludge disposal to Silverstream Landfill which has a gas capture system.

Top 10 Operational emissions sources



- Electricity use produces 3x more emissions than any other Council activity

Current Projects

The Council's long term goal is to reduce council's net emission of Green House Gases to zero, to do this requires continued targeted action to reduce fossil fuel use; Council has one major project to reduce emissions:

- **Convert streetlights to LED 2018-2021 = total 58% savings compared to current use**

Future projects - 2018 and beyond

Recently, a local group called Low Carbon Kāpiti presented to Council and provided a one page outline of potential projects that would help Council reach its low emissions target. Going forward this information will inform a work programme for the emission reduction rate programme that will be adopted through the Council's Long term plan process; these are outlined below along with a status report on each project.

Possible future projects for 2018 Long term plan – not confirmed

Project	Status report	2018/19/20
Complete LED streetlights programme	Ōtaki (400 completed) Waikanae (majority) Paekākāriki	Total of 1900 upgrades to occur in the next 2 – 3 years
Renewable heat pumps at Ōtaki and Waikanae	Feasibility study has been completed - to be weighed up against costs and practicability	
*EV first Policy GWRC • Attached as Appendix 2	Spark partnership installing EV charging infrastructure One EV council fleet	Look at conversion policy for Council's fleet over the next 3 – 5 years.
Carbon forests and Council land	Further investigation required to implement	Investigative work in 2018/19 - Possible manuka replanting on farmland to offset the inundation of 10ha of forest by the Maungakotukutuku Dam
Other initiatives –business case required to assess the opportunities to implement in the next 3 years. - Energy efficiency improvements in buildings and at treatment plants - Solar panels on buildings and at treatment plants - Establish other areas of forest - Seek lower-emissions disposal routes for solid waste - E bikes for staff		

Attachments

Appendix 1: Council Carbon and Emission reduction programme 2016/17
Appendix 2: Summary of key points in GWRC EV first policy document