

Summary of CEMARS[®] certification:



Auckland War Memorial Museum

Auckland War Memorial Museum meets the requirements of CEMARS[®] certification having measured its greenhouse gas emissions in compliance with ISO 14064:1 2006, and committed to managing and reducing its emissions in respect of the operational activities of its organisation.



Introduction¹ – The Auckland War Memorial Museum is New Zealand’s first museum, established in 1852, and it has occupied the current site since 1929. The primary functions of the museum is for storage of collections, providing visitor experiences via exhibits, and conducting and supporting research. The Auckland War Memorial Museum is dedicated in reducing its carbon footprint and has engaged in numerous systems to monitor and record energy and resource usage.

Boundary – the diagram below shows the organisational structure used for describing Auckland War Memorial Museum greenhouse gas (GHG) emissions inventory, and what business units were included in the CEMARS[®] certification.

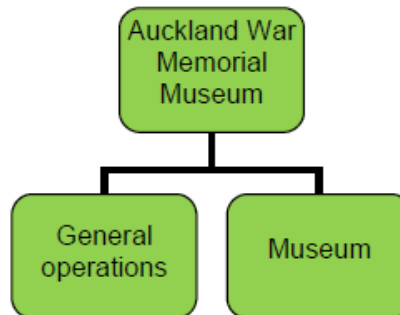


Figure 1: Auckland War Memorial Museum structure.

Base year – 01/01/2010 to 31/12/2010.

Measurement period – 01/01/2010 to 31/12/2010.

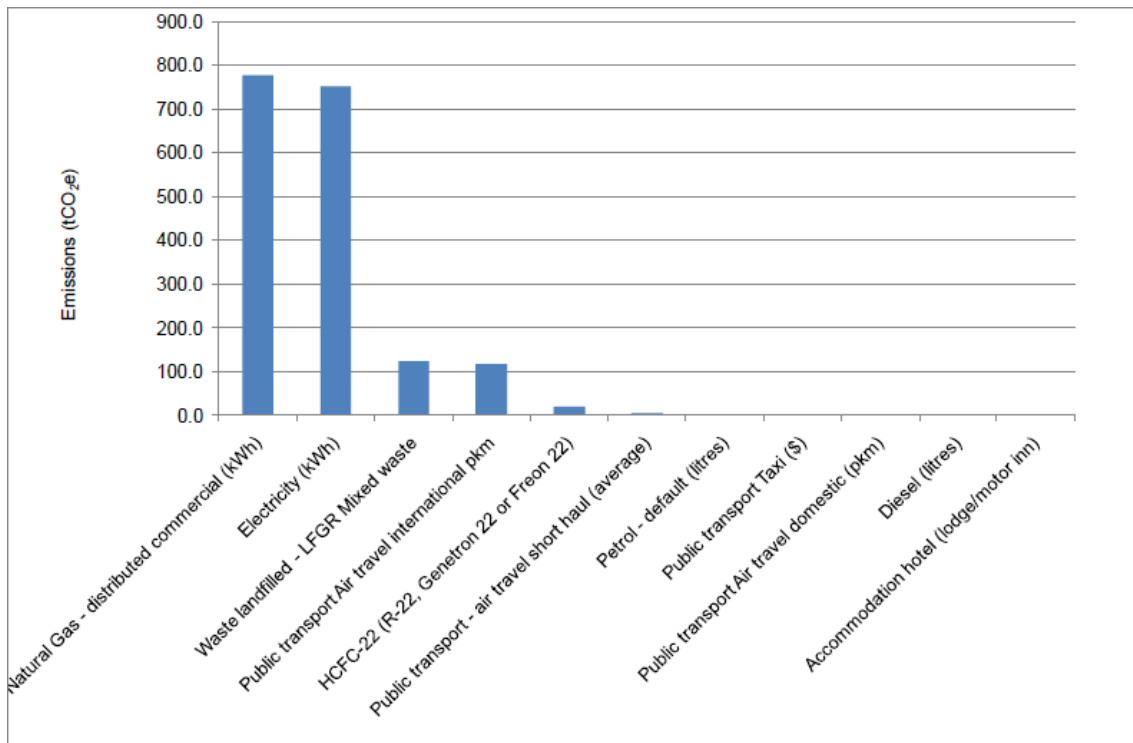
Emissions source inclusions – the diagram below shows the operational GHG emissions for Auckland War Memorial Museum by emissions source. Auckland War Memorial Museum total emissions for this period were 1805.66 tonnes carbon dioxide equivalents (CO₂e) comprising 806.85 tonnes CO₂e Scope 1, 751.23 tonnes CO₂e Scope 2 and 247.58 tonnes CO₂e Scope 3 emissions

¹ **Disclaimer:** This Disclosure Statement is a summary of the verified information considered for certification and the certification decision. It should not be taken to represent the full submission for certification. While every effort has been made to ensure that the information in this Disclosure Statement is accurate and complete, Landcare Research does not, to the maximum extent permitted by law, give any warranty or guarantee relating to the accuracy or reliability of the information.

Summary of CEMARS® certification:



Auckland War Memorial Museum



Emissions source exclusions – the emissions sources in Table 1 have been identified and excluded from the GHG emissions inventory.

Table 1. Excluded emissions

Business unit	GHG emissions source	GHG emissions level scope	Reason for exclusion
Museum	Ethanol	1	This is used for preserving some exhibits but is not in large volumes and it there is not combustion of the fuel so therefore no emissions.
Museum	CO ₂ held and released from fire extinguishers	1	One fire extinguisher was used during this reporting period however this would have been <i>de minimis</i> .
Auckland Museum - General operations	Rental car - default	1	Initial estimates (see appendix 2) indicate that this would be less than 1%
Auckland Museum - General operations	Reimbursed staff vehicle travel	3	Initial estimates (see appendix 2) indicate that this would be less than 1%
Auckland Museum - General operations	Postage and couriers	3	Initial estimates (see appendix 2) indicate that this would be less than 1%
Museum	Specimens held in warehouse off site	3	A wet fish collection is stored offsite. This is only comprised of ~20 specimens and following discussions with Karl Satchel, it is only a standard warehouse i.e. no special temperature control, lighting or other. Therefore emissions (which would only be from a small portion of shared electricity use) are excluded from this inventory on the basis that they will be less than 1%.

Summary of CEMARS[®] certification:



Auckland War Memorial Museum

Emissions reduction commitments – Auckland War Memorial Museum has developed a GHG emissions reduction plan. Some projects in this plan include:

- 1) Optimising HVAC control strategy to reduce Electrical and Gas consumption
- 2) CO₂ Control on HVAC equipment implemented, ensuring the balance between ‘free-cooling’, re-circulated air and environment quality is maintained.
- 3) Software and metering installed to monitor buildings entire energy use on a day to day, hour by hour basis.

Verified by – Asurequality

Threshold of materiality – Excluded emissions do not exceed 5% of the total footprint for organisation stated.

Level of assurance – Reasonable

Certification status – CEMARS certified “organisation”

Certificate number – 2011095J

Valid until – 30 April 2014

Auckland Museum - Tamaki Paenga Hira. The Domain, Private Bag 92018, Auckland 1142, New Zealand.
Tel: +64 9 309 0443. Email: info@aucklandmuseum.com Web: www.aucklandmuseum.com