

Summary of CEMARS® certification:



Antarctica New Zealand Disclosure 2 of 3 year certificate period

Antarctica New Zealand 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 emissions of its organisation including Scott Base.



Introduction¹ – Antarctica New Zealand is the Crown Entity responsible for developing, managing and executing New Zealand Government activities in Antarctica and the Southern Ocean, in particular the Ross Dependency. Antarctica New Zealand provides for New Zealand a permanent presence in Antarctica through the operation of Scott Base, New Zealand's Antarctic research station.

Boundary – Figure 1 below shows the organisational structure used for describing the organisation's greenhouse gas (GHG) emissions inventory, and what business units were included in the inventory in the context of the entire organisational profile. The parts of the structure (business units) in green have been identified as being within this emissions inventory. There were no business units excluded in this inventory.

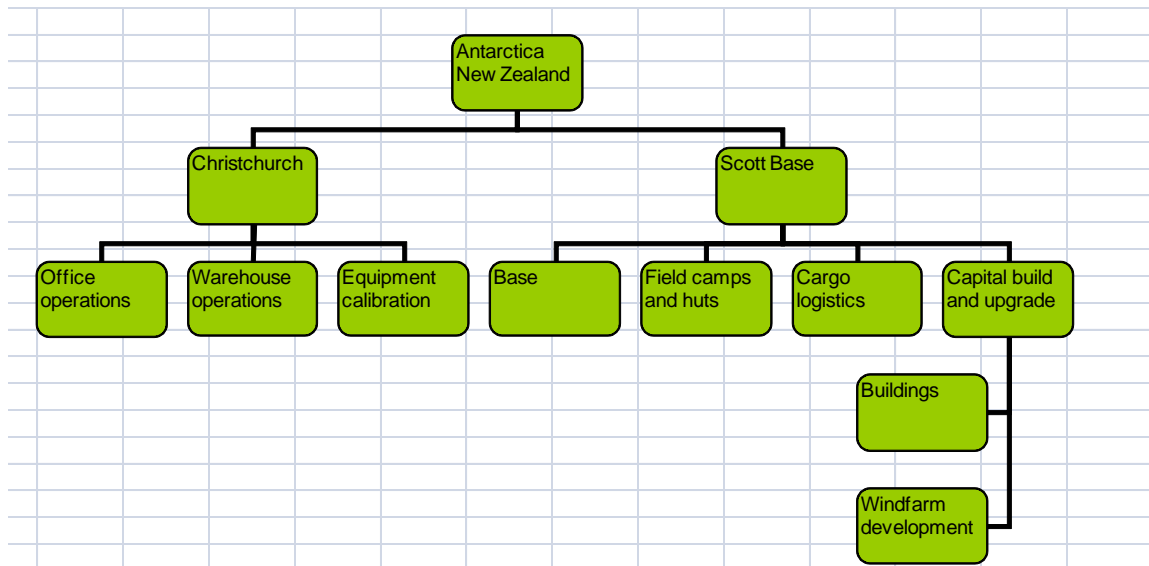


Figure 1: Organisational structure showing business units included and excluded.

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.

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Consolidation approach – The operational control consolidation approach has been used to account for operational emissions with reference to the methodology described in the GHG Protocol and ISO 14064-1 standards.

Base year – 01/07/2008 to 30/06/2009

Measurement period – 01/07/2010 to 30/06/2011

Emissions source inclusions – The operational GHG emissions for the organisation by emissions source are shown in Figure 2 below.

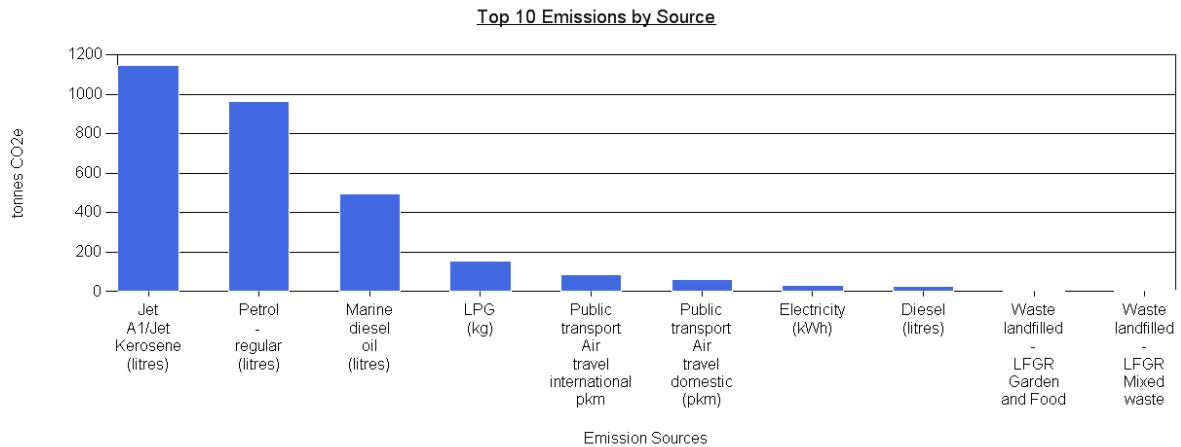


Figure 2: GHG emissions by emissions source.

Emissions as tonnes of carbon dioxide equivalents (tCO₂e) for this period were:

Scope 1: 609.71 tCO₂e
Scope 2: 29.62 tCO₂e
Scope 3: 1262.48 tCO₂e
Total: 1901.82 tCO₂e

Emissions source exclusions – The following emissions sources were excluded from the inventory for this measurement period:

1. Emissions from Erebus Disaster Commemoration Flight.
In February 2011, an RNZAF Boeing 757 was used to transport 100 passengers to Antarctica for the commemoration of the Erebus DC10 tragedy. This mission was at the request of Air New Zealand and the NZ Government and was not related to the New Zealand Antarctica Programme.

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2. Emissions from Ministry of Foreign Affairs Southern Ocean Fishery patrols. During the Antarctic summer season, there were two RNZAF P3 Orion missions that over-nighted at Scott Base. These missions were for the sole purpose of carrying out surveillance of the Ross Sea tooth-fish fishery and are not related to the New Zealand Antarctic Programme.

Emissions reduction commitments – A GHG emissions management plan and reduction targets have been developed.

- Reduce AN8 consumption by determining feasibility of automated generator controls and improve wind penetration
- Reduce AN8 used in water manufacture by reviewing reverse osmosis technology options and feasibility.

Emissions reductions summary against last year's plan – This is the third year of reporting under CEMARS. A reduction in emissions from base year of 2,516 tCO₂e has been achieved, largely due to the introduction of wind generated electricity replacing diesel.

Verified by – Prescott Horn Limited

Data quality score – Fair

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

Level of assurance – Limited

Certification status – CEMARS certified organisation.

Certificate number – 2010146J – year 2

Valid until – 31 October 2013 as on certificate

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