

# Summary of CEMARS certification:



## Antarctica New Zealand

*Antarctica New Zealand meets the requirements of CEMARS® certification having measured its greenhouse gas emissions in compliance with ISO 14064-1 and committed to managing and reducing its emissions in respect of the operational activities of its organisation including Scott Base.*



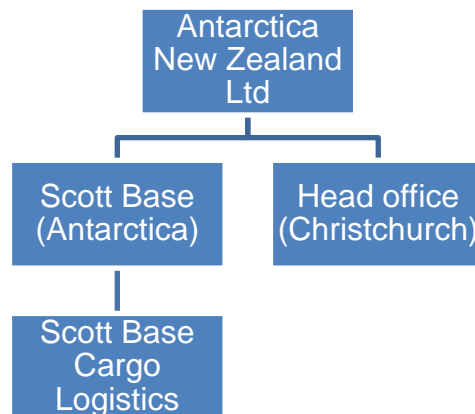
**Introduction<sup>1</sup>** – Antarctica New Zealand is a Crown Entity, and is responsible for “developing, managing, and administering New Zealand’s activities in Antarctica and the Southern Ocean, particularly the Ross Sea region.”

Key activities include “supporting scientific research, conserving the intrinsic values of Antarctica and the Southern Ocean and raising public awareness (in part through arts, media and youth programmes) of the international significance of the continent.”

Antarctica New Zealand is also responsible for managing Scott Base, New Zealand’s permanent base in Antarctica. The Base provides services and accommodation for the researchers and groups that visit Antarctica.

Antarctica New Zealand work closely with the Italian Antarctic Programme and the US Antarctic Programme. Antarctica New Zealand also has secondments from the New Zealand Defence Force.

**Boundary** – the diagram below shows the organisational structure used for describing Antarctica New Zealand’s greenhouse gas (GHG) emissions inventory, and what business units were included in the carbonZero certification.



**Consolidation approach** – operational control

**Base year** – 01/07/2008 to 30/06/2009

<sup>1</sup> **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.

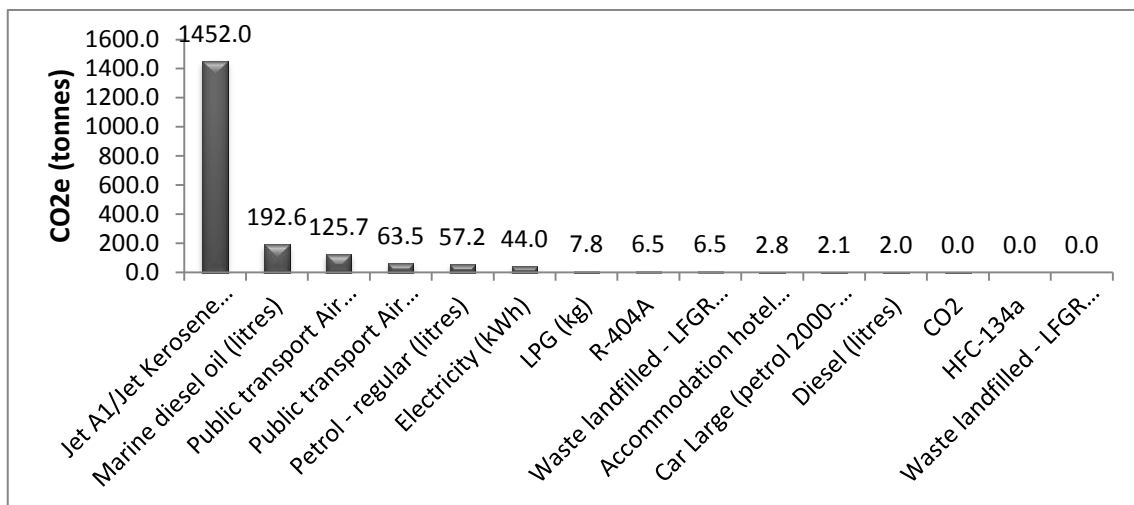
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Measurement period – 01/07/2009 to 30/06/2010

**GHG emissions source inclusions** – the diagram below shows the operational GHG emissions for Antarctica New Zealand by emissions source. Antarctica New Zealand's total operational emissions for this period were 1962.66 tonnes carbon dioxide equivalents (CO<sub>2</sub>e) comprising 855 tonnes CO<sub>2</sub>e Scope 1, 44 tonnes CO<sub>2</sub>e Scope 2 and 1064 tonnes CO<sub>2</sub>e Scope 3 emissions.



**\*Facts found after verification:** Scott Base Marine Diesel for the 2009/10 year was reported as 74,172 litres (192.58 tCO<sub>2</sub>e). It should have been 177,466 litres (460.78 tCO<sub>2</sub>e). This discrepancy was due in part to a calculation error and also due to a change in method for accounting for fuel use from the icebreaker for the first time, accounting for 50% and not 100%. Total emissions for 09/10 should be 2229.89 tCO<sub>2</sub>e comprising

854.73	tCO <sub>2</sub> e Scope 1 emissions
43.96	tCO <sub>2</sub> e Scope 2 emissions
1331.2	tCO <sub>2</sub> e Scope 3 emissions

**GHG emissions reduction report against last year's plan** – the inventory has reduced by 1,357 tCO<sub>2</sub>e (41%). This is from a decrease in Scope 1 emissions of 251 tCO<sub>2</sub>e, an increase in Scope 2 emissions of 1 tCO<sub>2</sub>e. The most significant change has been the decrease in Scope 3 emissions of 1,107 tCO<sub>2</sub>e. There has been an improvement in energy intensity but the majority of this decrease is due to the increase in accuracy of data that is calculated from third parties who provide the cargo logistics data.

**GHG emissions source exclusions** – the following emissions sources were excluded:

- Postal and general courier services
- Contractor air travel
- Contractor vehicle travel

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**GHG emissions reduction commitments** – Antarctica New Zealand has developed a GHG emissions reduction plan. Some projects in this plan include:

- Scott Base building performance improvements – including monitoring and control equipment
- Optimise use of wind energy
- Scott Base vehicle fleet reduction and management
- Investigate more renewable energy supply options for Scott Base, field camps, and field huts
- Reduce air cargo to Scott Base
- Use of a more energy efficient helicopter at Scott Base

**Verified by** – carbonZero Strategic Business Unit

**Threshold of materiality** – excluded emissions do not exceed 5% of the total footprint for organisation and product boundary stated.

**Level of assurance** – limited assurance

**Certification status** – CEMARS certified “organisation” covering Scott Base and Head Office.

**Certificate number** – 2010146J

**Valid until** – 31 October 2013

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Antarctica New Zealand, Administration Building, International Antarctic Centre, 38 Orchard Road, Christchurch 8053, New Zealand. Tel: +64 3 358 0200. Email: [i.miller@antarcticanz.govt.nz](mailto:i.miller@antarcticanz.govt.nz) Web: [www.antarcticanz.govt.nz](http://www.antarcticanz.govt.nz)