

Summary of carboNZero certification:



Royal Society of New Zealand

The Royal Society of New Zealand meets the requirements of carboNZero^{Cert™} certification having measured its greenhouse gas emissions in compliance with ISO 14064-1; committed to managing and reducing its emissions and neutralised its remaining emissions in respect of the operational activities of its organisation.



Introduction¹ – The Royal Society of New Zealand (RSNZ) is an independent, national academy of sciences, and a federation of some 60 scientific and technological societies and individual members. RSNZ seeks to promote a critical awareness of technology in schools, industry and society. The RSNZ administers several funds for science and technology, publishes eight journals, offers science advice to government and fosters international scientific contact and co-operation.

The RSNZ is located at Thorndon, Wellington. RSNZ operates from 4 separate buildings at that address: Fleming House, Marsden Cottage, Science House, and Rutherford Cottage. It also operates a Science Media Centre located in the CBD at 50 Manners Street, Wellington

A comprehensive listing of the funds, grants and programmes administered by the RSNZ is available at www.rsnz.org.

In undertaking its business functions and administration of the various grants, funds and programmes, staff travel domestically and internationally. In addition, travel awards are made to successful applicants of grants, funds and programmes (e.g. funding scientists and students to attend to overseas events).

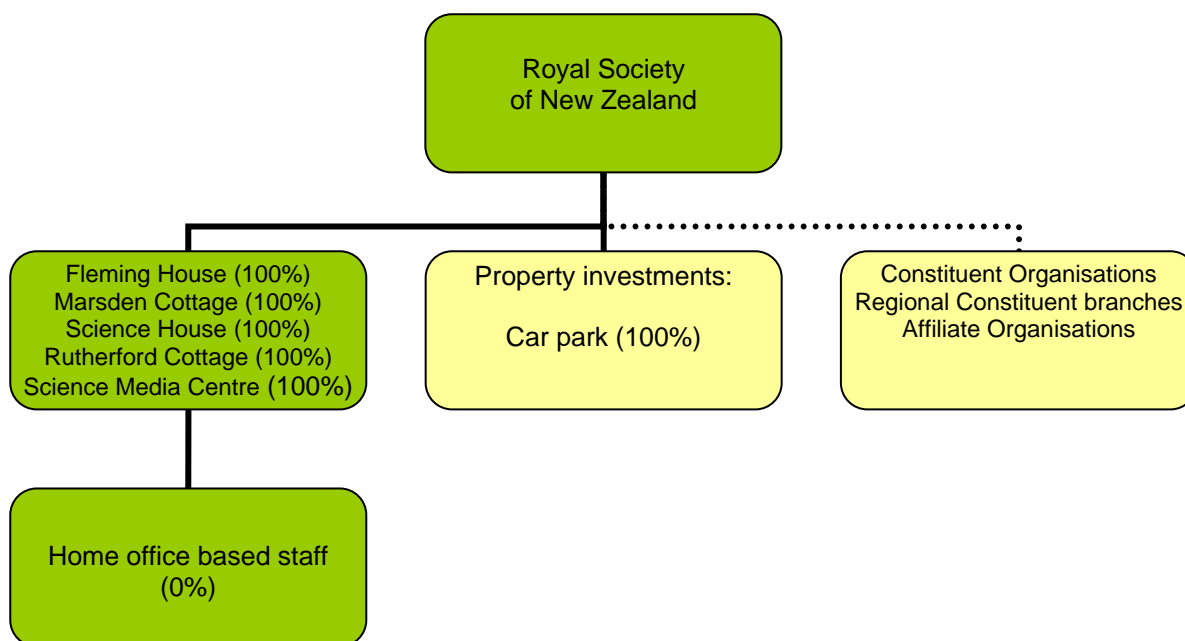
Boundary – the diagram below shows the organisational structure used for describing The Royal Society of New Zealand's greenhouse gas (GHG) emissions inventory, and what business units were included in the carboNZero certification. Yellow business units were excluded from the certification.

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 – operational control

Base year – 01/07/2006 to 30/06/2007

Measurement period – 01/07/2008 to 30/06/2009

GHG emissions source inclusions – the diagram below shows the operational GHG emissions for The Royal Society of New Zealand by emissions source. Royal Society of New Zealand's total emissions for this period were 591.58 tonnes carbon dioxide equivalents (CO₂e) comprising 11.26 tonnes CO₂e Scope 1, 14.50 tonnes CO₂e Scope 2 and 565.83 tonnes CO₂e Scope 3 emissions.

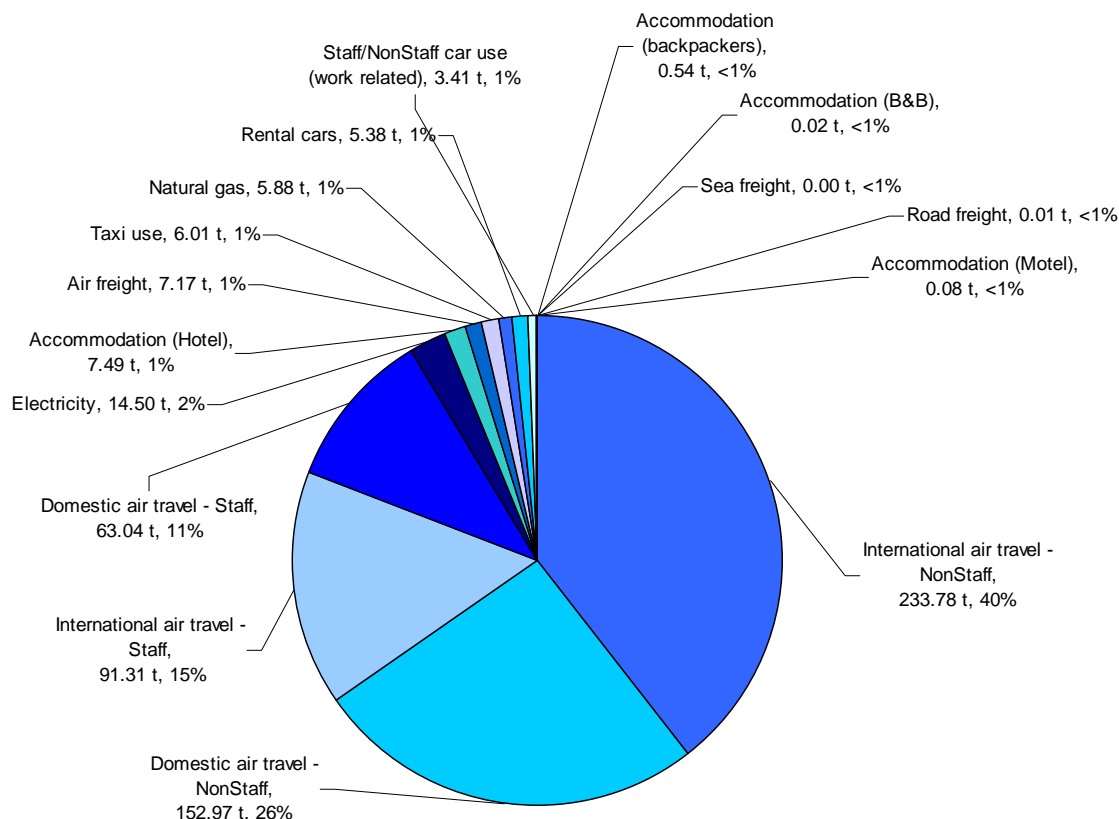
GHG emissions source exclusions –

- Some domestic and international flights where the cost was shared or subsidised by a third party
- Disposal of office waste to landfill, estimated to be de minimis
- Bus and cable car travel – estimated to be de minimis
- Electricity use and disposal of waste to landfill for part time journal publishing staff working from home
- Publishing of the RSNZ's seven journals

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GHG emissions reduction commitments – The Royal Society of New Zealand has developed a GHG emissions reduction plan. Some projects in this plan include:

- Reduce staff/non-staff air travel, using video conferencing for 25% meetings
- Reduce no of taxis by 5%
- Reduce Electricity and Gas consumption by 5%

GHG emissions reduction report against last year's plan – The Royal Society has achieved GHG emissions reductions and removals for this third reporting period for their Scope 2 emissions (see Figure 5). The RSNZ has a management plan in place for managing and reducing emissions, which is a requirement for carbonZero recertification.

There has been a 66% increase (or 4.47 tCO₂e) in Scope 1 GHG emissions since the former inventory. The main increase resulted from more rental car use (totalling an increase of 3.83 tCO₂e). Use of natural gas has also increased (by 0.64 tCO₂e).

Scope 2 GHG emissions deriving from electricity use decreased by 22% (4.0 tCO₂e). However, the decrease in emissions was due to a decreasing emission factor. The consumption of electricity did increase.

The RSNZ's Scope 3 GHG emissions increased by 86% (261.51 tCO₂e). Even though RSNZ's staff and non-staff air travel increased by 80%, the emissions related to air travel increased by 86%

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(250.49 tCO₂e) (see Figure 6). The steep increase in GHG emissions from air travel originates from more travel of staff and particular international travel by non-staff.

Overall, the RSNZ has not been able to reduce many of their GHG emissions sources. The 79% increase in GHG emissions (261.97 tCO₂e) is mostly related to increasing air travel. Further, had the GHG emission factors for electricity been the same to last year, the total GHG emissions would have increased by 14%.

The RSNZ's two Key Performance Indicators (KPIs), 'employee benefit expense' and 'total revenue', increased in emission intensity by 52% (to 167gCO₂e/\$) and 35% (to 73gCO₂e/\$), respectively. The RSNZ's activity has become more carbon intensive since their third emission inventory report. See Figure 7.

Offset – 592 tonnes CO₂e. VERs² from Gold Standard Meridian Energy windpower projects. Serial numbers 406380-406971 have been cancelled (or equivalent) on the carbonZero registry.

Verified by – AsureQuality

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

Level of assurance – reasonable assurance

Certification status – carbonZero certified "organisation" covering organisational emissions and non-staff air travel paid by The Royal Society of New Zealand.

Certificate number – 2010033J

Valid until – 30 September 2010

The Royal Society of New Zealand (RSNZ), 4 Halswell Street, Thorndon, Wellington, 6011, New Zealand
Tel: +64 (0)4 473 7421, Email: info@royalsociety.org.nz, www.royalsociety.org.nz

² VERs are created by eligible projects for emissions reductions achieved up to the end of 2007.