



SUMMARY OF TOITŪ CARBONREDUCE  
CERTIFICATION<sup>i</sup>  
FOR QUEENSTOWN AIRPORT  
CORPORATION



Summary for 01 July 2021 to 30 June 2022

# TOITŪ CARBONREDUCE ORGANISATION CERTIFIED: QUEENSTOWN AIRPORT CORPORATION LIMITED, EXCLUDING WĀNAKA AIRPORT OPERATIONS

Toitū carbonreduce means committing to ongoing reductions while achieving annual measurement for at least the Toitū mandatory emissions.<sup>ii</sup>



Measured emissions to **ISO 14064-1:2018** and [Toitū requirements](#)



Managing and reducing against [Toitū requirements](#)

This report provides a summary of the annual greenhouse gas (GHG) emissions inventory and management report for Queenstown Airport Corporation as part of the annual work to achieve Toitū carbonreduce certification. Full details of the annual achievements, commitments, and verification are available on request from Queenstown Airport Corporation.

Queenstown Airport Corporation (QAC) is pleased to be working with Toitū Envirocare to measure, manage, mitigate and reduce QAC's operational carbon footprint. The annual emissions inventory report is vital for QAC to understand its emissions profile, target our emission sources as we seek to achieve our emission reduction targets. The certification provided by Toitū is vital for us and the community to have confidence in the change we are implementing and the journey we are taking as the data verifies our actions and drives our ambition.

## ACHIEVEMENTS

These achievements have been verified in line with ISO 14064-3:2019 and Toitū carbonreduce Programme Technical Requirements for the 01 July 2021 to 30 June 2022 measurement period.

## EMISSIONS MEASUREMENT

Queenstown Airport Corporation's greenhouse gas total net emissions were 362.29 tCO<sub>2</sub>e. Queenstown Airport Corporation has measured the emissions resulting from its operational activities, purchased energy, and the key impacts from its value chain activities, including business travel, freight, and waste sent to landfill.

The annual inventory is detailed in the following table.

Category (ISO 14064-1:2018)	Scopes (GHG Protocol)	GHG emissions (tCO <sub>2</sub> e)		
		Base Year 2018/2019	Previous Year 2020/2021	Current Year 2021/2022
Category 1: Direct emissions	Scope 1	120.57	166.35	199.52
Category 2: Indirect emissions from imported energy	Scope 2	223.27	199.74	206.06
Category 3: Indirect emissions from transportation	Scope 3	186.57	112.18	94.58
Category 4: Indirect emissions from products used by organisation	Scope 3	333.32	117.83	26.12
Category 5: Indirect emissions associated with the use of products from the organisation	Scope 3	0.00	0.00	0.00
Category 6: Indirect emissions from other sources	Scope 3	0.00	0.00	0.00
<b>Total gross emissions</b>		<b>863.74</b>	<b>596.10</b>	<b>526.28</b>
Category 1 direct removals		0.00	0.00	0.00
Certified renewable electricity certificates		0.00	0.00	-163.99
<b>Total net emissions</b>		<b>863.74</b>	<b>596.10</b>	<b>362.29</b>

The operational GHG emission sources included in this inventory are shown in Figure 1 below.

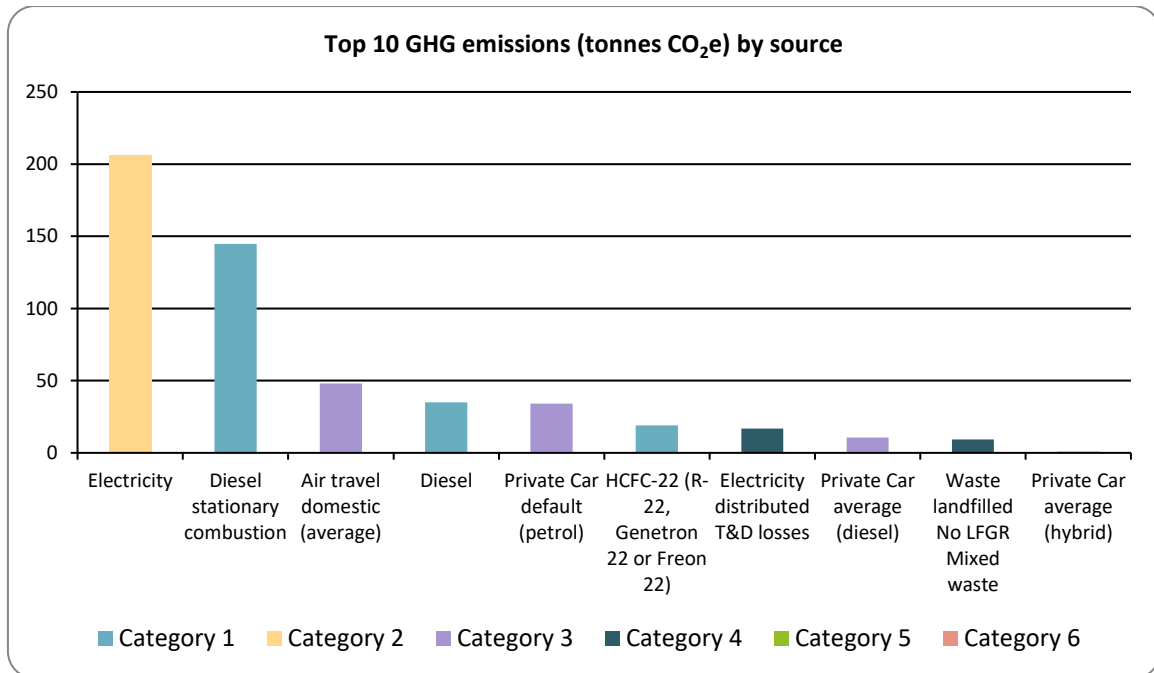


Figure 1: Top 10 GHG emissions (tonnes CO<sub>2</sub>e) by source

## SCOPE OF MEASURED INVENTORY

### CONSOLIDATION APPROACH

An operational control consolidation approach was used to account for emissions. Organisational boundaries were set with reference to the methodology described in the GHG Protocol and ISO 14064-1:2018 standards. <sup>iii</sup>

The Programme specifies that the operational control consolidation approach should be used unless otherwise agreed with the Programme.

### BOUNDARIES

QAC owns and operates Queenstown Airport and manages Wānaka Airport on behalf of QLDC under a management services agreement. The FY22 carbon footprint incorporates operations at Queenstown Airport only.

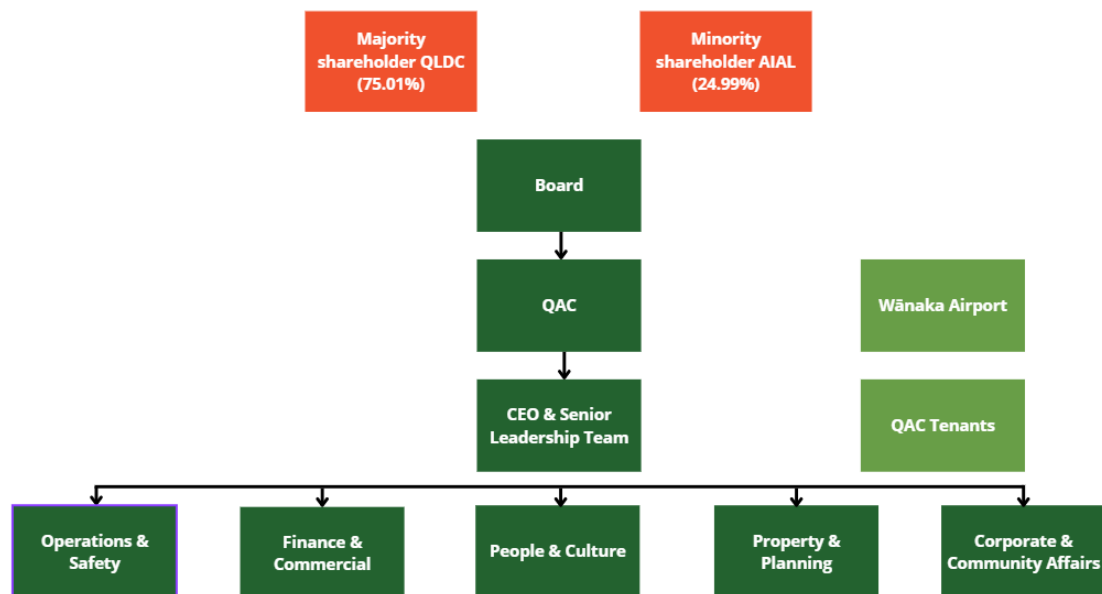


Figure 2: Organisational structure showing business units included and excluded

Wānaka Airport is excluded from the FY22 footprint or on QAC owned land as tenants. We provide operational services to Wānaka Airport under a management services agreement on the behalf of QLDC. The operations centre is run primarily from solar power, QAC employs two FTE to manage the day-to-day operations of the airfield with one operational vehicle and a tractor. Excluded emissions do not exceed 5% of the total footprint within the organisation boundary stated.

Freight emissions are also excluded from this year's inventory as there is very little freight associated with our operations as QAC is not a producer or supplier that distributes freighted items. We also receive very little freight, as generally limited to office supplies, milk deliveries and one-off purchases. Accordingly it is anticipated that the total emissions associated with freight are likely to be insignificant. There is also little freight going out, as generally limited to lost property from passengers passing through our terminal.

## MANAGING AND REDUCING

This is the 4<sup>th</sup> year of reporting under the Toitū carbonreduce programme.

Using a market-based approach an absolute decrease in Category 1 and 2 emissions of 102.25 tCO<sub>2</sub>e has been achieved against the base year. A decrease of 501.45 tCO<sub>2</sub>e for all measured emissions has been achieved against the base year. A decrease in emissions intensity (for Category 1, 2 and mandatory Category 3 and 4 emissions) of 0.07 tCO<sub>2</sub>e/\$M has been achieved based upon a 4- year rolling average.

Using a location-based approach an absolute increase in Category 1 and 2 emissions of 61.74 tCO<sub>2</sub>e has occurred against base year. A decrease of 337.46 tCO<sub>2</sub>e for all measured emissions has been achieved against the base year. An increase in emissions intensity (for Category 1, 2 and mandatory Category 3 and 4 emissions) of 1.55 tCO<sub>2</sub>e/\$M has occurred based upon a 4- year rolling average.

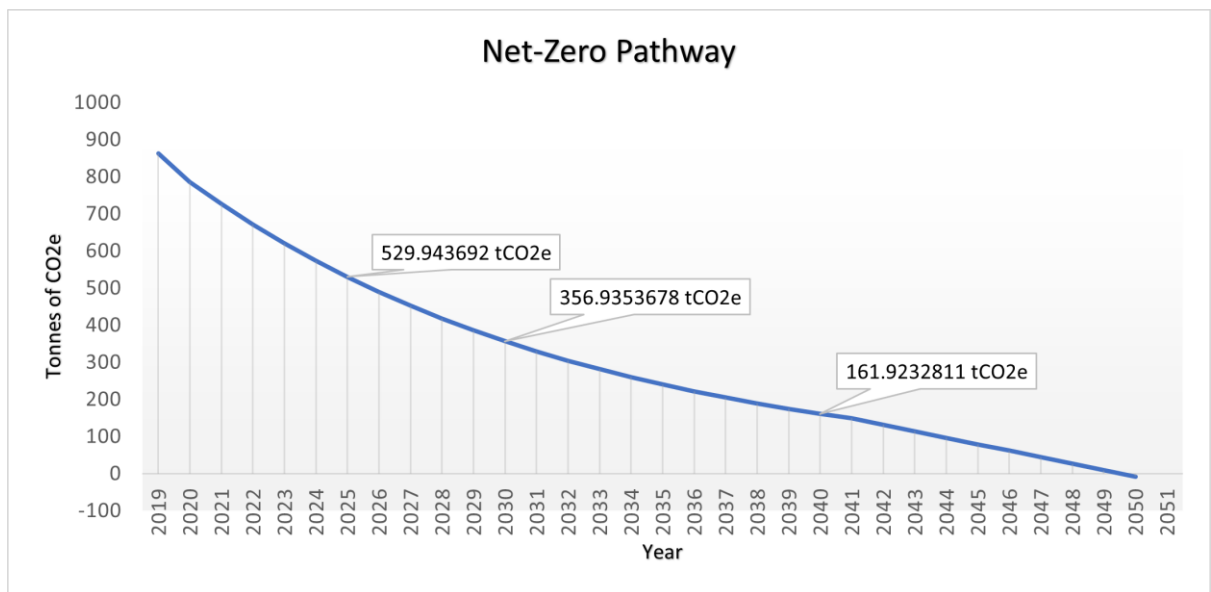


Figure 3: Performance against target since the base year

Following the FY21 Toitū audit, QAC set a target of achieving a 5% reduction against the baseline year, 2019. This reduction amounts to 39.3 tCO<sub>2</sub>e. QAC has exceeded this target in FY22 achieving a reduction of 58%, 501.45 tCO<sub>2</sub>e, against our baseline year. QAC is proud of this result and are pleased to be tracking positively toward our 2030 target of an absolute reduction of 60% against our baseline year. Our achievements can be attributed to several changes that have increased operational efficiency as well as the partnering with Meridian to secure a renewable energy supply. We must also acknowledge that FY22 was a low operating year due to the impacts of COVID-19 resulting in lower operational emissions than pre-COVID times. In the short term, we may expect that our operational emissions will fluctuate as passengers and flights return, but the overall long-term trend will see a reduction in GHG emissions.

QAC is proud to have exceeded our original targets and is on track to achieving our more significant long-term targets. We expect that there will be some fluctuations in our total GHG emissions over the next few years as operations intensity increases following COVID however, we expect the long-term trend will see continued reductions as we plan for and implement efficiency improvements. Our commitment to achieving emission reductions is unwavering and is a goal supported by our whole organisation.

Target name	Baseline period	Target date	Type of target (intensity or absolute)	Current performance (tCO <sub>2</sub> e)	Current performance (%)	Comments
Absolute reduction of 5% against baseline year	2019	2025	Absolute	362.29	-58%	Exceeded target
New Target of 60% reduction	2019	2030	Absolute	362.29	-58%	On track
Carbon neutral by FY23	2019	2022	Neither	362.29	-58%	On track
Net-zero by 2040	2019	2040	Absolute	362.29	-58%	On track

## COMMITMENTS

### REDUCTION TARGETS

Queenstown Airport Corporation is committed to managing and reducing its emissions. Queenstown Airport Corporation's commitments, including GHG emissions reduction targets and plans, have been reviewed and in line with Toitū carbonreduce programme requirements.

An absolute contraction target of 7.6% annually has been set for emissions reduction until 2030, in line with the recommendations of the United Nations Environment Programme. This target has been adopted in our Decarbonisation Roadmap along with the following over-arching goals:

- Certified Toitū Net Carbonzero by FY23
- Achieve an absolute emission reduction of 60% by 2030 from our baseline year of FY19
- Net-zero greenhouse gas emissions by 2040.

Looking ahead, Queenstown Airport Corporation is currently focused on the following projects.

Objective	Project	Responsibility	Completion date	Potential co-benefits	Potential unintended consequences	Actions to minimise unintended consequence
Secure 100% renewable electricity supply	Purchasing of renewable energy certificates as facilitated by Meridian Energy and as certified by the New Zealand Energy Certificate System. Due to the reporting year of the NZECS, a certificate was purchased to cover July 1 - 30 March. A second certificate was purchased to cover April 1 - June 30 2022.	Natalie Reeves, Sustainability Manager, as supported by Sara Irvine	30/06/2022	Securing a 100% renewable energy supply for the operation of the airport means our business is committed to reducing emissions and supporting New Zealand to transition to a renewable energy economy. Overall, the purchasing of these certificates has enabled QAC to reduce total emissions by approximately 20%.	There have been no unintended consequences.	No actions required.
Improve energy efficiency	Continued replacement of terminal lights with LED's.	Chris Fox - Asset and Facilities Coordinator.	Ongoing	Reduced electricity consumption and cost savings.	None anticipated	n/a
	Installation of QUASAR movement sensors to automatically trigger lighting.	Chris Fox - Asset and Facilities Coordinator.	Ongoing	Reduced electricity consumption with lights turning on and off when movement is or is not detected. Will result in long term cost savings.	None anticipated	n/a
	Regular maintenance and inspection of roof pack units used for air conditioning purposes.	Chris Fox - Asset and Facilities Coordinator.	Ongoing	Improved operational efficiency of RPU's resulting in energy and cost savings. Continued maintenance also reduces the risk of refrigerant leakage.	None anticipated	n/a
Waste reduction initiatives	Installation of a terminal wide composting system to divert organic waste from landfill.	Natalie Reeves, Sustainability Manager, as supported by Sara Irvine	Completed April 2022	Reduced waste to landfill and methane production from the decomposition of organic material.  Reduced costs as less waste is being collected by waste management contractor.	Contamination of organic waste as people place 'compostable plastic' items in the bins.	Continued education of terminal retailers to ensure contamination does not occur.  Purchase additional compost boxes to keep up with supply.

Objective	Project	Responsibility	Completion date	Potential co-benefits	Potential unintended consequences	Actions to minimise unintended consequence
				Enhanced relationships with our terminal tenants as this is a service we are providing free of charge and supports the wider community.  Enhanced community relationships with excess compost to be donated.	Too much compost is being produced and we need to upscale our bins to meet supply.	
	Launch campaign to go single use cup free.	Natalie Reeves, Sustainability Manager, as supported by Sara Irvine	Ongoing	Reduced waste to landfill and methane production from the decomposition of organic material.  Reduced costs as less waste is being collected by waste management contractor.  Enhanced relationships with our terminal tenants as this is a service we are providing	Frustrated passengers as access to single use cups will become difficult.	We will promote and support loan cup schemes amongst our retailers who provide takeaway loan cups that can be taken outside of the terminal.
Support Biodiversity and Regeneration	Purchasing of plant plaques to be placed around our terminal outdoor areas to increase knowledge about our native flora.	Natalie Reeves, Sustainability Manager, as supported by Sara Irvine	1/06/2022	Enhanced community relationships as these plaques have been developed in partnership with the Whakatipu Reforestation Trust.  Increased awareness, understanding and regard for our native flora.	None anticipated	n/a
	Installation of pest control traps	Natalie Reeves, Sustainability Manager, as supported by Lewis Jackson from Airport Emergency Services	1/06/2022	Improved indigenous wildlife/bird numbers from the reduction in predators.	None anticipated	n/a



Objective	Project	Responsibility	Completion date	Potential co-benefits	Potential unintended consequences	Actions to minimise unintended consequence
	Launching of a QAC funded biodiversity project in partnership with the Whakatipu Reforestation Trust.	Natalie Reeves, Sustainability Manager and Marketing and Partnerships Manager Vanessa Hartnell	1/06/2022	Enhanced and restored biodiversity in the Whakatipu Basin through the planting of native trees & habitat restoration.	None anticipated	n/a

## CERTIFICATE DETAILS

<b>Certification status:</b>	Toitū carbonreduce certified organisation
<b>Certificate number:</b>	2022183J, Year 1 of 3 year certificate period
<b>Valid until:</b>	27 July 2025
<b>Measurement period:</b>	01 July 2021 to 30 June 2022
<b>Base year:</b>	01 July 2018 to 30 June 2019
<b>Audited by:</b>	Toitū Envirocare
<b>Level of assurance:</b>	Reasonable for categories 1 & 2 and Limited for remaining categories
<b>Data Quality Score:</b>	High

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<sup>i</sup> ©Enviro-Mark Solutions Limited 2020.

**Disclaimer:** This Certification Summary Statement is a summary of the information (validated and verified for relevant components of the certification) considered for certification and the certification decision. It should not be taken to represent the full submission for certification. Whilst every effort has been made to ensure that the information in this Statement is accurate and complete, Enviro-Mark Solutions Limited (trading as Toitū Envirocare) does not, to the maximum extent permitted by law, give any warranty or guarantee relating to the accuracy or reliability of the information.

<sup>ii</sup> The mandatory sources that must be included in any Toitū carbon programme inventory include:

- All direct emissions from the activities of the organisation, or the part of the organisation being certified. Direct emissions come from assets owned or controlled by the organisation, such as emissions from fleet vehicles, boilers, generators and HVAC systems.
- All emissions from imported energy (electricity, heat and steam)
- Emissions from business travel and freight paid for by the organisation
- Emissions associated with waste disposed of by the organisation, as well as the transmission and distribution of electricity, and natural gas

<sup>iii</sup> Control: the organisation accounts for all GHG emissions and/or removals from facilities over which it has financial or operational control. Equity share: the organisation accounts for its portion of GHG emissions and/or removals from respective facilities.