

Summary of carboNZero certification: Wairau River Wines Limited



Wairau River Wines Limited meets the requirements of carboNZero^{Cert}™ certification having measured its greenhouse gas emissions in compliance with the requirements of ISO 14064-1 including additional life cycle emissions associated with all wine products, committed to managing and reducing its emissions and neutralised its remaining unavoidable emissions through the cancellation of an appropriate number of verified carbon credits in respect of its organisation and wine products.



WAIRAU RIVER WINES
FAMILY ESTATE SINCE 1978

Introduction¹ – Wairau River Wines is a privately owned family wine estate established in 1978 by Phil & Chris Rose. The estate is located in the Rapaura district of the Wairau Valley in Marlborough, New Zealand. Wairau River Wines owns five estate vineyards, a winery that was built in 2002, and a restaurant/cellar door. Wairau River Wines has 11 brands². Their flagship wine is Sauvignon Blanc, while the rest of the portfolio comprises Pinot Gris, Riesling, Gewürztraminer, Chardonnay and Pinot Noir. They employ 18 full-time staff.

Boundary – Figure 1 (over page) shows the organisational boundary used for describing Wairau River Wines' greenhouse gas (GHG) emissions inventory, and what business units were included in the carboNZero certification. Figure 2 (over page) shows what has been included in this inventory for the wine product measurement, in the context of the generic life cycle of wine products. The life cycle stages in yellow were not included in inventory.

Consolidation approach – Operational control

Base year – 01/07/2006 to 30/6/2007

Measurement period – 01/07/2008 to 30/6/2009

GHG emissions source inclusions – The Wairau River Wines inventory reports use of diesel, petrol and LPG as Scope 1 operational emissions, electricity as Scope 2 operational emissions, and freight (international air, international and domestic shipping, rail and road), domestic and international air travel, and embodied emissions associated with the use of packaging as Scope 3 operational emissions. Embodied emissions associated with the acquisition of new plant for the winery are reported as Scope 3 one-time (non-operational) 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.

² Wairau River Wines, Sunshine Bay, Plane Tree Estate, Longbend, Vintage Cellars, Robinsons, Three Kings, Martins Rake, Origin Reserve, Dyed In the Wool, Australian Wine Society.

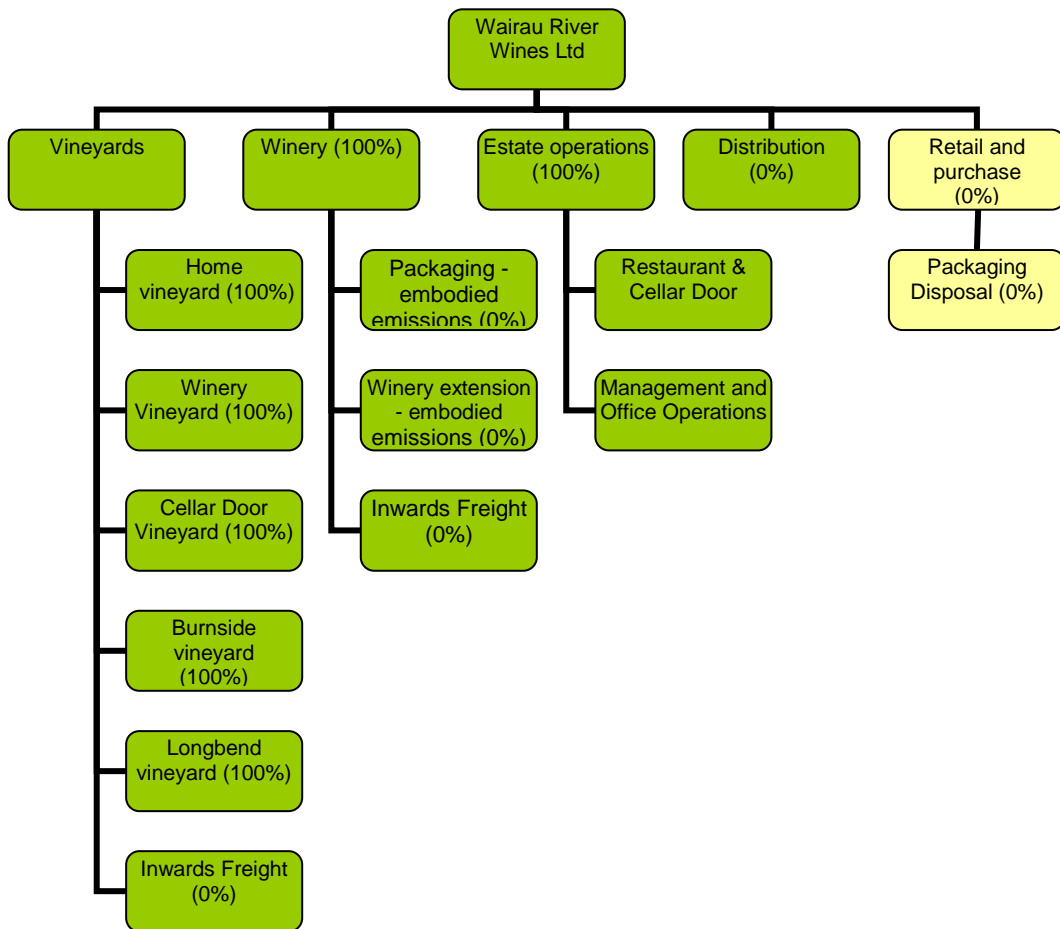


Figure 1: The organisational boundary for Wairau River Wines. Yellow business units were excluded from the GHG inventory.

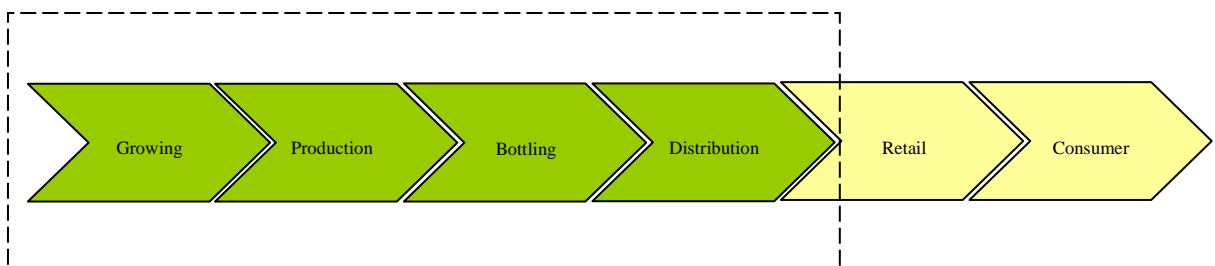


Figure 2: The life cycle product boundary for Wairau River Wines. Yellow life cycle stages were excluded from the GHG inventory.

GHG emissions profile – Wairau River Wines’ total emissions for this period were 1173.79 tonnes carbon dioxide equivalents (CO₂e) comprising 862.74 tonnes of CO₂e operational emissions, and 311.05 tonnes CO₂e Scope 3 one-time emissions embodied in significant materials (plant and construction materials) used in the construction of an extension to the winery. The operational emissions of Wairau River Wines comprised 157.79 tonnes CO₂e Scope 1, 163.44 tonnes CO₂e Scope 2 and

541.50 tonnes CO₂e Scope 3 emissions. Figure 3 below shows operational GHG emissions for Wairau River Wines by business activity, expressed in terms of tonnes carbon dioxide equivalents (CO₂e) and the percentage of total emissions.

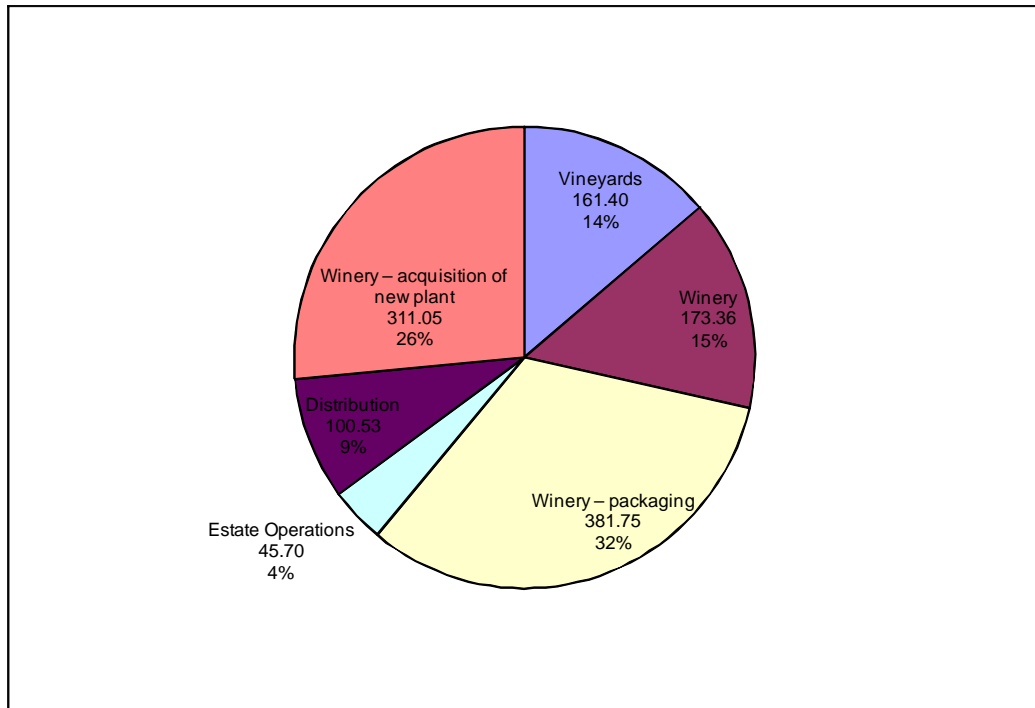


Figure 3: The profile of operational GHG emissions for Wairau River Wines by business activity.

GHG emissions source exclusions – The following emissions sources were excluded from the inventory:

- Embodied emissions in machinery and plant purchased for the vineyards and winery (other than fermentation vessels), due to lack of component-specific activity data.
- Fermentation emissions, in line with international best practice.
- Embodied emissions of dry goods used in winemaking, due to lack of activity data and they are likely to be of limited significance with respect to the total inventory.
- Waste to landfill, as these emissions are likely to be of limited significance with respect to the total inventory.
- Freight (road transport) for transport of goods to the estate restaurant, due to lack of activity data.
- Emissions associated with the retail, customer use and waste disposal at the end of life of the product, in line with international best practice.

GHG emissions reduction commitments – Wairau River Wines has developed a GHG emissions reduction plan. Some projects in this plan include:

- To reduce the weight of glass bottles in future bottling
- To reduce winery electricity intensity, by considering efficiency of the refrigeration and hot water systems
- To reduce diesel use in the vineyards by considering the efficiency of both the use of and the type of machinery used

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Wairau River Wines Limited



GHG emissions reduction report against last year's plan – This is Wairau River Wines' third emissions inventory report. The boundary for this emissions inventory has been expanded from that of the base year (as it was in the previous reporting period) to include Scope 3 one-time emissions associated with the acquisition of new plant for the winery, which occurred during this reporting period. A comparison of operational emissions to the base year shows that there was an overall increase of 148 tonnes CO₂e in total operational emissions, but a decrease of 37 tonnes from the previous year. Scope 3 emissions are still increasing year on year but both Scope 1 and 2 emissions are down on the previous year.

Highlights of production and emission source changes are:

- Total tonnes harvested are down 15% year on year
- Total cases bottled has increased 37% year on year
- Total electricity used in the vineyards is down 30%
- Total diesel used in the vineyards is down 24%
- Total emissions associated with electricity at the winery is down 18%

Emissions intensity at the winery (tCO₂e/tonnes grapes harvested) has only decreased slightly (by 1%), however the intensity of winery electricity activity data (tCO₂e /1,000 cases filled) has decreased by 40%.

Whilst it also has been highlighted that there was a 37% increase in the total cases bottled, the emission intensity of the winery - packaging business unit (tCO₂e /1000 cases filled) has decreased by 11%.

Offset – 863 tonnes CO₂e (rounded up from 862.74) EBEX 21 native forest regeneration 110235-110666 and Te Apiti windfarm 411413-411843 have been cancelled on the carboNZero programme registry. Scope 3 one-time embodied emissions associated with the construction of the extension to the winery were excluded from the offset required for certification.

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 – Reasonable assurance for organisation, limited assurance for product. No assurance is provided over the one-time construction activities.

Certification status – carboNZero certified “organisation” and wine “products”

Certificate number – 2010093J

Valid until – 30 September 2010

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