

# Summary of CEMARS<sup>®</sup> certification:



## Tohu Wines Limited / Kono Beverages

### Tohu, Kono and Koha product range

Disclosure 1 of 3 year certificate period

*Tohu Wines Limited / Kono Beverages meets the requirements of CEMARS product certification having measured the business-to-consumer life cycle greenhouse gas emissions of its wine products and committed to managing and reducing the emissions intensity of the product in respect of its selected wine products.*



**Introduction<sup>1</sup>** – This public declaration presents<sup>2</sup> certified information about Tohu Wines Limited / Kono Beverages wine range<sup>3</sup> carbon footprint which has been prepared using the methods detailed in the Programme product specification for Wine - CZPP10.

**Company climate change policy** – Tohu (pronounced Tor-who) is the world's first Maori owned wine company. Since 1998, Tohu wines produced from New Zealand's premier grape growing regions: Marlborough and Nelson.

True to Maori culture, Tohu have a strong spiritual connection to everything they grow and a responsibility to ensure our land is passed onto future generations in pristine condition. Tohu Wines/Kono Beverages is owned by Wakatu Tohu's vineyards, which are certified by Sustainable Winegrowing New Zealand. Tohu Wines/Kono Beverages see this program as an integral part of their values — working with the environment without compromising quality and integrity.

**Product description** – For Tohu Wines/Kono Beverages wine products, the functional or reference unit is 175 (typical glass volume) and 750 ml (typical bottle volume).

**Scope and boundary** – this product carbon footprint is for “business-to-consumer” scope. The diagram in Figure 1 below shows the life cycle diagram used for describing the general greenhouse gas emissions associated with wine product, and what unit processes were included in the product carbon footprint.

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<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. The product carbon footprint information disclosed in this statement should not be used to make comparisons with other products/services unless the same methodologies, scope and boundaries have been applied.

<sup>2</sup>CZPP04 product disclosure template v2.0, created 07/10/2010; last revised 01/04/2011.

<sup>3</sup> Mugwi Sauvignon Blanc, Reserve Chardonnay, Rore Pinot Noir, Raiha Riesling, Sauvignon Blanc, Kono Sauvignon Blanc, Riesling, Pinot Gris, Chardonnay, Chardonnay unoaked, Merlot, Pinot Noir

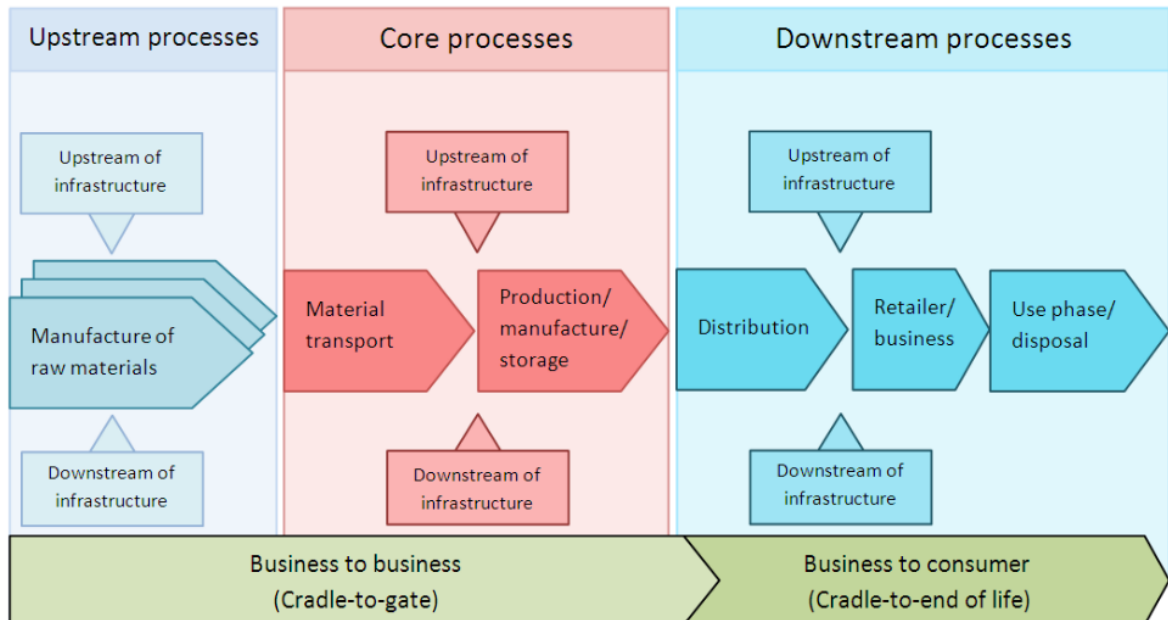
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**Figure 1:** Life cycle phases for business to consumer wine product.

The individual life cycle phases are:

- Upstream – packaging
- Core processes – vineyard
- Core processes – winery
- Core process – admin
- Downstream – distribution
- Downstream – retail
- Downstream – consumer refrigeration (white wine only)
- Downstream – disposal

**Base period** – 01/03/2010 to 28/02/2011.

**Measurement period** – 01/03/2010 to 28/02/2011.

**Emissions and removals** – The table below shows the GHG emissions and removals included for each life cycle stage and unit process. Tohu Wines/Kono Beverages average net emissions for this period for 750ml of their wine product range were 1.38 kg carbon dioxide equivalents (CO<sub>2</sub>e) comprising:

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	Fossil carbon (gCO <sub>2</sub> e)	Biogenic carbon (gCO <sub>2</sub> e)	Total (gCO <sub>2</sub> e)
Upstream			
• packaging	367	0	367
Core process			
• vineyard	322	0	322
• winery	97	0	97
• admin	58	0	58
Downstream			
• distribution	383	0	383
• retail	133	0	133
• consumer refrigeration	13	0	13
• disposal	10	0	10
<b>Total:</b>			<b>1,383per 750 mL</b>

NOTE: Emissions are indicated by “+” and removals by “-”

gCO <sub>2</sub> e per 175 ml serving	Mugwi Sauvignon Blanc	Reserve Chardonnay	Rore Pinot Noir	Raiha Riesling	Sauvignon Blanc	Kono Sauvignon Blanc	Riesling	Pinot Gris	Chardonnay	Chardonnay unoaked	Merlot	Pinot Noir
New Zealand	243	243	241	242	243	239	242	242	243	243	238	241
Australia	294	294	290	293	294	286	293	293	294	294	283	290
USA	338	338	334	336	338	326	336	336	338	338	324	334
United Kingdom	372	372	369	370	372	357	370	370	372	372	356	369
Europe	400	400	398	398	400	383	398	398	400	400	383	398
Asia	343	343	339	341	343	331	341	341	343	343	328	339
Pacific Islands	269	269	263	268	269	262	268	268	269	269	258	263
Canada	403	403	401	400	403	385	400	400	403	403	386	401
Other	289	289	286	288	289	281	288	288	289	289	279	286

Total carbon footprint of 175ml serving (functional unit) by country and product (gCO<sub>2</sub>e)

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#### Exclusions –

	Exclusion	Justification
Upstream		
• packaging	Embodied emissions of shrink wrap and slip sheets.	As per 'de minimis', no significant emissions are occurring.
Downstream		
• Use phase	refrigerant leakage of consumer's refrigerators	Highly unlikely to have a significant impact.

**Data quality** – Fair (62% primary data and 38% secondary data)

**Emissions reduction commitments** – Tohu Wines/Kono Beverages has developed an emissions reduction plan that includes the product. Some of the targets are:

- Reduce use of domestic air travel 5%
- Reduction of petrol consumption 5%
- Reduction in diesel (road freight) costs 2%
- Reduce CO<sub>2</sub> usage 2%

Some of the actions in the management and reduction plan are:

- Reduce winery CO<sub>2</sub> consumption by Including GHG emission policy in supply agreements
- Reduce domestic travel by investigating the use of Skype and other products instead of sales visits
- Reduce petrol consumption by investigating the use of CRM and GPS to determine cycle of customer visits

**Verified by** – carboNZero Holdings Limited

**Materiality** – Excluded emissions do not exceed 5% of the total footprint for organisation and product boundary stated.

**Level of assurance** – Limited

**Certification status** – CEMARS certified “product/service” covering the selected wine products listed on page 1.

**Certificate number** – 2011156 – Year 1

**Valid until** – 29 January 2015