# **Australian Government**

# Carbon Neutral Program **Public Disclosure Summary**



### THIS DOCUMENT WILL BE MADE PUBLICLY AVAILABLE

COMPANY NAME: Keith Tulloch Wine

REPORTING PERIOD: 1 July 2018 - 30 June 2019

#### Declaration

To the best of my knowledge, the information provided in this Public Disclosure Summary is true and correct and meets the requirements of the National Carbon Offset Standard Carbon Neutral Program.

Signature:	Date: 11th September 2019
Name of Signatory: Alistair James Tulloch	
Position of Signatory: Marketing and Communicat	ions Manager

Carbon neutral certification category	Organisation and Products
Date of most recent external verification/audit	February 2019
Auditor	Benjamin Jenkins, GPP Audit Pty Ltd
Auditor assurance statement link	



#### Carbon neutral information

#### 1A. Introduction

Keith Tulloch Wine was founded in 1997 by Keith and Amanda Tulloch, who continue to own and operate the business today, along with their children Jessica and Alisdair plus the team of 10 staff. The business encompasses grape growing, winemaking, administration and sales.

The business' grape growing covers two sites in the central Pokolbin district of the Hunter Valley, with the 'Field of Mars' vineyard on Hermitage Road and the 'Latara' Vineyard on Deasys Road. These vineyards were established in 1968 and 1978 respectively; working with and caring for this old-vine resource requires us to work in a forward-thinking, sustainable way. Inputs and decisions may not see immediate results, and decisions are made to produce the best quality of grapes not only for the upcoming harvests, but for future generations.

The winemaking element of Keith Tulloch Wine is entirely conducted on the 'Field of Mars' property, along with the administrative and sales buildings. The winery features the capability to crush, ferment and age 150-200 tons of grapes each year, resulting in 12,000-15,000 dozen bottles. A vast majority of this is wine produced under the 'Field of Mars', 'Keith Tulloch' or 'PERDIEM' labels and sold at the tasting room or local and domestic wholesale. A small percentage of this production is for contract winemaking, where wines are produced for other local grape growers or winemakers.

The sales element is a large part of the operation, with an expansive tasting room that overlooks our vineyards on the same property. Here the wines are sampled by customers, as many as 100+ per day, and tastings are conducted with seated tastings where wines are brought to the table by tasting room staff.

Another element of sales occurs in administration, where direct sales are made via the wine club manager and her assistant. The administrative part of the business, including the wine club, events and management, employs five people. Sales are also conducted offsite with tastings for domestic and international trade, which may require travel for the presentation of samples and to secure deals.

The functional unit for the life cycle assessment is a single 750ml bottle of wine sold to customers

#### 1B. Emission sources within certification boundary

The scope of this Life Cycle Assessment (LCA) relates to all products sold by Keith Tulloch Wine and does not provide details for separate product lines. The complexity and cost of a full LCA on each wine variety ruled out a detailed analysis. All wine bottled by Keith Tulloch Wine in the period 2018 – 2019 will have emissions offset. This means that the entire product range (all vintages, red, white and sprakling wines) will be carbon neutral.

The two largest inputs to wine making is glass wine bottles and grape growing. In this case an emission factor for glass bottles from the LCA carried out by Keith Tulloch's bottle manufacturer was used. An industry average factor for grape growing based on Input-Output Analysis is was also used.

The system boundary of this analysis is from *Cradle to Grave* and includes all activities operating the business as well as grape growing, wine making, bottling and distribution to customers. The LCA also includes corporate emissions that arise from running Keith Tulloch Wine's business (Scope 1, 2 and 3). The boundary includes recycling of wine bottles (this has been accounted for in the LCA conducted by the glass bottle manufacturer). However, emissions from activities such as retail purchases, transport and refrigeration in the consumer supply chain are too difficult to track and have been excluded.

#### Quantified sources

The following emission sources have been included:

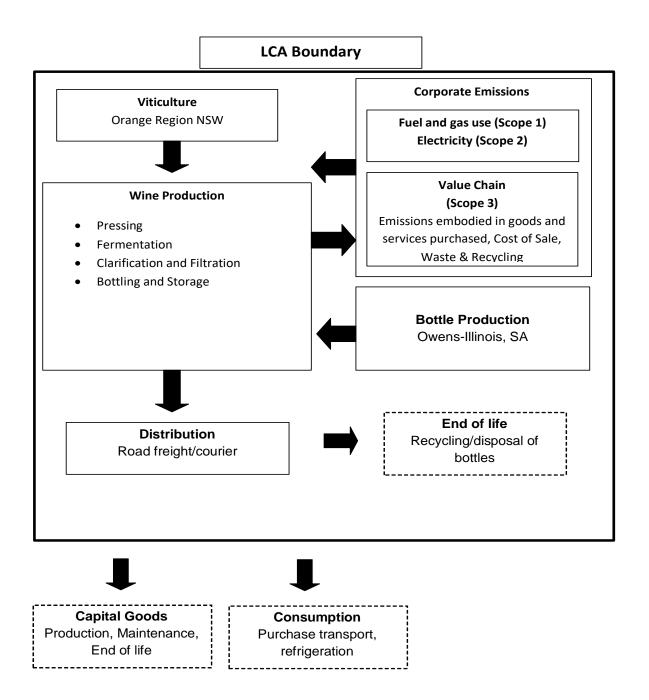
- Glass wine bottles, caps and labels
- Grape growing
- Electricity purchased from the grid
- Diesel used in company vehicles
- LPG and diesel used
- Natural gas
- Waste to landfill
- Recycling
- Water supply
- Business travel
- Accomodation
- Telephone and Internet
- Freight
- Printing and stationary
- Employee commuting
- Goods and services purchased by Keith Tulloch Wine in operating the business, producing wine and supplying customers (refer to Section 2 to show which goods and services have been included)
- End of life emissions recycling of wine bottles

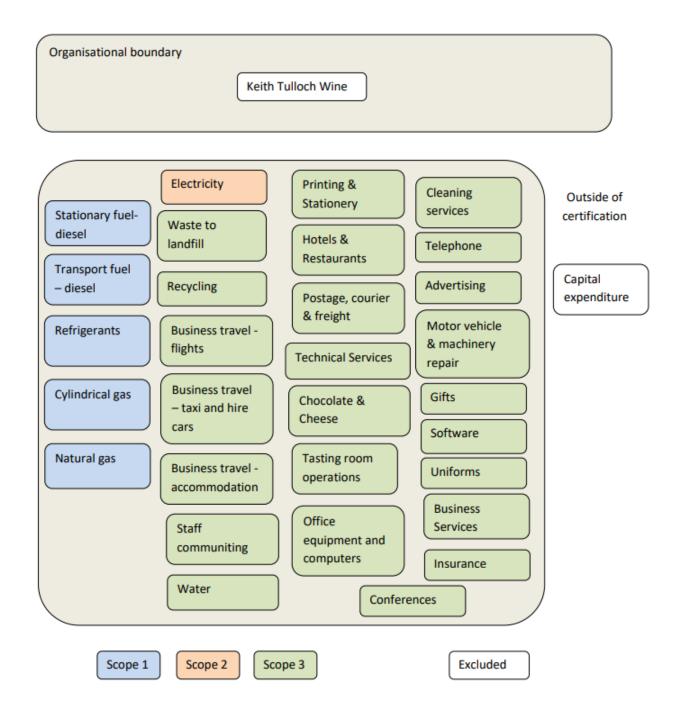
#### Non-quantified sources

The following emission sources have been excluded:

- Capital goods (machinery)
- Use phase emissions in the retail supply chain such as transport and refrigeration
- Capital expenditure

# 1C. Diagram of the certification boundary





#### 2. Emissions reduction measures

#### 2A. Emissions over time

The base year is the 2017 -2018 reporting period.

Table 1	Base Year: 2017 – 2018 (tCO₂-e)	This Year: 2018 – 2019 (tCO <sub>2</sub> -e)
Scope 1	34.58	24.57
Scope 2	112.21	130.90
Scope 3	501.00	502.02
Total	647.79	657.49

#### 2B. Emissions reduction strategy

Our primary element of emissions reduction has been the installation of 65kw Solar PV system in May 2019 which will significantly reduce the business's power usage.

Keith Tulloch Wine is committed to sustainability and is increasingly investing in measures of efficiency and waste management. As well as implementing a more effective plan of glass, plastic and paper recycling, discussions with our waste services has opened the opportunity to significantly reduce the amount of waste going to landfill through the separation and composting of organic material at the Remondis Awaba facility. This will significantly decrease the emissions from the disposal of organics via landfill and the use of virgin materials.

The efficiency of water has the opportunity to reduce emissions and cost, as water use in the winery requires that water be trucked in from reservoirs at considerable expense, and involves the emissions associated with water transport. Reducing the overall use of water as well as installing water-efficient spray fittings and guns will help to achieve this goal.

#### 2C. Emissions reduction actions

The main emissions reduction activity has been the installation of a 25kW solar PV system. We have also purchased part of our electricity from Powershop which supplies certified carbon neutral electricity and all our office paper is carbon neutral. We have also reduced CO<sub>2</sub> use by 75% due to the use of a more efficient hose.

# 3. Emissions summary

**Table 2. Emissions Summary** 

Scope	Emission source	tCO₂-e
1	Company cars fuel - Post 2004 Diesel	8.7
1	Stationary fuel - Cylindrical Gas (LPG)	0.89
1	Stationary fuel – Diesel Oil	3.4
1	Cylindrical Gas - CO <sub>2</sub>	0.75
1	Natural Gas	1.5
1	Refrigerant Gases	9.27
2	Grid Electricity	130.9
2 & 3	Carbon Neutral Grid Electricity	0
3	Stationary fuel – Diesel Oil	0.2
3	Company cars fuel – Post 2004 Diesel	0.42
3	Stationary fuel - Cylindrical Gas (LPG)	0.05
3	Grid Electricity	14.51
3	Natural Gas	0.30
3	Business Flights	11.1
3	Employee Commute	23.5
3	Waste-landfill	14.4
3	Recycling Co-mingled	2.75
3	Glass Bottles	37.51
3	Trucked water - Post 2004 diesel	0.32
3	Road freight	108.50
3	Grapes for wine	46.52
3	Paper and cardboard	27.70
3	Carbon Neutral Office Paper	0
3	Mixed fertilisers	0.82
3	Wine bottle caps	35.39

	Total	657.49
3	Conferences	0.01
3	Insurance	2.41
3	Marketing & Promotion	2.19
3	Uniforms	0.18
3	Computer software	0.13
3	Gifts	0.70
3	Machinery repairs and maintenance	0.75
3	Accommodation	3.86
3	Motor vehicle repairing	1.92
3	Courier Services	79.53
3	Telephone	1.89
3	Cleaning services	2.63
3	Office equipment and computers	1.58
3	Cellar Door Operations	3.57
3	Cheese	1.79
3	Advertising	0.88
3	Chocolate	2.48
3	Hotels and restaurants	4.49
3	Purchased wine	0.55
3	Printing and stationery	4.78
3	Warehousing	5.83
3	Taxi and hire car	18.76
3	Postal services	9.65
3	Wine barrels	9.25
3	Equipment Leasing	5.96
3	Winery repairs and maintenance	11.39
3	Food products	0.59

# 4. Carbon offsets

# 3A. Offsets summary

Table 3. Offsets Summary			
Offset type and registry	Year cancelled	Quantity	Serial numbers
APX VCS Registry Verified Carbon Units (VCUs) Originating carbon offset project: JARI/AMAPÁ REDD+ PROJECT Project type: Agriculture Forestry and Other Land Use Project country: Brazil	10/09/2019	198	VCU serial numbers: 5361- 227845232-227845429-VCU- 001-MER-BR-14-1115- 15022013-14022014-0 Public URL: https://vcsregistry2.apx.co m/myModule/rpt/myrpt.asp?r= 206&h=27322
APX VCS Registry Verified Carbon Units (VCUs)  Originating carbon offset project: Bundled Solar Power Project by Solararise India Projects PVT. LTD.  Project type: Energy industries (renewable/non-renewable sources)  Project country: India	10/09/2019	462	VCU serial numbers: 6221- 286590108-286590569-VCU- 034-APX-IN-1-1762-01012017- 31122017-0 Public URL:https://vcsregistry2.apx.co m/myModule/rpt/myrpt.asp?r= 206&h=26653
Total offset units cancelled			660
Net emissions after offsetting			-2 t CO₂-e

# 3B. Offsets purchasing and cancellation strategy

Offsets are purchased in arrears at the end of the assessment period and subsequently retired. Any surplus is held over for future years.

# 5. Use of trade mark

Table 4. Trade mark register	
Where used	Logo type
Website: <a href="https://keithtullochwine.com.au/">https://keithtullochwine.com.au/</a>	Certified organisation and product range
Marketing materials and wine labels	Certified organisation and product range