



PUBLIC DISCLOSURE STATEMENT

KEITH TULLOCH WINE

ORGANISATION CERTIFICATION
FY2019-20

Australian Government
Climate Active
Public Disclosure Statement

**KEITH TULLOCH**

FAMILY OWNED — HUNTER VALLEY — FAMILY OWNED



An Australian Government Initiative



NAME OF CERTIFIED ENTITY: Keith Tulloch Wine

REPORTING PERIOD: 1 July 2019 – 30 June 2020

Declaration

To the best of my knowledge, the information provided in this Public Disclosure Statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.

Signature

Date

26th FEBRUARY 2021

Name of Signatory

KEITH TULLOCH.

Position of Signatory

MANAGING DIRECTOR

**Australian Government****Department of Industry, Science,
Energy and Resources**

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1. CARBON NEUTRAL INFORMATION

Description of certification

The carbon neutral certification covers the operation of Keith Tulloch Wine vineyard, wine making and tasting room in the Hunter Valley NSW. All wine brands and varieties product by Keith Tulloch Wines have been certified as carbon neutral by Climate Active.

Organisation description

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 and loyal team members. The business encompasses grape growing, winemaking, administration, and sales.

The business of 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

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. 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.

2. EMISSION BOUNDARY

Diagram of the certification boundary



Non-quantified sources

Water used in the tasting room and in operation of the winery has not been quantified in the organisational footprint. Total water use in wine production and tasting room operations has been quantified in the product carbon footprint and discussed in the public disclosure document for the product carbon neutral certification.

Data management plan

Not required

Excluded sources (outside of certification boundary)

Emissions embodied in Keith Tulloch wines sold through the tasting room and sent to customers in Australia and overseas are outside the certification boundary. Freight to customers is also excluded. These emissions have been included in a separate product carbon neutral certification for the Keith Tulloch wine range.

3. EMISSIONS SUMMARY

Emissions reduction strategy

In May 2019 we installed a 65kw Solar PV system which has significantly reduced the business's power usage. Remaining grid electricity is 100% carbon neutral.

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.

Efficiency of water use can 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 transporting. Reducing the overall use of water as well as installing water-efficient spray fittings and guns will help achieve this goal.

Emissions over time

Table 1

Emissions since base year		
	Base year: 2017 – 2018	Current year Year 2: 2019 – 2020
<i>Total tCO₂-e</i>	375.71	156.08

The main reason for the reduction in emissions is use of 10% carbon neutral electricity, reduced sales activity through the tasting room from Covid-19 lockdowns and the impact of drought and bushfires on wine making operations

Emissions reduction actions

There has been a 60% reduction in emissions compared to the previous reporting period and the base year (the base year and previous reporting period emissions were broadly similar) the main reasons for the reduction in emissions are as follows:

- Reduction in grid electricity use provided by the solar PV system
- Purchase of 100% of carbon neutral grid electricity from Powershop
- Reduction in business travel caused by the Covid-19 lock down

Emissions summary (inventory)

Table 2.

Emission source category	tonnes CO ₂ -e
Accommodation and facilities	0.73
Air Transport (km)	11.86
Carbon neutral products and services	0.00
Cellar Door Operations	2.08
Cheese	1.38
Chocolate	1.18
Cleaning and Chemicals	2.13
Conferences	0.09
Cylindrical Gas	0.75
Electricity	0.00
Equipment Leasing	6.06
Food products	4.58
Gifts	0.29
Hotels and restaurants	3.57
ICT services and equipment	7.27
Land and Sea Transport (fuel)	28.61
Land and Sea Transport (km)	25.09
Machinery and vehicles	12.85
Office equipment & supplies	10.00
Postage, courier and freight	10.81
Professional Services	8.39
Recycling Co-mingled	0.00
Refrigerants	0.01
Stationary Energy	6.76
Taxi and hire car	1.45
Uniforms	0.14
Waste	9.66

Wine making equipment	0.34
Accommodation and facilities	0.73
Air Transport (km)	11.86
Carbon neutral products and services	0.00

Uplift factors

Table 3

Reason for uplift factor	tonnes CO ₂ -e
Nil	0
<i>Total footprint to offset (uplift factors + net emissions)</i>	156.08

Carbon neutral products

- Carbon neutral electricity (Powershop)
- Carbon Neutral Paper

Electricity summary

Electricity was calculated using a Market-based approach.

The Climate Active team are consulting on the use of a market vs location-based approach for electricity accounting with a view to finalising a policy decision for the carbon neutral certification by July 2020. Given a decision is still pending on the accounting way forward, a summary of emissions using both measures have been provided for full disclosure and to ensure year on year comparisons can be made.

Market-based approach electricity summary

Table 4

Electricity inventory items	kWh	Emissions (tonnes CO ₂ e)
Electricity Renewables	14,806	0.00
Electricity Carbon Neutral Power	79,600	-86.055
Electricity Remaining	64,794	70.049
Renewable electricity percentage	19%	
<i>Net emissions (Market based approach)</i>		0

Location-based summary**Table 5**

State/ Territory	Electricity Inventory items	kWh	Full Emission factor (Scope 2 +3)	Emissions (tonnes CO ₂ e)
ACT/NS	Electricity Renewables	-	-0.90	0.00
ACT/NS	Electricity Carbon Neutral Power	79,600	-0.90	-71,640
ACT/NS	Netted off (exported on-site generation)	-	-0.81	0.00
ACT/NS	Electricity Total	79,600	0.90	71,640
<i>Total net electricity emissions (Location based)</i>			<i>0.00</i>	<i>0.00</i>

4. CARBON OFFSETS

Offset purchasing strategy: in arrears

Offsets will be purchased and retired in arrears at the end of the reporting period

Offsets summary

Table 6.

1. Total offsets required for this report				157					
2. Offsets retired in previous reports and used in this report				0					
3. Net offsets required for this report				157					
Project description	Eligible offset units type	Registry unit retired in	Date retired	Serial number (including hyperlink to registry transaction record)	Vintage	Quantity (tonnes CO2-e)	Quantity used for previous report	Quantity to be banked for future years	Quantity to be used this report
Wind Based Power Generation by Mytrah Energy, India	VCUs	Verra	17 Nov 2020	7466-400414888-400415044-VCU-034-APX-IN-1-1521-01012019-01082019-0	2019	157	0	0	157
Total offsets retired this report and used in this report						157			
Total offsets retired this report and banked for future reports						0			

5. USE OF TRADE MARK

Description where trademark used	Logo type
Website: https://keithtullochwine.com.au/	Certified organisation
Marketing materials and wine labels	Certified organisation

APPENDIX 1

Excluded emissions

To be deemed relevant an emission must meet two of the five relevance criteria. Excluded emissions are detailed below against each of the five criteria.

Table 7.

Excluded Emission	Relevance Test				
	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.</i>
Wines sold to customers	Yes	Yes	Yes	No	No
Freight distributing wine	Yes	Yes	Yes	Yes	No

The excluded emission sources have been included in the separate carbon neutral certification for Keith Tulloch's wine range. Emissions are shown in the separate public disclosure document for the product range.

APPENDIX 2

Non-quantified emissions for organisations

Table 8.

Non-quantification test				
Relevant-non-quantified emission sources	<i>Immaterial <1% for individual items and no more than 5% collectively</i>	<i>Quantification is not cost effective relative to the size of the emissions but uplift applied.</i>	<i>Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.</i>	<i>Initial emissions non-quantified but repairs and replacements quantified</i>
Water use	Yes	No	No	No

Water use has been included as part of the carbon neutral certification for Keith Tulloch’s wine products. Information is provided in the separate product disclosure document for the product range.