



PUBLIC DISCLOSURE STATEMENT

KEITH TULLOCH WINE

ORGANISATION CERTIFICATION
FY2020-21

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 2020 – 30 June 2021

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

8/12/2021

Name of Signatory

AMANDA TULLOCH

Position of Signatory

MANAGING DIRECTOR



Australian Government

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

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Version number February 2021

1. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the financial year from 1 July 2020 to 30 June 2021 and covers the Australian business operations of Keith Tulloch Wine, ABN 61 076 486 363.

The operational boundary has been defined based on an operational control test, in accordance with the principles of the National Greenhouse and Energy Reporting Act 2007. This includes the following location:

- 989 Hermitage Road Pokolbin NSW 2320

This certification only covers the Australian business operations of Keith Tulloch Wine. Wines sold to customers by Keith Tulloch Wine is covered by a separate Product Public Disclosure Statement, found [here](#).

The methods used for collating data, performing calculations and presenting the carbon account are in accordance with the following standards:

- Climate Active Standards
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- National Greenhouse and Energy Reporting (Measurement) Determination 2008

Where possible, the calculation methodologies and emission factors used in this inventory are derived from the National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008.

The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs).

“Keith Tulloch Wine relies on trusted certifications to demonstrate its environmental claims. Climate Active provides a transparent process”

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 been non-quantified as it has been estimated to be immaterial. However, 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 Climate Active product certification.

Data management plan

N/A

Excluded sources (outside of certification boundary)

Emissions embodied in Keith Tulloch Wine's sold through the tasting room and sent to customers in Australia and overseas are outside the organisation certification boundary. Freight to customers is also excluded as these emissions have been included in the separate Climate Active product certification.

“Climate Active provides an excellent framework for Keith Tulloch Wine to align with on our low carbon journey.”

3. EMISSIONS SUMMARY

Emissions reduction strategy

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

Emissions have increased in 2020 – 2021 over the previous reporting period but are still below emissions for the base year. In the current year emissions sources that have decreased include travel, accommodation and business flights caused by the Covid lockdowns. Emission sources that have increased include diesel fuel, winery repairs and maintenance, road freight and general waste. Broadly these increases reflect increased business activity and a higher level of on-line sales in 2020 – 2021 over the previous reporting period. Operations in 2019 – 2020 were severely impacted by the drought and bushfires. Trading conditions in 2020 – 2021 improved with the easing of Covid restrictions. Reduction in emission from the base year has come from reductions in water use, operational efficiencies and the use of 100% carbon neutral electricity from Powershop.

Table 1

Emissions since base year			
	Base year: FY2017-18	Year 2: FY2019-20	Current year Year 3: FY2020-21
<i>Total tCO₂-e</i>	375.71	156.08	258.04

Emissions reduction actions

The following emission reduction projects have been implemented in the reporting period:

- New electric forklift – retiring of LPG-gas powered forklift
- Onsite Diesel Pump to minimise travel for refuelling tractors etc
- New pump at Latara vineyard is more energy efficient and automated (should spend less time pumping to deliver the same amount of water/more water efficient as well)
- New tractor (John Deere) has a lower hp and more fuel efficient for the same work as the previous tractor
- Vineyard mulching reduces herbicide use and therefore reduces diesel/chemical use
- Native biodiversity gardens reduce pest pressure and therefore diesel/chemical use, restore biodiversity, sequester carbon
- Crimper rolling as opposed to slashing – faster to do, less fuel use, fewer passes than slashing, increased water retention and therefore more water and energy efficient with irrigation.
- New trellis at Latara/KTW blocks reduces need to trim grapevines, less tractor passes, less diesel use.
- Purchase of foudre barrels to store wine instead of barrique barrels means our barrel supply has a lower carbon footprint, less pumping and cleaning of barrels, more energy efficient and lower supply chain emissions.
- Winery tanks on solenoids, less load on fridge plant, lower use of grid electricity overnight to control temperature, more efficient energy use.

Emissions summary (inventory)

Table 2

Emission source category	tonnes CO ₂ -e
Accommodation and facilities	6.25
Air Transport (km)	0.40
BOC	2.04
Carbon neutral products and services	0.00
Cellar Door Operations	3.08
Cleaning and Chemicals	2.18
Food	4.65
Food	0.54
ICT services and equipment	4.25
Land and Sea Transport (\$)	0.19
Land and Sea Transport (fuel)	43.94
Land and Sea Transport (km)	24.40
Machinery and vehicles	19.22
Office equipment & supplies	9.03
Postage, courier and freight	91.20
Products	0.55
Professional Services	12.09
Refrigerants	0.01
Retail	0.29
Stationary Energy	4.51
Waste	29.24
<i>Total Net Emissions</i>	258.04

Uplift factors

Table 3

Reason for uplift factor	tonnes CO ₂ -e
N/A	
<i>Total footprint to offset (uplift factors + net emissions)</i>	258.04

Carbon neutral products

Carbon neutral electricity was purchased from Powershop and Reflex paper was purchased by Keith Tulloch Wine in FY2020-21.

This assessment and Climate Active submission was prepared with the assistance of [Pangolin Associates](#) and these services are also carbon neutral.

Electricity summary

Table 4

Climate Active Carbon Neutral Electricity summary		
Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO ₂ e)
Powershop	83,734	0
<i>Climate Active carbon neutral electricity is not renewable electricity. The emissions have been offset by another Climate Active member through their Product certification.</i>		

4. CARBON OFFSETS

Offsets strategy

Table 5

Offset purchasing strategy:	
In arrears	
1. Total offsets previously forward purchased and banked for this report	0
2. Total emissions liability to offset for this report	259
3. Net offset balance for this reporting period	259
4. Total offsets to be forward purchased to offset the next reporting period	0
5. Total offsets required for this report	259

The details of offsets relating to this certification also cover the Keith Tulloch Wine's Product certification. The relevant PDS can be found [here](#).

Co-benefits

Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01), Tamil Nadu, Karnataka, Andhra Pradesh, India

In addition to generating renewable energy, Mytrah Energy's projects seek to achieve additional benefits to the local community. They promote rural development through fodder cultivation to feed animals, integrated livestock development (artificial Insemination), shade nets to cover vegetable crops, and youth training and skill development. They also promote improvements in health with a project to enhance access to preventative healthcare and early diagnosis and intervention for a population of 100,000 in Hyderabad slums, and by upskilling 100 healthcare volunteers. There are also associated sanitation benefits such as the construction of individual household latrines, reducing incidents of communicable and waterborne diseases, empowering women, establishing 7 safe drinking water RO plants in 3 states, and eradicating dental and skeletal fluorosis in target villages. There is also a focus on education by facilitating secondary coaching and certification along with training on life skills to 500 adolescent girls who had dropped out of school before the Grade X examination, establishing 4 Community Resource Centres, recruiting and training 8 teachers, controlling open defecation and promoting personal hygiene, and developing content in conjunction with UNICEF.

Offsets summary

Proof of cancellation of offset units

Table 6

Offsets cancelled for Climate Active Carbon Neutral Certification										
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Eligible Quantity (tCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
Wind Based Power Generation by Mytrah Energy (India) Limited (EKIESL-VCS-January-16-01), Tamil Nadu, Karnataka , Andhra Pradesh, India	VCUs	Verra	30 September 2021	7466-400419147-400419645-VCU-034-APX-IN-1-1521-01012019-01082019-0	2019	499 ¹	0	0	259	100%
Total offsets retired this report and used in this report									259	
Total offsets retired this report and banked for future reports									0	

Type of offset units	Quantity (used for this reporting period claim)	Percentage of Total
Verified Carbon Units (VCUs)	259	100%

¹ 240 credits have been retired for the FY2020-2021 Climate Active Product certification. The relevant PDS can be found here [here](#).

5. USE OF TRADE MARK

Table 7

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

6. ADDITIONAL INFORMATION

N/A

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 8

Relevance test					
Excluded emission sources	<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>
Freight distributing wines to customers	Yes	Yes	Yes	Yes	No
Wines sold through the tasting room	Yes	Yes	Yes	No	No
Wines sold to customers in Australia or overseas	Yes	Yes	Yes	No	No

These emissions have been included in the carbon neutral certification for Keith Tulloch Wine in the separate Product Public Disclosure Statement found [here](#).

APPENDIX 2

Non-quantified emissions for organisations

Table 9

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 emission 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.



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