



PUBLIC DISCLOSURE STATEMENT

KEITH TULLOCH WINE

ORGANISATION CERTIFICATION

FY2021-22

Climate Active Public Disclosure Statement




KEITH TULLOCH
ESTABLISHED 1858 HUNTER VALLEY 1858



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Tulich & Pitsch Consultants Pty. Limited (Keith Tulloch Wine)
REPORTING PERIOD	1 July 2021 – 30 June 2022 Arrears report
DECLARATION	<p><i>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.</i></p>  <p>Alisdair Tulloch Operations Manager 24 October 2023</p>



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

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Version March 2022. To be used for FY20/21/CY2021 reporting onwards.

1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	130 tCO ₂ -e
OFFSETS BOUGHT	100% CER
RENEWABLE ELECTRICITY	N/A
TECHNICAL ASSESSMENT	12/11/2020 Michael du Plessis Pangolin Associates Next technical assessment due: FY2023

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2. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the financial year from 1 July 2021 to 30 June 2022 and covers the Australian business operations of Keith Tulloch Wine, ABN 61076486363.

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).

Organisation description

Keith Tulloch Wine, ABN 61076486363, 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.

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

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.

3. EMISSIONS BOUNDARY

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as relevant and are quantified in the carbon inventory. This may include emissions that are not identified as arising due to the operations of the certified entity, however are **optionally included**.

Non-quantified emissions have been assessed as relevant and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

Outside the emissions boundary

Excluded emissions are those that have been assessed as not relevant to an organisation's or precinct's operations and are outside of its emissions boundary or are outside of the scope of the certification. These emissions are not part of the carbon neutral claim. Further detail is available at Appendix D.

Inside emissions boundary

Quantified

Diesel used in company cars
LPG gas
Stationary diesel fuel
CO2 gas
Natural gas
Refrigerant gases
Business flights
Hotel accommodation
Waste
Recycling
Wastewater treatment (electricity used)
Food products
Repairs & maintenance
Equipment leasing
Postage & courier
Taxis and rideshare
Printing & stationery
Chocolate & cheese
Office equipment leasing
Cleaning services
Telephone & internet
Motor vehicle repairs & maintenance
Equipment repairs & maintenance
Wine making equipment
Staff commute
Gifts
Computer software
Uniforms
Marketing & Promotion
Insurance
Conferences
Tasting room and wine club events

Non-quantified

Water use

Outside emission boundary

Excluded

Wines sold through the tasting room
Wines sold to customers in Australia or overseas
Freight distributing wines to customers

Data management plan for 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.

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Keith Tulloch Wine has already achieved 0 emissions for its scope 2 emissions by procuring electricity certified as Carbon Neutral (Powershop).

Keith Tulloch Wine commits to reduce total scope 1 emissions from the business by 50% by 2030 compared to a 2022 baseline. This will be achieved through the following measures:

- Improve scope 1 emissions calculations by measuring the volume of fuel purchased each year instead of reporting the total expense on fuel.
- Purchasing a suitable electric tractor and car to perform site work at the winery and site visit instead of using the diesel-powered car and tractor.
- Phase out the use of LPG powered tool.

Keith Tulloch Wine commits to continue reducing their scope 3 emissions. This will be achieved through the following measures:

- Engage our service suppliers (advertising, repair, business services, IT equipment) to provide more accurate greenhouse gas emissions metrics and encourage them to provide carbon neutral services and products.
- Improve the quantification of the emissions generated by the wine show functions we organise by quantifying the quantity and type of foods consumed during those events, as well as the other material expenses.

Emissions reduction actions

None to report.

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e
Base year/Year 1:	2017–18	375.71
Year 2:	2019–20	156.08
Year 3:	2020–21	258.04
Year 4:	2021–22	129.02

Significant changes in emissions

Emission source name	Current year (tCO ₂ -e and/ or activity data)	Previous year (tCO ₂ -e and/ or activity data)	Detailed reason for change
Winery Repairs & Maintenance	11.7	15.7	Less repair required during that reporting period
Diesel oil post-2004	47.3	43.9	A new vehicle was acquired.

Use of Climate Active carbon neutral products and services

Keith Tulloch Wine purchases Powershop carbon neutral certified electricity.

Organisation emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a location-based approach.

Emission category	Sum of Scope 1 (tCO ₂ -e)	Sum of Scope 2 (tCO ₂ -e)	Sum of Scope 3 (tCO ₂ -e)	Sum of total emissions (tCO ₂ -e)
Accommodation and facilities	0.00	0.00	0.00	0.00
Air transport (fuel)	0.00	0.00	0.00	0.00
Air transport (km)	0.00	0.00	0.00	0.00
Cleaning and Chemicals	0.00	0.00	1.74	1.74
Climate Active Carbon Neutral Products and Services	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00
Food	0.00	0.00	4.23	4.23
ICT services and equipment	0.00	0.00	3.54	3.54
Machinery and vehicles	0.00	0.00	11.74	11.74
Office equipment & supplies	0.00	0.00	3.26	3.26
Postage, courier and freight	0.00	0.00	11.15	11.15
Products	0.00	0.00	1.35	1.35
Professional Services	0.00	0.00	10.29	10.29
Refrigerants	1.13	0.00	0.00	1.13
Stationary Energy (gaseous fuels)	0.01	0.00	0.00	0.01
Stationary Energy (liquid fuels)	0.23	0.00	0.01	0.24
Transport (Air)	0.00	0.00	0.78	0.78
Transport (Land and Sea)	42.86	0.00	30.69	73.55
Waste	0.00	0.00	6.02	6.02
Water	0.00	0.00	0.00	0.00
Total	44.23	0.00	84.80	129.02

Uplift factors

N/A

6. CARBON OFFSETS

Offsets retirement approach

In arrears

1. Total number of eligible offsets banked from last year's report	0
2. Total emissions footprint to offset for this report	130
3. Total eligible offsets required for this report	130
4. Total eligible offsets purchased and retired for this report	130
5. Total eligible offsets banked to use toward next year's report	0

Co-benefits

Bhilangana - III (B-III) is a run-of-the-river 24 MW (consisting 3 units of 8 MW each) Hydro Power Project located at Village Ghuttu, Tehsil Ghansali, District Tehri, Uttarakhand State, India. The project activity contemplates utilization of water of Bhilangana River, a tributary of the river Bhagirathi, for setting up an environmentally benign project for generation of electricity.

The project activity is implemented by Bhilangana Hydro Power Limited (BHPL) with the objective of ensuring effective and efficient utilization of natural resources, coupled with responsible environmental consideration, which are vital for achieving sustainable development in India.

The electricity generated from the project site will be displacing the grid electricity (a grid mix contributed from different fuel sources) by its equivalent units. Thus, the project activity will be preventing the anthropogenic greenhouse gas (GHG) emissions generated by the fossil fuel (coal, diesel, furnace oil and gas etc.) based thermal power stations in the grid and will be contributing to sustainable development through conservation of environment. The project is a run of river type with minimum environmental impact and the generated electricity is being sold to the state electricity grid, thus reducing dependence on fossil fuels and reducing CO₂ emissions. The project activity by generating clean power has excellent environment benefits in terms of reduction of GHG emissions and conservation of natural resources.

The project activity would lead to alleviation of poverty by establishing direct & indirect benefits through employment generation at all levels from unskilled to skilled workers during the construction & operation phases.

Eligible offsets retirement summary

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	Stapled quantity	Eligible quantity (tCO ₂ -e)	Eligible quantity used for previous reporting periods	Eligible quantity banked for future reporting periods	Eligible quantity used for this reporting period	Percentage of total (%)
24 MW Bhilangana - III Hydro Power Project	CER	UNFCCC	27/7/2023	IN-5-202762581-2-2-0-2936 - IN-5-202762820-2-2-0-2936	CP2	0	240	0	110*	130	100%
Total offsets retired this report and used in this report											
130											
Total offsets retired this report and banked for future reports											
110											
Total offsets retired this report and banked for future reports											
Percentage of total											
100%											

*240 offsets were purchased to cover both the organisation (130) and product (110) submission.

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION



United Nations
Framework Convention on
Climate Change

Date: 27 July 2023
Reference: VCI/0708/2023

VOLUNTARY CANCELLATION CERTIFICATE

Presented to:

CDM Project 2936: 24 MW Bhilangana - III Hydro Power Project

Reason for cancellation:

Retired on behalf of Keith Tulloch Wine for FY2022 for Climate Active



Number and type of units cancelled

240 CERs

Equivalent to 240 tonne(s) of CO₂

Start serial number: IN-5-202762581-2-2-0-2936
End serial number: IN-5-202762820-2-2-0-2936

The certificate is issued in accordance with the procedure for voluntary cancellation in the CDM Registry. The reason for cancellation included in this certificate is provided by the canceller.

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a location-based approach.

Location-based method

The location-based method provides a picture of a business's electricity emissions in the context of its location, and the emissions intensity of the electricity grid it relies on. It reflects the average emissions intensity of the electricity grid in the location (State) in which energy consumption occurs. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments. It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

Market Based Approach Summary

Market Based Approach	Activity Data (kWh)	Emissions (kgCO2e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	0	0	0
Total non-grid electricity	0	0	0
LGC Purchased and retired (kWh) (including PPAs & Precinct LGCs)	0	0	0
GreenPower	0	0	0
Jurisdictional renewables (LGCs retired)	0	0	0
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0
Large Scale Renewable Energy Target (applied to grid electricity only)	0	0	0
Residual Electricity	0	0	0
Total grid electricity	0	0	0
Total Electricity Consumed (grid + non grid)	0	0	0
Electricity renewables	0	0	
Residual Electricity	0	0	
Exported on-site generated electricity	0	0	
Emissions (kgCO2e)		0	

Total renewables (grid and non-grid)	0
Mandatory	0
Voluntary	0
Behind the meter	0

Residual Electricity Emission Footprint (TCO2e) 0

Figures may not sum due to rounding. Renewable percentage can be above 100%

Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Grid electricity (scope 2 and 3)	0	0	0
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	0	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	0	0	0
Total Electricity Consumed	0	0	0

Emission Footprint (TCO2e)	0
Scope 2 Emissions (TCO2e)	0
Scope 3 Emissions (TCO2e)	0

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
Powershop	83,464	0

Climate Active carbon neutral electricity is not renewable electricity. The emissions have been offset by another Climate Active member through their Product certification.

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following sources emissions have been assessed as relevant, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. These emissions are accounted for through an uplift factor. They have been non-quantified due to one of the following reasons:

1. **Immaterial** <1% for individual items and no more than 5% collectively
2. **Cost effective** Quantification is not cost effective relative to the size of the emission but uplift applied.
3. **Data unavailable** Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
4. **Maintenance** Initial emissions non-quantified but repairs and replacements quantified.

Relevant-non-quantified emission sources	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
Water use	Yes	No	No	No

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to an organisation's or precinct's operations and are outside of its emissions boundary. These emissions are not part of the carbon neutral claim. Emission sources considered for relevance must be included within the certification boundary if they meet two of the five relevance criteria. Those which only meet one condition of the relevance test can be excluded from the certification boundary.

Emissions tested for relevance are detailed below against each of the following criteria:

1. **Size** The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions
2. **Influence** The responsible entity has the potential to influence the reduction of emissions from a particular source.
3. **Risk** The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.
4. **Stakeholders** Key stakeholders deem the emissions from a particular source are relevant.
5. **Outsourcing** 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.

Freight of product to customers, wines sold from the tasting room and to customers in Australia and overseas have been excluded. But those activities are reported as part of separate product certification and product public disclosure statement.



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