



PUBLIC DISCLOSURE STATEMENT

ROSS HILL WINE GROUP

ORGANISATION CERTIFICATION
FY 2021-2022


Australian Government
Climate Active
Public Disclosure Statement

ROSS HILL
ORANGE NSW AUSTRALIA



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Ross Hill Wine Group
REPORTING PERIOD	Financial year 1 July 2021 – 30 June 2022
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><i>Signature here</i></p>  <p>Name of signatory <u>JAMES ROBSON</u> Position of signatory <u>OWNER</u> Date <u>13/4/23</u></p>



Australian Government
Department of Industry, Science,
Energy and Resources

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1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	88 tCO ₂ -e
OFFSETS BOUGHT	100% VCU's
RENEWABLE ELECTRICITY	100%
TECHNICAL ASSESSMENT	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 Ross Hill Wines, ABN 47 604 711 962.

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:

- 134 Wallace Lane, Orange, NSW 2800

This certification only covers the Australian business operations of Ross Hill Wines. Wine products sold to customers by Ross Hill Wines are 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

The Ross Hill Wine Group roots were firmly planted in 1994 by Peter and Terri Robson. Joined by their son James and wife Chrissy in 2006 to continue the hard work, passion and dedication to produce exceptional quality and elegantly refined, cool climate Ross Hill Wines.

"Ross Hill Wines relies on trusted certifications to demonstrate its environmental claims. Climate Active provides a transparent process."

In 2019 Luke Steele, joined the Ross Hill family as the Head Winemaker. The winemaking approach of Ross Hill is to create stunning wines that demonstrate complex structures that are harmonious, rich, luscious and balanced. All of Ross Hill's wines are naturally fermented, relying on wild yeasts indigenous to the local area to work their magic. No enzymes are added to the winemaking process nor are any insecticides, pesticides or fertilisers used on the vineyards.

The Ross Hill Vineyard is situated on the gentle north facing slopes of Griffin Rd, Orange at an elevation ranging from 750 to 850 metres. Such elevation presents itself in our wines that are so distinctively high altitude and cool climate produce.

Covering the hills with 12 hectares (ha) of established vine, we are able to grow the majority of the grapes used in our wines. Ross Hill white wine varieties include Chardonnay & Sauvignon Blanc, and the iconic red styles of Merlot, Shiraz and Cabernet Franc, Cabernet Sauvignon and Cabernet Shiraz.

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

Electricity

Telecommunications

IT Equipment

Employee commute and working from home

Road transport fuels

Stationary fuels

Motor vehicle repairs

Food & catering

Rates & taxes

Wine functions

Advertising

Winery repairs & maintenance

Accounting services

Banking

Insurance

Wine show expenses

Memberships

Waste – landfill & recycling

Business travel (flights and accommodation)

Non-quantified

N/A

Optionally included

N/A

Outside emission boundary

Excluded

Wine sold through the tasting room

Wine sold to customers in Australia or overseas

Freight distributing wines to customers

Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Ross Hill has already achieved 0 emissions for its scope 2 emissions (compared to 156 tCO₂-e in FY2014) and will continue to procure electricity certified as Carbon Neutral and/or 100% Greenpower.

Ross Hill Wines 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:

- 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 forklift.
- Identify a solution for phasing out LPG consumption in the hot water system.

Ross Hill Wines has already reduced its scope 3 emissions by 50% compared to its 2014 baseline. Ross Hill Wines 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.

Ross Hill Wines is also committed to regenerate the natural environment where it operates. Over the next 5 years, we will plant 30 hectares of native trees and flora at our winery.

You can read our progress on [our website](#).

Emissions reduction actions

The following actions were taken during this reporting period to reduce the total GHG emissions.

- We purchased one electric forklift to replace one of our LPG powered forklifts
- We purchased an electric vehicle
- We installed a flotation pump, which removes the 3-day cooling stage in our white wine making process, reducing our total electricity consumption
- We installed two variable speed drive pumps to reduce our total energy consumption

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e
Base year:	2014-2015	109.4
Year 1:	2019-20	69.93
Year 2:	2020-21	85.9
Current Year (Year 3):	2021-2022	87.78

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 Repair and Maintenance	7.11	14.41	Less repair done during FY2022
Wine Functions	21.19	7.30	More events organised during FY2022 post COVID-19
Liquefied petroleum gas (GJ)	6.50	8.68	Less LPG consumed by the forklift and energy conservation actions implemented.
Diesel oil post-2004 (GJ)	25.48	12.05	More business travel with the company car during FY2022 + increased use of tractor (wet season requiring more maintenance)

Use of Climate Active carbon neutral products and services

Carbon neutral electricity was purchased from Powershop. Carbon neutral paper from Reflex was also purchased.

Organisation emissions summary

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

Emission category	Sum of total emissions (tCO ₂ -e)
Accommodation and facilities	0.06
Cleaning and Chemicals	0.91
Climate Active Carbon Neutral Products and Services	0.00
Electricity	0.00
ICT services and equipment	3.52
Machinery and vehicles	0.31
Products	0.06
Professional Services	35.59
Refrigerants	0.02
Stationary Energy (liquid fuels)	6.50
Transport (Air)	0.44
Transport (Land and Sea)	37.29
Waste	3.02
Working from home	0.06
Total	87.78

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	88
3. Total eligible offsets required for this report	88
4. Total eligible offsets purchased and retired for this report	88
5. Total eligible offsets banked to use toward next year's report	0

Co-benefits

Ross Hill Wines invested into the *Bundled Wind Power Project by Mytrah Group* in 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.

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 (%)
Bundled Wind Power Project by Mytrah Group	VCUs	Verra	22/11/2022	6918-358610981-	2017	0	88	0	0	88	100%
				358611068-VCU-034-							
				APX-IN-1-1728-01012017-24112017-0							
Total offsets retired this report and used in this report											88
Total offsets retired this report and banked for future reports											0
Quantity (used for this reporting period claim)											Percentage of total
Type of offset units											100%
Verified Carbon Units (VCUs)											

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a market-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	16,461	0	100%
Total non-grid electricity	16,461	0	100%
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)	16,461	0	100%
Electricity renewables	16,461	0	
Residual Electricity	0	0	
Exported on-site generated electricity	0	0	
Emissions (kgCO2e)		0	

Total renewables (grid and non-grid)	100.00%
Mandatory	0.00%
Voluntary	0.00%
Behind the meter	100.00%
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	16,461	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)	16,461	0	0
Total Electricity Consumed	16,461	0	0

Emission Footprint (TCO2e)	0
<i>Scope 2 Emissions (TCO2e)</i>	<i>0</i>
<i>Scope 3 Emissions (TCO2e)</i>	<i>0</i>

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
Powershop	80,476	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

No emission sources in Ross Hill Wines' organisation boundary were non-quantified in FY2022.

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
N/A	N/A	N/A	N/A	N/A

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The excluded emission sources below have been included in a separate carbon neutral certification for Ross Hill's product wine range. Emissions are shown in the separate Public Disclosure Statement for the product range, available [here](#).

- Wine sold through the tasting room
- Wine sold to customers in Australia or overseas
- Freight distribution of wines to customers



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