PUBLIC DISCLOSURE STATEMENT

BRIMBANK VETERINARY CLINIC

ORGANISATION CERTIFICATION
FY2022–23

Australian Government

Climate Active
Public Disclosure Statement

BRIMBANK VETCLINIC
best care for pets & people

An Australian Government Initiative

Climate Active

NAME OF CERTIFIED ENTITY	LDV Investments Pty Ltd & Torroodun Pty Ltd & J.A Watson, t/a Brimbank Veterinary Clinic
REPORTING PERIOD	1 July 2022 – 30 June 2023 Arrears report
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*
	Jeremy Watson Partner Date 23.10.23

Australian Government
Department of Climate Change, Energy, the Environment and Water

Version August 2023.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	91 tCO_2-e
OFFSETS USED	100% VERs
RENEWABLE ELECTRICITY	Total renewables 105.19%
CARBON ACCOUNT	Prepared by: Pangolin Associates
TECHNICAL ASSESSMENT	1/11/2021 Sarah Colquhoun Pangolin Associates Next technical assessment due: 1/11/2024

Contents

2. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the financial year 1st July 2022 to 30th June 2023 and covers the Australian business operations of Brimbank Veterinary Clinic, ABN: 94 610 714 278

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 locations and facilities:

- 562 Melton Highway, Sydenham VIC 3037

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 Brimbank Vet Clinic provides high standard veterinary care to dogs, cats, and small pets in the northwest suburbs of Melbourne.

Established in 1998 we have built a team of more than 18 staff dedicated to providing the best care for pets, owners, and our surrounding community. In 2011 we rebuilt our facilities featuring the latest in environmental design features enabling us to provide a better standard of service, a more enjoyable workplace and help us work towards a more sustainable future. We are working with the Vets for Climate Action https://www.vfca.org.au/ to develop a sustainability program that will enable the veterinary team to achieve a more sustainable future.

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 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

Accommodation and Facilities

Cleaning and chemicals

Electricity

Food

ICT Services and equipment

Office equipment and supplies

Postage, courier and freight

Products

Professional services

Refrigerants

Stationary energy (liquid fuels)

Transport (air)

Transport (land and sea)

Waste

Water

Non-quantified

N/A

Outside emission boundary

Excluded

N/A

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

The Brimbank Vet Clinic was first registered on the Climate Active register in FY2021. In that year, our total emissions was 129 tC02e. In FY2023 our emissions have reduced to 91 tC02e.

Our long term goal is to reduce our total emissions to zero and not have to purchase carbon offsets.

In the next 10 years we aim to reduce our emissions by more than 30% (=39tons C02e) compared to our base year.

We will examine each emission group and identify the easiest items to change:

Scope	Activity	BASE yr FY21 tonsC02e	FY23	Target for FY26	When and how
1	Anaesthetic gas	9.1	9.9	6	We are changing anaesthetic protocols to include total intravenous anaesthesia, more use of local anaesthesia and reviewing premedication
1	Natural gas	0.95	0	0	All gas appliances replaced with electric in FY21
1	Refrigerant	0.78	0.4	0.78	Ensure all A/C units are serviced annually to prevent losses.
2	Purchase only green power	0	0	0	
2	Increase solar export	-8	-0.5	-10	Improve energy efficiency – LED lighting
3	Waste to landfill	11.5	4.64	3	Improved recycling and change in purchasing to reduce disposable items
3	Paper	1.46	1.2	0.46	Move to electronic record keeping and client communications.
3	Printing	1.0	0	0.25	Move to electronic client comms and bookkeeping
3	LPG for pets cremation	10	14.8	0	We are advocating our suppliers to move to water based or carbon neutral cremation service.
3	Employee commute	13	30.3	10	Travel has increased since covid. Greater uptake of electric vehicles. Provide free onsite vehicle charging.
3	Chemicals and reagents	45	16.2	35	Source carbon neutral supplier. This area will be the most challenging to reduce. Collaboration with supply chain stakeholders and the human medical profession will enable us to find solutions.
	TOTAL	39.7	76.94	10.49	

Emissions reduction actions

We have undertaken the following actions to reduce our emissions:

- We have significantly reduced printing and paper use by changing to cloud-based hospital management systems.
- Emissions of anesthetic gas will be reduced by changing premedication protocols, wider use of nerve blocks, increased use of CRIs and intravenous anesthetic regimes.
- We are lobbying suppliers of pet cremation services to offer lower carbon options such as aquamation and bundling carbon offsets with their product.
- We are collaborating with veterinary suppliers as well as organisations within the human medical field to reduce use of disposable items that ultimately finish up in landfill or incineration waste

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year		
		Total tCO_2-e (without uplift)
Base Year/Year 1:	2020–21	129.71
Year 2:	2021–22	118.39
Year 3:	2022–23	90.98

Significant changes in emissions

Emission source name	Previous year emissions (kg CO_2-e)	Current year emissions (kg CO_2-e)	Detailed reason for change
Isoflurane	7,979.49	9,879.36	There was an increased need for isoflurane in surgery by our patients.
Petrol: Large Car	8,358.27	9,385.11	The emissions from our employee's commute have increased as we have more employees than previous years, in addition to the post-pandemic rebound (i.e. Our employees back in the clinic full time).
Petrol: Medium Car	5,104.83	14,337.10	The emissions from our employee's commute have increased as we have more employees than previous years, in addition to the post-pandemic rebound (i.e. Our employees back in the clinic full time).

Use of Climate Active carbon neutral products, services, buildings or precincts

Pangolin Associates – Service

Emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a market-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 (t CO_2-e)
Accommodation and facilities	0.00	0.00	0.09	0.09
Cleaning and chemicals	0.00	0.00	0.32	0.32
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	1.77	1.77
ICT services and equipment	0.00	0.00	2.00	2.00
Postage, courier and freight	0.00	0.00	0.39	0.39
Products	0.00	0.00	26.26	26.26
Professional services	0.00	0.00	6.40	6.40
Refrigerants	0.37	0.00	0.00	0.37
Stationary energy (liquid fuels)	11.13	0.00	3.71	14.83
Transport (air)	0.00	0.00	0.29	0.29
Transport (land and sea)	0.58	0.00	30.59	31.17
Waste	0.32	0.00	4.65	4.97
Water	0.00	0.00	0.35	0.35
Office equipment and supplies	0.00	0.00	1.44	1.44
Total emissions	**12.40**	**0.00**	**78.26**	**90.66**

Uplift factors

N/A.

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 91 tCO_2-e. The total number of eligible offsets used in this report is 91. Of the total eligible offsets used, 0 were previously banked and 91 were newly purchased and retired. 0 are remaining and have been banked for future use.

Co-benefits

6.5 MW cogeneration project in Akbarpur, Punjab.

This project has many co-benefits, including:

- Energy supply: estimated to be 41.769 GWh of net electrical output per annum.
- Circular economy: rice husk is an agri-waste generated from local rice mills and hence identified as renewable biomass. This also offers the farmers an additional source of revenue.
- Social: employment for skilled and unskilled laborers to operate the power plant, collection and transportation of biomass.
- Economic: new business opportunities for direct and indirect businesses for technology provider, consultants, labour contractors, biomass suppliers, farmers, and local villagers, thus promoting economic well-being in the region.
- Health: use of biomass instead of fossil fuel reduces air pollution, providing cleaner air for locals.
- Technology: the project activity involves the installation of a cogeneration project in a textile mill. This will help in the promotion of such technology in the sector as well as enhance the skill sets of people involved in the operation and maintenance of the plant.

Stapled credit: Canopy Blue Kelp Reforestation Credits

Brimbank stapled their credits with a local project, Canopy Blue. Canopy Blue is an organisation partnered with The University of Western Australia on a mission to restore over 100,000 Ha of lost kelp forest. The project aims to unlock Kelp Reforestation globally as a nature based solution to climate change. Realising the potential to restore the world's oceans whilst sequestering Giga-tonnes of carbon and reversing eutrophication.

Why support kelp forest establishment?

Kelp forests - supporting human life

Kelp Forests provide critical ecosystem services to humans, similar to those provided by coral reefs and tropical forests. They also possess a much greater capacity for rapid growth and regeneration than most other ecosystems, taking 2 years to grow to their full biomass. The benefits provided by kelp forests span 14 of the 18 categories of nature's contributions to people identified by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES).

Biodiversity

Kelp create underwater habitats (like corals and mangroves) that support high biodiversity by supplying a physical structure for nurseries for juvenile fish. Key species in a kelp forest include: crayfish, octopus, reef fish and in many places also mammals such as seals and sea lions, otters, dolphins and whales. Australia's kelp forests form the Great Southern Reef (GSR) which is a global biodiversity hotspot, ~70% of the fish, seaweeds and invertebrate species in the Great Southern Reef are found nowhere else in the world! (comparable rates of endemism for the Great Barrier Reef are <10%).

Carbon sink

Kelp forests represent an important and underappreciated carbon sink in the ocean. They are some of the fastest growing plants on the planet. Kelps store organic carbon as standing biomass and sequester carbon through the export and burial of detritus in the deep ocean. Kelp plants take up inorganic carbon (including CO2) from water and convert it into plant tissue (i.e., organic carbon biomass). In this way kelp forests can be regarded as a carbon sink. Also, living kelp are continuously exporting biomass and carbon to adjacent environments where it is long- term buried in seafloor sediments or transported to deep ocean carbon stores.

Please see below the certificate of retirement.

Eligible offsets retirement summary

Offsets retired 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 retired (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 (%)**
6.5 MW cogeneration project in Akbarpur, Punjab	VCU	Verra	02/11/2023	10776-247234992-247235082-VCS-VCU-290-VER-IN-1-1160-01012015-31122015-0	2015		91	0	0	91	100%
Stapled to											
Canopy Blue Kelp Reforestation Credit			02/11/2023	KRC 14,639 - 14,730	2022	91	-	-	0	-	-
									Total eligible offsets retired and used for this report	91	
									Total eligible offsets retired this report and banked for use in future reports	0	

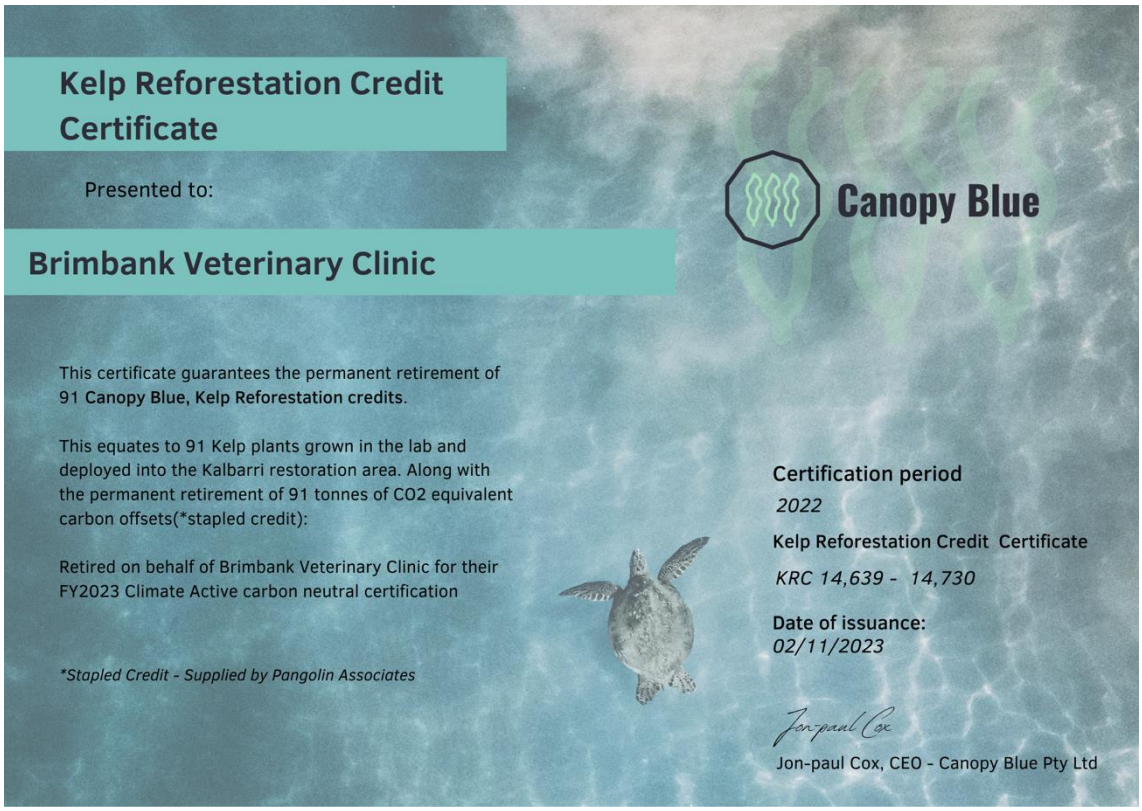
Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Verified Carbon Units (VCUs)	91	100%

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION



Kelp Reforestation Credit Certificate

Presented to:

Brimbank Veterinary Clinic

Canopy Blue

This certificate guarantees the permanent retirement of 91 **Canopy Blue, Kelp Reforestation credits**.

This equates to 91 Kelp plants grown in the lab and deployed into the Kalbarri restoration area. Along with the permanent retirement of 91 tonnes of CO2 equivalent carbon offsets(*stapled credit):

Retired on behalf of Brimbank Veterinary Clinic for their FY2023 Climate Active carbon neutral certification

**Stapled Credit - Supplied by Pangolin Associates*

Certification period

2022

Kelp Reforestation Credit Certificate

KRC 14,639 - 14,730

Date of issuance:
02/11/2023

Jon-paul Cox

Jon-paul Cox, CEO - Canopy Blue Pty Ltd

APPENDIX B: ELECTRICITY SUMMARY

There are two international best-practice methods for calculating electricity emissions – the location-based method and the market-based method. Reporting electricity emissions under both methods is called dual reporting.

Dual reporting of electricity emissions is useful, as it provides different perspectives of the emissions associated with a business's electricity usage.

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.

For this certification, electricity emissions have been set by using the market-based approach.

Market Based Approach Summary

Market Based Approach	Activity Data (kWh)	Emissions (kg CO2-e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	43,330	0	66%
Total non-grid electricity	**43,330**	**0**	**66%**
LGC Purchased and retired (kWh) (including PPAs)	0	0	0%
GreenPower	21,591	0	33%
Climate Active precinct/building (voluntary renewables)	0	0	0%
Precinct/Building (LRET)	0	0	0%
Precinct/Building jurisdictional renewables (LGCs surrendered)	0	0	0%
Electricity products (voluntary renewables)	0	0	0%
Electricity products (LRET)	0	0	0%
Electricity products jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LGCs surrendered)	0	0	0%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0%
Large Scale Renewable Energy Target (applied to grid electricity only)	4,166	0	6%
Residual Electricity	-3,407	-3,254	0%
Total renewable electricity (grid + non grid)	**69,087**	**0**	**105%**
Total grid electricity	**22,350**	**0**	**39%**
Total electricity (grid + non grid)	**65,680**	**0**	**105%**
Percentage of residual electricity consumption under operational control	97%		
Residual electricity consumption under operational control	**-3,292**	**-3,143**	
Scope 2	-2,907	-2,776	
Scope 3 (includes T&D emissions from consumption under operational control)	-385	-367	
Residual electricity consumption not under operational control	**-116**	**-110**	
Scope 3	-116	-110	.

Total renewables (grid and non-grid)	**105.19%**
Mandatory	**6.34%**
Voluntary	**32.87%**
Behind the meter	**65.97%**
Residual scope 2 emissions (t CO2-e)	**-2.78**
Residual scope 3 emissions (t CO2-e)	**-0.48**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	**0.00**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	**0.00**
Total emissions liability (t CO2-e)	**0.00**

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

Location Based Approach Summary

Location Based Approach	Activity Data (kWh) total	Under operational control			Not under operational control	
Percentage of grid electricity consumption under operational control	**100%**	**(kWh)**	**Scope 2 Emissions (kg CO2-e)**	**Scope 3 Emissions (kg CO2-e)**	**(kWh)**	**Scope 3 Emissions (kg CO2-e)**
ACT	0	0	0	0	0	0
NSW	0	0	0	0	0	0
SA	0	0	0	0	0	0
VIC	22,350	22,350	18,997	1,564	0	0
QLD	0	0	0	0	0	0
NT	0	0	0	0	0	0
WA	0	0	0	0	0	0
TAS	0	0	0	0	0	0
Grid electricity (scope 2 and 3)	**22,350**	**22,350**	**18,997**	**1,564**	**0**	**0**
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	43,330	43,330	0	0		
QLD	0	0	0	0		
NT	0	0	0	0		
WA	0	0	0	0		
TAS	0	0	0	0		
Non-grid electricity (behind the meter)	**43,330**	**43,330**	**0**	**0**		
Total electricity (grid + non grid)	**65,680**					
Residual scope 2 emissions (t CO2-e)						**19.00**
Residual scope 3 emissions (t CO2-e)						**1.56**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)						**19.00**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)						**1.56**
Total emissions liability (t CO2-e)						**20.56**

Operations in Climate Active buildings and precincts

Operations in Climate Active buildings and precincts	Electricity consumed in Climate Active certified building/precinct (kWh)	Emissions (kg CO_2-e)
N/A	**0**	**0**
Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their building or precinct certification. This electricity consumption is also included in the market based and location based summary tables. Any electricity that has been sourced as renewable electricity by the building/precinct under the market based method is outlined as such in the market based summary table.		

Climate Active carbon neutral electricity products

Climate Active carbon neutral product used	Electricity claimed from Climate Active electricity products (kWh)	Emissions (kg CO_2-e)
N/A	**0**	**0**
Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their electricity product certification. This electricity consumption is also included in the market based and location-based summary tables. Any electricity that has been sourced as renewable electricity by the electricity product under the market-based method is outlined as such in the market based summary table.		

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following emissions sources have been assessed as relevant, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. 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	Justification reason
N/A	N/A

Data management plan for non-quantified sources

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

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to this organisation'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.

Excluded emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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