

PUBLIC DISCLOSURE STATEMENT

APPLIED ENVIRONMENT & SAFETY PTY LTD

ORGANISATION CERTIFICATION CY2022

Australian Government

Climate Active Public Disclosure Statement







NAME OF CERTIFIED ENTITY	Applied Environment & Safety Pty Ltd
REPORTING PERIOD	1 January 2022 – 31 December 2022 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.
	Melanie Dixon Director 28/04/2023



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

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Version March 2023.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	12 tCO ₂ -e
OFFSETS USED	100% CERs
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: Sustainable Business Consultants

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2. CARBON NEUTRAL INFORMATION

Description of certification

This certification includes the Australian operations of Applied Environment & Safety Pty Ltd, ABN 56 604 594 185, under the operational control approach.

Organisation description

Applied Environment & Safety Pty Ltd (ABN 56 604 594 185) provides practical environmental and safety consulting services. Our services include environmental planning and approvals; development of environmental and safety management plans and systems; onsite operational health, safety and environment management; inspections and auditing; and general health, safety and environment support.

We work with a diverse range of clients and industries including construction, power and transmission, onshore oil & gas, roads and transport and more, to deliver successful environmental and safety outcomes.

The operational boundary of our carbon inventory includes Scope 1, 2 and 3 emissions including our office energy use, business travel and relevant purchases, in accordance with Climate Active's small organisation boundary and scope. Our staff operate from our clients' facilities and from our home offices in Queensland. Whilst at our clients' facilities, accommodation and meals are provided by the clients. As such the emissions relating to onsite work at client's facilities is out of our control and has not been included. In most cases, clients also cover the cost of air travel to and from their sites, however we have chosen to include these in our carbon inventory as they are the largest emissions source.

The inventory considers and quantifies carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O) emissions, measured in tonnes CO2-e. We are not aware of any relevant sources of hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF6), or nitrogen trifluoride (NF3) within the operational boundary.



3. EMISSIONS BOUNDARY

This is a small organisation certification, which uses the standard Climate Active small organisation emissions boundary and retains the same emissions boundary as in the first year of certification.

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

Fuel used in company vehicles

Business travel by air, cars, taxi, train and ride share

Cleaning and chemicals

Electricity

Food & catering

Hotel accommodation

Natural gas

Telecommunications

ICT services and equipment

Office equipment and supplies

Postal services

Waste

Water

Working from home

Non-quantified

Refrigerant

Outside emission boundary

Excluded

Food and accommodation whilst at clients' sites

Staff commuting to work

Optionally included

Air travel relating to onsite work at client's facilities



4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Applied Environment & Safety commits to reducing total emissions of its business operations by 30% per cent by CY2026, from a CY2020 baseline.

Initiative	CY2022	CY2023	CY2024	CY2025	CY2026	Target		
Energy								
Incentivize staff using Carbon Neutral energy plans	x	x	x	x		Implementation of 100% Carbon Neutral home energy by CY2025		
60% electricity coverage through home solar panels for people working from home	x	x	x	x		Target met for CY2022, aim to continue to meet or exceed initiative in coming years'		
		Compa	ny vehicle	s and tran	sport			
Changing vehicle fleet to electric vehicles					х	100% electric vehicles by CY2026		
Policy								
Purchase of carbon neutral certified products and services	x	x	x	x	x	Annual updates to the procurement plan and investigating the market for carbon neutral alternatives		

Emissions reduction actions

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The main actions taken in 2022 were as shown in the table above.



5. EMISSIONS SUMMARY

Emissions over time

Emissions since base year					
		Total tCO ₂ -e (without uplift)	Total tCO ₂ -e (with uplift)		
Base year (year 1)	2020	12.6	13.4		
Year 2:	2021	15.4	16.1		
Year 3:	2022	10.9	11.4		

Significant changes in emissions

Emission source name	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Detailed reason for change
Short economy class flights	9.8	6.8	Changed distances to client sites
Very short flights	1.7	1.1	Changed distances to client sites
Petrol: Medium car	1.4	2.3	Changed distances to client sites

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

Certified brand name	Product/Service/Building/Precinct used
N/A	



Emissions summary

The electricity summary is available in Appendix B. Electricity emissions are quantified as 0 kg CO_2 -e as Applied Environment & Safety does not own or lease an office.

Emission category	Sum of total emissions (t CO ₂ -e)
Accommodation and facilities	0.03
Cleaning and Chemicals	0.00
Climate Active carbon neutral products and services	0.00
Electricity	0.00
Food	0.00
ICT services and equipment	0.34
Natural gas	0.00
Office equipment & supplies	0.07
Postage, courier and freight	0.01
Refrigerants	0.00
Transport (Air)	7.90
Transport (Land and Sea)	2.48
Waste	0.02
Water	0.02
Working from home	0.02
Total emissions	10.89

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions that cannot be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

Reason for uplift factor	tCO ₂ -e
mandatory 5% uplift for small organisations	0.55
Total of all uplift factors	0.55
Total emissions footprint to offset (total emissions from summary table + total of all uplift factors)	11.44



6.CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emissions to offset is 12 t CO_2 -e. The total number of eligible offsets used in this report is 12. Of the total eligible offsets used, 4 t CO_2 -e were previously banked and 30 t CO_2 -e were newly purchased and retired. 22 t CO_2 -e are remaining and have been banked for future use.

Co-benefits

Energy Wind-farm Ningxia Helanshan Project, China

Wind turbines are installed near the inner Mongolian border in China. The electricity is supplied into the Northwest China Power Grid which will reduce air pollution by replacing coal-fired power plants with clean, renewable power and reduce air pollution. Due to the location of this wind farm, impacts on wildlife, the environment and the surrounding population is minimal. The project generates employment opportunities during the construction and operation phases. Technicians were trained in Spain on operating the advanced wind power technologies used in this project.

Yarra Yarra Biodiversity Corridor, Western Australia

This biodiverse reforestation projects removes CO2 from the atmosphere and helps to restore the environment in the northern wheatbelt of Southwestern Australia. The plantings of native trees and shrubs contains over 30 species of conservation significance. The goal is to link small patches of remaining vegetation and nature reserves to create a green corridor to help restore ecosystems and to preserve threatened and unique flora and fauna. This project created over 400 jobs with over 50 indigenous roles and contributes to the positive mental health and wellbeing of indigenous communities. These projects contribute to nine Sustainable Development Goals.

Metro Delhi Project, India

During the last two decades Delhi has had an exponential growth in vehicles in the city. The Delhi Metro replaces the trips made by these conventional transport options, reducing emissions per passenger-kilometre. The Metro is also a faster, safer, and more reliable way of getting around. The Metro system stretches 102 km around Delhi, transporting around 1.5 million passengers daily. The project is certified as contributing to improved social wellbeing as well, as a result of less time lost due to congestion and fewer accidents. In addition, the decreased particulate air pollution helps decreases respiratory disease. For every tree cut during construction of the project, ten trees have been planted in afforestation projects around Delhi and other areas of India. The project complies with all environmental regulations, and was the first metro project worldwide to receive the ISO14001 environmental certification for good environmental management. Modern and efficient mass transport systems like the Delhi Metro are not common in India, and the project should help demonstrate their potential for success in other regions.



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 (%)
Biodiverse Reforestation - Yarra Yarra Biodiversity Corridor, stapled to CN-316 Renewable Energy Wind-farm.			6 May 2021	<u>GS1-1-AU-GS3039-</u> <u>21-2022-20595-1141-</u> <u>1175</u>	2022	35	-	-	-	-	-
CN-316 - Ningxia Helanshan Wind-farm Project, Ningxia Autonomous Region, China	CER	ANREU	12 May 2021	1,011,041,860 - 1,011,041,894 (see Appendix A)	CP-2 2013- 2016	-	35	31	0	4	33%
Biodiverse Reforestation - Yarra Yarra Biodiversity Corridor, stapled to Metro Delhi Project			20 April 2023	12PWA350252B - 12PWA350281B	2023	30	-	-	-	-	-
Metro Delhi Project, India	CER	ANREU	20 April 2023	239,761,210 - 239,761,239 (see Appendix A)	CP-2 2014- 2016	-	30	0	22	8	67%
Total eligible offsets retired and used for this report							12				
Total eligible offsets retired this report and banked for use in future reports 22											

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Certified Emissions Reductions (CERs)	12	100%



7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A



APPENDIX A: ADDITIONAL INFORMATION

Evidence of retirement of eligible offsets (retired 2021)

CN-316 - Renewable Energy Wind-farm Ningxia Helanshan, China

										Change Pa	issword	Contact Us	Log Out	Help
ian Government Energy Regulator	Australian National Registry of Emissions Units													
lome	Transaction Details									Logged	l in as: Rayn	nond Wilson / Indust	ny User	
Holders	Iransaction Details													
	Transaction details appear below.													
tion Summary	Transaction Successfully Approved													
on Log	Transaction ID	AU18377												
fications	Current Status	Sending (91)												
ports	Status Date	12/05/2021 13:36:01 (AE	ST)											
		12/05/2021 03:36:01 (GN	IT)											
	Transaction Type	Cancellation (4)												
	Transaction Initiator	Wilson, Raymond Glen	Wilson, Raymond Glen											
	Transaction Approver	Wilson, Raymond Glen												
	Comment	Retired on behalf of Appli	ed Environment & Sa	afety Pty Ltd for their Cli	imate Active Ca	arbon Neutral C	Organisation o	ertification for CY2020)					
	Transferring Account				A	cquiring Acco	ount							
	Account AU-2545 Number				i	Account Number	AU-2764							
	Account Name Carbon Neutral Pty Ltd					Account Name	e Voluntary	Cancellation - CP2						
	Account Holder Carbon Neutral Pty Ltd					Account Hold	er Common	wealth of Australia						
	Transaction Blocks													
	Party Type Transaction Type	Original CP Current CP	ERF Project ID	NGER Facility ID	NGER Facil	ity Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial R	ange	1	Quantity
	CN CER Kyoto Voluntary Cancellation	2 2						CN-316			1,011,04	1,860 - 1,011,041	.894	35
	Transaction Status History													
	Status Date			Statu	us Code									
	12/05/2021 13:36:05 (AEST)			Comp	pleted (4)									

Yarra Yarra Biodiverse Reforestation certificate

J F



carbon**neutral**

Encouraging positive social, environmental and economic change with solutions that help overcome the effects of the climate crisis.

Carbon Neutral Pty Ltd is regulated by the Australian Securities and Investments Commission and holds This is to certify that

Applied Environmental & Safety

has permanently surrendered

35 tonnes

by investing in **Gold Standard Australian Native Reforestation** carbon offsets in the Yarra Yarra *Biodiversity Corridor.*

Thank you for choosing to make a difference to our planet and future generations by combating climate change.

Aghilon.

Ray Wilson | Chief Executive Officer

Issue Date: 6 May 2021

Carbon Neutral retires an equivalent number of verified carbon credits from an international project for all Gold Standard PERs for any claims of carbon offsetting (and carbon neutrality where applicable).



Evidence of retirement of eligible offsets (retired 2023)

Metro Delhi Project, India

												Change P	assword	Contact Us	Log Out	Help
Australian Government Clean Energy Regulator	Australia National of Emiss	an I Registry sions Units														
ANREU Home Account Holders Accounts Unit Position Summary	Transaction De	etalls appear below.										Logged	in as: Georg	iana Rogers / Indus	thy User	
Projects	Transaction ID		AU27020													
Transaction Log	Current Status		Completed	(4)												
CER Notifications	Status Date		20/04/2023 20/04/2023	20/04/2023 19:16:40 (AEST) 20/04/2023 09:16:40 (GMT)												
Public Reports	Transaction Type		Cancellation	Cancellation (4)												
My Profile	Transaction Initia	ator	Wilson, Ray	Wilson, Raymond Glen												
	Transaction App	Rogers, Georgiana S A														
	Comment	Retired on behalf Applied Environment & Safety Pty Ltd for its CY2022 and subsequent Climate Active carbon neutral organisation certification.														
	Transferring Acco						Acquiring Accourt	nt								
	Account						Account	AU-2764								
	Account Name	Carbon Neutral Pty Ltd						Account Name	Voluntary Can	cellation - CP2						
	Account Holder	Carbon Neutral Pty Ltd						Account Holder	Commonwealt	h of Australia						
	Transaction Block	ks														
	Party Type	Transaction Type	Original CP	Current CP	ERF Project ID	NGER Facility	ID NGER	Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial R	ange	Q	uantity
	IN CER	Kyoto Voluntary Cancellation	2	2						IN-4463			239,761	210 - 239,761,23	9 21	0
	Transaction Statu	is History														
	Status Date					5	Status Code									
	20/04/2023 19:1640 (ABST) Completed (4) 20/04/2023 09:16-40 (OMT)															

Yarra Yarra Biodiverse Reforestation certificate



This is to certify that

Applied Environment & Safety

has permanently surrendered

30 tonnes of **Biodiverse Reforestation Carbon Offsets** from the Yarra Yarra Biodiversity Corridor.

Thank you for choosing to make a difference to our planet and future generations by combating climate change.



Encouraging positive social, environmental and economic change with solutions that help overcome the effects of the climatecrisis.

arbon Neutral Pty Ltd is regulated by the Australian ecurities and Investments Commission and holds Ray Wilson | Chief Executive Officer

Issue Date: 20 April 2023 | Emissions Period: 1 January 2022 - 31 December 2022+

Serial numbers (inclusive): 12PWA350252B - 12PWA350281B. Carbon Neutral retires an equal number of verified carbon credits from an international project for all Biodiverse Carbon Offsets for any claims of carbon offsetting (and carbon neutrality where applicable). Serial numbers (inclusive): CDM CER IN-4463 239,761,210 - 239,761,239.



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 (Scope 2 + 3) have been quantified as 0 kg CO2e as Applied Environment & Safety does not own or lease any office premises.



Market-based approach summary			
Market-based approach	Activity Data (kWh)	Emissions (kg CO ₂ -e)	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)	0	0	0%
GreenPower	0	0	0%
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)	0	0	0%
Residual Electricity	0	0	0%
Total renewable electricity (grid + non grid)	0	0	0%
Total grid electricity	0	0	0%
Total electricity (grid + non grid)	0	0	0%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	0	0	
Scope 2	0	0	
Scope 3 (includes T&D emissions from consumption under operational control)	0	0	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	0.00%
Mandatory	0.00%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO ₂ -e)	0.00
Residual scope 3 emissions (t CO ₂ -e)	0.00
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 CO ₂ -e)	0.00

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



Location-based approach	Activity Data (kWh) total	Und	er operational	Not under operational control		
Percentage of grid electricity consumption under operational control	100%	(kWh)	Scope 2 Emissions (kgCO ₂ -e)	Scope 3 Emissions (kgCO ₂ -e)	(kWh)	Scope 3 Emissions (kgCO ₂ -e)
ACT	0	0	0	0	0	0
NSW	0	0	0	0	0	0
SA	0	0	0	0	0	0
VIC	0	0	0	0	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)	0	0	0	0	0	0
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	0	0		
VIC	0	0	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)	0	0	0	0		
Total electricity (grid + non grid)	0					

Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e) 0.0	0
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e) 0.0	D
Residual scope 3 emissions (t CO ² -e) 0.0	D
Residual scope 2 emissions (t CO2-e)0.0	0

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 CO₂-e)
N/A	0	0
Climate Active carbon neutral electricity is not renewable elec Active member through their building or precinct certification. location based summary tables. Any electricity that has been market based method is outlined as such in the market based	tricity. These electricity emissions have been of This electricity consumption is also included in sourced as renewable electricity by the building I summary table.	offset by another Climate the market based and g/precinct under the



Climate Active carbon neutral electricity products

Climate Active carbon neutral product used	Electricity claimed from	Emissions				
	Climate Active electricity	(kg CO ₂ -e)				
	products (kWh)					
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 <u>one</u> 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. <u>Data unavailable</u> Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
- 4. <u>Maintenance</u> Initial emissions non-quantified but repairs and replacements quantified.

Relevant non-quantified emission sources	Justification reason
Refrigerant	Immaterial

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. <u>Size</u> The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions.
- 2. <u>Influence</u> The responsible entity has the potential to influence the reduction of emissions from a particular source.
- <u>Risk</u> 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.
- <u>Outsourcing</u> 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
Food and accommodation whilst at clients' sites working as contractors	No	No	No	No	No	Applied Environment & Safety has no control over the carbon emissions relating to the food and accommodation at clients' sites and these items are paid for by the clients.
Staff commuting to work	No	No	No	No	No	All staff work from home or from client sites.







An Australian Government Initiative