




PUBLIC DISCLOSURE STATEMENT

**APPLIED ENVIRONMENT AND SAFETY PTY
LTD**

**ORGANISATION CERTIFICATION
CY2021**

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY	Applied Environment & Safety Pty Ltd
REPORTING PERIOD	1 January 2021 – 31 December 2021 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>Melanie Dixon Director</p> <p>26/05/2022</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	17 tCO ₂ -e
OFFSETS BOUGHT	100% CERs
RENEWABLE ELECTRICITY	N/A

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2. CARBON NEUTRAL INFORMATION

Description of certification

This certification is for Applied Environment & Safety Pty Ltd's Australian operations, ABN 56 604 594 185.

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 standard 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.

“Operating as a carbon neutral organisation is highly important to us, we take a lead by example approach to environmental sustainability.”

3.EMISSIONS BOUNDARY

This is a small organisation certification, which uses the standard Climate Active small organisation emissions boundary. Emission sources can be excluded if they do not occur.

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		Outside emission boundary
<p><u>Quantified</u></p> <ul style="list-style-type: none"> Petrol used in company vehicles Electricity (working from home) Business travel by air, cars, taxi, train and ride share Hotel accommodation Food & catering Telecommunications ICT services and equipment Office equipment Waste Water Paper and printing Postal services 	<p><u>Non-quantified</u></p> <p>N/A</p>	<p><u>Excluded</u></p> <ul style="list-style-type: none"> Natural gas Clients' office electricity Food and accommodation whilst at clients' sites Staff commuting to work Cleaning and chemicals
	<p><u>Optionally included</u></p> <ul style="list-style-type: none"> Air travel relating to onsite work at client's facilities 	

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

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 GreenPower energy plans	x	x	x	x		Implementation of 100% GreenPower by CY2025
60% electricity coverage through home solar panels for people working from home	x	x	x	x		Target reached by CY2025
Company vehicles and transport						
Changing vehicle fleet to electric vehicles	x	x	x	x	x	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

Applied Environment & Safety reached its previous year's emission reduction action of 30% electricity coverage through the installation of home solar panels.

5. EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e
Base year and year 1:	2020	13.4
Year 2:	2021	16.1

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
Flights (short distance)	58,568 km	37,739 km	Increased distances to client sites
Flights (very short distance)	6,238 km	4,040 km	Increased distances to client sites

Use of Climate Active carbon neutral products and services

No Climate Active certified products or services were used during CY2021.

Organisation emissions summary

Emission category	Sum of total emissions (tCO ₂ -e)
Accommodation and facilities	0.45
ICT services and equipment	1.09
Office equipment & supplies	0.29
Postage, courier and freight	0.05
Transport (Air)	11.52
Transport (Land and Sea)	1.66
Waste	0.26
Water	0.03
Working from home	0.02
Total	15.37

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions, which can't 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
Compulsory additional 5% of the total to be added for small organisations	0.77
Total of all uplift factors	0.77
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	16.13

6. CARBON OFFSETS

Offsets retirement approach

In arrears	
1. Total number of eligible offsets banked from last year's report	21
2. Total emissions footprint to offset for this report	17
3. Total eligible offsets required for this report	17
4. Total eligible offsets purchased and retired for this report	0
5. Total eligible offsets banked to use toward next year's report	4

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.

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 (%)
Biodiverse Reforestation - Yarra Yarra Biodiversity Corridor	Gold Standard	Carbon Neutral	22 April 2021	GS1-1-AU-GS3039-21-2022-20595-1141-1175	2022	35	-	-	-	-	0%
CN-316 - Renewable Energy Wind-farm Ningxia Helanshan, China	CDM-CER	ANREU	22 April 2021	1,011,041,860 - 1,011,041,894 See screenshot in Appendix A	CP-2 2013-2016	-	35	14	4	17	100%
Total offsets retired this report and used in this report										17 tCO ₂ -e	
Total offsets retired this report and banked for future reports										4 tCO ₂ -e	
Type of offset units		Quantity (used for this reporting period claim)				Percentage of total					
Certified Emissions Reductions (CERs)		17				100%					


7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

Evidence of retirement of eligible offsets


Australian National Registry of Emissions Units

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Logged in as: Raymond Wilson / Industry User

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Transaction Details

Transaction details appear below.

Transaction Successfully Approved

Transaction ID	AU18377
Current Status	Sending (S1)
Status Date	12/05/2021 13:36:01 (AEST) 12/05/2021 03:36:01 (GMT)
Transaction Type	Cancellation (4)
Transaction Initiator	Wilson, Raymond Glen
Transaction Approver	Wilson, Raymond Glen
Comment	Retired on behalf of Applied Environment & Safety Pty Ltd for their Climate Active Carbon Neutral Organisation certification for CY2020

Transferring Account

Account Number: AU-2545
 Account Name: Carbon Neutral Pty Ltd
 Account Holder: Carbon Neutral Pty Ltd

Acquiring Account

Account Number: AU-2764
 Account Name: Voluntary Cancellation - CP2
 Account Holder: Commonwealth of Australia

Party	Type	Transaction Type	Original CP	Current CP	ERF_Project_ID	NGER Facility ID	NGER Facility Name	Safeguard	Kyoto Project #	Vintage	Expiry Date	Serial Range	Quantity
CN	CER	Kyoto Voluntary Cancellation	2	2					CN-316			1,011,041,860 - 1,011,041,894	35

Transaction Status History

Status Date	Status Code
12/05/2021 13:36:05 (AEST) 12/05/2021 03:36:02 (GMT)	Completed (4)

APPENDIX B: ELECTRICITY SUMMARY

Applied Environment & Safety does not have an office but operates solely with staff working from home or at clients' sites. Office-based electricity consumption is not part of this certification boundary and has been excluded (see Appendix D). Electricity consumed due to working from home is calculated and included in the organisation's emissions summary separately.

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 emissions 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
N/A				

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.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
Natural gas	No	No	No	No	No	No
Office electricity	No	No	No	No	No	No
Food and accommodation whilst at clients' sites working as contractors	No	No	No	No	No	No
Staff commuting to work	No	No	No	No	No	No
Cleaning and chemicals	No	No	No	No	No	No

Emissions from food and accommodation whilst staying at clients' sites have been assessed and deemed not relevant. Emissions associated with office electricity, cleaning and chemicals, and staff commute have been excluded due to no office space being used by the organisation. Natural gas is not used on working from home premises.



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