PUBLIC DISCLOSURE STATEMENT

HYDROFLUX PTY LIMITED

ORGANISATION CERTIFICATION
FY2023-24

Australian Government

Climate Active
Public Disclosure Statement

HYDROFLUX
WATER | SCIENCE | TECHNOLOGY

An Australian Government Initiative

Climate Active

NAME OF CERTIFIED ENTITY	Hydroflux Pty Limited
REPORTING PERIOD	1 July 2023 – 30 June 2024 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.* 
	John Koumoukelis Chief Executive Officer 10 November 2025

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

Version 9.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	973 tCO_2-e
CARBON OFFSETS USED	100% Gold Standard VERs
RENEWABLE ELECTRICITY	46.03%
CARBON ACCOUNT	Prepared by: Cress Consulting Pty Ltd
TECHNICAL ASSESSMENT	Next technical assessment due: FY 2025-26

Contents

2. CERTIFICATION INFORMATION

Description of organisation certification

This organisation certification is for the business operations of Hydroflux Pty Limited, ABN 19 163 533 186, including the organisational emissions from Hydroflux subsidiaries listed in the table below.

The scope of this certification covers operations of Hydroflux Pty Limited throughout Australia, as well as its international operations in New Zealand and the Pacific Islands. All Hydroflux offices have been included in the emissions boundary. The organisation boundary has been defined based on an operational control approach.

Certified products offered by Hydroflux Epco Pty Ltd, Hydroflux Industrial Pty Ltd, and Hydroflux Utilities Pty Ltd are excluded from this certification. It is noted that there is an overlap of emissions in the design, project management, and sales operations. The overlapping organisational emissions are offset within this certification.

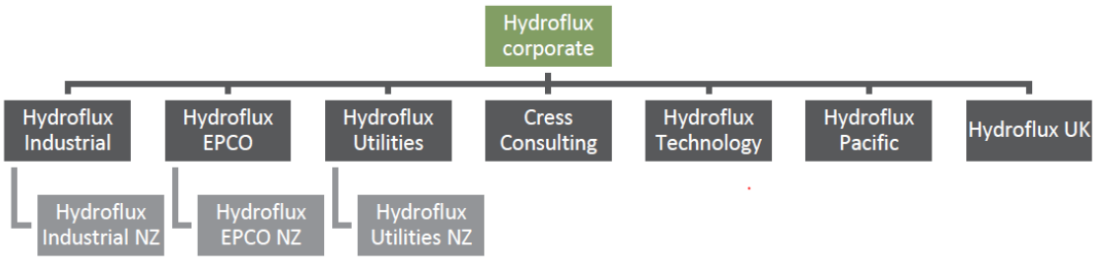
This Public Disclosure Statement includes information for FY2023-24 reporting period.

Organisation description

The Hydroflux Group of companies are sustainability driven and were created to deliver unrivalled engineering and scientific knowhow to issues of sustainability, climate adaption and environmental protection with specific focus on water, wastewater, renewable energy, climate resilience and environmental protection.

Hydroflux Pty Limited is a privately owned Australian business with offices located in Australia, New Zealand and the Pacific Islands and United Kingdom.

The company is a diverse business that operates via its network of subsidiary companies. Each company offers specific products and services and operate independently. The detailed corporate structure is presented in the following diagram.



The following subsidiaries are included within this certification:

Legal entity name	ABN	ACN
Hydroflux Epco Pty Ltd	93 161 226 606	161 226 606
Hydroflux Industrial Pty Ltd	86 163 374 338	163 374 338
Hydroflux Technology Pty Ltd	19 163 536 810	163 536 810
Hydroflux Utilities Pty Ltd	68 166 065 461	166 065 461
Cress Consulting Pty Ltd	98 150 137 723	150 137 723
Hydroflux Pacific (Fiji)	TIN: 50 56620 06	
Hydroflux Limited (UK)	VAT: 246 1877 84	
Hydroflux Epco NZ Limited	NZBN: 9429046927620	
Hydroflux Industrial NZ Limited	NZBN: 9429046950734	
Hydroflux Utilities NZ Limited	NZBN: 9429046950727	
Hydroflux Epco Pty Ltd	93 161 226 606	
Hydroflux Industrial Pty Ltd	86 163 374 338	

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

Climate Active Carbon Neutral Products and Services

Construction materials and services

Electricity

Food

ICT services and equipment

Machinery and vehicles

Office equipment and supplies

Postage, courier, and freight

Professional services

Refrigerants

Stationary energy (gaseous fuels)

Transport (Air)

Transport (Land and sea)

Waste

Water

Non-quantified

Electricity (international offices)

WFH (international offices)

Optionally included

N/A

Outside emission boundary

Excluded

N/A

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Hydroflux Pty Limited is a sustainability driven organisation that takes its climate responsibility seriously. Building on our goals from the previous reporting period, Hydroflux Pty Limited is focused on emissions sources where we have the greatest potential to influence emissions reduction.

We recognise that meaningful emissions reduction action takes time, so we have revised our goals and will build on previous years' actions. Hydroflux Pty Limited aims to:

- Continue purchasing 100% renewable energy for lighting in owned and leased Sutherland offices which is estimated to offer about 9% reduction of Scope 2 and 3 energy-related emissions from FY2021.
- Transition owned fleet to electric vehicles by 2030 which is estimated to offer about 70% reduction of Scope 1 emissions from FY2021.
- Continue implementation of the waste management program to achieve our goal of zero waste to landfill by 2030 which is estimated to offer a 1% reduction in Scope 3 emissions from FY2021. We will develop an e-waste reuse/recycling program and rollout in all offices by the end of December 2024.
- Define what sustainable procurement means to the business and determine how this definition will best guide a sustainable procurement strategy, policy and the way we conduct business by the end of December 2025.

Emissions reduction actions

In the FY2023-24 reporting period, Hydroflux Pty Limited:

- Purchased 100% renewable energy for owned and leased Sutherland offices, achieving 27.31% reduction in electricity emissions.
- Recycled cardboard, paper and uniforms, achieving 29% reduction in general waste emissions.
- Recycled and diverted from landfill 16 kg of coffee pods, 16 kg of coffee cups, 36 kg of aluminium cans, 187 kg cardboard, 106 kg paper, and 27 kg uniforms in Sutherland offices.
- Continued to encourage employees to commute to and from work in the most safe, efficient, and sustainable manner through the Green Transport Initiative.
- Maintained Hydroflux Sustainability Committee to support cross-functional collaboration and determine ways Hydroflux can improve its existing sustainability practices.

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year			
		Total tCO_2-e (without uplift)	**Total tCO_2-e** (with uplift)
Base year:	2020-2021	462.56	469.54
Year 1:	2021-2022	488.89	490.34
Year 2:	2022-2023	964.77	966.39
Year 3:	2023-2024	970.57	972.45

Significant changes in emissions

Hydroflux Pty Limited organisation emissions have slightly risen due to business growth. Significant changes (+/- 10%) in the total emissions compared to the previous year from emission sources that make up at least 10% of the total carbon inventory were due to business development. Other changes in the total emissions are related to the inclusion of additional purchased services in the carbon inventory boundary regarding storage, banking and entertainment.

Significant changes in emissions			
Emission source	**Previous year emissions** (t CO_2-e)	**Current year emissions** (t CO_2-e)	**Reason for change**
Long economy class flights (>3,700km)	62.71	105.22	Business development

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

Certified brand name	Product/Service/Building/Precinct used
Qantas Airways Limited	Flights
Virgin Australia Holdings	Flights
Jetstar Airways Pty Ltd	Flights
Telstra Corporation Limited	Mobile phone plans & mobile broadband plans inc. SIM kits

Emissions summary

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

Emission category	Scope 1 emissions (tCO_2-e)	Scope 2 emissions (tCO_2-e)	Scope 3 emissions (tCO_2-e)	Total emissions (t CO_2-e)
Accommodation and facilities	0.00	0.00	31.97	31.97
Cleaning and Chemicals	0.00	0.00	9.88	9.88
Climate Active carbon neutral products and services	0.00	0.00	0.00	0.00
Construction Materials and Services	0.00	0.00	0.00	0.00
Electricity	0.00	92.20	11.38	103.58
Food	0.00	0.00	9.43	9.43
ICT services and equipment	0.00	0.00	163.31	163.31
Machinery and vehicles	0.00	0.00	0.27	0.27
Office equipment & supplies	0.00	0.00	72.70	72.70
Postage, courier and freight	0.00	0.00	13.42	13.42
Professional Services	0.00	0.00	116.87	116.87
Refrigerants	1.90	0.00	0.00	1.90
Stationary Energy (gaseous fuels)	0.00	0.00	0.00	0.00
Transport (Air)	0.00	0.00	183.19	183.19
Transport (Land and Sea)	4.62	0.00	248.47	253.09
Waste	0.00	0.00	2.45	2.45
Water	0.00	0.00	0.95	0.95
Working from home	0.00	0.00	7.56	7.56
Total emissions (tCO_2-e)	**6.52**	**92.20**	**871.85**	**970.57**

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
Uplift to account for non-quantified electricity consumption at international offices where data is unavailable	1.6254
Uplift to account for non-quantified WFH emissions at international offices where data is unavailable	0.2528
Total of all uplift factors (tCO_2-e)	1.8782
Total emissions footprint to offset (tCO_2-e) *(total emissions from summary table + total of all uplift factors)*	**973**

6. CARBON OFFSETS

Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset unit	Quantity used for this reporting period	Percentage of total units used
Verified Emissions Reductions (VERs)	973	100%

Project name	Type of offset unit	Registry	Date retired	Serial number	Vintage	Total quantity retired	Quantity used in previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period	Percentage of total used this reporting period
Up Energy Improved Cookstoves Programme, Uganda – CPA No 020	VER	GSR	23/10/2023	GS1-1-UG-GS10918-16-2021-22968-1021-1504	2021	484	0	0	484	49.74%
Methane Gas Capture and Electricity Production at Kubratovo Wastewater Treatment Plant, Sofia, Bulgaria	VER	GSR	18/07/2022	GS1-1-BG-GS4238-6-2015-5862-16957-17172	2015	216	1	0	215	22.10%
Methane Gas Capture and Electricity Production at Kubratovo Wastewater Treatment Plant, Sofia, Bulgaria	VER	GSR	18/07/2022	GS1-1-BG-GS4238-6-2015-5862-17173-17345	2015	173	0	0	173	17.78%
Methane Gas Capture and Electricity Production at Kubratovo Wastewater Treatment Plant, Sofia, Bulgaria	VER	GSR	18/07/2022	GS1-1-BG-GS4238-6-2015-5862-16400-16740	2015	341	81	159	101	10.38%

Hydroflux Pty Limited has used carbon offsets previously retired and banked by three of its subsidiaries, namely Hydroflux Industrial Pty Ltd, and Hydroflux Epco Pty Ltd, for this reporting period. 388 units were previously banked to Hydroflux Industrial, as outlined in the Hydroflux Industrial Product Certification PDS, and 101 units were previously banked to Hydroflux Epco, as outlined in the Hydroflux Epco Product Certification PDS.

Co-benefits

This section provides a brief description of the carbon offset projects purchased and retired for Hydroflux Pty Limited carbon neutral claim.

Energy efficiency improvement project leading to multiple sustainable development impacts in Uganda

This project relates to 100 per cent of the total amount of offsets purchased and retired for this reporting period. The activity includes the initial distribution of improved cookstoves (ICS) during the year 2017 to approximately 25,600 families within 3 districts of Uganda. Most families living in the area cook currently with traditional three-stone fires which consume large amounts of firewood. This means that a lot of time is spent on firewood collection. The firewood collection is also causing deforestation and land degradation. Firewood combustion is a significant source of greenhouse gas (GHG) emissions responsible for climate change. In addition to the environmental consequences, there are serious health implications related to inefficient cooking methods through exposure to smoke and other emissions. This project will be attempting to address these issues by implementing energy-efficient cookstoves for households. The energy-efficient stoves will allow households to cook the same amount of food using less firewood.

The project meets the following Sustainable Development Goals

Up Energy Efficiency Cookstove Programme, Uganda

This project involves the replacement of less efficient cooking stoves using woody biomass with improved cooking stoves (ICS). The project ICSs replace the low efficiency, traditional biomass fired stoves, used for meeting similar thermal energy needs. The project saves on consumption of woody biomass and generates emission reductions by distribution of the fuel-efficient wood / charcoal stoves.

The project meets the following Sustainable Development Goals

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

The following RECs have been surrendered to reduce electricity emissions under the market-based reporting method.

1. Large-scale Generation certificates (LGCs)*	0

* LGCs in this table only include those surrendered voluntarily (including through PPA arrangements), and does not include those surrendered in relation to the LRET, GreenPower, and jurisdictional renewables.

Project supported by LGC purchase	Project location	Eligible unit type	Registry	Surrender date	Accreditation code	Certificate serial number	Generation year	Fuel source	Quantity (MWh)
N/A									
								Total LGCs surrendered this report and used in this report	**N/A**

APPENDIX A: ADDITIONAL INFORMATION

Hydroflux is committed to the following principles:

- Compliance with our ISO14001 Accredited Environmental Policy
- Compliance with our ISO 45001 & AS/NZS 4801 Accredited Safety Policy
- Compliance with our ISO 31000 Risk Management System
- Compliance with our Modern Slavery Statement
- Providing a safe and respectful workplace
- Encouraging a culture of continuous improvement
- Sustainable water management, specifically the principles of water stewardship
- Conserving natural resources by reusing and recycling where possible
- Ensuring the responsible use of energy throughout the organisation

References:

- H-Sustainability-Policy
- HG-Modern-Slavery-Statement

Hydroflux aims to bring the highest level of engineering and scientific knowhow to deliver sustainability, climate adaption and environmental protection solutions with a specific focus on water and wastewater. Climate Active certification aligns with our values, business objectives and future direction by connecting our activities in the sustainable water and energy arenas with our values of reducing carbon emissions and helping to bring clean water to those that need it most. Hydroflux has invested in biogas capture technology to produce renewable energy and operates biogas plants to help our customers reduce their carbon emissions. About 80% of business and employee charity contributions are directly related to water. One of the most significant is our partnership with Love Mercy Australia's Well Worth It program delivering wells that help relieve poverty through easy and safe access to clean water in rural Northern Ugandan villages. Climate Active certification demonstrates that Hydroflux takes its climate responsibility seriously.

Figure 1: Hydroflux charity contributions related to water in Northern Uganda

Figure 2: Hydroflux Built Biogas Plant

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 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	57,591	0	27%
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)	39,480	0	19%
Residual Electricity	113,828	103,584	0%
Total renewable electricity (grid + non grid)	**97,072**	**0**	**46%**
Total grid electricity	**210,900**	**103,584**	**46%**
Total electricity (grid + non grid)	**210,900**	**103,584**	**46%**
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	**113,828**	**103,584**	
Scope 2	101,320	92,201	
Scope 3 (includes T&D emissions from consumption under operational control)	12,509	11,383	
Residual electricity consumption not under operational control	**0**	**0**	
Scope 3	0	0	

Total renewables (grid and non-grid)	**46.03%**
Mandatory	**18.72%**
Voluntary	**27.31%**
Behind the meter	**0.00%**
Residual scope 2 emissions (t CO_2-e)	**92.20**
Residual scope 3 emissions (t CO_2-e)	**11.38**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**92.20**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**11.38**
Total emissions liability (t CO_2-e)	**103.58**

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 ($kgCO_2$-e)**	**Scope 3 Emissions ($kgCO_2$-e)**	**(kWh)**	**Scope 3 Emissions ($kgCO_2$-e)**
NSW	157,642	157,642	107,197	7,882	0	0
VIC	25,564	25,564	20,195	1,789	0	0
QLD	27,694	27,694	20,217	4,154	0	0
Grid electricity (scope 2 and 3)	**210,900**	**210,900**	**147,609**	**13,826**	**0**	**0**
NSW	0	0	0	0		
VIC	0	0	0	0		
QLD	0	0	0	0		
Non-grid electricity (behind the meter)	**0**	**0**	**0**	**0**		
Total electricity (grid + non grid)	**210,900**					

Residual scope 2 emissions (t CO_2-e)	**147.61**
Residual scope 3 emissions (t CO_2-e)	**13.83**
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**147.61**
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO_2-e)	**13.83**
Total emissions liability	**161.43**

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 electricity 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
Electricity (international offices)	Data is unavailable but uplift applied.
WFH (international offices)	Data is unavailable but uplift applied.

Data management plan for non-quantified sources

The data management plan below outlines how more rigorous quantification can be achieved for material (greater than 1%) non-quantified emission sources.

Electricity from international offices:

Hydroflux Pty Limited will work with the lessors of their international offices to record their electricity usage. We plan to have this in place before FY2025-26.

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	-	-	-	-	-	

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