



PUBLIC DISCLOSURE STATEMENT

HYDROFLUX PTY LIMITED

**ORGANISATION CERTIFICATION
FY2020-21**


Australian Government

Climate Active Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Hydroflux Pty Ltd
REPORTING PERIOD	Financial year 1 July 2020 – 30 June 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>Adrian Minshull CEO, Hydroflux Pty Ltd 31st December 2021</p>



Australian Government
**Department of Industry, Science,
Energy and Resources**

Public Disclosure Statement documents are prepared by the submitting organisation. The material in the Public Disclosure Statement documents represents the views of the organisation and do not necessarily reflect the views of the Commonwealth. The Commonwealth does not guarantee the accuracy of the contents of the Public Disclosure Statement document and disclaims liability for any loss arising from the use of the document for any purpose.

Version September 2021. To be used for FY20/21 reporting onwards.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	470 t CO ₂ -e
OFFSETS BOUGHT	100% Gold Standard VERs
RENEWABLE ELECTRICITY	18.93%
TECHNICAL ASSESSMENT	6 October 2021 Barbara Albert 100% Renewables Next technical assessment due: FY2023
THIRD PARTY VALIDATION	Type 1 13 October 2021 Katherine Simmons KREA Consulting Pty Ltd

Contents

1. Certification summary	3
2. Carbon neutral information	4
3. Emissions boundary	6
4. Emissions reductions	8
5. Emissions summary.....	9
6. Carbon offsets.....	10
7. Renewable Energy Certificate (REC) Summary	12
Appendix A: Additional Information.....	13
Appendix B: Electricity summary	15
Appendix C: Inside emissions boundary	17
Appendix D: Outside emissions boundary	18

2. CARBON NEUTRAL INFORMATION

Description of certification

This public disclosure statement (PDS) supports the certification of the Australian operation (including the electricity use of international offices) of Hydroflux Pty Ltd (ABN: 19 163 533 186) as an organisation going carbon neutral under the 'Climate Active Carbon Neutral Certification Standard for Organisations'. This report includes an overview of Hydroflux Pty Ltd's greenhouse gas (GHG) emissions reduction strategy as well as a description of the GHG emissions boundaries.

The baseline emissions reported in this document are for FY2021, which is the first year of certification.

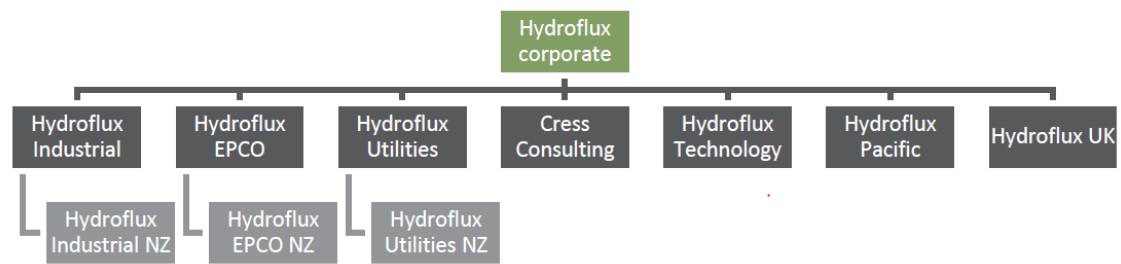
Organisation description

Established in 2013, Hydroflux Pty Ltd is a privately owned Australian business in the water and wastewater treatment industries providing a range of sustainable water and other solutions for the industrial and municipal sectors.

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 Hydroflux Group of companies was created to deliver the highest level of engineering and scientific knowhow to the emerging issues of sustainability, climate adaption and environmental protection with a specific focus on water and wastewater.

Climate Active certification demonstrates that Hydroflux is a mature company that takes it's climate responsibility seriously."



Within this certification, all relevant emissions under Hydroflux Pty Limited ABN 19 163 533 186 have been included. The boundary encompasses the operational emissions associated with the following related bodies corporate:

1. Hydroflux Epco Pty Ltd, ABN: 93 161 226 606
2. Hydroflux Industrial Pty Ltd, ABN: 86 163 374 338
3. Hydroflux Technology Pty Ltd, ABN: 19 163 536 810
4. Hydroflux Utilities Pty Ltd, ABN: 68 166 065 461
5. Cress Consulting Pty Ltd, ABN: 98 150 137 723
6. Hydroflux Pacific (Fiji), TIN: 50 56620 06
7. Hydroflux Limited (UK), VAT: 246 1877 84
8. Hydroflux Epco NZ Limited, NZBN: 9429046927620
9. Hydroflux Industrial NZ Limited, NZBN: 9429046950734
10. Hydroflux Utilities NZ Limited, NZBN: 9429046950727

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		Outside emission boundary
<u>Quantified</u>	<u>Non-quantified</u>	<u>Excluded</u>
Fleet vehicles	Hunter Storage	N/A
Refrigerants		
Electricity		
Electricity - upstream leased offices		
Water		
Hire cars		
Printing and stationery		
IT equipment		
Computer and technical services		
Food and catering		
Postage and courier		
Freight		
Taxi and ride share		
Business travel in personal vehicles		
Waste	<u>Optionally included</u>	
Air travel	Electricity – international offices	
Business accommodation		
Employee commute		
Working from home		
Telecommunications		
Professional services		

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.

International offices

Hydroflux will work with the lessors of their international offices to record the electricity usage. We plan to have this in place in the next 5 years.

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Our goals in our Australian organisations are:

- Be carbon neutral by the end of December 2021
- Implement sustainable procurement strategy by the end of December 2022
- Achieve zero waste to landfill by the end of December 2023

To achieve these goals, we will continue to undertake activities to reduce our emissions, including:

- Purchase renewable electricity for the owned Sutherland office by the end of December 2021
- Adjust the travel expenses and reimbursement policy to mandate carbon offsetting by December 2021
- Audit paper purchases to determine what portion is Climate Active-certified by the end of June 2022
- Continue encouraging employees to commute to and from work in the most safe, efficient and sustainable manner through the Green Transport Initiative
- Integrate sustainability criteria into procurement practices and supplier relationships aligned with ISO 20400 guidance by the end of December 2022
- Have a policy in place to move to EVs for owned vehicle fleet by the end of December 2022 and encourage staff to consider EVs
- Improve waste management practices through maximising recycling in all offices and organics composting where possible by the end of December 2023

5.EMISSIONS SUMMARY

Use of Climate Active carbon neutral products and services

Nil.

Organisation emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a market-based approach. Out of the 140 tCO₂e of electricity emissions under scope 2, leased assets contribute 43 tCO₂e, and organisation-owned assets contribute 98 tCO₂e.

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 (tCO ₂ -e)
Accommodation and facilities	0	0	13	13
Air Transport (km)	0	0	34	34
Electricity	0	140	0	140
Food	0	0	3	3
ICT services and equipment	0	0	68	68
Land and Sea Transport (fuel)	5	0	35	40
Land and Sea Transport (km)	0	0	79	79
Office equipment & supplies	0	0	27	27
Postage, courier, and freight	0	0	2	2
Professional Services	0	0	64	64
Refrigerants	2	0	0	2
Waste	0	0	5	5
Water	0	0	1	1
Working from home ¹	0	0	-16	-16
Total	6	140	316	463

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
Uplift to account for the electricity emissions from international offices as data is currently unavailable	7
<i>Total footprint to offset (uplift factors + net emissions)</i>	470

¹ The working from home emissions shows a negative value as it refers to the reduction in employee commute and increase in home energy use of employees who worked from home in FY21.

6. CARBON OFFSETS

Offsets strategy

Offset purchasing strategy: In arrears		
1.	Total offsets previously forward purchased and banked for this report	0
2.	Total emissions liability to offset for this report	470 t CO ₂ -e
3.	Net offset balance for this reporting period	470 t CO ₂ -e
4.	Total offsets to be forward purchased to offset the next reporting period	730 t CO ₂ -e
5.	Total offsets required for this report	470 t CO ₂ -e

Co-benefits

This section provides a brief description of the carbon offsets project purchased and retired for Hydroflux's 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:



Offsets summary

Proof of cancellation of offset units

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	Eligible quantity (tCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
Energy efficiency improvement project leading to multiple sustainable development impacts	VERs	Gold Standard Impact Registry	18 October 2021	GS1-1-UG-GS6604-16-2019-21336-7189-7658 https://registry.goldstandard.org/credit-blocks/details/217489	2019	470	0	0	470	100%
Energy efficiency improvement project leading to multiple sustainable development impacts	VERs	Gold Standard Impact Registry	18 October 2021	GS1-1-UG-GS6604-16-2019-21336-7659-8388 https://registry.goldstandard.org/credit-blocks/details/217492	2019	730	0	730	0	0%
Total offsets retired this report and used in this report									470	
Total offsets retired this report and banked for future reports								730		
Type of offset units		Quantity (used for this reporting period claim)					Percentage of total			
Verified Emissions Reductions (VERs)		470					100%			

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
2. Other RECs	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	Eligible units	Registry	Surrender date	Accreditation code (LGCs)	Certificate serial number	Generation year	Quantity (MWh)	Fuel source	Location
Not applicable	-	-	-	-	-	-	-	-	-
Total LGCs surrendered this report and used in this report							Not applicable		

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.pdf \(hydroflux.com.au\)](#)
- [Modern slavery statement reference](#)

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 clients 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 operated biogas plant

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions were calculated using the 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 (kgCO ₂ -e)	Renewable % 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 & 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)	30,520	0	19%
Residual electricity	130,747	140,302	0%
Total grid electricity	161,267	140,302	19%
Total electricity consumed (grid + non grid)	161,267	140,302	19%
Electricity renewables	30,520	0	
Residual electricity	130,747	140,302	
Exported on-site generated electricity	0	0	
Emission footprint (kgCO ₂ -e)		140,302	

Total renewables (grid and non-grid)	18.93%
Mandatory	18.93%
Voluntary	0.00%
Behind the meter	0.00%
Residual electricity emission footprint (tCO₂-e)	140

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

Location-based approach summary

Location-based approach	Activity data (kWh)	Emissions (kgCO ₂ -e)
NSW	126,626	113,964
Vic	14,264	15,547
Qld	20,377	18,950
Grid electricity (scope 2 and 3)	161,267	148,461
NSW	0	0
Vic	0	0
Qld	0	0
Non-grid electricity (behind the meter)	0	0
Total electricity consumed	161,267	148,461
Emission footprint (tCO₂-e)	148	

Climate Active carbon neutral electricity summary

Carbon neutral electricity offset by Climate Active product	Activity data (kWh)	Emissions (kgCO ₂ -e)
N/A	0	0

Climate Active carbon neutral electricity is not considered renewable electricity. The emissions have been offset by another Climate Active carbon neutral product certification.

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 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	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
Hunter Storage	Yes	No	No	No
Electricity – international offices	No	No	Yes	No

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to an 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.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
N/A	-	-	-	-	-	-



An Australian Government Initiative

