



PUBLIC DISCLOSURE STATEMENT

NORTHROP CONSULTING ENGINEERS PTY LTD

ORGANISATION CERTIFICATION

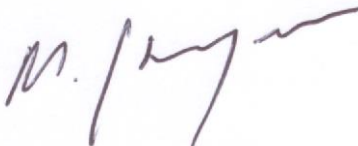
FY2021–22

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Northrop Consulting Engineers Pty Ltd
REPORTING PERIOD	1 July 2021 – 30 June 2022 [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>Mark Sturgess Managing Partner October 31, 2022</p>



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

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Version March 2022.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	1295 tCO ₂ -e
OFFSETS BOUGHT	100% ABUs + VERs
RENEWABLE ELECTRICITY	46%
TECHNICAL ASSESSMENT	N/A

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2. CARBON NEUTRAL INFORMATION

Description of certification

This carbon neutral certification is for the business operations of Legal name Northrop Consulting Engineers, ABN 21 118 108 384.

Organisation description

Northrop Consulting Engineers (trading as NC Pty Ltd, ABN 21 118 108 384) is a Climate Active certified carbon neutral medium Organisation for our corporate operations. Northrop is a multidisciplinary engineering consultancy offering sustainability, structural, mechanical, civil, hydraulic, Acoustic and ICT services. As an organisation, we are committed and passionate about leading change to create a positive legacy in the built environment. As a signatory to Engineer's Declare A Climate and Biodiversity Emergency, we are committed to leading this change, starting with our own operations and people first.

Established in 1976, Northrop is a locally-owned engineering consultancy with ten offices and 500+ people across NSW, ACT, QLD and VIC. Highly experienced in civil, structural, building services and sustainability, we also have expertise in emerging and niche engineering services.

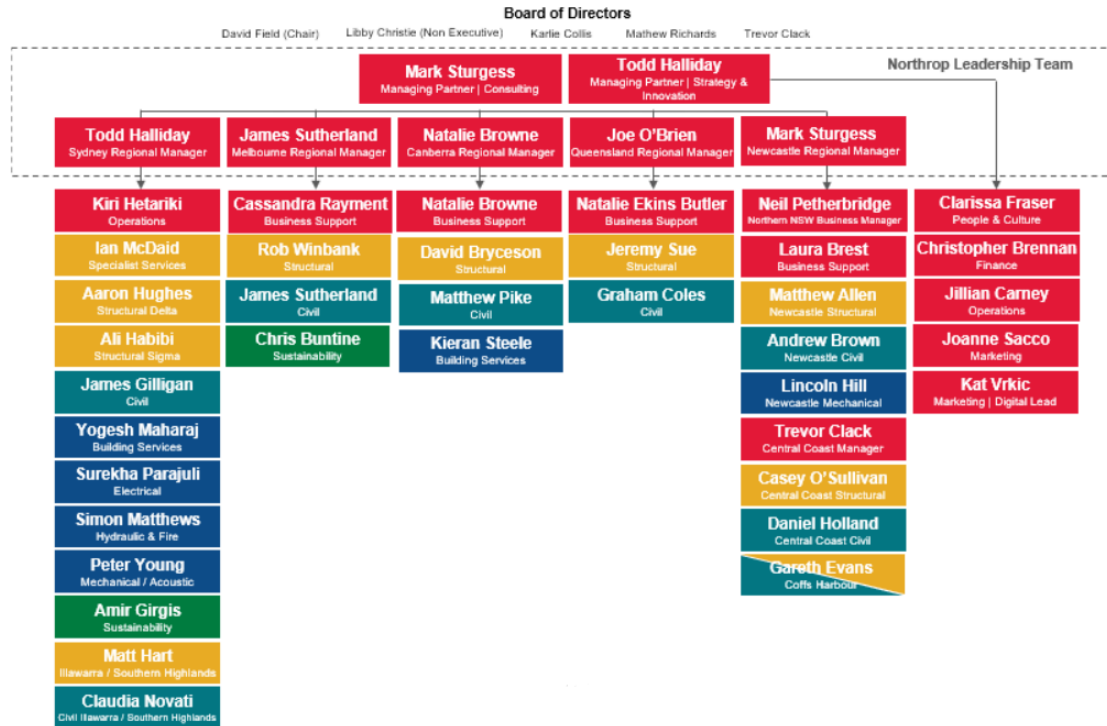
Northrop works across a range of sectors including aged care, health, education, hospitality, land development, commercial, industrial and residential.

Our Commitment also includes the following:

“Climate Active is important to Northrop as it aligns with our desire to lead the built environment to create positive change and be a part of creating sustainable, regenerative places for future generations.”

Northrop Consulting Engineers





The following subsidiaries / child companies are also included within this certification.

Legal entity name	ABN	ACN
Trading as:		
Northrop Consulting Engineers Pty Ltd	81 094 433 100	-
Parent Company:		
NC Pty Ltd	21 118 108 384	-
Child Companies:		
Northrop Consulting Engineers Pty Ltd	21 094 433 100	-
Northrop Services Pty Ltd	88 120 539 095	-
Northrop (Aust) Pty Ltd	13 137 767 518	-
Northrop Charlestown Pty Ltd	39 163 812 726	-
Northrop Engineers Pty Ltd	82 064 775 088	-
Locations:		
Northrop have offices in Melbourne, Brisbane, Canberra, Newcastle, Erina, Parramatta, Sydney, Wollongong, Coffs Harbour, Bowral.		

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 are not applicable

Outside the emissions boundary

Excluded emissions are not applicable

Inside emissions boundary		Outside emission boundary
<p><u>Quantified</u></p> <ul style="list-style-type: none"> Electricity (Tenancy and Base Building) Paper Water (Supply and Wastewater Treatment) Business travel – Flight and Accommodation Venue Hire Freight Staff Commute (Taxi and Uber) Staff Commute to Work Working from Home Waste Petrol and Gas used in Company Cars Refrigerants Cleaning Services Catering Office Furniture Office Equipment ICT Services Clothing and Footwear 	<p><u>Non-quantified</u></p> <ul style="list-style-type: none"> N/A 	<p><u>Excluded</u></p> <ul style="list-style-type: none"> Upstream transportation and distribution Downstream transportation and distribution Processing of sold products Use of sold products End-of-life treatment of sold products Downstream leased assets Franchises Investments

Data management plan for non-quantified sources

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

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

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Northrop's emissions reduction strategy is based on our Climate Commitments, which is ensuring all our projects are designed to be carbon neutral and climate resilient by 2030, and we are committed to leading this change, starting with our own operations and people first.

In addition we commit to reducing our carbon footprint per FTE by 40% in 2030 relative to our baseline year of FY2020/21.

Some key actions associated to our internal emissions reduction commitments include:

- Achieving 100% Green Power for tenancy electricity consumption.
- Implementation of a sustainable transportation plan that encourages the use of electric vehicles and promotes commuting via cycling, public transportation and ride share.
- Introduction of sustainable procurement strategy which encourages the purchase of carbon neutral / low carbon products and services.
- Increasing the proportion of our office tenancies located within buildings which meet sustainability selection criteria

Emissions reduction actions

Over the past 12 months the focus of our emission reduction actions has been to complete the shift to 100% Green Power for our office tenancies.

In addition, Northrop has taken a number of steps as part of its Climate Action strategy to build capacity and capability to advise and support our clients in reducing the carbon emissions associated with building and precinct projects. Key emission reduction actions include:

- Internally funding a Climate Action Smart Goal program whereby every group within Northrop was provided with the opportunity to define and implement an activity in support of Northrop's Climate Action commitments. The program resulted in 54 initiatives which included activities such as low carbon design tools, low carbon materials and low carbon approach to design.
- To better understand our client perspectives on climate action we surveyed 58 organisations within our client network to understand what climate change means to them and their businesses. The results were compiled into a report "Culture, Attitudes and Action on Climate Change – A Built Environment Perspective" which was made publicly available.
- To develop our technical understanding and support our people in taking climate action we have maintained our Climate Action Taskforce and our Climate Action Committees (Energy, Water, Materials and Habitat). The leadership and knowledge development work undertaken by these groups has supported our client advocacy and the development of technical capability to reduce emissions from built environment construction projects.
- Internal knowledge sharing has also been a focus including frequent lunch and learn sessions and company conference sessions covering climate action topics.

5. EMISSIONS SUMMARY

Emissions over time

The table below compares our emissions over time between the base year (FY2020-21) and current year (FY2021-22).

Emissions since base year		Total tCO ₂ -e
Base Year/Year 1:	2020-21	1620.4
Year 2:	2021-22	1294.1

Significant changes in emissions

Factors which influenced the decrease in emissions from FY2020-21 to FY2021-22 include but not limited to:

- A 43% increase in renewable energy uptake for tenancy consumption as compared to FY2020-21 which led to the reduction in electricity-related emissions.
- An increase of 126% in office equipment emissions as compared to FY2020-21 due to the procurement of office equipment to support business growth and provide equipment for staff working from home.
- Waste-related emissions were reduced by 54% due to lockdowns and the increased number of staff working from home.
- A commuting survey indicated an increase in staff taking public transportation instead of driving which played a part in the 52% reduction of land transport emissions.
- Accommodation-related emissions increased by 162% as compared to FY2020-21 due to increased frequency of travel.

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
Electricity	521	620	Significantly higher uptake in renewable energy
Office Equipment	221.42	95.4	Increased procurement of office equipment due to business growth
Petrol: Medium Car	208.0	553.6	Survey indicated that more staff took public transportation instead of driving
Calculator – Result B	-60.4	0	This wasn't accounted

Total (WFH)

for in the previous FY

Use of Climate Active carbon neutral products and services

The table below summarises all Climate Active carbon neutral products/services used in the current year.

Certified brand name	Product or Service used
Reflex	Paper

Organisation 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 (tCO ₂ -e)
Accommodation and facilities			55.6	55.6
Bespoke				
Cleaning and Chemicals			9.1	9.1
Climate Active Carbon Neutral Products and Services				
Construction Materials and Services				
Electricity		521.1		521.1
Food			34.7	34.7
Horticulture and Agriculture				
ICT services and equipment			38.3	38.3
Machinery and vehicles			0.9	0.9
Office equipment & supplies			223.7	223.7
Postage, courier and freight			17.2	17.2
Products			3.6	3.6
Professional Services			11.1	11.1
Refrigerants	29.9			29.9
Roads and landscape				
Stationary Energy (gaseous fuels)				
Stationary Energy (liquid fuels)				
Stationary Energy (solid fuels)				
Transport (Air)			51.4	51.4
Transport (Land and Sea)			295.8	295.8
use for duplicates				
Waste			53.8	53.8
Water			8.8	8.8
Working from home			-60.4	-60.4
Total	29.9	521.1	743.6	1294.6

Uplift factors

N/A

Reason for uplift factor	tCO ₂ -e
N/A	N/A

6. CARBON OFFSETS

Offsets retirement approach

In arrears

1.	Total emissions footprint to offset for this report	1,295
2.	Total eligible offsets purchased and retired for this report	1,295
3.	Total eligible offsets banked to use toward next year's report	0

Co-benefits

The Myamyn Lowland Forest Conservation project aims to protect the land of Victoria's Annya State Forest from further clearing and re-vegetates it with native flora. It also enhances biodiversity and permanently protects habitat for vulnerable native species – including the southern brown bandicoot, powerful owl and long-nosed potoroo.

The Song Chung Hydropower project harnesses the flowing energy of the Con River to generate 60,000MWh of renewable electricity to bridge the supply-demand gap and provide local employment and improved infrastructure to the region.

Eligible offsets retirement 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	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 (%)
Song Chung Hydropower Vietnam	Gold Standard VER	Gold Standard Impact Registry	20/10/2022	16552485 – 16553599 (Refer to Appendix A)	2022		1,115			1,115	86%
Song Chung Hydropower Vietnam	Gold Standard VER	Gold Standard Impact Registry	6/10/2021	16514178 – 16515867 (Refer to screenshot in Appendix A)	2013		1690			180	14%
Total offsets retired this report and used in this report										1,295	
Total offsets retired this report and banked for future reports									0		

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Verified Emissions Reductions (VERs)	1,295	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)*	N/A
2. Other RECs	N/A

* 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.

APPENDIX A: ADDITIONAL INFORMATION

Additional offsets cancelled for purposes other than 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)	Purpose of cancellation
Myamyn Lowland Forest Conservation Project (stapled with Song Chung Hydro, Vietnam)	ABU	EcoAustralia	24/10/22	VOL008 26201-27315	2022	0	Alignment with Northrop's biodiversity commitments

Evidence Song Chung Hydropower purchase and retirement



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Federal Department of the Environment, Transport,
Energy and Communications DETEC
Federal Office for the Environment FOEN
Climate Division

Berne, 20 October 2022

Transaction notification CH-43584

Source account CH-100-830-0
830 - Swiss Carbon Assets

Destination account CH-230-656-2
Voluntary Cancellation Account CP2

Amount 1,115 (5-0-CER)

Transaction status 4-Completed

Transaction date 20.10.2022, 16:35:14

Transaction type 04-00-Voluntary cancellation

Notification No 10000000011603

Comment Retired on behalf of Northrop for the purpose of Climate Active certification in 2022

Transaction history

Transaction status	Transaction date
Proposed	20.10.2022, 16:35:10
Checked (No Discrepancy)	20.10.2022, 16:35:13
Completed	20.10.2022, 16:35:14

Transferred Units

Country	Unit Type	Start block	End block	Applicable CP	Installation	Year	LULUCF	Project No	Track	Expiry date	Amount
VN	5-0-CER	16552485	16553599	2				3532			1,115

Note: The content of this information is deemed to be correct unless the Emissions Trading Registry is notified of any error within 30 days in writing and giving reasons.

Swiss Emissions Trading Registry
FOEN, Climate Division, 3003 Berne
Telephone +41 (0)58 462 05 66
emissionsregistry@bafu.admin.ch
<https://www.bafu.admin.ch>

Berne, 06 October 2021

Transaction notification CH-29986

Source account CH-100-830- 0
830 - Swiss Carbon Assets

Destination account CH-230-656- 2
Voluntary Cancellation Account CP2

Amount 1,690 (5-0-CER)

Transaction status 4-Completed

Transaction date 06.10.2021, 10:22:35

Transaction type 04-00-Voluntary cancellation

Notification No 1000000009123

Comment

Transaction history

Transaction status	Transaction date
Proposed	06.10.2021, 10:22:33
Checked (No Discrepancy)	06.10.2021, 10:22:35
Completed	06.10.2021, 10:22:35

Transferred Units

Country	Unit Type	Start block	End block	Applicable CP	Installation	Year	LULUCF	Project No	Track	Expiry date	Amount
VN	5-0-CER	18514178	18515867	2				3532			1,890



APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a market-based approach.

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 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 & Precinct LGCs)	0	0	0%
GreenPower	168,524	0	17%
Jurisdictional renewables (LGCs retired)	98,631	0	10%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	22,522	0	2%
Large Scale Renewable Energy Target (applied to grid electricity only)	158,085	0	16%
Residual Electricity	523,769	521,132	0%
Total grid electricity	971,533	521,132	46%
Total Electricity Consumed (grid + non grid)	971,533	521,132	46%
Electricity renewables	447,764	0	
Residual Electricity	523,769	521,132	
Exported on-site generated electricity	0	0	
Emissions (kgCO ₂ e)		521,132	
Total renewables (grid and non-grid)	46.09%		
Mandatory	28.74%		
Voluntary	17.35%		
Behind the meter	0.00%		
Residual Electricity Emission Footprint (TCO₂e)	521		
<i>Figures may not sum due to rounding. Renewable percentage can be above 100%</i>			

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. 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
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?
Purchased goods and services	Yes	Yes	Yes	Yes	No	Yes
Capital goods	Yes	Yes	Yes	Yes	No	Yes
Fuel and energy related activities	Yes	Yes	Yes	Yes	No	Yes
Upstream transportation and distribution	No	No	No	Yes	No	No
Waste generated in operations	Yes	Yes	Yes	Yes	No	Yes
Business travel	Yes	Yes	Yes	Yes	No	Yes
Employee commuting	Yes	Yes	Yes	Yes	No	Yes
Leased assets	Yes	Yes	Yes	Yes	No	Yes
Downstream transportation and distribution	No	No	No	No	No	No
Processing of sold products	No	No	No	No	No	No

Use of sold products	No	No	No	No	No	No
End-of-life treatment of sold products	No	No	No	No	No	No
Downstream leased assets	No	Yes	No	No	No	No
Franchises	No	No	No	No	No	No
Investments	No	No	No	No	No	No



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