

PUBLIC DISCLOSURE STATEMENT

NORTHROP CONSULTING ENGINEERS PTY LTD

ORGANISATION CERTIFICATION FY2022–23

Climate Active Public Disclosure Statement







NAME OF CERTIFIED ENTITY	Northrop Consulting Engineers Pty Ltd			
REPORTING PERIOD	July 2022 – 30 June 2023 [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. M. M. M.			
	Mark Sturgess Managing Partner 5 August 2024			



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Version March 2023.



1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	2123.03 tCO ₂ -e
OFFSETS USED	32% ACCUs, 68% VCUs
RENEWABLE ELECTRICITY	30.35%
CARBON ACCOUNT	Prepared by: Northrop Consulting Engineers Pty Ltd (trading as NC Pty Ltd), ABN 21 118 108 384.
TECHNICAL ASSESSMENT	Next technical assessment due: Submission FY23-24

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2. CARBON NEUTRAL INFORMATION

Description of certification

This carbon neutral certification is for the business operations of Northrop Consulting Engineers Pty Ltd (trading as NC Pty Ltd), ABN 21 118 108 384.

Organisation description

Northrop Consulting Engineers Pty Ltd (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.

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



Organisational boundaries

Trading names & Subsidiaries

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	ł
Northrop Engineers Pty Ltd	82 064 775 088	ł

Offices

Melbourne, Brisbane, Canberra, Newcastle, Erina, Parramatta, Sydney, Wollongong, Coffs Harbour, Bowral.

International Operations

Northrop does not have any international operations.



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
- Carbon neutral products and services
- Cleaning and chemicals
- Electricity
- Food
- ICT services and equipment
- Land and sea transport
- Machinery & Vehicles
- Office equipment and supplies
- Postage, courier and freight
- Products
- Professional Services (Legal Services, Subscriptions & Periodicals, Interest Groups & Memberships)
- Refrigerants
- Stationary energy and fuels
- Transport (air)
- Transport (land and sea)
- Waste
- Water
- Working from home

Non-quantified

Optionally included

Outside emission boundary

Excluded

Downstream transportation and distribution

Processing of sold products

Use of sold products

End-of-life treatment of sold products

Downstream leased assets

Franchises

Investments



4.EMISSIONS REDUCTIONS

Emission 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. These Climate Commitments are now embedded in our engineering service offerings to our clients.

We continue to work towards realizing our commitment to reduce our carbon footprint per FTE by 40% in 2030 relative to our baseline year of FY2020/21. (*Ref: Objectives below*). To do this with purpose and accuracy, we are committed to increasing our analysis of our emissions, and identifying and targeting specific areas of improvement, by location, function, activity or individual.

#	Item	Action	Reduction Target	Timeframe			
Short	Short Term Targets						
1	Transport	Execute a campaign to the business to encourage the use of Uber Green, rather than Uber X.	Increase Uber green use to 15% or above.	2025			
2	Transport	Survey Staff - Identify opportunities for carpooling	Car pooling from 2 locations	2026			
3	Transport	Survey Staff - Identify barriers to public transport use and cycling. Remove these barriers to encourage walking or cycling.	1 additional person walking or cycling per office	2026			
4	Transport	Audit all offices End of Trip Facility quality and usage with the view to encouraging additional people to walk and cycle to work.	1% increase in use of facilities.	2026			
5	Electricity	Survey Staff - Identify Sydney Office WFH patterns and assess for any potential reduction in desk requirement, to minimise the floor space, equipment and electricity usage requirements.	Reduce number of desks to less than number of staff.	2026			
6	Paper	Identify suppliers with the ability to supply carbon neutral paper in Australia at the stock levels required across all offices.	20%	2026			
Mediu	Medium Term Targets						
7	Travel	Review company schedule to identify travel heavy events that could be moved to virtual.	Remove 1 in- person event.	2027			
8	Electricity	Continue increase in Green Power. Move from 80% to 100%	100%	2026			
9	Electricity	Base building Green Power. Encouraging all landlords to move base building energy to green power by 2028.	60% of offices base buildings	2028			



#	Item	Action	Reduction Target	Timeframe
Long	Term Targets			
10	Transport	Deploy sustainable transport guidelines, discouraging unnecessary air travel.	Decrease air travel by 1%	2028
11	Corporate	Emissions Reduction per FTE	Reduce by 40%	2030
12	Corporate	Measurement of <i>our clients</i> Scope 2 Emissions, by quantifying our project impacts to improve climate outcomes.	Measure an additional 20% per year.	2030
13	Coporate	ICT Equipment Procurement – Review Laptop suppliers	2% emissions	2030
14	Corporate	ICT Equipment Procurement – Review Mobile Phone Suppliers	2% emissions	2030
15	Corporate	ICT Equipment Procurement – Review Screen suppliers	2% emissions	2030

Emissions reduction actions

The following was completed in the 22/23 financial year.

Procurement Policy

A procurement policy that encompasses facilities and goods has been developed and approved by the executive team. It is currently awaiting board approval to be rolled out to the business. The principles within the guideline have already been applied to changes in office leasing and new procurement agreements, in anticipation of this being approved.

Transport Focus

Our corporate sustainable transport plan has been reviewed by the Executive Leadership Team, who have agreed in principle with all that is proposed. To further improve this, we are focussing on the nuances of regional vs metro locations.

Using detailed reporting tools, we are identifying specific events and activities that cause a peak in emissions. It is the detailed data that enables us to take action and make decisions that will directly reduce our emissions. For example: The location of group wide in-person meetings now takes into consideration where the majority of people reside, rather than a simple office rotation.

Electricity Focus

We are working closely with our tenancy management to shift the remaining portion across. Smaller locations with other tenants within the same spaces are our next targets for continued improvement.

As part of our sustainable procurement and facilities guidelines, we are currently assessing a new tenancy with climate considerations as part of the key criteria.



ICT Focus

Using detailed reporting tools that break down spend, offices, teams, roles and timelines, we are continuing to identify spikes and data trends to take individual actions that will improve our emissions. New starters, for example, have a significant emissions load, with new laptops, screens, desk space etc. Business growth emissions must be addressed.

Project Delivery Tools

We have commenced developing tools to enable measuring carbon all engineering designs. The targets for what volume of our projects that are measured in their entirety will progressively increase through FY25-FY30, aligning with our corporate climate goals.



5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year				
		Total tCO ₂ -e (without uplift)	Total tCO ₂ -e (with uplift)	
Year 1:	2020-21	1620.4	1620.4	
Year 2:	2021-22	1294.1	1294.1	
Year 3:	2022-23	2123.03	2123.03	

Additional Measures – for internal FTE reporting				
		Total tCO₂-e/FTE	Reduction % per FTE since base year	
Year 1:	2020-21	5.9	-	
Year 2:	2021-22	4.2	29%	
Year 3:	2022-23	3.87	35%	

Significant changes in emissions

Factors which influenced the increase in emissions from FY2020-21 to FY2022-23 include but not limited to:

Data Capture

Over the past three years, Northrop has improved data capture. We now use actuals, rather than assumptions and generic calculations. We have also improved the quality of sourcing data from both external suppliers and our internal systems.

Our internal reporting is continually improving. Training and coordinating individuals across the different business locations has improved the volume and quality of data able to be captured for emissions calculations.

Business Growth - Increase in staff

Since 2021, Northrop has grown around 15% which equates to over 80 staff. In addition to an increase in energy consumption, waste and transport, ICT emissions peak for a new starter when equipment is purchased.

Increase in Travel

Northrop's business operations have changed from a regional structure to a divisional structure in the past 12 months. This has decentralized some leadership, requiring additional travel for staff management. Leadership travel peaked during the implementation phase and continues, to embed the change for staff.

During this same time period, project and business related travel continues to return to pre-pandemic levels. We are yet to record transportation emissions in what would be considered a 'regular' year for Northrop.



Emission source name	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Detailed reason for change
Electricity (market-based method, scope 2)	350.0	472.9	Increased number of staff working at the office due to end of pandemic lockdown and business growth. Business growth resulting in increased staff numbers
Short economy class flights (>400km, ≤3,700km)	49.1	329.7	A company restructure which has resulted in an increase in staff travel amongst offices. Business growth resulting in increased staff numbers

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

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Certified brand name	Product/Service/Building/Precinct used
Opal Australian Paper (Reflex)	Paper



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 (t CO2-e)	Sum of Scope 2 (t CO2-e)	Sum of Scope 3 (t CO2-e)	Sum of Total Emissions (t CO2-e)
Accommodation and facilities	0.00	0.00	51.90	51.90
Cleaning and chemicals	0.00	0.00	25.20	25.20
Climate Active carbon neutral products and services	0.00	0.00	0.00	0.00
Construction materials and services	0.00	0.00	15.02	15.02
Electricity	0.00	472.92	62.59	535.51
Food	0.00	0.00	51.70	51.70
ICT services and equipment	0.00	0.00	449.54	449.54
Machinery and vehicles	0.00	0.00	11.16	11.16
Postage, courier and freight	0.00	0.00	3.97	3.97
Products	0.00	0.00	0.72	0.72
Professional services	0.00	0.00	132.49	132.49
Refrigerants	29.88	0.00	0.00	29.88
Transport (air)	0.00	0.00	369.92	369.92
Transport (land and sea)	0.00	0.00	111.98	111.98
Waste	0.00	0.00	167.70	167.70
Water	0.00	0.00	8.00	8.00
Working from home	0.00	0.00	126.02	126.02
Office equipment and supplies	0.00	0.00	32.35	32.35
Total	29.88	472.92	1620.24	2123.03

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
N/A	N/A
Total of all uplift factors	0.00
Total emissions footprint to offset (total emissions from summary table + total of all uplift factors)	2123.03



6.CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 2,123 t CO₂-e. The total number of eligible offsets used in this report is 2123 t CO₂-. Of the total eligible offsets used, none were previously banked, and 2,123 t CO₂-e were newly purchased and retired. 21 are remaining and have been banked for future use.

Co-benefits

Northrop supports projects that reduce carbon and benefit ecological systems through the preservation of biodiverse forests.

The New Leaf Project, with a land area of 28,000 hectares and part of Tasmanian native forest estate, is the second largest private conservation project in Australia managed by Tasmanian Land Conservancy (TLC). It is of high national significance consisting of old-growth forests, wetland and grassland, and is home to at least 4 endangered species including the Tasmanian devil.

The Rimba Raya project helps protect the forests in Indonesia under threat of destruction from palm oil production. The project protects 65,000 hectares of tropical peat swamp forest, which is home to a rich array of species including the endangered orangutan. In addition to conserving biodiversity and precious forest ecosystem, the project is designed to improve community and social benefits.

The Keo Seima Wildlife Sanctuary (KSWS) spans over 290,000 hectares, the protected area is home to a diverse array of wildlife, including 84 globally threatened species and the world's largest population of black-shanked douc and yellow-cheeked crested gibbon. Despite the importance of this area, it faces a high threat of deforestation due to various factors, including forest conversion for agriculture and illegal logging. The project qualifies under the Climate, Community & Biodiversity (CCB) Standards Gold Level for biodiversity under both vulnerability and irreplaceability criteria.



Eligible offsets retirement summary

Offsets retired for Climate Active certification

Type of offset units	Eligible quantity (used for this reporting period)	Percentage of total
Australian Carbon Credit Units (ACCUs)	674	32%
Verified Carbon Units (VCUs)	1149	68%

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 (%)
New Leaf Carbon Project	ACCU	ANREU	27 October 2023	8,330,211,305 – 8,330,211,978	2021-22	-	674	0	0	674	32%
Rimba Raya Biodiversity Diverse Project	VCU	Verra	2023	6979-362216005-362217134- VCU-016-MER-ID-14-674- 01012014-30062014-1	2014	-	1130	0	21	1109	52%
Reduced Emissions from Deforestation and Degradation in Keo Seima Wildlife Sanctuary	VCU	Verra	11/6/2024	9806-141221793-141222132- VCS-VCU-263-VER-KH-14- 1650-01012017-31122017-1	2017	-	340	0	0	340	16%
Total eligible offsets retired and used for this report							2,123				
			Tota	l eligible offsets retired this rep	oort and ba	inked for u	se in futu	re reports	21		



7.RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

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 used.	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

OFFICIAL





30 October 2023

VC202324-00334

To whom it may concern,

Voluntary cancellation of units in ANREU

This letter is confirmation of the voluntary cancellation of units in the Australian National Registry of Emissions Units (ANREU) by ANREU account holder, CANOPY NATURE BASED SOLUTIONS PTY LTD (account number AU-2854).

The details of the cancellation are as follows:

Date of transaction	27 October 2023
Transaction ID	AU30398
Type of units	KACCU
Total Number of units	674
Serial number range	8,330,211,305 - 8,330,211,978
ERF Project	New Leaf Carbon Project - EOP101164
Vintage	2021-22
Transaction comment	Carbon credits retired for Northrop Consulting to offset emissions associated with business operations in the period July 2022 to June 2023.

Details of all voluntary cancellations in the ANREU are published on the Clean Energy Regulator's website, http://www.cleanenergyregulator.gov.au/OSR/ANREU/Data-and-information.

If you require additional information about the above transaction, please email CER-RegistryContact@cer.gov.au

Yours sincerely.

David O'Toole ANREU and International NGER and Safeguard Branch Scheme Operations Division

Clean Energy Regulator

registry-contact@cer.gov.au www.cleanenergyregulator.gov.au



OFFICIAL

Canopy Nature Based Solutions Pty Ltd operates under an Australian Financial Services Licence through a corporate authorised representative agreement (AR 001280752) with Balmedie Financial Pty Ltd (ABN 81 159 803 415; AFSL 434899).



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.

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	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)	92,969	0	12%
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	23,578	0	3%
Large Scale Renewable Energy Target (applied to grid electricity only)	127,774	0	16%
Residual Electricity	560,742	535,509	0%
Total renewable electricity (grid + non grid)	244,321	0	30%
Total grid electricity	805,063	535,509	30%
Total electricity (grid + non grid)	805,063	535,509	30%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	560,742	535,509	
Scope 2	495,201	472,917	
Scope 3 (includes T&D emissions from consumption under operational control)	65,541	62,592	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	30.35%
Mandatory	18.80%
Voluntary	11.55%
Behind the meter	0.00%
Residual scope 2 emissions (t CO ₂ -e)	472.92
Residual scope 3 emissions (t CO ₂ -e)	62.59
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	472.92
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO ₂ -e)	62.59
Total emissions liability (t CO ₂ -e)	535.51
Figures may not sum due to rounding. Renewable percentage can be above 100%	



Location Based Approach Summary						
Location Based Approach	Activity Data (kWh) total	Und	er operational co	Not under operational control		
Percentage of grid electricity consumption under operational control	100%	(kWh)	Scope 2 Emissions (kg CO2-e)	Scope 3 Emissions (kg CO2-e)	(kWh)	Scope 3 Emissions (kg CO2-e)
ACT	125,413	125,413	91,551	7,525	0	0
NSW	472,864	472,864	345,191	28,372	0	0
SA	0	0	0	0	0	0
VIC	126,232	126,232	107,297	8,836	0	0
QLD	80,554	80,554	58,804	12,083	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)	805,063	805,063	602,844	56,816	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)	805,063					

Residual scope 2 emissions (t CO2-e)	602.84
Residual scope 3 emissions (t CO2-e)	56.82
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	602.84
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	56.82
Total emissions liability (t CO2-e)	659.66



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. Maintenance Initial emissions non-quantified but repairs and replacements quantified.

Relevant non-quantified emission sources	Justification reason
N/A	N/A

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

Please ensure that Appendix D is reflective of the Excluded emissions listed as outside the Emissions boundary on page 7.

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:

- <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.
- 3. <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.
- 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
Downstream transportation and distribution	N	N	Υ	N	N	At this stage, emissions associated with distribution and transportation of goods such as Woolworths deliveries is unable to be captured.
Processing of sold products	N	N	Υ	N	N	Northrop's product is a professional service, not a physical product.
Use of sold products	N	N	Υ	N	N	Northrop's products are digital and are used by clients and the industry in a digital form. Emissions for this digital storage will be captured by the end user.
End-of-life treatment of sold products	N	N	Υ	N	N	Northrop's products are digitally archived by clients and the industry. Emissions for this digital storage will be captured by the end user.
Downstream leased assets	N	N	Υ	N	N	At this time, Northrop does not own any property leased to others.
Franchises	N	N	N	N	N	At this time, Northrop does not have any franchises, so this does not pose a risk to emissions.
Investments	N	N	N	N	N	At this time, Northrop does not have any investments.





