



Northrop Grumman Corp

2025 CDP Corporate Questionnaire 2025

Word version

Important: this export excludes unanswered questions

This document is an export of your organization's CDP questionnaire response. It contains all data points for questions that are answered or in progress. There may be questions or data points that you have been requested to provide, which are missing from this document because they are currently unanswered. Please note that it is your responsibility to verify that your questionnaire response is complete prior to submission. CDP will not be liable for any failure to do so.

[Read full terms of disclosure](#)

Contents

C1. Introduction

(1.1) In which language are you submitting your response?

Select from:

English

(1.2) Select the currency used for all financial information disclosed throughout your response.

Select from:

USD

(1.3) Provide an overview and introduction to your organization.

(1.3.2) Organization type

Select from:

Publicly traded organization

(1.3.3) Description of organization

Northrop Grumman Corporation (herein referred to as “Northrop Grumman,” the “company,” “we,” “us,” or “our”) is a publicly traded company whose common stock is listed on the New York Stock Exchange (NYSE: NOC). Northrop Grumman is a leading global aerospace and defense (A&D) technology company. We deliver a broad range of products, services and solutions to United States (U.S.) and international customers, and principally to the U.S. Department of Defense (DoD) and intelligence community. Our broad portfolio is aligned to support national security priorities and our solutions equip our customers with capabilities they need to connect, protect and advance humanity. The company is a leading provider of space systems, military aircraft, missile defense, advanced weapons and long-range fires capabilities, mission systems, networking and communications, strategic deterrence systems, and breakthrough technologies, such as advanced computing, microelectronics and cyber. We are focused on competing and winning programs that enable continued growth, performing on our commitments and affordably delivering capability our customers need. With the investments we've made in advanced technologies, combined with our talented workforce and digital transformation capabilities, Northrop Grumman is well positioned to meet our customers' needs today and in the future. Northrop Grumman established an environmental sustainability program in 2008 to reduce the company's environmental footprint by improving operational efficiency and integrating environmental sustainability practices across our operations. Our Environmental Sustainability Program supports a vision for a more sustainable future by expanding environmental sustainability awareness throughout our organization, supporting our corporate values and meeting the expectations of our diverse set of stakeholders. Our 3 next generation sustainability initiatives focus on activity around three mission areas: (1) Footprint: Minimizing the footprint of our operations; (2) Handprint: Enhance

sustainability within the aerospace and defense industry by supporting customer needs and supply chain objectives; and (3) Blueprint: Affirm Sustainability leadership by collaborating to protect ecosystems and define environmental opportunities in our communities.

[Fixed row]

(1.4) State the end date of the year for which you are reporting data. For emissions data, indicate whether you will be providing emissions data for past reporting years.

(1.4.1) End date of reporting year

09/30/2024

(1.4.2) Alignment of this reporting period with your financial reporting period

Select from:

No

(1.4.3) Indicate if you are providing emissions data for past reporting years

Select from:

Yes

(1.4.4) Number of past reporting years you will be providing Scope 1 emissions data for

Select from:

2 years

(1.4.5) Number of past reporting years you will be providing Scope 2 emissions data for

Select from:

2 years

(1.4.6) Number of past reporting years you will be providing Scope 3 emissions data for

Select from:

2 years
[Fixed row]

(1.4.1) What is your organization's annual revenue for the reporting period?

41030000000

(1.5) Provide details on your reporting boundary.

	Is your reporting boundary for your CDP disclosure the same as that used in your financial statements?
	Select from: <input checked="" type="checkbox"/> Yes

[Fixed row]

(1.6) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

	Does your organization use this unique identifier?	Provide your unique identifier
Ticker symbol	Select from: <input checked="" type="checkbox"/> Yes	NOC

[Add row]

(1.7) Select the countries/areas in which you operate.

Select all that apply

- Italy
- Japan
- Canada
- France
- Poland
- Switzerland
- Saudi Arabia
- Republic of Korea
- United Arab Emirates
- United States of America

- Belgium
- Denmark
- Germany
- Australia
- Netherlands
- United Kingdom of Great Britain and Northern Ireland

C6. Environmental Performance - Consolidation Approach

(6.1) Provide details on your chosen consolidation approach for the calculation of environmental performance data.

Climate change

(6.1.1) Consolidation approach used

Select from:

Operational control

(6.1.2) Provide the rationale for the choice of consolidation approach

Based on guidance from the GHG Protocol and other standards bodies, we take an operational control approach to reporting our emissions, which is consistent with our approach to collecting EHS information for internal metrics & regulatory compliance requirements.

[Fixed row]

C7. Environmental performance - Climate Change

(7.1) Is this your first year of reporting emissions data to CDP?

Select from:

No

(7.1.1) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

	Has there been a structural change?
	Select all that apply <input checked="" type="checkbox"/> No

[Fixed row]

(7.1.2) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

(7.1.2.1) Change(s) in methodology, boundary, and/or reporting year definition?

Select all that apply

Yes, a change in methodology

(7.1.2.2) Details of methodology, boundary, and/or reporting year definition change(s)

Our methodology for Scope 3, category 3 Fuel-and-energy-related activities (not included in Scope 1 or 2) has been updated to include calculation of upstream well-to-tank (WTT) impacts of fuel and electricity, following EPA methodology.

[Fixed row]

(7.1.3) Have your organization's base year emissions and past years' emissions been recalculated as a result of any changes or errors reported in 7.1.1 and/or 7.1.2?

(7.1.3.1) Base year recalculation

Select from:

Yes

(7.1.3.2) Scope(s) recalculated

Select all that apply

Scope 1

Scope 2, location-based

Scope 2, market-based

Scope 3

(7.1.3.3) Base year emissions recalculation policy, including significance threshold

There were minor updates to our base year emissions (<0.1% impact to Total Scope 1 + Scope 2 market-based emissions) based on minor data corrections conducted. Our materiality threshold for all data exclusions and uncertainty is 5%. Data corrections beyond the previous three reporting years shall be at or above 5% of company gross emissions. Recalculations are necessary for structural changes (such as mergers, acquisitions, and divestitures) at or above 5% of base year emissions. Data recalculation is required only for the base year, the current reporting year, and the prior two reporting years. Our reported Scope 3, category 3 emissions from Fuel-and-energy-related activities (not included in Scope 1 or 2) have been recalculated to reflect an update in the company's calculation methodology to include calculation of upstream well-to-tank (WTT) impacts of fuel and electricity, following EPA methodology.

(7.1.3.4) Past years' recalculation

Select from:

Yes

[Fixed row]

(7.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Select all that apply

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

Other, please specify :IAEG Aerospace GHG Reporting Guidance

(7.3) Describe your organization’s approach to reporting Scope 2 emissions.

	Scope 2, location-based	Scope 2, market-based
	Select from: <input checked="" type="checkbox"/> We are reporting a Scope 2, location-based figure	Select from: <input checked="" type="checkbox"/> We are reporting a Scope 2, market-based figure

[Fixed row]

(7.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1, Scope 2 or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure?

Select from:

Yes

(7.4.1) Provide details of the sources of Scope 1, Scope 2, or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure.

Row 1

(7.4.1.1) Source of excluded emissions

Mobile emissions for small fleets (<10 vehicles)

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 1

(7.4.1.3) Relevance of Scope 1 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.8) Estimated percentage of total Scope 1+2 emissions this excluded source represents

0.5

(7.4.1.10) Explain why this source is excluded

Fuel consumption (diesel, gasoline and propane) for all reporting sites comprises 1.2% of the baseline total inventory. Therefore, it was concluded that mobile emissions associated with sites that have fewer than 10 vehicles are immaterial to the GHG inventory. This category is continuously monitored and was reflected in the NGC GHG inventory that received limited assurance through third party verification.

(7.4.1.11) Explain how you estimated the percentage of emissions this excluded source represents

*Mobile diesel, gasoline, and propane usage accounted for 8,970 tCO₂e emissions in 2024. Using an intensity metric of emissions per SF, we estimate that our emissions from mobile emissions for small fleets would be less than or equal to 3,750 MT CO₂e. Our total gross S1 + S2 emissions in 2024 was 694,690 therefore $(3,750/694,690)*100= 0.54\%$.*

Row 2

(7.4.1.1) Source of excluded emissions

Non-utility fuel data for sites less than 100,000 square feet

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 1

(7.4.1.3) Relevance of Scope 1 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.8) Estimated percentage of total Scope 1+2 emissions this excluded source represents

0.5

(7.4.1.10) Explain why this source is excluded

For sites less than 100,000 square feet, fuel deliveries that are not utility based (e.g., natural gas and propane) are excluded because they are not common at Northrop Grumman and are immaterial to the baseline inventory. This category is continuously monitored and was reflected in the NGC GHG inventory that received limited assurance through third party verification.

(7.4.1.11) Explain how you estimated the percentage of emissions this excluded source represents

*Total stationary generator reporting (sites >100K or voluntary under the threshold) accounted for 8,790 MT CO₂e emissions in 2024. Using an intensity metric of emissions per total square feet, we estimate that our emissions from non-utility fuel data for sites <100k SF would be less than or equal to 3,670 MT CO₂e. Our total gross S1 + S2 emissions in 2024 was 694,690 therefore $(3,670/694,690)*100= 0.53\%$.*

Row 3

(7.4.1.1) Source of excluded emissions

Refrigerant emissions excluded for buildings less than 100,000 square feet

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 1

(7.4.1.3) Relevance of Scope 1 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.8) Estimated percentage of total Scope 1+2 emissions this excluded source represents

1.1

(7.4.1.10) Explain why this source is excluded

A majority of manufacturing and testing is performed at Northrop Grumman sites and campuses that are greater than 100,000 sq.ft. The majority of buildings in the Northrop Grumman real estate portfolio that are less than 100,000 sq. ft are used primarily as office space and not for manufacturing operations. Thus, refrigerant emissions related to operations in these sites are associated with HVAC systems and considered immaterial. This category is continuously monitored and was reflected in the NGC GHG inventory that received limited assurance through third party verification.

(7.4.1.11) Explain how you estimated the percentage of emissions this excluded source represents

*Total refrigerant emissions (sites >100K or voluntary under the threshold) accounted for 18,520 MT CO₂e emissions in 2024 -- this includes both process and HVAC refrigerants. Using an intensity metric of emissions per total square feet, we estimate that our emissions from refrigerants for sites <100k SF would be less than or equal to 7,740 MT CO₂e. Buildings <100k SF are used primarily as office space and do not typically have manufacturing that utilize process gases, so this value is likely over-estimated. Our total gross S1 + S2 emissions in 2024 was 694,690 therefore $(7,740/694,690)*100= 1.11\%$.*

Row 4

(7.4.1.1) Source of excluded emissions

Process emissions excluded for buildings less than 100,000 square feet

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 1

(7.4.1.3) Relevance of Scope 1 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.8) Estimated percentage of total Scope 1+2 emissions this excluded source represents

0.7

(7.4.1.10) Explain why this source is excluded

A majority of manufacturing and testing is performed at the Northrop Grumman sites and campuses that are greater than 100,000 sq.ft. The majority of buildings in the Northrop Grumman real estate portfolio that are less than 100,000 sq. ft are used primarily as office space and not for manufacturing operations. Thus, any process emissions related to operations in these sites are considered immaterial. This category is continuously monitored and was reflected in the NGC GHG inventory that received limited assurance through third party verification.

(7.4.1.11) Explain how you estimated the percentage of emissions this excluded source represents

*Total process emissions (sites >100K or voluntary under the threshold) accounted for 11,960 MT CO₂e emissions in 2024. Using an intensity metric of emissions per total square feet, we estimate that our emissions from process emissions for sites <100k SF would be less than or equal to 5,000 MT CO₂e. Buildings <100k SF are used primarily as office space and do not typically have manufacturing that utilize process gases, so this value is likely over-estimated. Our total gross S1 + S2 emissions in 2024 was 694,690 therefore $(5,000/694,690)*100= 0.72\%$.*

Row 5

(7.4.1.1) Source of excluded emissions

Emissions of PFCs from fire suppression systems

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 1

(7.4.1.3) Relevance of Scope 1 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.8) Estimated percentage of total Scope 1+2 emissions this excluded source represents

0.2

(7.4.1.10) Explain why this source is excluded

Northrop Grumman tracks fire suppression system leaks and releases. In our base year, releases accounted for 0.13 percent of the GHG inventory and were deemed immaterial to the inventory. This category is continuously monitored and was reflected in the NGC GHG inventory that received limited assurance through third party verification.

(7.4.1.11) Explain how you estimated the percentage of emissions this excluded source represents

*Fire suppression system releases accounted for 1,075 MT CO₂e emissions in 2019 (current base year). Our total gross S1 + S2 emissions in 2024 was 694,690 therefore $(1,075/694,690)*100= 0.15\%$.*

Row 6

(7.4.1.1) Source of excluded emissions

Scope 3 category 1: Purchased goods and services

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Purchased goods and services

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are relevant but not yet calculated

(7.4.1.10) Explain why this source is excluded

Northrop Grumman spent approximately \$12.5 billion domestically on subcontractors during the U.S. government's fiscal year 2024. Of this, \$4.3 billion was awarded to small business suppliers, representing 35% of our total domestic spend. We have a large supply chain that may be multiple levels deep and are exploring ways to calculate/estimate Scope 3 emissions for purchased goods and services.

Row 7

(7.4.1.1) Source of excluded emissions

Scope 3 category 2: Capital goods

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Capital goods

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are relevant but not yet calculated

(7.4.1.10) Explain why this source is excluded

Northrop Grumman spent approximately \$12.5 billion domestically on subcontractors during the U.S. government's fiscal year 2024. Of this, \$4.3 billion was awarded to small business suppliers, representing 35% of our total domestic spend. We have a large supply chain that may be multiple levels deep and are exploring ways to calculate/estimate Scope 3 emissions for purchased goods and services.

Row 8

(7.4.1.1) Source of excluded emissions

Scope 3 category 8: Upstream leased assets

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Upstream leased assets

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.9) Estimated percentage of total Scope 3 emissions this excluded source represents

0

(7.4.1.10) Explain why this source is excluded

Northrop Grumman reports emissions from leased spaces as part of Scope 1 and Scope 2 inventories since we consider leased space within our operational control. Therefore, we do not have additional emissions to report as part of this Scope 3 category.

Row 9

(7.4.1.1) Source of excluded emissions

Scope 3 category 9: Downstream transportation and distribution

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Downstream transportation and distribution

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.9) Estimated percentage of total Scope 3 emissions this excluded source represents

0

(7.4.1.10) Explain why this source is excluded

According to the Voluntary GHG Reporting Guidance for the Aerospace Industry (IAEG, 2016), downstream transportation and distribution emissions are most often captured in a customer's Scope 1 emissions or are more appropriately quantified in Scope 3 Category 4. Therefore, Category 9 is irrelevant to the aerospace

industry. The International Aerospace Environmental Group (IAEG) is a non-profit organization of global aerospace companies created to collaborate on and share environmental solutions for the industry.

Row 10

(7.4.1.1) Source of excluded emissions

Scope 3 category 10: Processing of sold products

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Processing of sold products

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.9) Estimated percentage of total Scope 3 emissions this excluded source represents

0

(7.4.1.10) Explain why this source is excluded

Products and services provided by Northrop Grumman do not require further processing, transformation or inclusion in another product before use by the end consumer. This status is a function of Northrop Grumman's role as a prime contractor to the U.S. and allied governments. Where Northrop Grumman is a supplier to another prime contractor, post-processing is minimal and considered immaterial.

Row 11

(7.4.1.1) Source of excluded emissions

Scope 3 category 11: Use of sold products

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Use of sold products

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are relevant but not yet calculated

(7.4.1.10) Explain why this source is excluded

Northrop Grumman's customer base is primarily the U.S. Government, principally the Department of Defense and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers. Our products and services are designed to meet contractual requirements of our customers. Products are sold to government customers who take formal possession of the product. Use case scenarios of the products we sell to military or other national security customers are not public or easily estimable. While use of our sold products is a relevant portion of our emissions profile, we are not yet able to calculate it due to the nature of our business and customer requirements, Northrop Grumman believes that "relevant, not yet calculated" is the most appropriate available response.

Row 12

(7.4.1.1) Source of excluded emissions

Scope 3 category 12: End of life treatment of sold products

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: End-of-life treatment of sold products

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.9) Estimated percentage of total Scope 3 emissions this excluded source represents

0

(7.4.1.10) Explain why this source is excluded

Northrop Grumman's customer base is primarily the U.S. Government, principally the Department of Defense and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers. Our products and services are designed to meet contractual requirements of our customers. Products are sold to government customers who take formal possession of the product. Customers have their own property disposition process for owned-property, especially products used for military and defense operations. Due to the nature of our business and customer requirements, Northrop Grumman believes that "emissions are not relevant" is the most appropriate available response.

Row 13

(7.4.1.1) Source of excluded emissions

Scope 3 category 14: Franchises

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Franchises

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.9) Estimated percentage of total Scope 3 emissions this excluded source represents

0

(7.4.1.10) Explain why this source is excluded

Northrop Grumman does not own or operate franchises.

Row 14

(7.4.1.1) Source of excluded emissions

Scope 3 category 15: Investments [row hidden for FS sector]

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

Scope 3: Investments

(7.4.1.6) Relevance of Scope 3 emissions from this source

Select from:

Emissions are not relevant

(7.4.1.9) Estimated percentage of total Scope 3 emissions this excluded source represents

0

(7.4.1.10) Explain why this source is excluded

Northrop Grumman is not a financial institution or financial services organization. Therefore, in accordance with the WRI Scope 3 Protocol, this category of emissions is not relevant to Northrop Grumman.

[Add row]

(7.5) Provide your base year and base year emissions.

Scope 1

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

275680

(7.5.3) Methodological details

Northrop Grumman tracks its Scope 1 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Scope 2 (location-based)

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

534640

(7.5.3) Methodological details

Northrop Grumman tracks its Scope 2 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Scope 2 (market-based)

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

524410

(7.5.3) Methodological details

Northrop Grumman tracks its Scope 2 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

179290

(7.5.3) Methodological details

In 2025, the company recalculated its Category 3 emissions to include upstream well-to-tank (WTT) impacts of fuel and electricity, following EPA methodology. For onsite fuel use, consumption was multiplied by DEFRA2016 emission factors covering extraction, refining, and transport. For purchased electricity, consumption was multiplied by DEFRA's country-specific WTT factors. Transmission and distribution (T&D) losses were also included: international electricity losses were calculated with DEFRA's country-specific factors, while domestic losses were based on the U.S. average 4.48% loss rate (EPA eGRID2016). Lost electricity was estimated by applying the 4.48% loss rate to domestic consumption, then multiplying by the eGRID2016 average emission factor. Total Category 3 emissions equal the sum of WTT emissions from fuel, WTT emissions from electricity, and T&D losses. Total Category 3 emissions = Upstream WTT emissions from fuel consumption (36,450 tCO₂e) + Upstream WTT emissions from purchased electricity (111,550 tCO₂e) + and Domestic & International T&D loss (31,290 tCO₂e) = 179,290 tCO₂e.

Scope 3 category 4: Upstream transportation and distribution

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

4360

(7.5.3) Methodological details

Northrop Grumman is an EPA SmartWay partner and utilizes ground shipment data collected, managed and provided by our partner logistics organization. The primary domestic shipment and mileage data from Smartway & non-Smartway carriers is tracked through our partner's Freight Bill Audit & Payment (FBAP) System. Our logistics partner applies the SmartWay program's emission factors based on classification of each carrier and mode type to the primary mileage data per shipment. We assume that approximately 60% of our US domestic transportation data is managed by our third-party logistics management organization; given that we use similar suppliers for shipments not managed through our logistics partner, we estimate our total emissions by prorating the remaining 40%. Of our FBAP-managed data, approximately 96.1% of the emissions reported in this category are associated with shipments carried by SmartWay carrier partners. In 2023, we updated our calculation methodology to utilize SmartWay's emissions factors based on emissions per ton-mile (g CO₂/ton-mile), rather than emissions per mile (g CO₂/mile). This allows us to prorate emissions relative to the size of our shipments (which is often just a portion of a total truckload), rather than accounting for the total emissions from the entire truckload's mileage, thus causing a significant decrease in our emissions relative to that calculated in our previous methodology. As actual data is not available for 2019 and 2020, base year emissions are being held constant to 2021 emissions.

Scope 3 category 5: Waste generated in operations

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

14570

(7.5.3) Methodological details

Northrop Grumman sites within our operational control boundary track their annual waste by category (commodity, product, unit, etc.) and by management method. Per EPA guidance, we use the U.S. EPA Center for Corporate Climate Leadership GHG EF Hub to calculate the emissions associated with our waste management activities. The GWPs are consistent with our Scope 1 and 2 emissions inventory and come from the IPCC Fourth Assessment Report. Where waste types could not be readily mapped to the available material EFs, those wastes were conservatively assumed to be landfilled "Mixed MSW." The primary data collected comes from waste hauler-provided receipts demonstrating actual tonnage and the remainder is estimated based on applying a standard factor to facility headcount.

Scope 3 category 6: Business travel

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO₂e)

(7.5.3) Methodological details

Data related to business travel is provided by Northrop Grumman's travel management system. Activity data includes number of hotel nights booked, rental car miles travelled, and the number of air and train miles travelled. Train travel is estimated based on previous years' actual data, as this data is no longer available in our travel management system. The emissions from air and train travel are calculated using emission factors (EFs) from the U.S. EPA Center for Corporate Climate Leadership GHG EF Hub. Emissions from hotel stays are calculated using the respective EFs from Carbon Fund. Emissions from car rentals are provided by the car rental suppliers. The GWPs are consistent with our Scope 1 and 2 emissions inventory and come from the IPCC Fourth Assessment Report. The GHG inventory for business travel achieved Limited Assurance via Third Party Verification from LRQA America's Sustainability, Inc. A portion of emissions from car rentals are extrapolated based on spend data. 2019 data has been restated due to a minor update in our data management system that caused a recalculation of the business travel emissions data.

Scope 3 category 7: Employee commuting

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

223090

(7.5.3) Methodological details

Employee commuting accounts for the emissions associated with employee travel to/from work. The emissions are calculated using emission factors from the U.S. EPA Center for Corporate Climate Leadership GHG EF Hub. The GWPs are consistent with our Scope 1 and 2 emissions inventory and come from the IPCC Fourth Assessment Report. Employee headcount is primary data from the Annual Report (10K) filing which includes all active NG employees. Estimating factors and averages used are from reputable public sources (e.g., EPA). Each business sector provides an average vehicle ridership (AVR) value; if not available, an average is used. The AVR value is multiplied by the number of employees per sector and an average fuel economy. That value is then multiplied by the emission factor to determine the total commuting emissions.

Scope 3 category 13: Downstream leased assets

(7.5.1) Base year end

09/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

3110

(7.5.3) Methodological details

As of December 2019, Northrop Grumman had approximately 54 million square feet of floor space of which approximately 304,000 square feet were leased to third parties (Source: Northrop Grumman 2019 Annual Report, pg. 20). By multiplying the average MWh/sq ft and therms/sqft, we derived electricity & natural gas usage for the facilities Northrop Grumman leases to third parties. The emissions are calculated using emission factors from the U.S. EPA Center for Corporate Climate Leadership GHG Emission Factors Hub. The GWPs are consistent with our Scope 1 and 2 emissions inventory and come from the IPCC Fourth Assessment Report. [Fixed row]

(7.6) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

(7.6.1) Gross global Scope 1 emissions (metric tons CO2e)

284710

(7.6.3) Methodological details

Northrop Grumman tracks its Scope 1 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO2, CH4, N2O, HFCs, PFCs, SF6 and NF3. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Past year 1

(7.6.1) Gross global Scope 1 emissions (metric tons CO2e)

309030

(7.6.2) End date

09/30/2023

(7.6.3) Methodological details

Northrop Grumman tracks its Scope 1 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Past year 2

(7.6.1) Gross global Scope 1 emissions (metric tons CO₂e)

281340

(7.6.2) End date

09/30/2022

(7.6.3) Methodological details

Northrop Grumman tracks its Scope 1 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO₂, CH₄, N₂O, HFCs, PFCs, SF₆ and NF₃. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

[Fixed row]

(7.7) What were your organization's gross global Scope 2 emissions in metric tons CO₂e?

Reporting year

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO₂e)

477940

(7.7.2) Gross global Scope 2, market-based emissions (metric tons CO2e)

409980

(7.7.4) Methodological details

Northrop Grumman tracks its Scope 2 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO2, CH4, N2O, HFCs, PFCs, SF6 and NF3. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Past year 1

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO2e)

498870

(7.7.2) Gross global Scope 2, market-based emissions (metric tons CO2e)

398970

(7.7.3) End date

09/30/2023

(7.7.4) Methodological details

Northrop Grumman tracks its Scope 2 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO2, CH4, N2O, HFCs, PFCs, SF6 and NF3. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

Past year 2

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO2e)

475950

(7.7.2) Gross global Scope 2, market-based emissions (metric tons CO2e)

422300

(7.7.3) End date

09/30/2022

(7.7.4) Methodological details

Northrop Grumman tracks its Scope 2 emissions across the full portfolio of our facilities where we have operational control, which represents more than 99% of our global footprint. Our GHG inventory was developed in accordance with the GHG Protocol Corporate Standard and in alignment with the International Aerospace Environmental Group Greenhouse Gas Reporting Guidance, and includes CO2, CH4, N2O, HFCs, PFCs, SF6 and NF3. We report on environmental data on a government fiscal year (October-September). We use emissions factors from reputable sources such as the EPA and DEFRA and reference IPCC Fourth Assessment Report for Global Warming Potentials.

[Fixed row]

(7.8) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

(7.8.5) Please explain

Northrop Grumman spent approximately \$12.5 billion domestically on subcontractors during the U.S. government's fiscal year 2024. Of this, \$4.3 billion was awarded to small business suppliers, representing 35% of our total domestic spend. We have a large supply chain that may be multiple levels deep and are exploring ways to calculate/estimate Scope 3 emissions for purchased goods and services.

Capital goods

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

(7.8.5) Please explain

Northrop Grumman spent approximately \$12.5 billion domestically on subcontractors during the U.S. government's fiscal year 2024. Of this, \$4.3 billion was awarded to small business suppliers, representing 35% of our total domestic spend. We have a large supply chain that may be multiple levels deep and are exploring ways to calculate/estimate Scope 3 emissions for purchased goods and services.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.8.1) Evaluation status

Select from:

Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

243440

(7.8.3) Emissions calculation methodology

Select all that apply

Average data method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

In 2025, the company recalculated its Category 3 emissions to include upstream well-to-tank (WTT) impacts of fuel and electricity, following EPA methodology. For onsite fuel use, consumption was multiplied by DEFRA2024 emission factors covering extraction, refining, and transport. For purchased electricity, consumption was multiplied by DEFRA's country-specific WTT factors (last published for all countries in 2021). Transmission and distribution (T&D) losses were also included: international electricity losses were calculated with DEFRA's 2021 country-specific factors, while domestic losses were based on the U.S. average 5.1% loss rate (EPA eGRID2022). Lost electricity was estimated by applying the 5.1% loss rate to domestic consumption, then multiplying by the eGRID2022 average emission factor. Total Category 3 emissions equal the sum of WTT emissions from fuel, WTT emissions from electricity, and T&D losses. Total Category 3 emissions = Upstream WTT emissions from fuel consumption (45,382 tCO₂e) + Upstream WTT emissions from purchased electricity (167,325 tCO₂e) + and Domestic & International T&D loss (30,739 tCO₂e) = 243,447 tCO₂e.

Upstream transportation and distribution

(7.8.1) Evaluation status

Select from:

Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO₂e)

4990

(7.8.3) Emissions calculation methodology

Select all that apply

Hybrid method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

60

(7.8.5) Please explain

Northrop Grumman is an EPA SmartWay partner and utilizes ground shipment data collected, managed and provided by our partner logistics organization. The primary domestic shipment and mileage data from Smartway & non-Smartway carriers is tracked through our partner's Freight Bill Audit & Payment (FBAP) System. The GWPs are consistent with our Scope 1 and Scope 2 emissions inventory and come from the IPCC Fourth Assessment Report (AR4). Our logistics partner applies the SmartWay program's emission factors (g CO₂/ton-mile) based on classification of each carrier and mode type to the primary weight & mileage data per shipment. We assume that approximately 60% of our US domestic transportation data is managed by our third-party logistics management organization; given that

we use similar suppliers for shipments not managed through our logistics partner, we estimate our total emissions by prorating the remaining 40%. Of our FBAP-managed data, approximately 99.2% of the emissions reported in this category are associated with shipments carried by SmartWay carrier partners.

Waste generated in operations

(7.8.1) Evaluation status

Select from:

Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

14720

(7.8.3) Emissions calculation methodology

Select all that apply

Waste-type-specific method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

67

(7.8.5) Please explain

Northrop Grumman sites within our operational control boundary track their annual waste by category (commodity, product, unit, etc.) and by management method. Per EPA guidance, we use the U.S. EPA Center for Corporate Climate Leadership GHG EF Hub to calculate the emissions associated with our waste management activities. Where waste types could not be readily mapped to the available material EFs, those wastes were conservatively assumed to be landfilled "Mixed MSW." The primary data collected comes from waste hauler-provided receipts demonstrating actual tonnage and the remainder is estimated based on applying estimation factors (e.g., volume to density, container size and pickup schedule, facility headcount).

Business travel

(7.8.1) Evaluation status

Select from:

Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

126990

(7.8.3) Emissions calculation methodology

Select all that apply

Hybrid method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

98

(7.8.5) Please explain

Data related to business travel is provided by Northrop Grumman's travel management system. Activity data includes number of hotel nights booked, rental car miles travelled, and the number of air and train miles travelled. Train travel is estimated based on previous years' actual data, as this data is no longer available in our travel management system. The emissions from air and train travel are calculated using emission factors (EFs) from the U.S. EPA Center for Corporate Climate Leadership GHG EF Hub. Emissions from hotel stays are calculated using the respective EFs from Carbon Fund. Emissions from car rentals are provided by the car rental suppliers. The GWPs are consistent with our Scope 1 and 2 emissions inventory and come from the IPCC Fourth Assessment Report. The GHG inventory for business travel achieved Limited Assurance via Third Party Verification from LRQA America's Sustainability, Inc. A portion of emissions from car rentals are extrapolated based on spend data.

Employee commuting

(7.8.1) Evaluation status

Select from:

Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

372070

(7.8.3) Emissions calculation methodology

Select all that apply

Average data method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

10

(7.8.5) Please explain

Employee commuting accounts for the emissions associated with employee travel to/from work. The emissions are calculated using emission factors from the U.S. EPA Center for Corporate Climate Leadership GHG EF Hub. The GWPs are consistent with our Scope 1 and 2 emissions inventory and come from the IPCC Fourth Assessment Report. Employee headcount is primary data from the Annual Report (10K) filing which includes all active NG employees. Estimating factors and averages used are from reputable public sources (e.g., EPA). Each business sector provides an average vehicle ridership (AVR) value; if not available, an average is used. The AVR value is multiplied by the number of employees per sector and an average fuel economy. That value is then multiplied by the emission factor to determine the total commuting emissions. Approximately 10% of the data is considered actual data from our value chain because it is collected & reported through compliance mechanisms.

Upstream leased assets

(7.8.1) Evaluation status

Select from:

Not relevant, explanation provided

(7.8.5) Please explain

Northrop Grumman reports emissions from leased spaces as part of Scope 1 and Scope 2 inventories since we consider leased space within our operational control. Therefore, we do not have additional emissions to report as part of this Scope 3 category.

Downstream transportation and distribution

(7.8.1) Evaluation status

Select from:

Not relevant, explanation provided

(7.8.5) Please explain

According to the Voluntary GHG Reporting Guidance for the Aerospace Industry (IAEG, 2016), downstream transportation and distribution emissions are most often captured in a customer's Scope 1 emissions or are more appropriately quantified in Scope 3 Category 4. Therefore, Category 9 is irrelevant to the aerospace industry. The International Aerospace Environmental Group (IAEG) is a non-profit organization of global aerospace companies created to collaborate on and share environmental solutions for the industry.

Processing of sold products

(7.8.1) Evaluation status

Select from:

Not relevant, explanation provided

(7.8.5) Please explain

Products and services provided by Northrop Grumman do not require further processing, transformation or inclusion in another product before use by the end consumer. This status is a function of Northrop Grumman's role as a prime contractor to the U.S. and allied governments. Where Northrop Grumman is a supplier to another prime contractor, post-processing is minimal and considered immaterial.

Use of sold products

(7.8.1) Evaluation status

Select from:

Relevant, not yet calculated

(7.8.5) Please explain

Northrop Grumman's customer base is primarily the U.S. Government, principally the Department of Defense and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers. Our products and services are designed to meet contractual requirements of our customers. Products are sold to government customers who take formal possession of the product. Use case scenarios of the products we sell to military or other national security customers are not public or easily estimable. While use of our sold products is a relevant portion of our emissions profile, we are not yet able to

calculate it due to the nature of our business and customer requirements, Northrop Grumman believes that “relevant, not yet calculated” is the most appropriate available response.

End of life treatment of sold products

(7.8.1) Evaluation status

Select from:

Not relevant, explanation provided

(7.8.5) Please explain

Northrop Grumman’s customer base is primarily the U.S. Government, principally the Department of Defense and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers. Our products and services are designed to meet contractual requirements of our customers. Products are sold to government customers who take formal possession of the product. Customers have their own property disposition process for owned-property, especially products used for military and defense operations. Due to the nature of our business and customer requirements, Northrop Grumman believes that “not relevant, explanation provided” is the most appropriate available response.

Downstream leased assets

(7.8.1) Evaluation status

Select from:

Not relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

330

(7.8.3) Emissions calculation methodology

Select all that apply

Average data method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

(7.8.5) Please explain

As of December 2024, Northrop Grumman had approximately 52 million square feet of floor space of which approximately 37,000 square feet were leased to third parties. By multiplying the average MWh/sq ft and therms/sqft, we derived electricity & natural gas usage for the facilities Northrop Grumman leases to third parties. Using the U.S. national average electricity emission factor from eGRID2022 and natural gas emission factor from EPA eHUB2021, we calculated GHG emissions from downstream leased assets.

Franchises

(7.8.1) Evaluation status

Select from:

Not relevant, explanation provided

(7.8.5) Please explain

Northrop Grumman does not own or operate franchises.

Investments

(7.8.1) Evaluation status

Select from:

Not relevant, explanation provided

(7.8.5) Please explain

Northrop Grumman is not a financial institution or financial services organization. Therefore, in accordance with the WRI Scope 3 Protocol, this category of emissions is not relevant to Northrop Grumman.

Other (upstream)

(7.8.5) Please explain

NA

Other (downstream)

(7.8.5) Please explain

NA
[Fixed row]

(7.8.1) Disclose or restate your Scope 3 emissions data for previous years.

Past year 1

(7.8.1.1) End date

09/30/2023

(7.8.1.4) Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

245950

(7.8.1.5) Scope 3: Upstream transportation and distribution (metric tons CO2e)

4870

(7.8.1.6) Scope 3: Waste generated in operations (metric tons CO2e)

14470

(7.8.1.7) Scope 3: Business travel (metric tons CO2e)

122830

(7.8.1.8) Scope 3: Employee commuting (metric tons CO2e)

381940

(7.8.1.14) Scope 3: Downstream leased assets (metric tons CO2e)

340

Past year 2

(7.8.1.1) End date

09/30/2022

(7.8.1.4) Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

242950

(7.8.1.5) Scope 3: Upstream transportation and distribution (metric tons CO2e)

4360

(7.8.1.6) Scope 3: Waste generated in operations (metric tons CO2e)

15390

(7.8.1.7) Scope 3: Business travel (metric tons CO2e)

110100

(7.8.1.8) Scope 3: Employee commuting (metric tons CO2e)

333000

(7.8.1.14) Scope 3: Downstream leased assets (metric tons CO2e)

2250

[Fixed row]

(7.9) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	<i>Select from:</i> <input checked="" type="checkbox"/> Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	<i>Select from:</i> <input checked="" type="checkbox"/> Third-party verification or assurance process in place
Scope 3	<i>Select from:</i> <input checked="" type="checkbox"/> Third-party verification or assurance process in place

[Fixed row]

(7.9.1) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Row 1

(7.9.1.1) Verification or assurance cycle in place

Select from:

Annual process

(7.9.1.2) Status in the current reporting year

Select from:

Complete

(7.9.1.3) Type of verification or assurance

Select from:

Limited assurance

(7.9.1.4) Attach the statement

2024 GHG Verification Sheet pdf.pdf

(7.9.1.5) Page/section reference

2

(7.9.1.6) Relevant standard

Select from:

ISO14064-3

(7.9.1.7) Proportion of reported emissions verified (%)

100

[Add row]

(7.9.2) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Row 1

(7.9.2.1) Scope 2 approach

Select from:

Scope 2 location-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

Annual process

(7.9.2.3) Status in the current reporting year

Select from:

Complete

(7.9.2.4) Type of verification or assurance

Select from:

Limited assurance

(7.9.2.5) Attach the statement

2024 GHG Verification Sheet pdf.pdf

(7.9.2.6) Page/ section reference

2

(7.9.2.7) Relevant standard

Select from:

ISO14064-3

(7.9.2.8) Proportion of reported emissions verified (%)

100

Row 2

(7.9.2.1) Scope 2 approach

Select from:

Scope 2 market-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

Annual process

(7.9.2.3) Status in the current reporting year

Select from:

Complete

(7.9.2.4) Type of verification or assurance

Select from:

Limited assurance

(7.9.2.5) Attach the statement

2024 GHG Verification Sheet pdf.pdf

(7.9.2.6) Page/ section reference

2

(7.9.2.7) Relevant standard

Select from:

ISO14064-3

(7.9.2.8) Proportion of reported emissions verified (%)

100

[Add row]

(7.9.3) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Row 1

(7.9.3.1) Scope 3 category

Select all that apply

Scope 3: Business travel

(7.9.3.2) Verification or assurance cycle in place

Select from:

Annual process

(7.9.3.3) Status in the current reporting year

Select from:

Complete

(7.9.3.4) Type of verification or assurance

Select from:

Limited assurance

(7.9.3.5) Attach the statement

2024 GHG Verification Sheet pdf.pdf

(7.9.3.6) Page/section reference

2

(7.9.3.7) Relevant standard

Select from:

ISO14064-3

(7.9.3.8) Proportion of reported emissions verified (%)

100

[Add row]

(7.10) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Select from:

Decreased

(7.10.1) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

Change in renewable energy consumption

(7.10.1.1) Change in emissions (metric tons CO₂e)

30620

(7.10.1.2) Direction of change in emissions

Select from:

Increased

(7.10.1.3) Emissions value (percentage)

4.31

(7.10.1.4) Please explain calculation

*In 2024, we sourced 12% of our electricity from renewable sources. While the percentage of renewable electricity decreased year-over-year, in 2024, we committed to new, long-term renewable electricity projects that, once online, will support progress toward our renewable electricity goal. In 2024, our 62.5 MW offsite solar development with AES became fully operational. This Virtual Power Purchase Agreement covers 100% of our electricity usage in Virginia and a portion of usage in West Virginia was offset with 132,362 MWh of Renewable Energy Certificates. We accounted for the associated emissions reductions using the eGRID2022 emission factors. We continue to operate four other small on-site solar power systems at our sites, and have 6 additional systems contracted or under development. Emissions reductions associated with minor fluctuations in annual solar output and eGRID emission factor variance are negligible. The RY2023 total gross S1 + S2 market based emissions reported to CDP in 2024 was 710,260 MT CO₂e, therefore $(30,620/710,260) * 100 = 4.31\%$ total increase in emissions due to emissions-reduction activities.*

Other emissions reduction activities

(7.10.1.1) Change in emissions (metric tons CO₂e)

10300

(7.10.1.2) Direction of change in emissions

Select from:

Decreased

(7.10.1.3) Emissions value (percentage)

1.45

(7.10.1.4) Please explain calculation

*In 2024, we implemented innovative solutions through the execution of initiatives expected to save a total of 10,300 MT of carbon dioxide-equivalent (CO₂e) annually. This includes 9,400 MT in boiler, HVAC, and steam line efficiency improvements, 60 MT in fleet electrification opportunities, and 400 MT in process emissions from equipment updates. The RY2023 total gross S1 + S2 market based emissions reported to CDP in 2024 was 710,260 MT CO₂e, therefore $(10,300/710,260) * 100 = 1.45\%$ total reduction in emissions due to emissions-reduction activities.*

Change in output

(7.10.1.1) Change in emissions (metric tons CO₂e)

33640

(7.10.1.2) Direction of change in emissions

Select from:

Decreased

(7.10.1.3) Emissions value (percentage)

4.74

(7.10.1.4) Please explain calculation

*In 2024, our electricity consumption was consistent with the prior year and natural gas usage decreased by 7% when compared to 2023, driven largely by program timing and activities. We remain committed to implementing efficiency measures and emissions projects that reduce operational costs and make progress towards our goals, offsetting our growth in operations to support new business. In 2024, we focused our investments in higher-impact emissions reduction initiatives that have longer implementation timelines. For example, we are diversifying our energy portfolio with renewables, conducting site-wide energy efficiency assessments at our major manufacturing sites, pursuing large-scale equipment replacements and planning for the ZEV transition. While the benefit of these investments was not fully realized in our 2024 performance, their impact will support progress towards our long-term goals. The RY2023 total gross S1 + S2 market based emissions reported to CDP in 2024 was 710,260 MT CO₂e, therefore $(35,890/710,260) * 100 = 4.74\%$ total reduction in emissions due to emissions-reduction activities.*

Unidentified

(7.10.1.4) Please explain calculation

Other

(7.10.1.1) Change in emissions (metric tons CO₂e)

2250

(7.10.1.2) Direction of change in emissions

Select from:

Decreased

(7.10.1.3) Emissions value (percentage)

0.32

(7.10.1.4) Please explain calculation

*Since last year, there were minor data corrections made to our 2023 reported footprint, such as mistatements and improved data accuracy, that caused an decrease of 2,250 MT compared to the value initially reported to CDP in 2024. Our materiality threshold for all data exclusions and uncertainty is 5%. Any identified data corrections from the previous two reporting years are typically corrected, regardless of materiality, and an analysis is conducted to determine impact to base year. The RY2023 total gross S1 + S2 market based emissions reported to CDP in 2024 was 710,260 MT CO₂e, therefore $(2,250/710,260) * 100 = 0.32\%$ total reduction in emissions due to minor data corrections.*

[Fixed row]

(7.10.2) Are your emissions performance calculations in 7.10 and 7.10.1 based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Select from:

Market-based

(7.12) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Select from:

No

(7.15) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Select from:

Yes

(7.15.1) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used global warming potential (GWP).

Row 1

(7.15.1.1) Greenhouse gas

Select from:

CO2

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

257670

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 2

(7.15.1.1) Greenhouse gas

Select from:

CH4

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

120

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 3

(7.15.1.1) Greenhouse gas

Select from:

N2O

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

380

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 4

(7.15.1.1) Greenhouse gas

Select from:

HFCs

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

19890

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 5

(7.15.1.1) Greenhouse gas

Select from:

PFCs

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

0

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 6

(7.15.1.1) Greenhouse gas

Select from:

SF6

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

2610

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 7

(7.15.1.1) Greenhouse gas

Select from:

NF3

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

260

(7.15.1.3) GWP Reference

Select from:

- IPCC Fourth Assessment Report (AR4 - 100 year)

Row 8

(7.15.1.1) Greenhouse gas

Select from:

- Other, please specify :CF4

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

175

(7.15.1.3) GWP Reference

Select from:

- IPCC Fourth Assessment Report (AR4 - 100 year)

Row 9

(7.15.1.1) Greenhouse gas

Select from:

- Other, please specify :C2F6

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

3554

(7.15.1.3) GWP Reference

Select from:

- IPCC Fourth Assessment Report (AR4 - 100 year)

Row 10

(7.15.1.1) Greenhouse gas

Select from:

Other, please specify :C4F8

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

50

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 11

(7.15.1.1) Greenhouse gas

Select from:

Other, please specify :Methylene chloride

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

1

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 12

(7.15.1.1) Greenhouse gas

Select from:

Other, please specify :Fluorinated GHGs

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

0

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

Row 13

(7.15.1.1) Greenhouse gas

Select from:

Other, please specify :Chlorinated Hydrocarbons i

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

0

(7.15.1.3) GWP Reference

Select from:

IPCC Fourth Assessment Report (AR4 - 100 year)

[Add row]

(7.16) Break down your total gross global Scope 1 and 2 emissions by country/area.

Australia

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

810

(7.16.3) Scope 2, market-based (metric tons CO2e)

810

Belgium

(7.16.1) Scope 1 emissions (metric tons CO2e)

140

(7.16.2) Scope 2, location-based (metric tons CO2e)

5

(7.16.3) Scope 2, market-based (metric tons CO2e)

5

Canada

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

0

(7.16.3) Scope 2, market-based (metric tons CO2e)

0

Denmark

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

30

(7.16.3) Scope 2, market-based (metric tons CO2e)

30

France

(7.16.1) Scope 1 emissions (metric tons CO2e)

50

(7.16.2) Scope 2, location-based (metric tons CO2e)

70

(7.16.3) Scope 2, market-based (metric tons CO2e)

70

Germany

(7.16.1) Scope 1 emissions (metric tons CO2e)

410

(7.16.2) Scope 2, location-based (metric tons CO2e)

4680

(7.16.3) Scope 2, market-based (metric tons CO2e)

4680

Italy

(7.16.1) Scope 1 emissions (metric tons CO2e)

100

(7.16.2) Scope 2, location-based (metric tons CO2e)

1100

(7.16.3) Scope 2, market-based (metric tons CO2e)

1100

Japan

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

80

(7.16.3) Scope 2, market-based (metric tons CO2e)

80

Netherlands

(7.16.1) Scope 1 emissions (metric tons CO2e)

30

(7.16.2) Scope 2, location-based (metric tons CO2e)

40

(7.16.3) Scope 2, market-based (metric tons CO2e)

40

Poland

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

160

(7.16.3) Scope 2, market-based (metric tons CO2e)

160

Republic of Korea

(7.16.1) Scope 1 emissions (metric tons CO2e)

20

(7.16.2) Scope 2, location-based (metric tons CO2e)

140

(7.16.3) Scope 2, market-based (metric tons CO2e)

140

Saudi Arabia

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

40

(7.16.3) Scope 2, market-based (metric tons CO2e)

40

Switzerland

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

1

(7.16.3) Scope 2, market-based (metric tons CO2e)

1

United Arab Emirates

(7.16.1) Scope 1 emissions (metric tons CO2e)

0

(7.16.2) Scope 2, location-based (metric tons CO2e)

60

(7.16.3) Scope 2, market-based (metric tons CO2e)

60

United Kingdom of Great Britain and Northern Ireland

(7.16.1) Scope 1 emissions (metric tons CO2e)

140

(7.16.2) Scope 2, location-based (metric tons CO2e)

610

(7.16.3) Scope 2, market-based (metric tons CO2e)

610

United States of America

(7.16.1) Scope 1 emissions (metric tons CO2e)

283820

(7.16.2) Scope 2, location-based (metric tons CO2e)

470114

(7.16.3) Scope 2, market-based (metric tons CO2e)

402154

[Fixed row]

(7.17) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

Select all that apply

By business division

(7.17.1) Break down your total gross global Scope 1 emissions by business division.

	Business division	Scope 1 emissions (metric ton CO2e)
Row 1	Corporate	8540
Row 2	Aeronautics Systems	52730
Row 3	Defense Systems	35390
Row 4	Mission Systems	81250
Row 5	Space Systems	106800

[Add row]

(7.20) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

Select all that apply

By business division

(7.20.1) Break down your total gross global Scope 2 emissions by business division.

	Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Row 1	<i>Space Systems</i>	144450	129620
Row 2	<i>Aeronautics Systems</i>	103080	102930
Row 3	<i>Enterprise Services</i>	4720	2650
Row 4	<i>Defense Systems</i>	85480	54720
Row 5	<i>Mission Systems</i>	140210	120060

[Add row]

(7.22) Break down your gross Scope 1 and Scope 2 emissions between your consolidated accounting group and other entities included in your response.

Consolidated accounting group

(7.22.1) Scope 1 emissions (metric tons CO2e)

284710

(7.22.2) Scope 2, location-based emissions (metric tons CO2e)

477940

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

409980

(7.22.4) Please explain

Our consolidated financial statements include the accounts of Northrop Grumman and its subsidiaries and joint ventures or other investments for which we consolidate the financial results.

All other entities

(7.22.1) Scope 1 emissions (metric tons CO2e)

0

(7.22.2) Scope 2, location-based emissions (metric tons CO2e)

0

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

0

(7.22.4) Please explain

Our consolidated financial statements include the accounts of Northrop Grumman and its subsidiaries and joint ventures or other investments for which we consolidate the financial results.

[Fixed row]

(7.23) Is your organization able to break down your emissions data for any of the subsidiaries included in your CDP response?

Select from:

No

(7.27) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Row 1

(7.27.1) Allocation challenges

Select from:

- Diversity of product lines makes accurately accounting for each product/product line cost ineffective

(7.27.2) Please explain what would help you overcome these challenges

Northrop Grumman's customer base is primarily the U.S. Government, principally the Department of Defense and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers. Due to the nature of our business, broad product portfolio, and customer requirements the allocation of emissions to an individual product or customer is difficult. Many products are sold to government customers who take formal possession of the product. Use case scenarios of the products we sell to military or other national security customers are not public or easily estimable. Consequently, we provide our full GHG inventory so that customers may allocate in accordance with their methodology.

[Add row]

(7.28) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

(7.28.1) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Select from:

- No

(7.28.3) Primary reason for no plans to develop your capabilities to allocate emissions to your customers

Select from:

- Other, please specify :Broad product portfolio, customer requirements, sensitivity of information

(7.28.4) Explain why you do not plan to develop capabilities to allocate emissions to your customers

Northrop Grumman's customer base is primarily the U.S. Government, principally the Department of Defense and intelligence community. We also conduct business with foreign, state and local governments, as well as commercial customers. Our broad portfolio is aligned to support national security priorities and our solutions equip our customers with capabilities they need to connect, protect and advance humanity. Due to the nature of our business, broad product portfolio, and customer requirements, the allocation of emissions to an individual product is difficult.

[Fixed row]

(7.29) What percentage of your total operational spend in the reporting year was on energy?

Select from:

- More than 0% but less than or equal to 5%

(7.30) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Select from: <input checked="" type="checkbox"/> Yes
Consumption of purchased or acquired electricity	Select from: <input checked="" type="checkbox"/> Yes
Consumption of purchased or acquired heat	Select from: <input checked="" type="checkbox"/> No
Consumption of purchased or acquired steam	Select from: <input checked="" type="checkbox"/> Yes
Consumption of purchased or acquired cooling	Select from: <input checked="" type="checkbox"/> No
Generation of electricity, heat, steam, or cooling	Select from: <input checked="" type="checkbox"/> Yes

[Fixed row]

(7.30.1) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

Consumption of fuel (excluding feedstock)

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

0

(7.30.1.3) MWh from non-renewable sources

1352990

(7.30.1.4) Total (renewable + non-renewable) MWh

1352990.00

Consumption of purchased or acquired electricity

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

187780

(7.30.1.3) MWh from non-renewable sources

1381720

(7.30.1.4) Total (renewable + non-renewable) MWh

1569500.00

Consumption of purchased or acquired steam

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

0

(7.30.1.3) MWh from non-renewable sources

2940

(7.30.1.4) Total (renewable + non-renewable) MWh

2940.00

Consumption of self-generated non-fuel renewable energy

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

580

(7.30.1.4) Total (renewable + non-renewable) MWh

580.00

Total energy consumption

(7.30.1.1) Heating value

Select from:

Unable to confirm heating value

(7.30.1.2) MWh from renewable sources

188360

(7.30.1.3) MWh from non-renewable sources

2737650

(7.30.1.4) Total (renewable + non-renewable) MWh

2926010.00

[Fixed row]

(7.30.6) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Select from: <input checked="" type="checkbox"/> No
Consumption of fuel for the generation of heat	Select from: <input checked="" type="checkbox"/> No
Consumption of fuel for the generation of steam	Select from:

	Indicate whether your organization undertakes this fuel application
	<input checked="" type="checkbox"/> No
Consumption of fuel for the generation of cooling	Select from: <input checked="" type="checkbox"/> No
Consumption of fuel for co-generation or tri-generation	Select from: <input checked="" type="checkbox"/> No

[Fixed row]

(7.30.7) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

	Heating value	Total fuel MWh consumed by the organization	Comment
Gas	Select from: <input checked="" type="checkbox"/> Unable to confirm heating value	1213010	<i>This is inclusive of our stationary natural gas usage.</i>
Other non-renewable fuels (e.g. non-renewable hydrogen)	Select from: <input checked="" type="checkbox"/> Unable to confirm heating value	139980	<i>This is inclusive of all other combustion of fuels, not including stationary natural gas.</i>
Total fuel	Select from: <input checked="" type="checkbox"/> Unable to confirm heating value	1352990	<i>Rich text input [must be under 2400 characters]</i>

[Fixed row]

(7.30.9) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

Electricity

(7.30.9.1) Total Gross generation (MWh)

580

(7.30.9.2) Generation that is consumed by the organization (MWh)

580

(7.30.9.3) Gross generation from renewable sources (MWh)

580

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

580

Heat

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

Steam

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

Cooling

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

[Fixed row]

(7.30.14) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero or near-zero emission factor in the market-based Scope 2 figure reported in 7.7.

Row 1

(7.30.14.1) Country/area

Select from:

United States of America

(7.30.14.2) Sourcing method

Select from:

Unbundled procurement of energy attribute certificates (EACs)

(7.30.14.3) Energy carrier

Select from:

Electricity

(7.30.14.4) Low-carbon technology type

Select from:

Solar

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

130085

(7.30.14.6) Tracking instrument used

Select from:

US-REC

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

No

(7.30.14.10) Comment

130,083 MWh of Green-e certified replacement RECs provided by AES until Sol Madison system becomes operational. Sol Madison offsite solar development became operational September 2024.

Row 2

(7.30.14.1) Country/area

Select from:

United States of America

(7.30.14.2) Sourcing method

Select from:

Financial (virtual) power purchase agreement (VPPA)

(7.30.14.3) Energy carrier

Select from:

Electricity

(7.30.14.4) Low-carbon technology type

Select from:

Solar

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

2280

(7.30.14.6) Tracking instrument used

Select from:

US-REC

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

Yes

(7.30.14.9) Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2024

(7.30.14.10) Comment

2,280 MWh of electricity generated from Sol Madison offsite solar development after it became operational mid September 2024.

Row 3

(7.30.14.1) Country/area

Select from:

- United States of America

(7.30.14.2) Sourcing method

Select from:

- Retail supply contract with an electricity supplier (retail green electricity)

(7.30.14.3) Energy carrier

Select from:

- Electricity

(7.30.14.4) Low-carbon technology type

Select from:

- Wind

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

4000

(7.30.14.6) Tracking instrument used

Select from:

- Contract

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

- United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

No

(7.30.14.10) Comment

4,000 MWh of Green-e Certified RECs through Huntsville Utilities/TVA Green Flex Program.

Row 4

(7.30.14.1) Country/area

Select from:

United States of America

(7.30.14.2) Sourcing method

Select from:

Retail supply contract with an electricity supplier (retail green electricity)

(7.30.14.3) Energy carrier

Select from:

Electricity

(7.30.14.4) Low-carbon technology type

Select from:

Renewable energy mix, please specify :Mixture of wind & solar

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

35650

(7.30.14.6) Tracking instrument used

Select from:

Contract

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

No

(7.30.14.10) Comment

35,651 MWh of NewMix RECs, consisting of Green-e Certified National RECs, from Constellation's Green Electric Fix Price Percent of Load product.

Row 5

(7.30.14.1) Country/area

Select from:

United States of America

(7.30.14.2) Sourcing method

Select from:

Retail supply contract with an electricity supplier (retail green electricity)

(7.30.14.3) Energy carrier

Select from:

Electricity

(7.30.14.4) Low-carbon technology type

Select from:

Renewable energy mix, please specify :mixture of wind & solar

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

1400

(7.30.14.6) Tracking instrument used

Select from:

Contract

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

No

(7.30.14.10) Comment

NewMix RECs, consisting of Green-e Certified National RECs, from Constellation's Green Electric Fix Price Percent of Load product.

Row 6

(7.30.14.1) Country/area

Select from:

United States of America

(7.30.14.2) Sourcing method

Select from:

Retail supply contract with an electricity supplier (retail green electricity)

(7.30.14.3) Energy carrier

Select from:

Electricity

(7.30.14.4) Low-carbon technology type

Select from:

Renewable energy mix, please specify :Mixture of wind & solar

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

12210

(7.30.14.6) Tracking instrument used

Select from:

Contract

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

No

(7.30.14.10) Comment

NewMix RECs, consisting of Green-e Certified National RECs, from Constellation's Green Electric Fix Price Percent of Load product.

Row 7

(7.30.14.1) Country/area

Select from:

United States of America

(7.30.14.2) Sourcing method

Select from:

Unbundled procurement of energy attribute certificates (EACs)

(7.30.14.3) Energy carrier

Select from:

Electricity

(7.30.14.4) Low-carbon technology type

Select from:

Wind

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

2155

(7.30.14.6) Tracking instrument used

Select from:

US-REC

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

Yes

(7.30.14.9) Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2019

(7.30.14.10) Comment

*2,155 MWh of unbundled RECs purchased as a REC swap for the onsite solar system at Northrop Grumman's Rolling Meadows site.
[Add row]*

(7.30.16) Provide a breakdown by country/area of your electricity/heat/steam/cooling consumption in the reporting year.

Australia

(7.30.16.1) Consumption of purchased electricity (MWh)

990

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

990.00

Belgium

(7.30.16.1) Consumption of purchased electricity (MWh)

30

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

30.00

Canada

(7.30.16.1) Consumption of purchased electricity (MWh)

0

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

0.00

Denmark

(7.30.16.1) Consumption of purchased electricity (MWh)

93950

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

93950.00

France

(7.30.16.1) Consumption of purchased electricity (MWh)

1110

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

1110.00

Germany

(7.30.16.1) Consumption of purchased electricity (MWh)

9810

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

9810.00

Italy

(7.30.16.1) Consumption of purchased electricity (MWh)

2750

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

2750.00

Japan

(7.30.16.1) Consumption of purchased electricity (MWh)

160

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

160.00

Netherlands

(7.30.16.1) Consumption of purchased electricity (MWh)

100

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

100.00

Poland

(7.30.16.1) Consumption of purchased electricity (MWh)

210

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

210.00

Republic of Korea

(7.30.16.1) Consumption of purchased electricity (MWh)

250

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

250.00

Saudi Arabia

(7.30.16.1) Consumption of purchased electricity (MWh)

50

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

50.00

Switzerland

(7.30.16.1) Consumption of purchased electricity (MWh)

30

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

30.00

United Arab Emirates

(7.30.16.1) Consumption of purchased electricity (MWh)

90

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

90.00

United Kingdom of Great Britain and Northern Ireland

(7.30.16.1) Consumption of purchased electricity (MWh)

2940

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

2940.00

United States of America

(7.30.16.1) Consumption of purchased electricity (MWh)

1457030

(7.30.16.2) Consumption of self-generated electricity (MWh)

580

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

2940

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

1460550.00

[Fixed row]

(7.45) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Row 1

(7.45.1) Intensity figure

0.00001693

(7.45.2) Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

694690

(7.45.3) Metric denominator

Select from:

unit total revenue

(7.45.4) Metric denominator: Unit total

41033000000

(7.45.5) Scope 2 figure used

Select from:

Market-based

(7.45.6) % change from previous year

6.05

(7.45.7) Direction of change

Select from:

Decreased

(7.45.8) Reasons for change

Select all that apply

Other emissions reduction activities

Change in output

Change in physical operating conditions

(7.45.9) Please explain

While our operations are growing to support new business, as reflected in our growth in sales, including product sales, we continue to invest in emissions reduction initiatives and identify process improvements to increase efficiency. In 2024, we continued to focus our investments on higher-impact emissions reduction initiatives that have longer implementation timelines. For example, we are diversifying our energy portfolio with renewables, conducting site-wide energy efficiency assessments at major manufacturing sites, pursuing large-scale equipment replacements and planning for a transition to zero-emission vehicles. Although the benefit of these investments was not fully realized in our 2024 performance, their impact will support continued progress toward our long-term goals.

Row 2

(7.45.1) Intensity figure

0.01332253

(7.45.2) Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

694690

(7.45.3) Metric denominator

Select from:

- square foot

(7.45.4) Metric denominator: Unit total

52144000

(7.45.5) Scope 2 figure used

Select from:

- Market-based

(7.45.6) % change from previous year

3.45

(7.45.7) Direction of change

Select from:

- Decreased

(7.45.8) Reasons for change

Select all that apply

- Other emissions reduction activities
- Change in output
- Change in physical operating conditions

(7.45.9) Please explain

Our operations are growing within our existing footprint to support new business as reflected through our growth in floor space and sales, including product sales. We continue to invest in emissions reduction initiatives and identify process improvements to increase efficiency. In 2024, we continued to focus our investments on higher-impact emissions reduction initiatives that have longer implementation timelines. For example, we are diversifying our energy portfolio with renewables,

conducting site-wide energy efficiency assessments at major manufacturing sites, pursuing large-scale equipment replacements and planning for a transition to zero-emission vehicles. Although the benefit of these investments was not fully realized in our 2024 performance, their impact will support continued progress toward our long-term goals.

[Add row]

(7.52) Provide any additional climate-related metrics relevant to your business.

Row 1

(7.52.1) Description

Select from:

Waste

(7.52.2) Metric value

21310

(7.52.3) Metric numerator

Total solid waste to landfill/incineration (tons)

(7.52.4) Metric denominator (intensity metric only)

0

(7.52.5) % change from previous year

2.1

(7.52.6) Direction of change

Select from:

Decreased

(7.52.7) Please explain

"In 2023, Northrop Grumman set a goal to reduce solid waste sent to landfill and incineration by 10% from a 2019 base year by 2030. In RY2024, our solid waste sent to landfill/incineration increased 4.6% from our RY2019 baseline but decreased 2.1% from RY2023, despite overall business growth, due to operational improvements combined with program slowdown at some sites."

Row 2

(7.52.1) Description

Select from:

Other, please specify :Water

(7.52.2) Metric value

1460204000

(7.52.3) Metric numerator

Total Water Withdrawals (in gallons)

(7.52.4) Metric denominator (intensity metric only)

0

(7.52.5) % change from previous year

0.1

(7.52.6) Direction of change

Select from:

Increased

(7.52.7) Please explain

In 2023, Northrop Grumman set a goal to reduce absolute water withdrawals by 10% from a 2019 base year by 2030, with a focus on freshwater withdrawals. In RY2024, our water withdrawals increased 0.6% from our RY2019 baseline and increased by 0.1% compared to RY2023. Despite overall business growth, there were continued process improvements, like installation of leak detection systems, especially in water-stressed regions.
[Add row]

(7.53) Did you have an emissions target that was active in the reporting year?

Select all that apply

Absolute target

(7.53.1) Provide details of your absolute emissions targets and progress made against those targets.

Row 1

(7.53.1.1) Target reference number

Select from:

Abs 1

(7.53.1.2) Is this a science-based target?

Select from:

No, and we do not anticipate setting one in the next two years

(7.53.1.5) Date target was set

03/28/2022

(7.53.1.6) Target coverage

Select from:

Organization-wide

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

- Methane (CH4)
- Nitrous oxide (N2O)
- Carbon dioxide (CO2)
- Perfluorocarbons (PFCs)
- Hydrofluorocarbons (HFCs)
- Sulphur hexafluoride (SF6)
- Nitrogen trifluoride (NF3)

(7.53.1.8) Scopes

Select all that apply

- Scope 1
- Scope 2

(7.53.1.9) Scope 2 accounting method

Select from:

- Market-based

(7.53.1.11) End date of base year

09/30/2019

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

275680

(7.53.1.13) Base year Scope 2 emissions covered by target (metric tons CO2e)

524410

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

800090.000

(7.53.1.33) Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

(7.53.1.34) Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100

(7.53.1.54) End date of target

09/30/2030

(7.53.1.55) Targeted reduction from base year (%)

50

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

400045.000

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

284710

(7.53.1.58) Scope 2 emissions in reporting year covered by target (metric tons CO2e)

409980

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

694690.000

(7.53.1.78) Land-related emissions covered by target

Select from:

No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

26.35

(7.53.1.80) Target status in reporting year

Select from:

Underway

(7.53.1.82) Explain target coverage and identify any exclusions

This goal covers Scope 1 and Scope 2 emissions for all buildings and facilities within which we have operational control. The target reporting period is based on a government fiscal year.

(7.53.1.83) Target objective

We coupled an interim target of 50% reduction in Scope 1 and 2 GHG emissions by 2030 from a 2019 baseline year with a complementary goal to source 50% of our electricity from renewable sources by 2030 to help drive progress toward our Net Zero operations goal. Minimizing our own emissions footprint is a critical step to support global climate ambitions, so we continue to explore new opportunities to invest in zero-emissions technologies and prioritize emissions reductions in our operations.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

We have set a target to reduce 50% of Scope 1 and Scope 2 emissions by 2030. This interim target will support progress towards our Net Zero Operations (Scope 1 and 2) by 2035 goal. Our strategy to achieve this target includes multiple facets - (1) sourcing renewable and zero-emissions electricity, (2) identifying and implementing sound energy management practices across our sites, (3) embedding resource conservation and efficiency measures within our processes, and (4) pursuing electrification and alternative fuels, where possible. Northrop Grumman is also pursuing other emissions reduction solutions including electrification, alternative fuels and energy monitoring. In 2023, we achieved an 11.2% reduction in emissions, compared to our 2019 base year and sourced 16% of electricity from renewable sources, which contributed to our progress.

(7.53.1.85) Target derived using a sectoral decarbonization approach

Select from:

No

[Add row]

(7.54) Did you have any other climate-related targets that were active in the reporting year?

Select all that apply

Targets to increase or maintain low-carbon energy consumption or production

Net-zero targets

(7.54.1) Provide details of your targets to increase or maintain low-carbon energy consumption or production.

Row 1

(7.54.1.1) Target reference number

Select from:

Low 1

(7.54.1.2) Date target was set

03/28/2022

(7.54.1.3) Target coverage

Select from:

Organization-wide

(7.54.1.4) Target type: energy carrier

Select from:

Electricity

(7.54.1.5) Target type: activity

Select from:

Consumption

(7.54.1.6) Target type: energy source

Select from:

Renewable energy source(s) only

(7.54.1.7) End date of base year

09/30/2019

(7.54.1.8) Consumption or production of selected energy carrier in base year (MWh)

1514420

(7.54.1.9) % share of low-carbon or renewable energy in base year

1.4

(7.54.1.10) End date of target

09/30/2030

(7.54.1.11) % share of low-carbon or renewable energy at end date of target

50

(7.54.1.12) % share of low-carbon or renewable energy in reporting year

12

(7.54.1.13) % of target achieved relative to base year

(7.54.1.14) Target status in reporting year

Select from:

 Underway**(7.54.1.16) Is this target part of an emissions target?**

Yes, this target is associated with our Absolute ghg emissions reduction target (Abs1) and both are aligned with our Net Zero 2035 target (NZ1).

(7.54.1.17) Is this target part of an overarching initiative?

Select all that apply

 Other, please specify :NGC Next Generation Sustainability Goals**(7.54.1.19) Explain target coverage and identify any exclusions**

This target includes all electricity usage (MWh) across the company. The target reporting period is based on a government fiscal year.

(7.54.1.20) Target objective

We coupled an interim target of 50% reduction in Scope 1 and 2 GHG emissions by 2030 from a 2019 baseline year with a complementary goal to source 50% of our electricity from renewable sources by 2030 to help drive progress toward our Net Zero operations goal. Minimizing our own emissions footprint is a critical step to support global climate ambitions, so we continue to explore new opportunities to invest in zero-emissions technologies and prioritize emissions reductions in our operations.

(7.54.1.21) Plan for achieving target, and progress made to the end of the reporting year

Sourcing renewable electricity is an important component of our mission to achieve Net Zero operations by 2035. In 2023, we sourced 16% of electricity from renewable sources. To achieve our 50% renewable electricity goal by 2030, we are performing engineering studies and negotiating terms for a mix of onsite and offsite renewable energy opportunities across our locations. We have two onsite solar projects under active assessment and/or negotiation and four under development. To date, we have assessed 30 potential large-scale offsite solar projects and are making substantial progress in negotiations for developments that will provide renewable electricity and environmental attributes to our load centers in California and Maryland.

[Add row]

(7.54.3) Provide details of your net-zero target(s).

Row 1

(7.54.3.1) Target reference number

Select from:

NZ1

(7.54.3.2) Date target was set

03/28/2022

(7.54.3.3) Target Coverage

Select from:

Organization-wide

(7.54.3.4) Targets linked to this net zero target

Select all that apply

Abs1

Low1

(7.54.3.5) End date of target for achieving net zero

09/30/2035

(7.54.3.6) Is this a science-based target?

Select from:

No, and we do not anticipate setting one in the next two years

(7.54.3.8) Scopes

Select all that apply

- Scope 1
- Scope 2

(7.54.3.9) Greenhouse gases covered by target

Select all that apply

- Methane (CH4)
- Nitrous oxide (N2O)
- Carbon dioxide (CO2)
- Perfluorocarbons (PFCs)
- Hydrofluorocarbons (HFCs)
- Sulphur hexafluoride (SF6)
- Nitrogen trifluoride (NF3)

(7.54.3.10) Explain target coverage and identify any exclusions

This goal covers Scope 1 and Scope 2 emissions for all buildings and facilities within which we have operational control. The target reporting period is based on a government fiscal year.

(7.54.3.11) Target objective

As a leader in the aerospace and defense industry, we support climate science and the need for society as a whole to limit global temperature rise to 1.5 degrees Celsius and drive global GHG emissions to Net Zero by 2050. Minimizing our own emissions footprint is a critical step to support global climate ambitions, so we continue to explore new opportunities to invest in zero-emissions technologies and prioritize emissions reductions in our operations.

(7.54.3.12) Do you intend to neutralize any residual emissions with permanent carbon removals at the end of the target?

Select from:

- Yes

(7.54.3.13) Do you plan to mitigate emissions beyond your value chain?

Select from:

- No, and we do not plan to within the next two years

(7.54.3.14) Do you intend to purchase and cancel carbon credits for neutralization and/or beyond value chain mitigation?

Select all that apply

No, we do not plan to purchase and cancel carbon credits for neutralization and/or beyond value chain mitigation

(7.54.3.15) Planned milestones and/or near-term investments for neutralization at the end of the target

We currently anticipate that approximately 10% of emissions that have not been otherwise eliminated will require additional neutralization action in the target year.

(7.54.3.17) Target status in reporting year

Select from:

Underway

(7.54.3.19) Process for reviewing target

"We have continued to prioritize tracking and maintaining high-quality data about our key operational environmental metrics. We report on environmental data annually on a government fiscal year basis (October-September). This shift accommodates an earlier report publication date and enables our data to include actual results for all months where data is available, improving our data quality and eliminating duplicative reporting efforts. We disclose our emissions inventory and track progress towards our goals annually in our Sustainability Report. "

[Add row]

(7.55) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Select from:

Yes

(7.55.3) What methods do you use to drive investment in emissions reduction activities?

Row 1

(7.55.3.1) Method

Select from:

Internal incentives/recognition programs

(7.55.3.2) Comment

Environmental sustainability (measured in terms of annual progress towards achieving net zero greenhouse gas emissions in operations by 2035) is one of the Company's five non-financial metrics that influences the annual incentive compensation program and holds ourselves accountable.

Row 2

(7.55.3.1) Method

Select from:

Dedicated budget for energy efficiency

(7.55.3.2) Comment

We make annual financial investments in energy efficiency projects in our buildings and operations to support progress towards our goals to reduce greenhouse gas emissions, water withdrawals, and solid waste sent to landfill and incineration.

Row 3

(7.55.3.1) Method

Select from:

Employee engagement

(7.55.3.2) Comment

Employee awareness and behavior is an important element of efficiency and emissions-reductions activities. We engage with employees through our environmentally focused Employee Resource Group, signage in our facilities, webinars, and voluntary training.

Row 4

(7.55.3.1) Method

Select from:

Internal finance mechanisms

(7.55.3.2) Comment

We employ a centralized investment mechanism to allocate targeted environmental and efficiency (E&E) capital, which allows us to solicit project ideas from across the company and fund impactful projects that drive efficiency and performance against our goals.

Row 5

(7.55.3.1) Method

Select from:

Dedicated budget for other emissions reduction activities

(7.55.3.2) Comment

We make annual financial investments in projects that increase efficiency and directly or indirectly result in GHG emissions reductions to support progress towards our goals to reduce greenhouse gas emissions, water withdrawals, and solid waste sent to landfill and incineration.

[Add row]

(7.73) Are you providing product level data for your organization's goods or services?

Select from:

No, I am not providing data

(7.74) Do you classify any of your existing goods and/or services as low-carbon products?

Select from:

No

(7.79) Has your organization retired any project-based carbon credits within the reporting year?

Select from:

No

C13. Further information & sign off

(13.1) Indicate if any environmental information included in your CDP response (not already reported in 7.9.1/2/3, 8.9.1/2/3/4, and 9.3.2) is verified and/or assured by a third party?

	Other environmental information included in your CDP response is verified and/or assured by a third party
	Select from: <input checked="" type="checkbox"/> Yes

[Fixed row]

(13.1.1) Which data points within your CDP response are verified and/or assured by a third party, and which standards were used?

Row 1

(13.1.1.1) Environmental issue for which data has been verified and/or assured

Select all that apply

Climate change

(13.1.1.2) Disclosure module and data verified and/or assured

Environmental performance – Climate change

Base year emissions

Other data point in module 7, please specify :2024 Scope 1 and 2; Scope 3 for business travel

(13.1.1.3) Verification/assurance standard

Climate change-related standards

ISO 14064-3

(13.1.1.4) Further details of the third-party verification/assurance process

Base year emissions for 2019 were verified by our assurance provider

[Add row]

(13.3) Provide the following information for the person that has signed off (approved) your CDP response.

(13.3.1) Job title

Chief Environment, Quality and Safety Officer

(13.3.2) Corresponding job category

Select from:

Chief Sustainability Officer (CSO)

[Fixed row]

