Raytheon Technologies Corporation - Climate Change 2021



C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

Raytheon Technologies Corporation with 2020 pro forma sales of \$64 billion and more than 180,000 employees, is an aerospace and defense company that provides advanced systems and services for commercial, military and government customers worldwide. With four industry-leading businesses — Collins Aerospace Systems, Pratt & Whitney, Raytheon Intelligence & Space and Raytheon Missiles & Defense — the company delivers solutions that push the boundaries in avionics, cybersecurity, directed energy, electric propulsion, hypersonics, and quantum physics. The company, formed in 2020 through the combination of Raytheon Company and the United Technologies Corporation aerospace businesses, is headquartered in Waltham, Massachusetts.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date	Indicate if you are providing emissions data for past reporting	Select the number of past reporting years you will be providing emissions data
			years	for
Reporting year	January 1 2020	December 31 2020	No	<not applicable=""></not>

C0.3

(C0.3) Select the countries/areas for which you will be supplying data.

Canada China

Israel

Mexico

Poland

Singapore

United Kingdom of Great Britain and Northern Ireland United States of America

United States of A

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response. USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization? Yes

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of	Please explain
individual(s)	
Board-level committee	The Raytheon Technologies Board of Directors Committee on Governance and Public Policy (GPPC), which is comprised entirely of independent directors, oversees the Company's strategy, performance and goals relating to the environment and sustainability, including climate-related matters. Among other oversight duties relating to governance and social responsibility, the GPPC is responsible for the review and approval of RTX's formal sustainability goals, including targets for reduction of greenhouse gas emissions, water consumption and waste, which are currently established for five-year periods. The GPPC receives briefings periodically (at least annually) on RTX's climate change-related performance in relation to the Company's five-year goals. Additionally, the GPPC receives periodic updates on the evolving interests and expectations of stakeholders pertaining to environmental sustainability, including climate-related issues specifically. Example of a climate-related decision made by the Committee: In 2020, the Committee approved the company's 2025 long-term greenhouse gas goal, and the companion goal to implement environmental best management practices, including energy BMPs.

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

with which climate- related	mechanisms into which	Scope of board- level oversight	Please explain
Scheduled – some meetings	Reviewing and guiding strategy Reviewing and guiding major plans of action Setting performance objectives Monitoring and performance of objectives Monitoring and overseeing progress against goals and targets for addressing climate-related issues	<not Applicabl e></not 	Subsequent to the April 2020 merger of United Technologies Corporation and Raytheon Company, the newly constituted GPPC reviewed the approach to climate related issues of each of the legacy companies. Building upon legacy company practices, the GPPC approved metrics and five-year performance goals in the areas of greenhouse gas emissions, waste management and water consumption, while also committing to 100% deployment of more than 30 water, waste, and energy/ greenhouse gas emissions "best management practices." The GPPC also directed that the Company track and disclose its performance against a range of sustainability reporting elements established by the Sustainability Accountability Standards Board for the aerospace and defense industry. These represent major strategic initiatives that have triggered action plans across the enterprise. Raytheon Technologies climate change impact mitigation, and GHG emissions reduction programs are and will be reviewed and discussed periodically (at least annually) by the GPPC. The review includes a discussion of progress against program performance objectives, metrics and strategic initiatives and the impacts of facility and process infrastructure investments targeting energy efficiency and reductions in GHG emissions. Beginning with 2021, the Board's Human Capital and Compensation Committee ("HCCC") has incorporated into the Executive Annual Incentive Compensation Program a new Corporate Responsibility Scorecard which will include qualitative objectives relating to "Sustainability and Safety", among other metrics. As discussed in greater detail in the Company's 2021 Proxy Statement, the HCCC will evaluate progress towards these objectives as part of its annual cash incentive determination process.

C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Name of the position(s) and/or committee(s)	Reporting line			Frequency of reporting to the board on climate-related issues
Other C-Suite Officer, please specify (Corporate Senior Vice President, Operations and Supply Chain)		Both assessing and managing climate-related risks and opportunities	<not applicable=""></not>	Quarterly

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climaterelated issues are monitored (do not include the names of individuals).

The Corporate Senior Vice President, Operations and Supply Chain is the highest ranking internal company official responsible for climate change and sustainability. He reports directly to Chairman and Chief Executive Officer and briefs the Government and Public Policy Committee of the Board of Directors on climate, energy and other environmental issues. The Environment, Health & Safety organization and programs report to the Senior V.P., Operations and Supply Chain. This position maintains ongoing engagement on all EH&S activities, including those relating to climate change. This position is directly involved in setting annual and long-term sustainability goals, including greenhouse gas emissions, and tracking progress towards goals on a quarterly basis. The company's Global Security Services, which is responsible for the Business Resilience and Crisis Management program, also reports to the Senior V.P., Operations and Supply Chain. The Business Resilience and Crisis Management program, also reports to the Senior V.P., Operations and Supply Chain. The Business Resilience and Crisis Management program is the company-wide effort related to building resilience to prevent business disruption due to climate change and other types of threats. When progress is not adequate, or obstacles encountered, the Senior V.P., Operations and Supply Chain convenes the necessary people and resources to resolve the issue. As part of the Senior Leadership Team, the Senior V.P., Operations and Supply Chain is also aware of and supports the company's decarbonization strategies.

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	

C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive	1 .	Activity inventivized	Comment
Other C-Suite Officer	Monetary reward	Emissions reduction target Energy reduction project	Compensation for Corporate VP of Operations and Supply Chain annual salary and other compensation based on the attainment of short and longer term performance goals. Attainment of corporate sustainability goals, including the annual targets for GHG emissions reductions, and implementing GHG and energy best management practices, is included in financial compensation decisions.
Environmental, health, and safety manager	Monetary reward	Emissions reduction target Energy reduction project	Compensation for Corporate and Business Unit EH&S management includes annual salary and other compensation based on the attainment of applicable short and longer term performance goals. Attainment of corporate annual sustainability goals, including the annual targets for GHG emissions reductions and implementing GHG and energy best management practices, is included in financial compensation decisions.
Management group	Monetary reward	Emissions reduction target Energy reduction project	Compensation for Corporate and Business Unit management in various functional groups (e.g., Operations & Supply Chain, and Facilities) includes annual salary and other compensation based on the attainment of applicable short and longer term performance goals. Attainment of corporate annual sustainability goals, including the annual targets for GHG emissions reductions and implementing GHG and energy best management practices, is included in financial compensation decisions.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities? Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	5	This time horizon is aligned with similarly designated time horizons of Raytheon Technologies business practices.
Medium-term	5	10	This time horizon is aligned with similarly designated time horizons of Raytheon Technologies business practices.
Long-term	10	20	This time horizon is aligned with similarly designated time horizons of Raytheon Technologies business practices.

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

For the purposes of this questionnaire, Raytheon Technologies defines substantive climate-related impacts broadly to include potential impacts over \$1 million/ year. The impacts can be operational, financial, or strategic. The quantifiable indicator is "dollars of actual or potential impact." The company purposely defined it broadly in our CDP response to include many different types of impacts and to track existing and potential risks and opportunities from climate change in a more comprehensive manner.

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered Direct operations

Upstream Downstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment More than once a year

Time horizon(s) covered

Short-term Medium-term Long-term

Description of process

The company uses its Enterprise Risk Management (ERM) process to identify, understand, and appropriately manage the risks of its business. It is led by the Corporate Finance organization and spearheaded by Internal Audit, which reports up to Finance. ERM is a year-round continuous process with an annual cycle for structured reviews, discussions, and decision making. Each Business Unit and Corporate Functions identifies their top business and compliance risks using various methods and tools. The risks can be strategic, operational, financial, reputational, or other types of business risks. Senior level meetings are held with each Business involving the Corporate and Business CFOs, General Counsels, and Business Presidents. The top risks are then annually compiled and briefed to the Audit Committee of the Board of Directors, as well as the full Board. Each risk is assigned a Board Committee for oversight and management of the risk. One key process supporting ERM and the identification and management of physical climate-related risks is Raytheon Technologies Business Resilience & Crisis Management (BRCM) program. It contains requirements and processes to prepare for, respond to, and recover from a wide range of risks and threats, including natural events caused by climate change. The BRCM program is run by the VP, Chief Security Officer, who reports to the Corporate VP of Operations and Supply Chain. Program components are: a) Threat and Vulnerability assessments (TVA) - Each site conducts a TVA to identity, assess, and manage different types of site-specific risks, including acute and chronic physical risks associated with climate change. The TVAs include an assessment of the probability, severity, and the ease of recovery from an event. Sites must perform a TVA at least once every 2 years using approved tools and methodologies. b) Business Impact Analyses (BIAs) are conducted at the Company, Business, and site level to determine and assess the potential effects of an event/threat to cause an interruption to critical processes (such as facility operation, product deliveries to customers, connectivity, and supply chain). The BIAs are performed every 3 years and reviewed annually. c) Each Business and site must maintain an Incident Response Plan. The plans must address all the potential risks identified in their TVAs throughout the value stream. The plans must be reviewed and updated as needed on an annual basis. d) Businesses, functions and sites also maintain Continuity and Recovery plans to support critical business processes. The plans document the resources and processes that are needed to restore critical business processes. Sites with higher risk scores from the TVA must have capabilities to respond and manage the risk commensurate with the level and type of risks. The BRCM program is implemented through a series of teams at various levels of the company who continually identify, assess, mitigate, and respond to risks. At the Corporate level, the Crisis Management Team is comprised of RTX senior leadership team members. In addition to the above, Internal Audit incorporates these risks into its annual risk assessment process and periodically audits specific risks based on prioritization. Case study of physical risk - The BRCM process has been useful at identifying, assessing, and helping to prepare and respond to hurricane threats and vulnerabilities in several areas where the company has locations, for example, Florida and Puerto Rico. The process identified specific sites that are more vulnerable to severe weather, have higher value assets, and/or supply other RTX sites with important components (higher dependencies). In addition, specific mitigation steps and facility upgrade recommendations were generated and implemented by the process. Another key process supporting ERM that is used to identity, assess, and manage climate-related risks and opportunities -- particularly transitional or market risks due to climate change -- is the company's well-defined long-range strategic planning process. Each Business prepares a long-range strategic plan covering a 5-year period. They are developed with inputs from many functional areas and are the central mechanism for setting Business level operational, technology, R&D investment, and funding priorities. The plans are based on extensive research and analysis on the targeted markets, changes in customer needs and priorities, customer procurement, changes in public policies. technology advances, and competitor assessments. They are briefed to the Board of Directors and updated annually. The company's "Technology Roadmaps" for new and innovative technologies augments and supports the Business's long-range plans and ERM process. The roadmaps are created for selected technologies that are deemed high priority for the company and our customers or have been identified as important to multiple Business Units. One example of a Technology Roadmap is for hybrid electric propulsion systems. The Roadmaps are also used to prioritize R&D investment. The company's R&D funding utilizes a defined, gated review process to determine which technologies get funding and at what level. Case study of transitional risk / opportunity - The strategic planning process and Technology roadmaps described above helped Raytheon Technologies identify and assess products and services that support a sustainable aviation industry. For Raytheon Technologies this includes continued research and innovation in the many areas including: improved engine performance with better fuel economy, the development of hybrid electric propulsion systems. engines that can burn cleaner alternative fuels such as sustainable aviation fuels and hydrogen, lighter weight components and structures on aircraft, and optimizing flight trajectories which reduce fuel burn

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevan <u>ce</u>	Please explain
	&	
Current regulation	inclusion Relevant, always included	Current climate-related regulations are included in ongoing reviews by Business Unit programs, Government Relations, Legal, and EH&S. They are relevant because they can impact costs and operational flexibility. Example of risk type: Examples of regulations that are monitored and reviewed include: The EU Emissions Trading Scheme, which impact's the company's aircraft flying to the EU, the EPA Mandatory Greenhouse Gas Reporting Rule for those facilities that trip the reporting levels, the New England Regional Greenhouse Gas Emissions Initiative (RGGI) which is a cap and trade program that covers one of our sites that has co-generation operations, UK's Streamlined Energy and Carbon Reporting (SECR) framework, and U.S. EPA's regulation of GHG emissions from aircraft.
Emerging regulation	Relevant, always included	Raytheon Technologies tracks and monitors proposed climate-related regulation, laws, and other emerging policies that might impact operations or markets that we engage in. The regulations could impose added operational costs or required changes in our manufacturing. One example is potential regulations proposed by the U.S. and EU regulators for new jet aircraft engine emissions, which potentially could have an impact on our Pratt & Whitney jet engines and our customer use of those products. Another example is greenhouse gas cap and trade regulations that have been proposed in the past that would cover several of our larger facilities. A third example is that we are evaluating various proposed energy and/ or carbon tax schemes because of their potential impact to the company. Multiple functional groups assist in the tracking of proposed climate-related requirements including Government Relations, Program Offices, Strategy organizations, and EH&S. Examples of risk type: Examples of emerging regulations that are being tracked and considered include: 1) European Green Deal and goal to reduce GHGs by 90% by 2050, 2) EU / UK's Sustainable and Smart Mobility Strategy, 3) the U.S. Sustainable Aviation Fuel and Blender's Tax Credit proposal, 4) demand suppression regulations and policies to reduce air travel (e.g., France / EU), 5) UK's partial inclusion of aviation emissions in its net zero by 2050 target, 6) EU Carbon Border Adjustment mechanism, and 7) U.S. EPA's HFC emission phase out from air conditioners and refrigerants.
Technology	Relevant, always included	As at technology company, where technology is paramount to the company's products and success, Raytheon Technologies always includes technology parameters in its risk assessments and strategic planning processes. The commercial aviation's drive for a more sustainable industry has required significant investment and investigation of new technologies, alternative power sources, new materials and airframe structures, and different fuels. The costs of R&D investment add to the company's operating costs. The development of new and superior technologies, and to be first in market implementation, is an important business goal. Examples of risk type: Examples of technologies that are being tracked and investigated include: 1) Hybrid electric propulsion systems that can complement fuel-powered engines, 2) Novel high temperature materials, advanced coatings and cooling strategies that will enable greater engine efficiencies, 3) Engines that can burn cleaner alternative fuels, including hydrogen and ammonia, 4) More connected solutions for aircraft (real time data / predictive technologies) to optimize routes, 5) New, advanced structures and materials that reduce aircraft weight for greater fuel efficiency, and 6) new airframe structures.
Legal	Relevant, always included	Raytheon Technologies always considers legal risks in its risk assessment. This includes current regulations, laws, or other policies, as well as emerging regulations, laws, or other policies Risks can drive up costs and impact operations. This is particularly evident with the widespread global growth of climate related regulations and governmental policies. Legal requirements of our customers and contract requirements are also factored in. We assess legal risks through partnership with Corporate and Business-level legal departments, as well as integration into RTX's site-specific Threat and Vulnerability Assessment process. Examples of risk type: Examples of legal requirements we consider include: 1) the EU Emissions Trading Scheme, 2) U.S. EPA Mandatory Greenhouse Gas Reporting Rule, 3) New England Regional Greenhouse Gas Emissions Initiative (RGGI), 4) UK's Streamlined Energy and Carbon Reporting (SECR) framework, 5) US EPA's regulation of GHG emissions from aircraft, 6) Customers' Supplier Code of Conduct requirements, and other legal requirement contained in existing contracts with our customers, and 7) the Biden Administration's GHG reduction policies and proposed regulations to support is target to reduce U.S. GHG emissions by 50% by 2030.
Market	Relevant, always included	Raytheon Technologies Corporate and Business Unit leaders are continuously monitoring and evaluating the market sectors that they operate in to determine changes in customer demands and priorities. This process is incorporated in the company's strategic long-range planning process, and key to the company's business strategy. Significant research and analyses are conducted on all our targeted markets to assess trends, customer changes, and competitor capabilities and assessments. Climate change has created new and expanded markets for low or no carbon emission products and services, sustainable aviation technologies, and climate adaptation products and services. Examples of risk type: Example of changing and new markets being considered include: 1) electric engine aircraft for short-range aircraft, helicopter, and single aisle applications, 2) hybrid electric aircraft market, 3) emerging urban mobility market including drones for deliveries and new modes of people transport, 4) increased markets for climate adaptation products and services such as Raytheon Intelligence & Space's (RI&S's) weather sensing and analysis capabilities (see C2.4, Opportunity 2).
Reputation	Relevant, always included	Raytheon Technologies always includes reputational factors in its risk assessment since reputation can help or harm the company brand. Damage to reputation could also be generated if the company did not have a robust sustainability program, was not committed to making GHG emission reductions, or did not comply with climate-related regulations. Examples of risk types being considered are environmental / sustainability reputation, and Corporate social responsibility reputation. These two factors are important to Raytheon Technologies overall reputation. Numerous external sustainability rankings and ratings score Raytheon Technologies performance and standing, and Raytheon Technologies monitors those. Raytheon Technologies has received numerous awards and recognition over the last 2 decades for its accomplishments. Examples include awards from EPA, The Climate Registry and the Center for Climate and Energy Solutions (C2ES) for setting and achieving aggressive GHG reduction goals. Most recently, RTX received the U.S. EPA ENERGY STAR Partner of the Year Sustainable aviation.
Acute physical	Relevant, always included	Acute physical risks are included in the company's risk assessment. These risks are covered in the Business Resilience & Crisis Management program. Each site conducts a Threat and Vulnerability assessment every 2 years, which includes physical risks. The impacts of acute physical risks go well beyond the physical boundaries of our facilities and include our employees, supply chain, distribution networks, and customers. Examples of risk type: Examples of acute physical risk types considered are the increase in the number and severity of severe weather events, like hurricanes, tornadoes, flooding, snow and ice storms, fires, heat waves, droughts, and mud slides at company's facilities around the world.
Chronic physical	Relevant, sometimes included	The risks associated with longer term chronic physical changes in weather patterns, sea level rise, temperature increases, drought, and other climate change impacts are sometimes considered by Raytheon Technologies, but not as regularly as acute physical risks. These risks are factored into the company's Business Resilience & Crisis Management (BRCM) process as individual sites develop Threat and Vulnerability Assessments. Examples of risk type: Examples of chronic physical risk types considered include changing weather patterns, sea level rise resulting in more frequent flooding, temperature increases and heat waves, and drought. An example of a chronic physical change that the company faces at several of its facilities is the increase in the number of days that are over 90 degrees in temperature (e.g., at its Arizona facilities). Such extreme temperature increases the demand for electricity for air conditioning and puts stress on the local electricity power grid, which may result in power outages and cause business interruptions. It could also lead to a reduction in employee productivity for employees that are not in air conditioned spaces if the temperature forces employees to slow down their activities or take breaks.

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business? Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Emerging regulation

Carbon pricing mechanisms

Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification <Not Applicable>

Company-specific description

Governmental policies and regulations that put a price on carbon are considered a likely outcome as countries try to adhere to their greenhouse gas reduction targets pursuant to the Paris Climate Accords. This is particularly true in the shorter term in the European Union where Raytheon Technologies has numerous facilities (e.g., UK, France, Poland, Germany, Italy, and the Netherlands). Several carbon pricing schemes are explicitly identified in the International Energy Agency's (IEA's) Stated Policies climate scenario (STEPS) (e.g., EU carbon pricing with an increased minimum price in accordance with the 2030 Climate and Energy Framework, and Netherland industry carbon tax for major emissions sources to complement the EU ETS). Carbon pricing is also likely to be mandated to achieve many countries' Paris Agreement commitments (Nationally Determined Contributions) of net zero by 2050 or before, like the UK's climate targets contained in the UK Sixth Carbon Budget target. Some form of carbon pricing may be needed to achieve the U.S.'s target of 50% reduction of GHGs by 2030.

Time horizon

Medium-term

Likelihood Likely

Magnitude of impact

Medium

Are you able to provide a potential financial impact figure? Yes, an estimated range

Potential financial impact figure (currency) <Not Applicable>

Potential financial impact figure – minimum (currency) 7200000

Potential financial impact figure – maximum (currency) 14400000

Explanation of financial impact figure

A review of carbon costs in countries and regions around the world demonstrates an extremely wide range. Raytheon Technologies assumed an average cost of \$20/mtCO2e as a potential regulatory price on carbon emissions. In 2019, our scope 1 and scope 2 GHG emissions were approximately 1.8 million mtCO2e. 2020 emissions were not used in the calculation due to the influence of COVID on emissions levels. It is assumed that a range of between 20 - 40% of our total scope 1 and 2 emissions would be subject to this carbon pricing within the next 10 years. The potential financial impact was calculated as follows: \$20/mtCO2e x 1.8M emissions = \$36M x 40% of emissions = \$14.4M).

Cost of response to risk

Description of response and explanation of cost calculation

The primary methods for managing this risk are to continue to implement initiatives and programs to reduce the company's energy consumption, increase energy efficiency of its buildings and manufacturing equipment, reduce greenhouse gas emissions, and increase the use of renewable energy in order to stay under regulatory applicability threshold levels. This is driven by the company's GHG reduction goal, and a companion goal to implement 11 energy/GHG best management practices throughout the company. These projects include investing in building and equipment upgrades, and pursuing changes in operations and manufacturing processes. Case Studies: 1) A case study of how Raytheon Technologies is implementing energy projects in order to manage this risk includes its robust energy management program, which in 2020 resulted in the completion of numerous LED lighting upgrades at many of our sites, replacing several chillers, compressed air optimization, and implementation of numerous building HVAC control enhancements to reduce energy consumption. In addition, a new Corporate Policy on Energy and Greenhouse Gas Emission Reductions was published in 2020. 2) Another method for managing this risk is investigating the feasibility of renewable energy projects, both on-site and off-site, such as off-site wind and on-site solar. Energy generated with renewable resources would not be covered by most carbon pricing schemes or climate regulations. In the last several years, RTX has investigated numerous renewable projects. In 2020, Raytheon Technologies launched 6 new renewable electricity projects in Texas, Maine, Virginia, and Singapore. 2 of the projects were on-site projects, and 4 were off-site renewable projects. Raytheon Technologies maintains a centralize database of completed energy/GHG projects, along with costs and estimated project savings. The \$10 M number was pulled from the database and represents the average annual investment cost.

Comment

Identifier Risk 2

Where in the value chain does the risk driver occur? Direct operations

Risk type & Primary climate-related risk driver

Acute physical

Increased severity and frequency of extreme weather events such as cyclones and floods

Primary potential financial impact

Increased indirect (operating) costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

Company-specific description

Raytheon Technologies (RTX) has approximately 550 significant properties in approximately 30 countries, with approximately 80 million square feet of productive space. Approximately 55% of these properties are leased and 45% are owned. Approximately 70% of our significant properties are in the U.S. Some of the properties are located in areas historically impacted by extreme weather events, such as hurricanes, tornadoes, severe lighting storms, floods, heat waves, and drought conditions that cause forest fires. For example, RTX has facilities in "hurricane" alley in the U.S., including FL, MS and TX. It has several facilities in the mid-west and central U.S. that are prone to tornadoes. Severe weather events have the potential to cause several impacts to the company: business interruption, property damage, damage to products and other assets, the welfare of RTX's employees and their property, and damage to suppliers', subcontractors' and service providers' property/assets. Potential financial impacts will be greater at sites with higher asset values and those with more interdependencies with other company sites (e.g., they supply parts or components to other sites). The number and severity of severe weather events are forecasted to increase over time due to the impacts of climate change. An example of the impacts of physical risks to the company was the powerful 2020 derecho storm that swept across the Mid-Western U.S. and caused significant damage to one of our sites in Cedar Rapids, Iowa. A derecho is a fast-moving, violent wind event associated with a thunderstorm complex. This storm brought winds gusting to more than 70 mph for almost 1 hour to a large region and was one of the most destructive thunderstorm clusters on record in terms of damage costs, which NOAA estimated at \$7.5 billion. The RTX facility sustained substantial property damage and related business interruptions. Another example of this potential risk occurred when Hurricane Maria struck Puerto Rico in 2017 and took a key facility off-line for an extended period. The site was without grid supplied power for over two months, fuel for backup generators and employees' homes was scarce, internet and other telecommunications on the island were non-existent, road transport and public service were severely curtailed, and many of the site's essential suppliers were also dealing with similar disruptions to their business operations and were unable to meet our site's needs.

Time horizon

Short-term

Likelihood Virtually certain

Magnitude of impact

Are you able to provide a potential financial impact figure? Yes, an estimated range

Potential financial impact figure (currency) <Not Applicable>

Potential financial impact figure – minimum (currency) 300000

Potential financial impact figure – maximum (currency) 5000000

Explanation of financial impact figure

The range of potential financial impacts in any given year varies significantly and is estimated between 300,000 - 55 million. It is impossible to predict the number and severity of weather events that would impact our facilities. Therefore, the financial impact range is highly speculative. The range was calculated based on estimated potential loss expectancies (including business interruptions) and an assumed number and severity of weather events impacting the company. On the low end, it is assumed that the company is impacted by 1 weather event leading to relatively small impacts (300,000). On the high end of the range, it is assumed that Raytheon Technologies is impacted by 2 events that cause significant impact to the facilities and the company (assumed 2.5M) per storm x = 55M). The probability of incurring the high estimate value is very low. Severe weather events can damage property, damage assets within the facility, cause business interruptions at the site, and lead to second order business disruptions if there are key interdependencies with other sites and product lines. Damage will be higher at larger sites, those with higher asset values, sites that have more interconnections with other sites (i.e., they supply parts or components to other company sites), and sites with greater natural hazards. There are additional financial implications to our business operations if one or more of our supplier's facilities was damaged or otherwise impacted, especially if it is a critical or sole-source supplier.

Cost of response to risk

780000

Description of response and explanation of cost calculation

The cost to respond to this risk was based on data from Raytheon Technologies property insurer for legacy Raytheon facilities. It estimated that legacy Raytheon spent \$2.6 M over a 10-year period to upgrade its facilities in response to their recommendations relating to natural hazards. That translates to \$260K/yr average. We extrapolated the number to legacy UTC, which has almost double the sites. The calculation is as follows: \$2.6M / 10 yr = \$260K/yr + \$520K/yr (legacy UTC sites) = \$780K / year Case Studies: The company manages this risk in several different ways: 1) We work with our property insurance company to conduct Facility Hazard Audits of our facilities. The insurance company assesses risks and provides recommendations to enhance facility resiliency. In addition, sites have capital expenditure budgets that include many different building envelope improvements. We do not currently have 1 central repository of all the facility improvements. Therefore, the estimated costs above is likely to be underestimated. 2) We maintain a strong Business Resiliency & Crisis Management (BRCM) program (as reported in C2.2) which requires sites to conduct Threat and Vulnerability assessments, conduct Business Impact Analyses, and develop Continuity and Recovery plans to prepare for events. 3) We maintain property and business interruption insurance which protects the company against significant losses. One recent example of how the company is managing this type of risk is a collaboration with the University of California Santa Barbara's Bren School of Environmental Science & Management on a project that assessed physical climate risks to the company. Rl&S's EH&S organization led the project with UCSB graduate students and Faculty. The project quantified physical climate risks for 21 locations posed by 5 climate hazards. It also examined risks over 3 time horizons: 2025, 2030, and 2040 under 2 different climate scenarios. Climate risk was quantified through hazard-specific risk scores and estimated financial costs for e

Comment

Identifie

Risk 3

Where in the value chain does the risk driver occur? Downstream

Risk type & Primary climate-related risk driver

Technology

Transitioning to lower emissions technology

Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification <Not Applicable>

Company-specific description

The Chief Technology Officers of 7 of the world's leading aviation manufacturers, including Pratt & Whitney (P&W), jointly signed a statement at the 2019 Paris Air Show, and re-affirmed the commitment in 2020 to demonstrate how they are collaborating to drive the sustainability of aviation and reach the aviation industry CO2 reduction target. The group identified 3 key elements to sustainable aviation: 1) Continuing to develop aircraft and engine design and technology in a relentless pursuit of improvements in fuel efficiency and CO2 emissions, 2) Supporting the commercialization of sustainable, alternate aviation fuels, and 3) Developing radically new aircraft and propulsion technology and accelerating technologies that will enable the "third generation" of aviation. Some of the areas RTX is focused on include: 1) Engine performance with better fuel economy 2) Hybrid electric propulsion systems that can complement fuel-powered engines 3) Engines that can burn cleaner alternative fuels

4) More connected solutions for aircraft (real time data / predictive technologies) to optimize routes 5) New, advanced structures and materials that reduce aircraft weight for greater fuel efficiency There will be strong competition among companies to develop and roll out new, workable technologies and/or designs that support the aviation industry's sustainability goals. Companies will seek to be first to market with new technologies. P&W's introduction of the next generation GTF engine architecture in 2016 is a prime example. Companies that are able to innovate quicker and more cost-efficiently will gain competitive advantage and market share. Many of the new technologies will benefit from support and funding from governmental agencies and customers. There is a risk if funding and support are not provided at appropriate levels. Additional types of risk include: 1) Potential decrease in demand for previously certified RTX aircraft engines / aircraft products due to competing technologies, or requirements that RTX's engines be retrofitted or upgraded 2) Future engine CO2 or fuel efficiency rules can introduce additional market dynamics 3) Change in climate regulation and airworthiness requirements may lead to the obsolesce of components or equipment resulting in reduced aftermarket sales, coupled with new equipment sales opportunities 4) Future climate related taxes such as carbon border adjustment mechanisms may impact the economics of fleet renewal

Time horizon Medium-term

Likelihood

Very likely

Magnitude of impact Medium-high

Are you able to provide a potential financial impact figure? No, we do not have this figure

Potential financial impact figure (currency) <Not Applicable>

Potential financial impact figure – minimum (currency) <Not Applicable>

Potential financial impact figure – maximum (currency) <Not Applicable>

Explanation of financial impact figure

The potential financial impact of transitioning to lower emissions technology cannot be reasonably estimated due to many uncontrollable variables. Raytheon Technologies has 2 businesses with significant focus on the commercial aviation market: Pratt & Whitney, and Collins Aerospace. Their 2020 adjusted revenues were \$17.2 billion, and \$19.4 billion respectively, with revenues significantly lower than 2019 primarily due to the economic environment principally driven by the COVID-19 pandemic. Jet engines and aircraft components produced by Raytheon Technologies are used by customers around the world.

Cost of response to risk

Description of response and explanation of cost calculation

We are unable to reasonably estimate the cost of responding to this risk due to too many variables such as technology advancements, R&D funding, customer requirements, regulatory landscape, market competitors, governmental incentives for new technologies, etc. Case Studies: Two of the key strategies Raytheon Technologies uses to respond to this potential risk are disciplined investment in advanced technologies, and partnerships with governmental agencies, customers, universities, and industry groups. In 2020, RTX spent \$6.7 B in Research and Development. A large share of that budget was for innovative technologies supporting commercial aviation. Of this investment, \$2.6 B was company-funded R&D expense and \$4.1 B was customer- funded R&D. A second important strategy Raytheon Technologies utilizes to respond to this risk is the continual engagement with our customers, trade associations, regulating bodies, and other organizations to identify customer needs, monitor technology developments, and integrate this information into our business strategies. See C12.3 for a description of some of the key associations and organizations we engage with.

Comment

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business? Yes

C2.4a

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Opp1

Where in the value chain does the opportunity occur? Downstream

Opportunity type Products and services

Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Climate change and the aviation industry's aggressive GHG goals are driving the industry to innovate. RTX is well positioned to be a leader in sustainable aviation technologies and capture new business opportunities including: 1) more fuel-efficient engines, 2) hybrid electric propulsion systems, 3) use of sustainable aviation fuels, 4) hydrogen-powered engines, 5) connectivity applications creating more use of real time data and predictive technologies to optimize flight routes, and 5) new, advanced structures and materials that reduce aircraft weight for greater fuel efficiency. Other potential new product offerings are upgrade kits, SAF conversion packages, carbon offsetting services, and mission optimized control software. We've already seen examples of these opportunities by the sales of the Geared Turbofan (GTF) engine, which delivers 16% lower fuel consumption and carbon emissions compared to previous-generation engines. Hybrid electric technologies hold great promise to deliver the fuel

economy needed for the next large commercial engine program. We are aiming to increase the fuel efficiency of gas turbine engines by feeding them supplemental power from electric motors and operating both in smart, optimized combinations through different parts of the flight envelope. Fully hybrid electric engine aircraft are being examined for short-range aircraft, helicopter, and single aisle applications. SAFs have a critical role in meeting our industry's GHG reduction goals. All of our current engines accept certified SAFs and are used in commercial service daily. We have been testing SAFs at up to 100% for more than 15 years and supporting the development of global certification standards. Limited production of SAF remains a concern. Beyond propulsion, aircraft system benefits are delivered by Collins Aerospace, which develops a full portfolio of equipment, products and solutions that enable customers to reduce GHG emissions on their products. Examples include fuel gauging technologies that enable the use of a large variety of SAFs, electrically driven cabin air compression that reduces engine bleed requirements and thus improves engine efficiency, lower weight components throughout the aircraft that improve fuel economy, compact, electromechanical actuators (EMA) enabling more efficient wing design, and advanced structures such as thermoplastics and composites. The demand for these types of products is likely to increase with climate change.

Time horizon Medium-term

Likelihood

Virtually certain

Magnitude of impact Medium-high

Are you able to provide a potential financial impact figure? No, we do not have this figure

Potential financial impact figure (currency) <Not Applicable>

Potential financial impact figure – minimum (currency) <Not Applicable>

Potential financial impact figure – maximum (currency) <Not Applicable>

Explanation of financial impact figure

It is not yet possible to assess the potential financial opportunities created by climate change and the transition to a sustainable aviation industry due to too many unknown parameters such as speed of technology developments, level of R&D funding and governmental support, regulatory schemes, market competition, customer demand, etc. Raytheon Technologies has 2 businesses with significant focus on the commercial aviation market: Pratt & Whitney, and Collins Aerospace. Their 2020 adjusted revenues were \$17.2 billion, and \$19.4 billion respectively, with revenues significantly lower than 2019 primarily due to the economic environment principally driven by the COVID-19 pandemic. Jet engines and aircraft components produced by Raytheon Technologies are used by customers around the world.

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

We are unable to reasonably estimate the cost of realizing this opportunity due to too many variables such as speed of technology advancements, R&D funding levels, customer requirements, regulatory landscape, market competitors, governmental incentives for new technologies, etc. Case Studies: A key strategy Raytheon Technologies is pursuing to realize these opportunities is disciplined investment in advanced technologies. In 2020, Raytheon Technologies spent \$6.7 B in Research and Development. A large share of that budget was for innovative technologies supporting commercial aviation. Of this investment, \$2.6 B was company-funded R&D expense and \$4.1 B was customer-funded R&D. The company has "Technology Roadmaps" for technologies that are deemed high priority for the company and its customers or have been identified as important to multiple Businesses over multiple product platforms. These roadmaps identify key steps needed to advance technologies get funding and at what level. Another example of what the company is doing to realize these potential opportunities is collaborating with other stakeholders to investigate key technologies. In one recent example: Pratt & Whitney was awarded a contract from NASA to collaborate with Penn State University, Georgia Tech and Howard University on the design of a gas turbine engine that could power hybrid electric single-aisle, medium- and short-haul aircraft. Another key strategy is to actively engage with our customers, trade associations, universities, and other organizations to identify and understand future needs, requirements, and opportunities. See C12.3 for a description of the numerous associations and organizations Raytheon Technologies is engaged with on climate-related topics.

Comment

Pratt & Whitney is the manufacturer of one of the world's most fuel-efficient jet engines, is committed to helping reduce the impact of air travel on climate change by providing customers with the most environmentally responsible products and services. To do this, we target sustainable innovation across our value chain. Since entering into service in early 2016, the GTF engine family has delivered on its promise to reduce fuel burn by 16% and to significantly reduce regulated emissions and noise footprint. Since that time, customers have saved an estimated 500 million gallons of fuel worth approximately \$1 billion and avoided 5 million metric tons of carbon dioxide emissions, which is equivalent to the energy use of approximately 602,000 homes in the U.S. for 1 year. Pratt & Whitney has industry-leading expertise in the evaluation and approval of sustainable aviation fuels (SAF) through its participation in International committees. More than 300,000 commercial flights have used SAF blends through 2020. Today, all its jet engine types can operate efficiently with these approved SAF blends. Collins Aerospace is a leader in technologically advanced and intelligent solutions for the global aerospace and defense industry. They innovate for - and with – their customers to drive more sustainable solutions that solve unique business challenges and pave a better path for the industry and our planet. Collins Aerospace is amplifying and accelerating its efforts to drive more sustainable solutions and create more environmentally responsible technologies. Four focus areas are: 1) Connected Ecosystem – Developing a range of technologies that use advanced data, analytics and artificial intelligence to improve flight efficiency and enable fuel savings. 2) Alternative Power Sources – Investing in breakthrough technologies that help reduce fuel burn and the resulting emissions through a more electric aircraft and hybrid-electric propulsion. 3) Advanced Structures - Working to reduce aircraft weight for greater fuel efficiency t

Identifier

Downstream

Opp2

Where in the value chain does the opportunity occur?

Opportunity type

Products and services

Primary climate-related opportunity driver

Development of climate adaptation, resilience and insurance risk solutions

Primary potential financial impact

Increased revenues resulting from increased demand for products and services

Company-specific description

Physical impacts of climate change (e.g., hurricanes, tornadoes, severe storms, rising sea level, rising temperatures, etc.) may present potential business opportunities for both existing and new Raytheon Technologies products and services as a result of increased demand for climate-adaptation solutions. The company has several types of products and services related to weather and climate instrumentation and analysis that are likely to increase in demand including: 1) EVI-5 GLIMR (Geosynchronous Littoral Imaging and Monitoring Radiometer): A new NASA mission utilizes this instrument which is designed to closely monitor the health of our oceans and assess risks for coastal communities to protect both our environment and our economy. It will provide unique observations of ocean biology, chemistry, and ecology in the Gulf of Mexico, portions of the southeast U.S. coastline, and the Amazon River plume (where it enters the Atlantic). 2) MODIS (Moderate Resolution Imaging Spectroradiometer): This system is flying on NASA Earth Observation System (EOS) satellites Aqua and Terra, and helps scientists determine the anount of water vapor in a column of the atmosphere and the vertical distribution of temperature and water vapor—measurements crucial to understanding Earth's climate system. 3) VIIRS (Visible Infrared Imaging Radiometer Suite): Part of the Joint Polar Satellite System (JPSS) for NASA and NOAA. Using VIIRS data, scientists can measure cloud and atmospheric particle properties, ocean color, sea and land surface temperature, ice motion and temperature, fires, and the amount of sunlight reflected from the Earth's surface. There are two VIIRS on orbit with three additional VIIRS on order for continuity of observations. 4) TWICC (Theatre Weather Imagery and Cloud Characterization): TWICC is being built for the U.S. Space Force to replace the aging DoD Meteorological Satellite Program satellites. It will provide critical environmental sensing to the warfighting community and shared continuity of observations to NAS

Time horizon

Short-term

Likelihood Very likely

Magnitude of impact Medium

Are you able to provide a potential financial impact figure? No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency) <Not Applicable>

Potential financial impact figure – maximum (currency) <Not Applicable>

Explanation of financial impact figure

It is not yet possible to assess the potential financial impacts of this opportunities due to too many unknown parameters such as customer demand and expectations, level of R&D funding, market competition, etc. Raytheon Technologies has several different products, services, and expertise that may increase in demand due to climate change and as the need increases for improved data and analysis relating to climate data and weather forecasting. This is likely to lead to additional revenues. In addition, it is likely new programs will be developed by current and new customers. The potential financial impact (revenue) figure could be in the billions over the 10 -year period or so. There are current NASA and NOAA weather-related programs of this financial size.

Cost to realize opportunity

Strategy to realize opportunity and explanation of cost calculation

We are unable to reasonably estimate the cost of realizing this opportunity due to too many variables and unknowns such as customer requirements, technology advancements, market competitors, etc. Raytheon Technologies plans to continue investing research and development dollars to maintain its leadership in the science of this area. The company actively manages and maintains existing products and services and is continually looking for new ways and new markets in which to deploy them. We also evaluate methods to enhance the products to meet new customer demands. Case Study: A key strategy Raytheon Technologies is pursing to realize this potential opportunity is to engage and dialogue with our customers, governmental agencies, trade associations, military experts, universities, and think tank organizations on potential future needs and requirements of existing and future customers. Another strategy we pursue is to invest in research and development to continue to lead in the science in this field. That is a discriminating factor that is important to continue our leadership position in this area.

Comment

Identifier

Орр3

Where in the value chain does the opportunity occur? Direct operations

Opportunity type Resource efficiency

Primary climate-related opportunity driver Move to more efficient buildings

Primary potential financial impact Reduced indirect (operating) costs

Company-specific description

Increased resource efficiency is a potential climate-related opportunity which would reduce the company's utility costs, reduce operating costs and make it more competitive. Many new innovative building and manufacturing processes and equipment are being developed as a result of the focus on climate change. As the company seeks to minimize the financial impact of future energy and climate regulations, we are aggressively pursuing energy and GHG reduction measures. Many of these projects are energy conservation and energy efficiency projects, which ultimately lowers our energy bill and makes the company more resource efficient. These projects include implementing building upgrades, enhancing maintenance activities, installing energy efficient equipment and control systems, and installing onsite solar projects. One of Raytheon Technologies 2025 Sustainability goals is to implement energy best management practices at over 200 facilities in order to increase the energy efficiency of its buildings and reduce costs.

Time horizon Short-term

Likelihood Virtually certain

Magnitude of impact Low

Are you able to provide a potential financial impact figure? Yes, a single figure estimate

Potential financial impact figure (currency) 6900000

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency) <Not Applicable>

Explanation of financial impact figure

The \$6.9M / year financial impact number represents an estimate of potential energy savings as a result of our continued investment in energy efficient and GHG emissions reduction projects. The estimate is based on a historical average project savings to reduce a metric ton of CO2. The average unit savings was derived from a large energy/GHG project database spanning from 2006 – 2019. We multiplied the average unit savings by the total metric ton reduction needed to achieve the company's GHG goal between the 2019 – 2025 period, and then divided it by 6 to derive the annual savings.

Cost to realize opportunity

11600000

Strategy to realize opportunity and explanation of cost calculation

The \$11.6 M / year cost represents an estimate of potential costs associated with our continued investment in energy efficiency and GHG emissions reduction projects. The estimate is based on a historical average project cost to reduce a metric ton of CO2. The average unit cost was derived from a large energy/GHG project database spanning from 2006 – 2019. We multiplied the average unit cost by the total metric ton reduction needed to achieve the company's GHG goal between the 2019 – 2025 period, and then divided it by 6 to derive an annual cost. Increasing energy efficiency at our facilities will require capital and operating expenses. The costs are dependent on the size, type and number of energy projects that are implemented. Many of the less expensive projects, and those with a short payback period have already been implemented at many of our facilities, therefore investment cost may rise over time. However, this may be offset by increased costs of energy, resulting in higher savings from the investment. Case Studies: We address the risks in order to realize this opportunity in several different ways: 1) Our sites conduct periodic energy audits. Audit teams are comprised of in-house energy efficiency experts and/ or outside contractors. The audits are required by our Corporate Energy and Greenhouse Gas Management Policy. Projects and recommendations identified by the audits are then considered for funding and implementation. 2) We set a long-term goal to reduce GHG emissions by 10% by 2025. Each Business Unit has the same goal. The goal helps drive sites to continually identify, assess, and implement energy projects. 3) The company also has a formal sustainability goal to implement 11 energy/GHG best management practices at most sites by the end of 2025. These BMPs include establishing an energy/GHG team, identifying significant users, creating a plan to upgrade lighting to LED where practical, evaluating automated building management systems, and examining building systems such as HVAC, boilers, insulation,

Comment

C3. Business Strategy

C3.1

(C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning? Yes

C3.1b

(C3.1b) Does your organization intend to publish a low-carbon transition plan in the next two years?

	publish a low- carbon transition plan	Intention to include the transition plan as a scheduled resolution item at Annual General Meetings (AGMs)	Comment
Row 1	No, we do not intend to publish a low-carbon transition plan in the next two years	<not applicable=""></not>	Raytheon Technologies supports the aviation industry's goal to reduce aviation greenhouse gas emissions by 50% by 2050, relative to 2005 levels. We are actively working on technologies and processes to support this target. In addition, we continue to pursue decarbonization strategies to reduce GHG emissions from our own facilities and to develop plans and strategies to do so. The 2 main strategies we are using are reducing our energy consumption and switching to renewable electricity where feasible. We do not believe we will be ready to publish a low-carbon transition plan within the next 2 years that meets the requirements laid out by CDP's guidance document.

C3.2

(C3.2) Does your organization use climate-related scenario analysis to inform its strategy? Yes, qualitative and quantitative

C3.2a

(C3.2a) Provide details of your organization's use of climate-related scenario analysis.

Climate- related scenarios and models applied	Details
Other, please	Raytheon Technologies (RTX) selected these scenarios to examine current state, one that aligns with the Paris Agreement target, and one that aligns with a 1.5 degree C outcome. We chose IEA scenarios since we had used them previously and selected the 3 since they were all very recent and up to date. Inputs, assumptions & methods - The inputs and assumptions to the scenario are
specify	those outlined in the scenarios. We included applicable global energy transformation drivers from IEA's Net Zero by 2050 roadmap. In addition, RTX included in its analysis a number of relevant
(International	climate related drivers specific to the company's commercial aviation businesses. The potential impacts to RTX operations, suppliers and customers were examined for each of the scenario elements
Energy	Potential impacts were assessed as being low, medium or high. Time Horizons: 2030, 2040, and 2050. We included 3 time horizons to help understand impacts over time. 10- and 20- year horizons
Agency (IEA)	align with our medium and long term business horizons. 2050 was included since it is the key target date referenced in the Paris Agreement. Areas of the organization: We included all of RTX globally
Stated	in the analysis but focused more on our commercial aviation businesses. Summary of results: Scenario elements in the transport and industry sectors have the highest potential impact to the
Policies	company. Of the 3 scenarios, the NZE2050 has the greatest potential impact. Three key policy drivers with potential high impacts are: 1) Level of aircraft travel – Policies that depress the demand or
Scenario	limit aircraft travel, such as regulations, shift travel to other modes of transportation, or from environmental concerns from consumers. A reduction in aircraft travel would potentially negatively impact
(STEPS),	RTX, its customers, and suppliers. 2) Sustainable Aviation Fuel (SAF) – Policies that increase the supply and use of SAFs. Significantly scaling up the use of SAFs is likely the single largest
IEA	opportunity to meet the aviation industry's emission reduction goal but will be a significant challenge. The impact to RTX would likely be very favorable. RTX's engines are already designed to operate
Sustainable	using SAF. 3) New Technologies – The scenarios assume aviation emissions are reduced but vary as to how that is achieved. One method is through innovative technologies. The drive for new
	technologies could favorably impact RTX if it is able to innovate more quickly and cost efficiently than its competitors. Conversely, it could potentially negatively impact RTX if technology advances
Scenario	are slower than planned, more costly, or if competitors get to market first. How results have informed our business objectives and strategy: Representatives from RTX's businesses and strategy
(SDS), IEA	groups were involved, and results were shared in the organizations. The analysis provided a valuable survey of current and potential future climate policies and fostered good dialogue on potential
Net Zero	impacts. The analysis identified many of the same risks and opportunities that had been previously identified through other means (e.g., strategic planning, market analysis, industry associations)
	and reinforced many of our earlier conclusions. In addition, it aligns with many of the findings set forth in ATAG's recent Waypoint 2050 report (September 2020) where they assessed 3 climate
2050 case	scenarios. Case study on how results have directly influenced your business objectives and strategy. Continued refinement of our Technology Roadmaps for sustainable aviation technologies, and
(NZE2050))	more investment in next-gen technologies such as electric, hybrid electric, and hydrogen-powered propulsion systems. We have won additional R&D contracts to investigate technologies and
	continue to look for ways to partner with governmental agencies, customers, or other public funding bodies. We are also increasing our work with industry associations to promote the expansion of
	SAF and develop a global SAF standard.

C3.3

(C3.3) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate- related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Climate related risks and opportunities related to our products/services (see C2.3a Risk 3, and C2.4a Opportunity 1) have influenced our product-related strategies. This is particularly evident in commercial aviation where climate change is driving innovation. This has led RTX to focus on many new technologies and processes. Examples include: 1) continued improved engine efficiency, 2) development of hybrid electric propulsion systems that can assist gas-powered engines, 3) engines that can burn cleaner alternative fuels such as sustainable aviation fuels (including 100% SAF) and hydrogen, 4) pursuing connectivity applications creating more connected solutions for aircraft that use real time data and predictive technologies to optimize flight routes and use less fuel, and 5) new, advanced structures and materials that will reduce aircraft weight for greater fuel efficiency, including composite materials. Time horizon: Near, medium, & long-term Case studies of substantial strategic decisions: 1) P&W is pursuing further fuel efficiency enhancements to the GTF engine. Areas being worked on include even greater propulsive efficiency derived from the geared architecture and enabling higher gas temperatures in the turbine section to enhance engine efficiency. This will require the use of novel high temperature materials, advanced coatings and cooling strategies. They are also investigating low carbon intensity fuels such as hydrogen and ammonia. 2) Collins Aerospace, as part of a unique, long-term collaboration with Airbus, Emirates Airlines, GE Aviation and Thales, in partnership with the Dubai Future Foundation, co-created Aviation X Lab to focus on technological innovations in aviation. 3) In 2019, Collins joined 23 other leaders in aerospace, research organizations and associations across Europe to sign the Joint Declaration of European Aviation Research Stakeholders related to Clean Aviation in the Horizon Europe research and innovation funding program. The program aims to lead the way towards the de-carbonizati
Supply chain and/or value chain	Yes	Suppliers are essential to our business, and to our competitive advantage in the industry. Raytheon Technologies has encountered supply chain disruptions, including logistic suppliers, due to extreme weather events, such as Hurricane Maria in Puerto Rico, forest fires in California, ice storms in Texas, and heat waves. These weather events not only impact our facilities, but also those of our suppliers. These weather events have led to delays in receiving parts and materials used at some of our manufacturing facilities, and in a small number of incidents resulted in having to obtain additional suppliers or maintain extra inventory to mitigate potential future disruptions. More attention is being paid to supplier readiness and resiliency. Raytheon Technologies has a robust supply chain management program. It seeks to ensure that there can be no single point failures in the supply chain by ensuring more than one supplier for all critical components that are isolated both geographically and geopolitically. Time horizon: Near-term Case study of substantial strategic decision: Raytheon Technologies published a new Corporate Policy on Business Resilience & Crisis Management in 2020. Risks to suppliers and logistical channels are one of the types of potential incidents that are explicitly identified in the policy that sites and Businesses must address in their Threat and Vulnerability Assessments and Continuity and Recovery Plans. Sites with a higher risk scores and/or more supplier dependencies are required to have more robust assessments and recovery plans.
Investment in R&D	Yes	Climate-related risks and opportunities associated with transitioning to lower emission technologies (as reported in C2.3a Risk 3, and C2.4a Opportunity 1) have influenced the company's R&D investment decisions. We are investing more in sustainable aviation technologies. The company has developed Technology Roadmaps (see C2.2) for many different technology areas that have been identified as high priority for the company and our customers. Many relate to technologies that are critical in transitioning to a sustainable aviation industry, such as hybrid electric propulsion and alternative fuel systems. Some of the technologies RTX is focused on include: 1) continued improved engine performance with better fuel economy, 2) the development of hybrid electric propulsion systems that can assist gas-powered engines, 3) engines that can burn cleaner alternative fuels such as sustainable aviation fuels and hydrogen, 4) pursuing connectivity applications creating more connected solutions for aircraft that use real time data and predictive technologies. They are working to design and test a 1-megawatt motor, motor controller, and battery system—expected to be the aerospace invested heavily in R&D of hybrid-electric propulsion technologies. They are working to design of a state-of-the art electric systems lab called the GRID in their Rockford, Illinois facility. In the UK, they are working with the University of Nottingham on a 500-kilowatt motor or Hybrid Air Vehicles' Airland hybrid ariship. 2) With the support of the French government and local communities, and in collaboration with local industry, Collins Propeller Systems in Figeac, France, invested \$32M to create a new development to design the next generation of propeller systems for turboprop engine-powered aircraft. Turboprop engines may be burning sustainable fuels or hybrid systems that us both fuel and electricity at different times.
Operations	Yes	Climate related risks and opportunities are influencing how we operate our facilities around the world. Raytheon Technologies (RTX) sites are influenced by the potential acute physical risks relating to climate change as severe weather events - hurricanes, tornadoes, fires, mudslides, flooding, severe snow / ice storms. (See C2.3 a, Risk 2). This has led to enhanced Threat and Vulnerability Assessments that are conducted at sites and which address physical hazards, as well as Continuity and Recovery planning. This has also led to facility investments to enhance asset management to better survive a severe storm event (e.g., roof and window enhancements in hurricane-prone areas, installation of backup power generators). Second, climate change has influenced the company to continue to reduce energy use and become more energy efficient in its buildings and processes in order to reduce energy out and become more energy efficient is a goal to reduce GHGs by 10% by 2025 from 2019 levels. The majority of our GHG emissions are from energy consumption, so energy reduction is a critical focus area. The second climate related goal is 100% implementation of a set of energy/GHG best management practices that the company defined by the end of 2025. Both of these goals will drive energy reductions and improved energy efficiencies.

C3.4

(C3.4) Describe where and how climate-related risks and opportunities have influenced your financial planning.

Financial planning elements that have been influenced	Description of influence
Row Revenues 1 Capital expenditures	Revenues: Raytheon Technologies (RTX) is working on sustainable aviation technologies and processes to meet customer needs and demands while positioning itself to increase revenues. This includes enhancements to the fuel efficiency of the CTF engine, more connected aircraft systems to optimize flight path and flight efficiency, hybrid electric propulsion systems, on board micro grids, next generation propeller systems. Nacelle Enhancement Program (NEP) which reduces aircraft weight, and the development of composite fuel pipes to replace heavier metal components. Time horizon: Near, medium, and long-term Case study of substantial strategic decision: PTat & Whitney's (P&Ws) CTF engine family was specifically designed to be significantly more fuel efficient than previous engine models, thereby reducing greenhouse gas emissions when using jet fuel. The engine reduces greenhouse gas emissions by 16%. It was first released in 2016 and since then its demand has significantly increased. Currently there are more than 606 CTF-powered aircraft that have been delivered, and another 5,000 on order. The GTF engine represents approximately 20% of Pratt & Whitney's sales in its large commercial engine business, and those sales are integrated into the company's financial planning. In 2020, even with the COVID-19 pandemic and the significant dyminum in the aviation sector, the company continueu to implement upgrades to the engine due to its strategic importance. Sales of the GTF engine appared capital expenditures in several different ways: 1) Capital expenditures are needed to support the transition to a sustainable aviation industry and deployment of new technologies, systems, and processes. This includes new facilities (see example below) and upgrades to existing facilities. 2) To continue to reduce the greenhouse gas emissions from our facilities, develops an EHAS plan that includes funding requirements, including capital projects to meet annual and long-term sustainability goals, including the GHG goal. 3) Capital

C3.4a

(C3.4a) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

No additional information.

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year? Absolute target

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Abs 1
Year target was set 2015
Target coverage Company-wide
Scope(s) (or Scope 3 category) Other, please specify (Scope 1, Scope 2 location based, and Scope 3 Business Travel)
Base year 2015
Covered emissions in base year (metric tons CO2e) 1932751
Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category) 100
Target year 2020

Targeted reduction from base year (%)

Covered emissions in target year (metric tons CO2e) [auto-calculated] 1700820.88

Covered emissions in reporting year (metric tons CO2e) 1593681

% of target achieved [auto-calculated] 146.194896980177

Target status in reporting year Achieved

Is this a science-based target?

Yes, we consider this a science-based target, but it has not been approved by the Science-Based Targets initiative

Target ambition

2°C aligned

Please explain (including target coverage)

The 2020 goal covers scopes 1, 2, and scope 3 business travel. Both legacy companies had 2020 GHG reduction goals spanning the timeframe between 2015 - 2020. This goal combines the 2 company goals into 1 Raytheon Technologies goal. There are small differences in methodologies and scopes between the 2 legacy goals. The Raytheon Technologies rebaselined 2020 goal was a 12% reduction in GHGs from 2015 levels. The company exceeded this goal and cut GHG emissions by 18% by the end of 2020.

Target reference number

Abs 2

Year target was set 2020

Target coverage Company-wide

Scope(s) (or Scope 3 category)

Other, please specify (Scope 1, 2 location-based and Scope 3 Business Travel)

Base year 2019

Covered emissions in base year (metric tons CO2e) 1968303

Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category) 100

Target year 2025

Targeted reduction from base year (%)

10

Covered emissions in target year (metric tons CO2e) [auto-calculated] 1771472.7

Covered emissions in reporting year (metric tons CO2e) 1593681

% of target achieved [auto-calculated] 190.327403860076

Target status in reporting year New

Is this a science-based target?

Yes, we consider this a science-based target, but it has not been approved by the Science-Based Targets initiative

Target ambition

2°C aligned

Please explain (including target coverage)

This is a company wide GHG goal and covers scopes 1, 2, and scope 3 business travel (commercial air and employee car rentals). The 2025 goal period is between 2021 - 2025, and the company's first reporting year against this new goal will be 2021. The baseline year for the goal would normally be the year prior, 2020, but it was decided not to use that year as the baseline due to the severe impacts of COVID on emissions. Therefore, we selected calendar year 2019 as the baseline year. The company's GHG emissions in 2020 are much lower than normal due to the significant, world-wide effects of the COVID pandemic on the economy and to the aviation industry. 2020 emissions are not a representative number. The 2019 baseline will be used as Raytheon Technologies' goal baseline throughout the 2025 goal period.

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year? No other climate-related targets

C4.3

(C4.3) 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.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	996	81987
To be implemented*	30	2469
Implementation commenced*	10	823
Implemented*	98	8067
Not to be implemented	332	27329

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Energy efficiency in buildings Other, please specify (All of the above (e.g., Lighting, HVAC, building energy management systems, motors and drives, insulation, boilers))

Estimated annual CO2e savings (metric tonnes CO2e) 8067

Scope(s) Scope 1 Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4) 1533896

Investment required (unit currency – as specified in C0.4) 11868619

Payback period >25 years

Estimated lifetime of the initiative 11-15 years

Comment

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Dedicated budget for energy efficiency	Business unit and site managers develop dedicated budgets to meet their GHG reduction commitments under the formal Raytheon Technologies GHG reduction targets.
Internal finance mechanisms	Since the majority of Scope 1 and 2 GHG emissions are related to energy use, energy reduction investments drive our GHG reductions. The company examines the costs and benefits of energy and building projects and calculates a Rate on Investment (ROI). This assists in selecting the most cost-effective projects.
Other (Greenhouse Gas Emission goals established and tracked)	Raytheon Technologies established formal GHG reduction targets for each business unit. Meeting the annual goals is one of the drivers behind Business unit and site emission reduction investments.
Other (R&D budgets and Technology Roadmaps)	The company has a large R&D budget. In 2020, Raytheon Technologies spent \$6.7 billion in Research and Development. A large share of that budget was for innovative technologies supporting commercial aviation. Of this investment, \$2.6 B was company-funded and \$4.1 B was customer-funded. The company has developed Technology Roadmaps (see C2.2) for many different technology areas that have been identified as high priority for the company and our customers. Many relate to technologies that are critical in transitioning to a sustainable aviation industry, such as hybrid electric propulsion and alternative fuel systems. These roadmaps identify key steps needed to advance technologies for these areas. The roadmaps also help prioritize R&D investment. The company's R&D funding utilizes a defined, gated review process to determine which technologies get funding and at what level.

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions? Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.

Level of aggregation

Product

Description of product/Group of products

Pratt & Whitney's Geared Turbofan (GTF) engine - Since entering service in 2016, the GTF engine family has made air travel significantly more sustainable. These revolutionary engines deliver 16% lower fuel consumption and carbon emissions compared to previous-generation engines. Its novel construction allows the fan and the turbine that drives it to spin at their different optimal speeds, increasing overall efficiency. The GTF offers approximate savings of 100 gallons of fuel per flight hour and reduction in C02 of 1 metric ton per flight hour. GTF engines have already saved airlines 500 million gallons of fuel worth an estimated \$1 billion, and 5 million metric tons of CO2. In addition, the GTF family of engines were designed to be fully capable of using certified Sustainable Aviation Fuel (SAF) products. Fueling aircraft with SAF products dramatically reduces greenhouse gas (GHG) emissions. The GTF engines also reduce noise by 75% and reduce nitrogen oxide emissions by 50%. The GTF engine's fan-drive gear system is just one component of this next-generation engine. The Pratt & Whitney GTF engine also incorporates advances in aerodynamics, lightweight materials and other major technology improvements in the high-pressure spool, low-pressure turbine, combustor, controls, engine health monitoring and more. More than 960 GTF-powered aircraft have been delivered, and there is a strong backlog of more than 5,000 orders. Collins Aerospace products/services - Collins Aerospace provides numerous systems and components for aircraft and engines. CO2 emission reductions may be achieved through reduction of weight, energy consumption and aerodynamic drag as well as improved operational efficiency using connected aircraft solutions and artificial intelligence. Weight-saving example: Since 2010, Collins Aerospace has reduced the weight of aircraft seats from 14kg to 10kg per seat for our latest generation of seats. For a 200-seat layout of a single aisle aircraft performing 1000 flights per year with an average of 4 hours f

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (RTX's engineering calculations applicable to CO2 emission reductions associated with the use of the GTF engine. In addition, RTX utilized weightemission reduction data provided in the "Destination 2050-A route to net zero European aviation" report.)

% revenue from low carbon product(s) in the reporting year

% of total portfolio value <Not Applicable>

Asset classes/ product types <Not Applicable>

...

Comment

The company does not publicly report sales revenue from individual products or general product classes. At the May 2021 Raytheon Technologies Investor Day, Pratt & Whitney's President indicated the GTF engine represents a little more than 20% of its sales in the large commercial engine business. It is expected to grow to about 60% in that area by the end of 2025 due to strong customer demand.

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 607971

Comment

Scope 2 (location-based)

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 1160137

Comment

Scope 2 (market-based)

Base year start January 1 2019

Base year end December 31 2019

Base year emissions (metric tons CO2e) 1179207

Comment

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Australia - National Greenhouse and Energy Reporting Act

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

The Greenhouse Gas Protocol: Scope 2 Guidance

US EPA Center for Corporate Climate Leadership: Direct Fugitive Emissions from Refrigeration, Air Conditioning, Fire Suppression, and Industrial Gases

US EPA Center for Corporate Climate Leadership: Indirect Emissions From Purchased Electricity

US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources

US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources

US EPA Emissions & Generation Resource Integrated Database (eGRID)

Other, please specify (Canada's National Inventory Report electricity emissions factors, International Energy Agency World electricity emission factors)

C5.2a

(C5.2a) Provide details of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

We also utilize the electricity emissions factors from Canada's National Inventory Report as well as the world electricity emission factors from the International Energy Agency (IEA) for the sites RTX operates in numerous countries.

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e) 536565

Start date

<Not Applicable>

End date <Not Applicable>

Comment

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based We are reporting a Scope 2, location-based figure

Scope 2, market-based We are reporting a Scope 2, market-based figure

Comment

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

Scope 2, location-based 1002041

Scope 2, market-based (if applicable) 1020914

Start date <Not Applicable>

End date <Not Applicable>

Comment

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure? No

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Evaluation status

Relevant, calculated

Metric tonnes CO2e 10865507

Emissions calculation methodology

Raytheon Technologies is a member of the International Aerospace Environment Group, a 50-company member global aerospace related industry group. IAEG's mission is to employ the resources of members to address environmental issues of common interest. In 2019 an IAEG workgroup that included UTC completed the development of a Scope 3 Purchased Goods and Services (PGS) and Capital Goods (CG) GHG calculation tool. The tool allows users to input either spend (total \$ spent) or materials acquired (Kg) in 64 categories of materials, goods and services, and then utilizes spend based and material based emission factors for each category to estimate the CO2e emissions resulting from the category. RTX used the IAEG tool and 2019 spend data to develop PGS and CG estimates. The values only include Collins Aerospace, Pratt & Whitney, and the Research Center. It does not include the other Businesses that existed in 2019 but were subsequently divested. It does not include the emissions from Raytheon Intelligence & Space or Raytheon Missiles & Defense businesses. The company plans on updating spend data to the most current year, and expanding them to include all RTX Businesses next year.

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

0

Please explain

The Scope 3 data reported above was spend data provided by RTX's supply management, as distributed across the IAEG PGS and CG categories.

Capital goods

Evaluation status

Relevant, calculated

Metric tonnes CO2e

1263

Emissions calculation methodology

Raytheon Technologies is a member of the International Aerospace Environment Group, a 50-company member global aerospace related industry group. IAEG's mission is to employ the resources of members to address environmental issues of common interest. In 2019 an IAEG workgroup that included UTC completed the development of a Scope 3 Purchased Goods and Services (PGS) and Capital Goods (CG) GHG calculation tool. The tool allows users to input either spend (total \$ spent) or materials acquired (Kg) in 64 categories of materials, goods and services, and then utilizes spend based and material based emission factors for each category to estimate the CO2e emissions resulting from the category. RTX used the IAEG tool and 2019 spend data to develop PGS and CG estimates. The values only include Collins Aerospace, Pratt & Whitney, and the Research Center. It does not include the other Businesses that existed in 2019 but were subsequently divested. It does not include the emissions from Raytheon Intelligence & Space or Raytheon Missiles & Defense businesses. The company plans on updating spend data to the most current year, and expanding them to include all RTX Businesses next year.

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

0

Please explain

Scope 3 data reported above was spend data provided by RTX's supply management, as distributed across the IAEG PGS and CG categories.

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

Evaluation status Relevant, calculated

Metric tonnes CO2e

243444

Emissions calculation methodology

The activity data used to quantify these activities emissions are the quantity of energy consumed for each energy type, such as electricity or natural gas. Consumption by fuel type is then multiplied by emission factors for each of the three activities included in this category. Emission factors for upstream emissions of purchased fuels are based on life-cycle analysis software. Emission factors for upstream emissions of purchased electricity are based on life-cycle analysis software for the US, and on UK Defra Guidelines for other countries. Emission factors for T&D losses are based on EPA's eGRID database for the US, and on UK Defra Guidelines for other countries. GWPs are IPCC Fourth Assessment Report (AR - 100 year).

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

100

Please explain

GHGs from fuel and energy-related activities are based off of electricity invoices, natural gas bills, fuel invoices, hot water and chilled water bills, and jet fuel bills. These bills/invoices all are provided to RTX from its energy and fuel suppliers, utility companies, and other partners. A portion of the fuel use calculations from our fleet vehicles is estimated and based on miles driven and the fuel efficiency of the vehicle. The fuel records are not consistently maintained in a centralized IT system to allow retrieval of the information. This estimated amount represents approximately 5% of the total GHGs in this emission source.

Upstream transportation and distribution

Evaluation status Relevant, not yet calculated

Metric tonnes CO2e
<Not Applicable>

Emissions calculation methodology <Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Evaluation status

Relevant, calculated

Metric tonnes CO2e

18057

Emissions calculation methodology

This figure represents emissions associated with hazardous and solid waste disposed via landfills and incineration. Data on waste quantity, composition, and disposal method are obtained by our waste management providers. Emissions from waste are calculated using methodologies and emission factors from the EPA's Waste Reduction Model (WARM), version March 2020. This model calculates emissions based on a life-cycle analysis, including emissions from the long-term decomposition of waste in a landfill or from upstream sources/sinks. GWPs are from the Intergovernmental Panel for Climate Change (IPCC) Fourth Assessment Report.

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

100

Please explain

Waste disposal volumes and disposal methods are from our waste disposal suppliers. Most of the activity data is from invoices, bills, manifests, or other similar documents.

Business travel

Evaluation status Relevant calculated

Metric tonnes CO2e 55075

55075

Emissions calculation methodology

Raytheon Technologies obtains business travel flight information (distance of flight) from our third-party services providers, and determine the amount of short, medium, and long-haul trip miles. We then apply EPA's emission factors to the mileage to calculate CO2e emissions from Commercial Air Travel. In addition, RTX obtains rental car information (type of vehicle, miles traveled, fuel purchased) from its third-party service provider. We then use EPA emission factors for mobile sources to calculate car rental GHG emissions.

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

100

Please explain

All of the data we use for business air travel and employee rental cars is obtained from RTX's suppliers.

Employee commuting

Evaluation status

Relevant, not yet calculated

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Upstream leased assets

Evaluation status Not relevant, explanation provided

Metric tonnes CO2e <Not Applicable>

Enderstander anderstander ander

Emissions calculation methodology <Not Applicable>

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

<Not Applicable>

Please explain

All facilities and vehicles that RTX leases are already included in the Scope 1 and 2 GHG inventory.

Downstream transportation and distribution

Evaluation status Relevant, not yet calculated

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology <Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Processing of sold products

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable> Please explain

Raytheon Technologies sells end products, or products that are components of larger systems that are integrated (not processed) into a larger system with minimal processing required.

Use of sold products

Evaluation status Relevant, not yet calculated

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

End of life treatment of sold products

Evaluation status Relevant, not yet calculated

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Downstream leased assets

Evaluation status Not relevant, explanation provided

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Raytheon Technologies does not have any assets leased to others that are not already included in the scope 1 and 2 GHG inventory.

Franchises

Evaluation status

Not relevant, explanation provided

Metric tonnes CO2e

<Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

Raytheon Technologies does not operate any franchises.

Investments

Evaluation status Not relevant, explanation provided

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

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

<Not Applicable>

Please explain

Raytheon Technologies does not hold investments that would present a relevant impact to our Scope 3 emissions.

Other (upstream)

Evaluation status Not relevant, explanation provided

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain No other upstream emissions.

Other (downstream)

Evaluation status Not relevant, explanation provided

Metric tonnes CO2e <Not Applicable>

Emissions calculation methodology

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners <Not Applicable>

Please explain

No other downstream emissions.

C-CG6.6

(C-CG6.6) Does your organization assess the life cycle emissions of any of its products or services?

	Assessment of life cycle emissions	Comment
Row 1	No, and we do not plan to start doing so within the next two years	

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization? No

C6.10

(C6.10) 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.

Intensity figure 0.000024

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e) 1538606

Metric denominator unit total revenue

Metric denominator: Unit total 6460000000

Scope 2 figure used Location-based

% change from previous year 1

Direction of change Increased

Reason for change

The change was approximately a 1% increase. Scope 1 and 2 GHG emissions were 13% lower in 2020 than in 2019 due to emissions reduction initiatives as well as the COVID 19 pandemic and the impact on the company (including business output), particularly the commercial aviation businesses. Raytheon Technologies revenues were down 13.8% from 2019 to 2020. Therefore, the intensity figure of GHG emissions (Scope 1 & 2) divided by revenues was approximately 1% higher in 2020. The change is caused by the decrease in revenues being slightly greater than the decrease in GHG emissions. Revenues (pro forma) in 2019 were \$74,237,000,000.

Intensity figure

8.5

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e) 1538606

Metric denominator full time equivalent (FTE) employee

Metric denominator: Unit total 181000

Scope 2 figure used Location-based

% change from previous year 7.5

Direction of change

Decreased

Reason for change

Scope 1 and 2 GHG emissions were 13% lower in 2020 than in 2019 due primarily to the COVID pandemic and the impact on the business (including business output), particularly the commercial aviation business. Full time employees decreased 6% in 2020 from 2019 levels. Therefore, the intensity figure of GHGs per employee decreased 7.5%. The decline in FTEs is due to several factors including the UTC-Raytheon merger and reductions in force due to the economic slowdown caused by COVID. In 2019, the total number of FTEs was 192,365.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type? Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	501648	IPCC Fifth Assessment Report (AR5 – 100 year)
CH4	83	IPCC Fifth Assessment Report (AR5 – 100 year)
N2O	48	IPCC Fifth Assessment Report (AR5 – 100 year)
HFCs	19612	IPCC Fifth Assessment Report (AR5 – 100 year)
PFCs	14415	IPCC Fifth Assessment Report (AR5 – 100 year)
SF6	758	IPCC Fifth Assessment Report (AR5 – 100 year)
NF3	0	IPCC Fifth Assessment Report (AR5 – 100 year)

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

Country/Region	Scope 1 emissions (metric tons CO2e)
United States of America	458332
United Kingdom of Great Britain and Northern Ireland	8337
Mexico	4517
China	357
Poland	4045
Israel	538
Singapore	306
Canada	47143
Other, please specify (Rest of World)	12989

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide. By business division

C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO2e)	
Collins Aerospace	186922	
Pratt & Whitney	248191	
Raytheon Missiles & Defense	45623	
Raytheon Intelligence & Space	38607	
RTX Corporate	17222	

C7.5

(C7.5) Break down your total gross global Scope 2 emissions by country/region.

Country/Region	· · ·	· · · · · · · · · · · · · · · · · · ·	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
United States of America	704551	690880	1872890	32706
United Kingdom of Great Britain and Northern Ireland	14230	21331	57092	358
Poland	87392	107304	147255	154
China	17140	17410	26241	0
Mexico	26521	26521	55847	78
Canada	16186	16186	187062	0
Israel	40950	40950	73154	0
Singapore	41453	41453	111400	6782
Other, please specify (Rest of world)	53618	59149	142853	135

C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide. By business division

C7.6a

(C7.6a) 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)	
Collins Aerospace	415574	433072	
Pratt & Whitney	282198	294952	
Raytheon Missiles & Defense	145295	146040	
Raytheon Intelligence & Space	150581	138458	
RTX Corporate	8392	8392	

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year? Decreased

C7.9a

(C7.9a) 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 emissions (metric tons CO2e)		Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	0	No change	0	There was no additional renewable energy consumption in 2020.
Other emissions reduction activities	17681	Decreased	1	Energy reduction and energy efficiency projects were implemented in 2020, thereby reducing GHGs. See Q 4.3 a and b for more details on the implemented projects. A total of 98 energy related projects were implemented relating to energy efficiency of our buildings. The projects include the following types: lighting upgrades, new boilers, HVAC upgrades and new chillers, compressed air replacements, motor and drives, and building energy management systems. The resulting location-based emission reduction was 17,681 t CO2e, divided by our total emissions in the previous year of 1,768,108 t CO2e gives a 1% reduction (17,681/1,768,108) *100 = 1%.)
Divestment	0	No change	0	There were no divestments that affected the change in emissions.
Acquisitions	0	No change	0	There were no acquisitions that affected the change in emissions.
Mergers	0	No change	0	There were no mergers that affected the change in emissions. Raytheon and United Technologies merged in April 2020, however the 2010 and 2019 GHG emissions inventory have been adjusted accordingly.
Change in output	194492	Decreased	11	Our business and operations were significantly impacted by the world-wide COVID 19 pandemic. This was especially driven by the restrictions on air travel which decrease the demand for some of our aircraft-related products and services in our Pratt & Whitney and Collins Aerospace businesses. Some of our airline customers have deferred or cancelled new aircraft deliveries. Raytheon Technologies revenues dropped 13% from 2019 to 2020. Although it is difficult to quantity the decrease in "Output" for this table, we estimate that it is approximately 11% and is the majority cause of the 13% reduction in Scope 1 and 2 GHGs between 2019 and 2020. The resulting location-based emission reduction was 194,492 t CO2e, divided by our total emissions in the previous year of 1,768,108 t CO2e gives a 1% reduction (194,492/1,768,108) *100 = 1%.)
Change in methodology	0	No change	0	No change in methodology
Change in boundary	0	No change	0	No change in boundary
Change in physical operating conditions	0	No change	0	No change in physical operating conditions
Unidentified	0	No change	0	none
Other	17329	Decreased	1	The COVID 19 pandemic led to several factors that influenced the reduction in GHGs: 1) Approximately 100,000 employees worked remotely, and therefore facility HVAC and lighting consumption decreased, 2) With the slowdown of the economy, operations decreased and the number of shifts at certain sites were reduced, thereby reducing energy consumption. It should be noted that even though the number of employees at Raytheon Technologies locations was significantly reduced during 2020 due to COVID, building HVAC systems continued to operate in most cases in order to ensure maximum air flow for those employees at the site. The resulting location-based emission reduction was 17,329 t CO2e, divided by our total emissions in the previous year of 1,768,108 t CO2e gives a 1% reduction (17,329/1,768,108)*100 = 1%.)

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure? Location-based

C-CG7.10

(C-CG7.10) How do your total Scope 3 emissions for the reporting year compare to those of the previous reporting year? Decreased

C-CG7.10a

(C-CG7.10a) For each Scope 3 category calculated in C6.5, specify how your emissions compare to the previous year and identify the reason for any change.

Purchased goods and services

Direction of change No change

Primary reason for change <Not Applicable>

Change in emissions in this category (metric tons CO2e) <Not Applicable>

% change in emissions in this category <Not Applicable>

Please explain

Raytheon Technologies' emission calculations were based off of 2019 spend so the emissions didn't change from what was reported in 2019.

Capital goods

Direction of change No change

Primary reason for change <Not Applicable>

Change in emissions in this category (metric tons CO2e) <Not Applicable>

% change in emissions in this category <Not Applicable>

Please explain

Raytheon Technologies' emission calculations were based off of 2019 spend so the emissions didn't change from what was reported in 2019.

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

Direction of change First year of reporting this category

Primary reason for change <Not Applicable>

Change in emissions in this category (metric tons CO2e) <Not Applicable>

% change in emissions in this category <Not Applicable>

Please explain <Not Applicable>

Waste generated in operations

Direction of change First year of reporting this category

Primary reason for change <Not Applicable>

Change in emissions in this category (metric tons CO2e) <Not Applicable>

% change in emissions in this category <Not Applicable>

Please explain <Not Applicable>

Business travel

Direction of change Decreased

Primary reason for change

Other, please specify (Due to the worldwide COVID pandemic, business travel was significantly reduced, especially air travel.)

Change in emissions in this category (metric tons CO2e) 145120

% change in emissions in this category 72.5

Please explain

Due to the COVID pandemic, business travel was significantly reduced, especially air travel.

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy? More than 0% but less than or equal to 5%

C8.2

(C8.2) 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)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	Yes
Consumption of purchased or acquired cooling	Yes
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	0	2432479	2432479
Consumption of purchased or acquired electricity	<not applicable=""></not>	31997	2588665	2620662
Consumption of purchased or acquired heat	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of purchased or acquired steam	<not applicable=""></not>	0	49146	49146
Consumption of purchased or acquired cooling	<not applicable=""></not>	0	27765	27765
Consumption of self-generated non-fuel renewable energy	<not applicable=""></not>	8217	<not applicable=""></not>	8217
Total energy consumption	<not applicable=""></not>	40214	5098055	5138268

C8.2b

(C8.2b) 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	No
Consumption of fuel for the generation of heat	No
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	Yes

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Fuels (excluding feedstocks)

Natural Gas

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 1912052

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 643996

Emission factor 53.11

Unit kg CO2e per million Btu

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Jet Kerosene

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 451654

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 9.75

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Diesel

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 19998

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 10.21

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Motor Gasoline

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 20986

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 8.78

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Butane

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 1105

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 6.67

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Propane Gas

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 25563

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 5.72

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Fuel Oil Number 2

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 736

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 10.21

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

Fuels (excluding feedstocks) Fuel Oil Number 4

Heating value LHV (lower heating value)

Total fuel MWh consumed by the organization 386

MWh fuel consumed for self-generation of electricity <Not Applicable>

MWh fuel consumed for self-generation of heat 0

MWh fuel consumed for self-generation of steam <Not Applicable>

MWh fuel consumed for self-generation of cooling <Not Applicable>

MWh fuel consumed for self-cogeneration or self-trigeneration 0

Emission factor 10.96

Unit kg CO2e per gallon

Emissions factor source U.S. EPA Emission Factors Hub, March 2020

Comment

C8.2d

(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

	-	-	-	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	8217	8217	8217	8217
Heat	0	0	0	0
Steam	0	0	0	0
Cooling	0	0	0	0

C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero emission factor in the market-based Scope 2 figure reported in C6.3.

Sourcing method

Power purchase agreement (PPA) with a grid-connected generator with energy attribute certificates

Low-carbon technology type

Hydropower

Country/area of consumption of low-carbon electricity, heat, steam or cooling United States of America

MWh consumed accounted for at a zero emission factor

17307 Comment

RECs were purchased by several RI&S's facilities in Virginia as part of Power Purchase Agreements with Constellation Energy

Sourcing method

Green electricity products (e.g. green tariffs) from an energy supplier, supported by energy attribute certificates

Low-carbon technology type

Wind

Country/area of consumption of low-carbon electricity, heat, steam or cooling United States of America

MWh consumed accounted for at a zero emission factor 14690

Comment

RECs purchased by RI&S' Indianapolis, Indiana facility though Indianapolis Power & Light's "Green Power Option" program. All the RECs were green-e certified.

Sourcing method

Other, please specify (Owned onsite solar)

Low-carbon technology type Solar

Country/area of consumption of low-carbon electricity, heat, steam or cooling United States of America

MWh consumed accounted for at a zero emission factor 709

Comment

Several onsite solar projects located in our facilities in the U.S.

Sourcing method

Power purchase agreement (PPA) with on-site/off-site generator owned by a third party with no grid transfers (direct line)

Low-carbon technology type Solar

Country/area of consumption of low-carbon electricity, heat, steam or cooling United Kingdom of Great Britain and Northern Ireland

MWh consumed accounted for at a zero emission factor

358

Comment Onsite PPA. RECs certified and retired.

Sourcing method

Other, please specify (Owned onsite solar)

Low-carbon technology type

Solar

Country/area of consumption of low-carbon electricity, heat, steam or cooling Poland

MWh consumed accounted for at a zero emission factor 154

104

Comment

Owned onsite solar in Poland

Sourcing method

Power purchase agreement (PPA) with on-site/off-site generator owned by a third party with no grid transfers (direct line)

Low-carbon technology type

Country/area of consumption of low-carbon electricity, heat, steam or cooling Singapore
MWh consumed accounted for at a zero emission factor 6782
Comment Onsite PPAs. RECs certified and retired.
Sourcing method Other, please specify (Onsite owned solar)
Low-carbon technology type Solar
Country/area of consumption of low-carbon electricity, heat, steam or cooling Mexico
MWh consumed accounted for at a zero emission factor 78
Comment onsite owned solar
Sourcing method Other, please specify (onsite owned solar)
Low-carbon technology type Solar
Country/area of consumption of low-carbon electricity, heat, steam or cooling France
MWh consumed accounted for at a zero emission factor 135
Comment Onsite owned solar

C-CG8.5

Solar

(C-CG8.5) Does your organization measure the efficiency of any of its products or services?

	Measurement of product/service efficiency	Comment
Row 1	No, and we do not plan to start doing so within the next two years	

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

Description Energy usage

Metric value 18130410

Metric numerator 2020 Total energy consumed (gigajoules)

Metric denominator (intensity metric only) Not applicable

% change from previous year

Direction of change

<Not Applicable>

Please explain

This metric aligns with the reporting element of the Sustainability Accounting Standards Board (SASB) disclosure framework. 2020 is the first year of reporting so we do not have % change from previous year.

C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low- carbon R&D	Comment
Row 1	R&D W Yes In 2020, RTX spent \$6.7 Billion in Research and Development. A large share of that budget was for innovative technologies in support of commercial aviation. Much of the technological improvement in aviation focuses on low-carbon products and components, or products and technologies that led to a reduction of GHG emissions during product use (e.g., reducing weig components or improving flight path efficiency). Of the investment, \$2.6 B was company funded, and \$4.1 B was customer funded. Examples of R&D areas that relate to product and ser that are low-carbon or lead to the reduction of carbon include: engine efficiency upgrades including thermal efficiency improvements, hybrid electric propulsion system, hydrogen-powere engines, new lighter weight advanced structures, intelligence and connected flight system technologies, sustainable aviation fuels, and compact electromechanical actuators (EMAs) enamore efficient aircraft wing design to reduce aerodynamic drag.	

C-CG9.6a

(C-CG9.6a) Provide details of your organization's investments in low-carbon R&D for capital goods products and services over the last three years.

Technology area

Other, please specify (Sustainable aviation)

Stage of development in the reporting year Applied research and development

Average % of total R&D investment over the last 3 years Please select

R&D investment figure in the reporting year (optional)

Comment

In 2020, RTX spent \$6.7 Billion in Research and Development. A large share of that budget was for innovative technologies in support of commercial aviation. Much of the technological improvement in aviation focuses on low-carbon products and components, or products and technologies that led to a reduction of GHG emissions during product use (e.g., reducing weight of components or improving flight path efficiency). Of the investment, \$2.6 B was company funded, and \$4.1 B was customer funded. Examples of R&D areas that relate to product and services that are low-carbon or lead to the reduction of carbon include: engine efficiency upgrades including thermal efficiency improvements, hybrid electric propulsion system, hydrogen-powered engines, new lighter weight advanced structures, intelligence and connected flight system technologies, sustainable aviation fuels, and compact electromechanical actuators (EMAs) enabling more efficient aircraft wing design to reduce aerodynamic drag.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Verification or assurance cycle in place Annual process

Status in the current reporting year Complete

Type of verification or assurance Limited assurance

Attach the statement RTX 2020 CDP Verification Statement Limited.pdf

Page/ section reference See page 1

Relevant standard

Proportion of reported emissions verified (%) 100

C10.1b

(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Scope 2 approach Scope 2 location-based

Verification or assurance cycle in place Annual process

Status in the current reporting year Complete

Type of verification or assurance Limited assurance

Attach the statement RTX 2020 CDP Verification Statement Limited.pdf

Page/ section reference See page 1

Relevant standard ISO14064-3

Proportion of reported emissions verified (%) 100

Scope 2 approach Scope 2 market-based

Verification or assurance cycle in place Annual process

Status in the current reporting year Complete

Type of verification or assurance Limited assurance

Attach the statement RTX 2020 CDP Verification Statement Limited.pdf

Page/ section reference See page 1

Relevant standard ISO14064-3

Proportion of reported emissions verified (%) 100

C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category Scope 3: Business travel

Verification or assurance cycle in place Annual process

Status in the current reporting year Complete

Type of verification or assurance Limited assurance

Attach the statement RTX 2020 CDP Verification Statement Limited.pdf

Page/section reference See page 1

Relevant standard ISO14064-3

Proportion of reported emissions verified (%) 100

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5? No, we do not verify any other climate-related information reported in our CDP disclosure

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)? Yes

C11.1a

(C11.1a) Select the carbon pricing regulation(s) which impacts your operations. EU ETS RGGI - ETS

C11.1b

(C11.1b) Complete the following table for each of the emissions trading schemes you are regulated by.

EU ETS

% of Scope 1 emissions covered by the ETS

0.01

0

% of Scope 2 emissions covered by the ETS

Period start date January 1 2020

Period end date December 31 2020

Allowances allocated

0

Allowances purchased

0

Verified Scope 1 emissions in metric tons CO2e

0

Verified Scope 2 emissions in metric tons CO2e 0

Details of ownership

Facilities we own and operate

Comment

Raytheon Technologies' aircraft fleet traveling to the EU is subject to the EU's ETS scheme. In 2020, the number of flights to the EU were below the threshold for emissions. This was due to the COVID pandemic, which curbed international travel.

RGGI - ETS

% of Scope 1 emissions covered by the ETS 16

% of Scope 2 emissions covered by the ETS

0

Period start date January 1 2020

Period end date December 31 2020

Allowances allocated 54641

Allowances purchased

3929

Verified Scope 1 emissions in metric tons CO2e 83708

Verified Scope 2 emissions in metric tons CO2e 0

Details of ownership Facilities we own and operate

Comment

RGGI allowances associated with 1 Connecticut based co-generation facility.

C11.1d

(C11.1d) What is your strategy for complying with the systems you are regulated by or anticipate being regulated by?

Raytheon Technologies strategy for compliance with these systems is to 1) fully understand the requirements and monitor any changes in the regulatory schemes, 2) submit the necessary reporting by the required deadlines, 3) work with third party consultants where needed to assist in compliance, and 4) collect energy and GHG data quarterly from all of our sites, and conduct a GHG verification audit annually by a certified verifier, to ensure we can evaluate potential future regulatory schemes that regulate either GHG emissions or energy consumption.

Case study:

Raytheon Technologies' Flight Operations in the U.S. is responsible for complying with the EU Emissions Trading Scheme relating to flights in and out of the EU by any of the company's corporate fleet of aircraft. They work with a third party to assist in tracking, quantifying, and determining any required fees that are needed to be paid to the EU to comply. In 2020, it was determined that the number of flights / miles in and out of the EU was below the threshold level that required allowances to be purchased.

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period? No

C11.3

(C11.3) Does your organization use an internal price on carbon? No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues? Yes, our suppliers

Yes, our customers

res, our customers

(C12.1a) Provide details of your climate-related supplier engagement strategy.

Type of engagement

Compliance & onboarding

Details of engagement

Other, please specify (RTX maintains a supplier code of conduct that includes expectations that suppliers conserve natural resources, prevent pollution, and minimize emissions and energy consumption)

% of suppliers by number

100

% total procurement spend (direct and indirect)

95

% of supplier-related Scope 3 emissions as reported in C6.5

0

Rationale for the coverage of your engagement

By establishing a mandatory supplier code of conduct, the company believes we can influence supplier CO2e emissions and other environmental impacts and send a clear message that environmental protection is a company priority.

Impact of engagement, including measures of success

Raytheon Technologies does not measure the GHG reduction impact from our engagement with suppliers. Our measurement of success is anecdotal, and success is largely judged by the feedback we receive from our suppliers.

Comment

Type of engagement

Engagement & incentivization (changing supplier behavior)

Details of engagement

Run an engagement campaign to educate suppliers about climate change

% of suppliers by number

0.5

% total procurement spend (direct and indirect)

1

% of supplier-related Scope 3 emissions as reported in C6.5

0

Rationale for the coverage of your engagement

One of legacy Raytheon's long-term 2020 Sustainability goals (established in 2015) was to obtain sustainability commitments from 90% of our key and preferred suppliers. The goal was met in 2020. The goal was measured by whether the targeted suppliers have 2 or more goals that were aligned with Raytheon's 14 sustainability goals, which include energy, greenhouse gas emissions, and renewable energy. Legacy Raytheon's Supply Chain engaged with its strategic suppliers (i.e., Strategic Enterprise Aligned Commodities suppliers, approximately 400 suppliers) and encouraged them to align with 2 or more of Raytheon's sustainability goals. This group of suppliers was selected for the engagement due to their strategic importance and the fact that they are "preferred" suppliers and as such, they wanted to continue to meet Raytheon's needs and stay "preferred suppliers". They are also a well-defined set of suppliers with established and frequent contacts. To measure progress toward the goal / engagement, Raytheon's supply chain organization surveyed the suppliers and followed up with letters and phone calls. Raytheon communicated to the suppliers that it valued sustainability and that sustainability and aggressive goals helps companies be more resource efficient, which can lower costs.

Impact of engagement, including measures of success

Impact of the engagement: By the third quarter of 2020, 90% of the targeted suppliers had 2 or more sustainability goals aligned with Raytheon's sustainability goals. By engaging with our strategic suppliers and communicating Raytheon's sustainability program and goals (including energy and GHG emission reduction goals), Raytheon was communicating that it valued sustainability and resource-efficient suppliers. Positive Outcomes: Enhancing suppliers' sustainability programs along with setting targets. In addition, we believe another positive outcome in the long term will be a reduction in their environmental footprint. Raytheon also encouraged these suppliers to become members of the U.S. EPA ENERGY STAR program as a way to reduce their energy and GHG emissions and lower their energy costs. This type of engagement is effective in incentivising suppliers to reduce their GHG emissions and energy consumption. Measures of success: The way that we measured the success of this engagement is whether we meet our 2020 goal of getting 90% of these SEAC suppliers to set 2 sustainability goals that are aligned with Raytheon's. Since the goal was achieved, we consider it a success.

Comment

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement Collaboration & innovation

Details of engagement

Other, please specify (Collaboration, discussion, and joint R&D investment in sustainable aviation technologies)

% of customers by number

% of customer - related Scope 3 emissions as reported in C6.5

0

Portfolio coverage (total or outstanding)

<Not Applicable>

Please explain the rationale for selecting this group of customers and scope of engagement

Raytheon Technologies actively engages with its commercial aviation customers to collaborate and innovate with our customers towards a more sustainable aviation industry. One of the forums Raytheon Technologies uses to accomplish this is through the Air Transport Action Group (ATAG), an organization with approximately 40 members worldwide representing all sectors of the air transport industry. These include airports, airlines, airframe and engine manufacturers (including RTX – Pratt & Whitney), air navigation service providers, airline pilot and air traffic controller unions, and others. The organization provides an effective venue to discuss critical issues related to aviation's sustainability and seek coordinated solutions. ATAG developed a set of climate goals that were eventually adopted by the International Civil Aviation Organization (ICAO), specialized United Nations organization, in 2016. The goals are: 1) improving fuel efficiency by an average of 1.5% per year from 2009-2020; 2) stabilizing emissions from 2020 with carbon-neutral growth; and 3) an aspirational goal to reduce net emissions from aviation by 50% by 2050 compared to 2005 levels. The company also engages with Customers in other forums. For example, in 2019, RTX Collins Aerospace joined 23 other leaders in aerospace, research organizations and sustaion grogram to lead the way toward the de-carbonization of aviation by 2050. Another example is RTX - Collins Aerospace, as part of a unique, long-term collaboration with Airbus, Emirates Airlines, GE Aviation and Thales, in partnership with the Dubai Future Foundation, co-created Aviation X Lab to focus on technological innovation in aviation, including those enabling the next era of sustainable air travel.

Impact of engagement, including measures of success

We measure the success of engagement with customers on climate issues in various ways. For example, attendance at ATAG's Global Sustainability Aviation Summit, issuance of various publications that advance sustainable aviation (e.g., ATAG's Waypoint 2050 report which identifies several pathways for the aviation industry to achieve its carbon reduction goals), successful project demonstrations of new technologies. The ultimate measure of success is achieving the aviation industries milestones and carbon reduction goals.

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following? Direct engagement with policy makers

Trade associations

Funding research organizations

Other

C12.3a

(C12.3a) On what issues have you been engaging directly with policy makers?

Focus of legislation		Details of engagement	Proposed legislative solution
	with minor exceptions	, , , , , , , , , , , , , , , , , , , ,	The UN's International Civil Aviation Organization (ICAO) has been charged with developing a global regulatory regime that will reduce commercial aviation CO2 emissions in keeping with UN and COP 21 targets limiting average global temperature increases to no more than 2 degrees C by 2100. In 2016, the ICAO program was approved, and focuses on meeting three objectives: 2% annual fuel efficiency improvements; carbon neutral growth from 2020 forward utilizing the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) where needed; and 50% reduction in global aviation CO2 absolute emissions by 2050 vs. 2005 using a variety of measures including aircraft technology improvements, operational improvements, sustainable aviation fuels, and market-based mechanisms.

C12.3b

(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership? Yes

C12.3c

(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.

Trade association

Air Transport Action Group (ATAG)

Is your position on climate change consistent with theirs? Consistent

Please explain the trade association's position

The Air Transport Action Group (ATAG) is an aviation trade association that advocates for the adoption of a global, three-part global aviation GHG emissions program that includes: 1.5% average annual fuel efficiency improvement between 2009 - 2020, stabilization of net aviation CO2 emissions at 2020 levels through carbon neutral growth, and a reduction of aviation net CO2 emissions to 50% of 2005 by 2050. These goals are included in the International Civil Aviation Organization (ICAO) program to control global aviation emissions, as approved and recognized by the UN Intergovernmental Panel on Climate Change in 2016.

How have you influenced, or are you attempting to influence their position?

Raytheon Technologies' Pratt & Whitney business unit is a participating sponsor of ATAG, holds a seat on its Board of Directors, and provides technical expertise to the group in the development of its positions.

Trade association

Commercial Aviation Alternative Fuels Initiative (CAAFI)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The Commercial Aviation Alternative Fuels Initiative (CAAFI) is a coalition of aerospace manufacturers and service providers seeking to enhance US energy security and greater sustainability for aviation through the use of alternative jet engine fuels. CAAFI's goal is to promote the development of alternative jet fuel options that offer equivalent safety and favorable costs compared with petroleum-based jet fuel, while offering environmental improvement and energy supply security for aviation. CAAFI participants collaborate on technical aspects of alternative fuel chemistry and production capacity, and have developed various tools that facilitate the use of alternative fuels and demonstrate the viability of alternative fuels to regulators and legislators.

How have you influenced, or are you attempting to influence their position?

RTX's Pratt &Whitney technical experts serve on a variety of CAAFI workgroups to provide input to CAAFI studies, working papers and public testimony.

Trade association

Aerospace Industries Association (AIA)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

AlA's position on climate change as outlined in February, 2021 letter to the U.S. Department of Transportation, U.S. Special Presidential Envoy for Climate, U.S. Federal Aviation Administration, and the U.S. National Climate Advisor. In 2008, AIA and U.S. manufacturers were part of the industry-wide agreement that saw aviation became the first industrial sector to set goals to reduce its climate impact: • 1.5% per year fuel efficiency improvements from 2010 to 2020 (already achieved – 2.3% improvement) • Carbon-neutral growth from 2020. With ICAO's Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA), aviation became the first industry to agree to a voluntary global cap on CO2 emissions. International emissions above 2020 levels will be required to be offset by the aviation sector. • 50% reduction in net aircraft emissions by 2050, compared to 2005 levels. Building on these established climate goals, AIA advocates for 3 important principles to follow to address climate impacts of aviation. 1) Coordinated international solutions should be prioritized in recognition of the cross-border nature of the aviation industry and aircraft emissions. Maintain U.S. leadership in the International Civil Aviation Organization (ICAO). 2) Successfully decarbonizing the industry will rely on using the array of tools at our disposal to reduce aviation's climate impacts, not just one measure in isolation (e.g., new aircraft technologies, expanded sustainable aviation fuel use, operational improvements, and market-based measures). This is particularly important since new aircraft technologies have a long development time and take years to filter through the fleet. 3) Domestic policies must provide the industry with the capability to transition to a green future without jeopardizing the essential role aviation plays in our economy and society. Sustained government support is needed for the aviation sector to meet our climate goals including measures to accelerate the production and use of SAF, enhanced public-p

How have you influenced, or are you attempting to influence their position?

Raytheon Technologies is active in AIA's Civil Aviation Committee, along with other AIA committees.

Trade association

National Association of Manufacturers (NAM)

Is your position on climate change consistent with theirs? Consistent

Please explain the trade association's position

NAM compiled its recommendations on climate in a paper called "The Promise Ahead." Excerpts are below: PLAN FOR ACTION A successful climate policy must have 3 core components: 1) International Treaty: Negotiate and ratify a fair, binding international treaty, while continuing to drive reduction. This will ensure that the United States does not suffer a competitive disadvantage and can lead the way in developing job-creating technologies and products. 2) Unified domestic framework: The U.S. should enact a single, unified federal policy to manage GHG emissions that meets 3 principles: • One unified policy: Instead of the patchwork of federal, state and local climate change regulations that manufacturers currently face, the industry needs a clear federal policy that offers predictability, consistency and certainty while meeting science-based targets. Businesses should be able to plan for the future—and shouldn't have to worry that the policies of today will be different tomorrow. • A level playing field: Any national policy to address emissions should be economy-wide and apply to all emitters. Congress should develop plans that don't unduly burden one sector over another, and manufacturers shouldn't be expected to shoulder the already-high cost of new regulations alone. • Consumer choice and competitiveness: This policy approach shouldn't automatically involve a mandated phaseout of any manufactured product. Instead, policymakers should lead with the tools and strategies manufacturers end to improve products, preserving consumer choice and supporting the innovation that manufacturing provides. 3) Immediate actions that it recommends the U.S. pursue to achieve near-term emission reductions are: • Significant investing in energy and water efficiency • Funding and expanding climate and clean energy R&D programs • Paving the way for a smart grid • Commercializing and deploying carbon capture, utilization and storage technology • Ratifying the Kigali Amendment, which sets a global path for phasing down HFCs

How have you influenced, or are you attempting to influence their position?

Raytheon Technologies is a board member on NAM and actively participates on numerous Committees.

Trade association

Business Roundtable

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

Business Roundtable believes corporations should lead by example, support sound public policies and drive the innovation needed to address climate change. To this end, it believes that the United States should adopt a more comprehensive, coordinated and market-based approach to reduce emissions. This approach must be pursued in a

manner that ensures environmental effectiveness while fostering innovation, maintaining U.S. competitiveness, maximizing compliance flexibility, and minimizing costs to business and society. International cooperation and diplomacy backed by a broadly supported U.S. policy will be the key to achieving the collective global action required to meet the scope of the challenge and position the U.S. economy for long-term success. The consequences of climate change for global prosperity and socioeconomic wellbeing are significant; the world simply cannot afford the costs of inaction. The Business Roundtable supports a comprehensive policy to reduce GHG emissions and ultimately stabilize atmospheric concentrations at levels that will avoid the worst effects and mitigate the impacts of climate change. The transition to a low-carbon future will require a significant evolution in the way businesses and consumers operate. Key principles to guide public policy: • Align policy goals and GHG emissions reduction targets with scientific evidence. • Increase global engagement, cooperation and accountability. • Leverage market-based solutions wherever possible. • Provide for adequate transition time and long-term regulatory certainty. • Preserve the competitiveness of U.S. businesses, including avoiding economic and emissions "leakage." • Minimize social and economic costs for those least able to bear them. • Support both public and private investment in low-carbon and GHG emissions reduction technologies along the full innovation pipeline. • Minimize administrative burdens and duplicative policies while maximizing compliance flexibility. • Ensure that U.S. policies account for international emissions reduction programs. • Advance climate resilience and adaptation. • Eliminate barriers to the deployment of emissions reduction technologies and low-carbon energy.

How have you influenced, or are you attempting to influence their position?

Raytheon Technologies' CEO is a board member of the Business Roundtable and other company representatives participate on its Committees.

C12.3d

(C12.3d) Do you publicly disclose a list of all research organizations that you fund? No

C12.3e

(C12.3e) Provide details of the other engagement activities that you undertake.

International Aerospace Environmental Group (IAEG) - Raytheon Technologies sits on the IAEG board of directors and also participates in a variety of IAEG workgroups. IAEG is an aerospace industry organization with approximately 90 company members. The organization's mission is to develop common approaches for the aerospace industry to address environmental issues and concerns faced by all IAEG members. IAEG has established thirteen subject area workgroups, each of which is supported by member company subject matter experts and is dedicated to solving a specific challenge.

One of the working groups is the "Greenhouse Gas Reporting Work Group". This work group had developed an aerospace-oriented approach to GHG reporting, which was certified by the GHG Reporting Protocol as an official adjunct companion to the GHG Reporting Protocol. In 2019, the workgroup developed a Scope 3 emissions data collection and reporting tool for the calculation of Products, Goods and Services and Capital Goods scope 3 emissions.

C12.3f

(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

Raytheon Technologies' direct policy activities are centrally controlled by the company's Corporate Government Relations organization. They coordinate with affected Businesses and functional organizations, and therefore the activities reflect the company's overall climate change strategy. Government Relations adheres to formal policies and procedures in their outreach to legislators and regulators. Indirect activities on climate change policy are governed and coordinated by our Corporate Senior Vice Presidents of Government Relations, Operations and Supply Chain, Engineering, and Communications. There are sustainability teams and / or EH&S teams in each Business that oversees and coordinates these indirect activities.

C12.4

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication

In mainstream reports

Status Complete

Attach the document Raytheon Technologies 2020 Annual Report.pdf

Page/Section reference

Page 17 of the Raytheon Technologies 2020 Annual Report

Content elements

Emissions figures Emission targets

Comment

Publication In mainstream reports

Status Complete

Attach the document Raytheon Technologies 2021 Proxy Statement.pdf

Page/Section reference

Page 32 of the Raytheon Technologies 2021 Proxy Statement

Content elements Emissions figures

Emission targets

Comment

Publication

Other, please specify (Company external website)

Status Complete

Attach the document

Page/Section reference

Climate change and GHG emissions performance is included in the EH&S / Sustainability webpages on the company's external website. Please see link: https://www.rtx.com/social-impact/environment-health-and-safety/environment-health-safety

Content elements

Emissions figures Emission targets

Comment

The disclosure also includes a link to the company's CDP response for 2020, which addresses all of these content elements.

C15. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

No additional information.

C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Corporate Senior Vice President, Operations and Supply Chain	Other C-Suite Officer

SC. Supply chain module

SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

Please see C0. Introduction for an overview of Raytheon Technologies.

SC0.1

(SC0.1) What is your company's annual revenue for the stated reporting period?

	Annual Revenue
Row 1	640000000

SC0.2

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP? Yes

SC0.2a

(SC0.2a) Please use the table below to share your ISIN.

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	US	75513E1010

SC1.1

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Requesting member

Airbus SE

Scope of emissions Scope 1

Allocation level

Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 64388

Uncertainty (±%)

80

Major sources of emissions

Natural gas for building heating and equipment operation, jet fuel for engine testing, jet fuel for Corporate jet travel, onsite use of diesel, propane and other fuels, use of refrigerants for building and equipment cooling, and gasoline and diesel for fleet vehicles.

Verified

No

Allocation method

Allocation based on the market value of products purchased

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We utilized a revenue model to allocate GHG emissions. Sales to Airbus in 2020 represented approximately 12% of Raytheon Technologies' total revenues (\$64B). We applied that percentage to each scope to estimate the amount of GHG emissions relating to products and services we sell to Airbus. The uncertainty of this number is high given the methodology of allocation. There are many challenges of allocating GHGs to individual products, services, and customers because most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. A large majority of our GHG emissions are related to energy consumption (e.g., electricity and natural gas) at the facilities and it is not possible to accurately allocate energy consumption to various customers.

Requesting member

Airbus SE

Scope of emissions Scope 2

Allocation level

Allocation level detail

Emissions in metric tonnes of CO2e 120245

Uncertainty (±%)

80

Major sources of emissions

Purchased electricity primarily with some purchased steam. The electricity was used for building lighting as well as to power electrical equipment.

Verified No

Allocation method

Allocation based on the market value of products purchased

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We utilized a revenue model to allocate GHG emissions. Sales to Airbus in 2020 represented approximately 12% of Raytheon Technologies' total revenues (\$64B). We applied that percentage to each scope to estimate the amount of GHG emissions relating to products and services we sell to Airbus. The uncertainty of this number is high given the methodology of allocation. There are many challenges of allocating GHGs to individual products, services, and customers because most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. A large majority of our GHG emissions are related to energy consumption (e.g., electricity and natural gas) at the facilities and it is not possible to accurately allocate energy consumption to various customers.

Requesting member

Airbus SE

Scope of emissions Scope 3

Allocation level Company wide

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e 1342244

Uncertainty (±%) 80

Major sources of emissions

Scope 3 categories included are: Employee business travel (commercial air travel and car rental, 2020, all RTX), Purchased goods and services (2019, only for Pratt & Whitney and Collins Aerospace), Fuel and energy related activities (2020, all RTX), and Waste generated in operations (2020, all RTX).

Verified

No

Allocation method

Allocation based on the market value of products purchased

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We utilized a revenue model to allocate GHG emissions. Sales to Airbus in 2020 represented approximately 12% of Raytheon Technologies' total revenues (\$64B). We applied that percentage to each scope to estimate the amount of GHG emissions relating to products and services we sell to Airbus. The uncertainty of this number is high given the methodology of allocation. There are many challenges of allocating GHGs to individual products, services, and customers because most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. A large majority of our GHG emissions are related to energy consumption (e.g., electricity and natural gas) at the facilities and it is not possible to accurately allocate energy consumption to various customers.

Requesting member California Department of General Services (DGS)

Scope of emissions Please select

Allocation level Please select

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e

Uncertainty (±%)

Major sources of emissions

Verified

Please select

Allocation method

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Raytheon Technologies is not able to allocate GHG emissions on a customer by customer basis. The challenges of allocating GHGs to individual products, services, and customers are significant at this time. This is due to the fact that most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. In addition, a large majority of GHG emissions are related to its energy consumption (e.g., electricity and natural gas) at the facilities, such as air conditioning and heating, and it is not possible to allocate energy consumption to various customers. One way to make a gross estimate of allocated emissions would be to use sales figures. Customers could calculate what percent of sales they represent of Raytheon Technologies' total 2020 pro forma sales of \$64 billion, and then apply that percentage to Raytheon Technologies' total GHG emissions (see section 6). As a manufacturer of a wide range of products and services, the use of an "overall percentage of total revenue = overall percentage of total emissions" approach would provide limited accuracy.

Requesting member NEC Corporation

Scope of emissions

Please select

Allocation level Please select

Allocation level detail

<Not Applicable>

Emissions in metric tonnes of CO2e

Uncertainty (±%)

Major sources of emissions

Verified Please select

Allocation method Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Raytheon Technologies is not able to allocate GHG emissions on a customer by customer basis. The challenges of allocating GHGs to individual products, services, and customers are significant at this time. This is due to the fact that most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. In addition, a large majority of GHG emissions are related to its energy consumption (e.g., electricity and natural gas) at the facilities, such as air conditioning and heating, and it is not possible to allocate energy consumption to various customers. One way to make a gross estimate of allocated emissions would be to use sales figures. Customers could calculate what percent of sales they represent of RTX's total 2020 pro forma sales of \$64 billion, and then apply that percentage to RTX's total GHG emissions (see section 6). As a manufacturer of a wide range of products and services, the use of an "overall percentage of total revenue = overall percentage of total emissions" approach would provide limited accuracy.

Requesting member

Transurban Group

Scope of emissions Please select

Allocation level Please select

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e

Uncertainty (±%)

Major sources of emissions

Verified Please select

Allocation method

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Raytheon Technologies is not able to allocate GHG emissions on a customer by customer basis. The challenges of allocating GHGs to individual products, services, and customers are significant at this time. This is due to the fact that most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. In addition, a large majority of GHG emissions are related to its energy consumption (e.g., electricity and natural gas) at the facilities, such as air conditioning and heating, and it is not possible to allocate energy consumption to various customers. One way to make a gross estimate of allocated emissions would be to use sales figures. Customers could calculate what percent of sales they represent of Raytheon Technologies' total 2020 pro forma sales of \$64 billion, and then apply that percentage to RTX's total GHG emissions (see section 6). As a manufacturer of a wide range of products and services, the use of an "overall percentage of total revenue = overall percentage of total emissions" approach would provide limited accuracy.

Requesting member

U.S. General Services Administration - OMB ICR #3090-0319

Scope of emissions

Please select

Allocation level Please select

Allocation level detail <Not Applicable>

Emissions in metric tonnes of CO2e

Uncertainty (±%)

Major sources of emissions

Verified Please select

Allocation method

Please select

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Raytheon Technologies is not able to allocate GHG emissions on a customer by customer basis. The challenges of allocating GHGs to individual products, services, and customers are significant at this time. This is due to the fact that most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. In addition, a large majority of GHG emissions are related to its energy consumption (e.g., electricity and natural gas) at the facilities, such as air conditioning and heating, and it is not possible to allocate energy consumption to various customers. One way to make a gross estimate of allocated emissions would be to use sales figures. Customers could calculate what percent of sales they represent of RTX's total 2020 pro forma sales of \$64 billion, and then apply that percentage to RTX's total GHG emissions (see section 6). As a manufacturer of a wide range of products and services, the use of an "overall percentage of total revenue = overall percentage of total emissions" approach would provide limited accuracy.

SC1.2

(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

Not applicable.

SC1.3

(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Allocation challenges	Please explain what would help you overcome these challenges	
Customer base is too large and diverse to accurately track emissions to the customer level	Multiple products are made at most sites, spanning many different customers. Most of the GHGs are energy related (electricity and natural gas) so they couldn't be allocated to individual products or customers.	
Diversity of product lines makes accurately accounting for each product/product line cost ineffective	Multiple products are made at most sites, spanning many different customers. Most of the GHGs are energy related so they couldn't be allocated to individual products or customers.	

SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future? No

SC1.4b

(SC1.4b) Explain why you do not plan to develop capabilities to allocate emissions to your customers.

The challenges of allocating GHGs to individual products, services, and customers are significant at this time. This is due to the fact that most of the company's locations work on many products and components for many different customers. Workflow at individual sites for individual customers vary throughout the year. In addition, a large majority of GHG emissions are related to its energy consumption (e.g., electricity and natural gas) at the facilities and it is not possible to allocate energy consumption to various customers. The company would need to install an enterprise wide, metered tracking system that allocated all energy use and process inputs to each of the tens of thousands of products produced annually, along with a method to link that to individual customers. The development of this scheme is cost prohibitive. Raytheon Technologies plans to wait until improved methods and guidance have been developed and tested.

SC2.1

(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.

SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives? No (SC4.1) Are you providing product level data for your organization's goods or services? No, I am not providing data

Submit your response

In which language are you submitting your response? English

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission	Are you ready to submit the additional Supply Chain questions?
I am submitting my response	Investors	Public	Yes, I will submit the Supply Chain questions now
	Customers		

Please confirm below

I have read and accept the applicable Terms