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Accounting Metric	Code	Boeing Metric or Qualitative Disclosure(s) and Disclosure Location(s)
Energy Management		
Total energy consumed	RT-AE-130a.1	Key ESG Data, Page 74 CDP Climate Report ¹
Percentage of grid electricity	RT-AE-130a.1	Key ESG Data, Page 74
Percentage of renewable energy	RT-AE-130a.1	Key ESG Data, Page 74 ; Sustainability Goals, Page 12
Hazardous Waste Management		
Amount of hazardous waste generated	RT-AE-150a.1	Key ESG Data, Pages 75-76
Percentage of hazardous waste recycled	RT-AE-150a.1	Key ESG Data, Pages 75-76
Number and aggregate quantity of reportable spills	RT-AE-150a.2	Key ESG Data, Page 76
Quantity recovered from reportable spills	RT-AE-150a.2	Key ESG Data, Page 76
Data Security		
Description of approach to identifying and addressing data security risks in company operations	RT-AE-230a.2	We rely extensively on information technology systems and networks to operate our company and meet our business objectives. As cyber threats increase in volume and sophistication, the risk to the security of these systems and networks — and to the confidentiality, integrity and availability of the data they house — continues to evolve, requiring constant vigilance and concerted, companywide risk management efforts. Boeing takes a risk-based approach to managing the security of its data and has a documented low-risk appetite for cybersecurity and data protection, while recognizing that business requirements may necessitate adjustments to that risk tolerance. To address these risks, we maintain an extensive network of technical security controls, policy enforcement mechanisms, monitoring systems and management oversight. We also have established a Security Council to strengthen governance and coordination of cyber and physical security activities. While these measures are designed to prevent, detect and respond to unauthorized activity, there is no guarantee that they will be sufficient to prevent or mitigate the risk of a cyberattack or data loss or the potentially serious reputational, operational or financial impacts that may result. A strong partnership exists between IT, Enterprise Security, Corporate Audit, and Legal to ensure identified issues are addressed in a timely manner and incidents are reported to the appropriate regulatory bodies as required.
Description of approach to identifying and addressing data security risks in products	RT-AE-230a.2	Product Security Engineering provides a disciplined approach to the development and sustainment of our products, which is essential to ensuring mission assurance, resiliency and security. Security is integrated into our engineering processes, starting from concept development, ensuring that we develop products that are secure by design. Key cyber attributes and adversity (or threat) to the system are identified during requirements engineering, allocated throughout design, implemented and validated during development, fully tested and supported during sustainment. Additionally, Boeing works to ensure that our products are designed to anticipate, withstand, recover and adapt to cyberattack. Specifically, our security processes ensure that we have high-level requirements to baseline and monitor data flow and system behavior, detect anomalies and actively manage system configuration. The ability of our systems to understand normal operations and rapidly detect and mitigate the abnormal, combined with the security engineering focus of our development processes, provides Boeing’s programs with a proactive approach to risk management. Product Security is also integrated into the Boeing enterprise Incident Response process, and we work seamless with stakeholders to rapidly identify, analyze, and mitigate vulnerabilities and breaches across our portfolio.

1. Boeing participates annually in the CDP Climate Report. Our most recent response is available on our website [here](#) in accordance with the CDP reporting schedule.

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Product Safety		
Number of Airworthiness Directives received	RT-AE-250a.3	53 (see the FAA Dynamic Regulatory System Statistical Summary of Commercial Jet Airplane Accidents)
Fuel Economy and Emissions in Use-Phase		
Revenue from alternative-energy-related products	RT-AE-410a.1	Per ASTM standards, all commercial turbojet airplanes are certified to fly revenue passengers with a blend of up to 50% sustainable aviation fuels derived from biomass and other sustainable sources that can reduce CO ₂ emissions by up to 80% over conventional fossil jet fuel on a life cycle basis. Boeing Commercial Airplanes 2022 revenues were \$25,867 million USD and are listed in our AR , Page 22; CDP ¹ C4.5a.
Description of approach and discussion of strategy to address fuel economy and GHG emissions of products	RT-AE-410a.2	Global Aerospace Safety, Pages 28-30 Innovation and Clean Technology, Pages 33-48 Sustainable Product Life Cycle, Pages 31-32
Materials Sourcing		
Description of the management of risks associated with the use of critical materials	RT-AE-440a.1	AR , Pages 4-5 We are highly dependent on the availability of essential materials, parts and subassemblies from our suppliers and subcontractors. The most important raw materials required for our aerospace products are aluminum (sheet, plate, forgings and extrusions), titanium (sheet, plate, forgings and extrusions) and composites (including carbon and boron). Although alternative sources generally exist for these raw materials, qualification of the sources could take a year or more. During 2022, as a result of the Russia-Ukraine war, we suspended purchasing titanium from Russia. This has not disrupted our operations as we have been able to use inventory on hand and identify alternative sources. Many major components and product equipment items are procured or subcontracted on a sole-source basis. We continue to work with a small number of sole-source suppliers to ensure continuity of supply for certain items.
Business Ethics		
Discussion of processes to manage business ethics risks throughout the value chain	RT-AE-510a.3	Ethical and Compliant Business, Pages 16-17 Ethics and Compliance Anti-Corruption Suppliers: Suppliers are encouraged to model their ethics program in accordance with the Federal Sentencing Guidelines and industry best practices. Boeing believes that our suppliers and partners share the goal of maintaining the highest standards of business conduct as defined in our Boeing Supplier Code of Conduct . This shared goal helps enable compliant company performance across all geographic locations. We also recognize that continued, collaborative partnership between our company, suppliers and other third parties leads to relationships built on trust and respect — which leads to enhanced business performance. Suppliers: https://www.boeingsuppliers.com/supplier_principles.html#/ethics
Activity Metrics		
Production by reportable segment	RT-AE-000.A	AR , Pages 136-144 Orders and Deliveries Patents: 3,938 in 2022 (U.S. and non-U.S.); 60,239 since 1962 (U.S. and non-U.S.)
Number of employees	RT-AE-000.B	156,000 Key ESG Data, Page 77

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Disclosure	TCFD Recommended Disclosure	Sustainability Report Section(s)	Additional Reference(s)
Governance	Describe the Board’s oversight of climate-related risks and opportunities	Governance and Risk Management, Pages 13-14 ; Addressing Climate Change, Pages 54-55	CDP Climate Report ¹ 1.1.b
	Describe management’s role in assessing and managing climate-related risks and opportunities	Governance and Risk Management, Pages 13-14 ; Addressing Climate Change, Pages 54-55	CDP Climate Report ¹ C1.2
Strategy	Describe the climate-related risks and opportunities the organization has identified over the short, medium and long term		CDP Climate Report ¹ C2.3a, C2.4a
	Describe the impact of climate-related risks and opportunities on the organization’s businesses, strategy and financial planning		CDP Climate Report ¹ C2.3a, C2.4a, C3.3, C3.4
	Describe the potential impact of different scenarios, including a 2 degree Celsius scenario, on the organization’s businesses, strategy and financial planning		CDP Climate Report ¹ C3.2.a
Risk Management	Describe the organization’s process for identifying and assessing climate-related risks	Governance and Risk Management, Pages 13-14	CDP Climate Report ¹ C2.1, C2.2, C2.2a
	Describe the organization’s processes for managing climate-related risks	Governance and Risk Management, Pages 13-14	CDP Climate Report ¹ C2.1, C2.2
	Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organization’s overall risk management	Governance and Risk Management, Pages 13-14	CDP Climate Report ¹ C2.1, C2.2
Metrics and Targets	Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk-management process		CDP Climate Report ¹ C4.1, C4.2, C9.1
	Disclose Scope 1, Scope 2 and, if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks	Key ESG Data, Page 74	CDP Climate Report ¹ C6.1, C6.3, C6.5
	Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets	2030 Goals, Page 12 ; Addressing Climate Change, Pages 54-55 ; Sustainable Operations, Pages 52-61	CDP Climate Report ¹ C4.1, C4.1a, C4.2, C4.2b

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U.N. Sustainable Development Goals (SDG) are a universal call to action to end poverty, protect the planet, and improve the lives and prospects of everyone, everywhere.¹ Boeing supports all 17 SDGs and has identified 10 goals of focus, listed below and on the following pages, in which we are committed to outcomes that make the world a better place for all.

Goal	Key SDG Sub-Indicators	2023 Progress
 <div>Good Health and Well-Being</div>	3.3 3.7 3.9	<ul style="list-style-type: none">Boeing is celebrating 10 years of our Go for Zero initiative, which prioritizes workplace safety. Since Go for Zero's introduction in 2013, Boeing has seen significant reductions in serious safety accidents and injuries.Boeing's Lifesaving Rules are intended to reduce or eliminate risks created when around or performing processes recognized as High Hazard Processes, preventing life-critical incidents.In 2022, Boeing hosted more than 60 well-being webinars, with 20,000+ employees attending. Topics included work/life balance, health and well-being for various minority groups, fertility wellness, and physical and mental health.
 <div>Quality Education</div>	4.3 4.4 4.7	<ul style="list-style-type: none">Amideast and Boeing announced an expanded partnership to support more Egyptian young people through STEM education with a focus on sustainability. The expanded partnership will include STEM programs in robotics, graphics, animation, 3D printing, programming and web development; a STEM entrepreneurship competition; and a new STEM Program for Climate Sustainability.In 2022, about 10,000 employees received tuition assistance for degree and nondegree programs.In 2022, Learn@Boeing was leveraged by 77,000 employees to develop knowledge and skills for their current role or to prepare for a future role.
 <div>Gender Equality</div>	5.5.2	<ul style="list-style-type: none">90% of candidate interview slates for manager- or director-level roles included at least one woman globally, or at least one woman or racial/ethnic minority in the U.S., showing that specific, measurable and financially relevant accountability has an effect on incentivizing the right behaviors that naturally lead to more diverse outcomes. Our 2023 target is to increase participation to 92%.Boeing's office in Saudi Arabia has doubled representation of women over the past six years in line with Saudi Arabia's Vision 2030, which aims to increase gender diversity in the country's workforce. Boeing continues to support workforce diversity locally by partnering with nonprofits that help women from underserved communities join the labor market, and by funding research with Saudi universities such as Princess Nora University, the largest all-women university in the world.In partnership with the Boeing Women Inspiring Leadership Business Resource Group (BRG), supplier Mitsubishi Heavy Industries (MHI) hosted workshops in Vietnam and Japan to increase awareness of gender gaps and inspire leaders to take ownership for equity in the workplace. After the success of the workshops, both companies have agreed to collaborate on more events in 2023, including quarterly roundtable discussions.
 <div>Clean Water and Sanitation</div>	6.6	<ul style="list-style-type: none">Boeing's Aurora Bridge Bioswale project was designed to clean up polluted stormwater coming off the bridge, filtering the water and protecting the salmon in the canal below. It is one of 10 enhanced rain gardens at Boeing sites across Washington state.Boeing partners with River LA's Resilient Rio 51 program (RR51) to engage low-income, disadvantaged urban youth with the LA River through recreational activities combined with river-oriented curricula and leadership development. The program fosters river stewardship and teaches students how to advocate for and apply sustainability practices to their lives.Boeing's partnership with DigDeep on the Navajo Water Project brings safe, clean running water to homes in the Navajo nation, as well as septic systems, education and skilled job creation.
 <div>Affordable and Clean Energy</div>	7.2 7.3	<ul style="list-style-type: none">Boeing is collaborating with suppliers to ensure all commercial airplanes we deliver by 2030 will be compatible with 100% sustainable aviation fuel (SAF). In 2022, we purchased 5.6 million gallons (21.2 million liters) of blended SAF to support our commercial operations.Boeing and NASA continued their partnership testing the emissions of SAF. This year, the team conducted tests on the 2022 Boeing ecoDemonstrator, a 777-200ER (Extended Range) with Rolls-Royce Trent 800 engines and a 787-10 with GEnx-1B engines.Boeing has set a goal of achieving 100% renewable energy in operations by 2030. We achieved 35% renewable electricity in 2022 by increasing use of renewable electricity and purchasing renewable energy credits.

1. Source: <https://www.un.org/sustainabledevelopment/development-agenda/>

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 <div>Decent Work and Economic Growth</div>	8.2 8.3 8.4	<ul style="list-style-type: none">Through the Boeing Technical Apprenticeship Program (BTAP) we are striving to place at least 1,000 technical apprentices into high-skill, technical roles by 2025. The first Cybersecurity apprenticeship pilot cohort graduated in 2022, and 100% of participants are being placed in Boeing jobs.Boeing and its employees donated \$185.7 million and contributed 366,000 volunteer hours to 13,371 community partners in 2022 to help build better communities worldwide.Boeing contracts with approximately 11,000 Tier-1 suppliers globally. In 2022, we spent nearly \$4.6 billion with diverse suppliers and small businesses.
 <div>Industry, Innovation and Infrastructure</div>	9.1.2 9.3.1 9.4.1 9.5.1 9.5.2 9.B.1	<ul style="list-style-type: none">Boeing debuted The Boeing Cascade Climate Impact Model (Cascade) at the Farnborough International Airshow in 2022. This web application uses digital technical data pulled from across the world to visualize how introducing various sustainable aviation options would impact global emissions, providing a data-driven way for our stakeholders to make informed decisions about how to reach the commercial aviation industry’s net-zero 2050 ambition.Boeing’s Wisk technology joint venture announced the world’s first self-flying, all-electric four-passenger vertical takeoff and landing (eVTOL) air taxi in October, following the securing of \$450 million from Boeing to advance certified autonomous electric flight in January. Wisk will be the first candidate for certification of an eVTOL aircraft in the U.S.In January, GE Aviation announced it had selected Boeing and Aurora to support flight tests of its hybrid electric propulsion system, a big step forward in exploring electric for the future of commercial flight to reduce carbon emissions.
 <div>Reduced Inequalities</div>	10.2.1 10.3.1 10.B.1	<ul style="list-style-type: none">Since Boeing and the Thurgood Marshall College Fund (TMCf) began their partnership in 2018, Boeing has quadrupled the number of interns — many of whom return for a full-time position — hired through partner Historically Black Colleges and Universities (HBCUs) and extended the company’s reach to more than 6,800 HBCU students. In 2022 we announced a new \$8 million, multiyear partnership that will support campus recruitment initiatives, career immersion activities, TMCf Leadership Institute programming and student scholarships through 2026.For the second year in a row, we saw exit rates for women, men and teammates of all races all within a point of each other. Our 2025 Aspiration is to “achieve parity in retention rates of all groups,” and we have been pleased to see our resignation rates are at parity across genders and U.S. racial/ethnic identities in light of the “great resignation” other companies are seeing, particularly among women.As of March 2023, 3,300 teammates from 33 countries registered to be Inclusion Ambassadors, committed to advancing inclusion on their own teams. These Inclusion Ambassadors join a monthly call where they learn together, adopt new inclusion tools, share insights and commit to taking action.
 <div>Responsible Consumption and Production</div>	12.2 12.4 12.5 12.6 12.7	<ul style="list-style-type: none">Boeing has set targets for reducing Scope 1 and Scope 2 greenhouse gas (GHG) emissions by 25%. In 2022, we achieved a 31% reduction in GHG emissions compared to 2017. GHG emissions were 8% lower than anticipated for the year.Employees across the globe took more than 231,000 60-second actions for the environment for Earth Day on April 22 to May 31.Boeing looks at every stage of the product life cycle through a sustainability lens, from design through to how materials are recycled after an aircraft is retired. Ninety percent of the parts and materials in Boeing aircraft are reused and recycled across aerospace and other industries.