

Alphabet SASB and TCFD Index

Alphabet discloses environmental, social, and governance information across a number of reports, blogs, and websites. The index below maps our most recent public disclosures available as of July 15, 2024 to the Sustainability Accounting Standards Board (SASB) and the Task Force on Climate-Related Financial Disclosures (TCFD) frameworks. We are on a continuous journey to advance our initiatives and reporting, and will continue to evaluate and enhance our disclosures as we make progress.

SASB Index

Our Index references SASB’s industry standards for Internet Media & Services (“IM”), our identified primary industry, and includes select metrics from industry standards Software & IT Services (“SI”) and Hardware (“HW”) to better align with our business. In certain instances, we have not reported the specific metrics suggested by SASB, and instead point to disclosures describing how we evaluate and manage these matters within our business.

Topic	Code	Metric	Alphabet’s Related Disclosures
Environmental Footprint of Hardware Infrastructure	TC-IM-130a.1	(1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable	2024 Environmental Report (see Environmental data tables, page 76)
	TC-SI-130a.1		2023 CDP Climate Change Response (C8)
	TC-IM-130a.2 TC-SI-130a.2	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress	2024 Environmental Report (see Our operations - Water stewardship - Advancing responsible water use, page 44; Our operations - Water stewardship - Benefiting watersheds and communities, page 46; Environmental data tables, page 78)
	TC-IM-130a.3 TC-SI-130a.3	Discussion of the integration of environmental considerations into strategic planning for data center needs	2024 Environmental Report (see AI for sustainability - Responsibly managing the resource consumption of AI, pages 12-13; Our operations - Net-zero carbon - Reducing carbon emissions - Scope 2 emissions - Energy management, page 33; Our operations - Water stewardship - Advancing responsible water use - Data centers, page 44; Our operations - Circular economy - Reducing data center waste, page 53)
Data Privacy, Advertising Standards & Freedom of Expression	TC-IM-220a.1	Description of policies and practices relating to targeted advertising and user privacy	Safety Center Ads and Data How we Make Money with Advertising Privacy Policy Privacy Notice - Family Link
	TC-IM-220a.2 TC-SI-220a.2	Number of users whose information is used for secondary purposes	Privacy Policy Google Transparency Report (see Global requests for user information)
	TC-IM-220a.3 TC-SI-220a.3	Total amount of monetary losses as a result of legal proceedings associated with user privacy	2024 Q1 10-Q (disclosed if material under Legal Matters, page 23) 2023 10-K (disclosed if material under Legal Matters, page 77)
	TC-IM-220a.4 TC-SI-220a.4	(1) Number of law enforcement requests for user information, (2) number of users whose information was requested, (3) percentage resulting in disclosure	Google Transparency Report (see Global requests for user information)

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Topic	Code	Metric	Alphabet's Related Disclosures
Data Privacy, Advertising Standards & Freedom of Expression	TC-IM-220a.5	List of countries where core products or services are subject to government-required monitoring, blocking, content filtering, or censoring	Google Transparency Report (see Traffic and disruptions to Google)
	TC-SI-220a.5		
Data Privacy, Advertising Standards & Freedom of Expression	TC-IM-220a.6	Number of government requests to remove content, percentage compliance with requests	Google Transparency Report (see Government requests to remove content)
	TC-SI-220a.6		
Data Security	TC-IM-230a.1	(1) Number of data breaches, (2) percentage involving personally identifiable information (PII), (3) number of users affected	Safety Center Privacy Policy
	TC-SI-230a.1		
	TC-IM-230a.2	Description of approach to identifying and addressing data security risks, including use of third-party cybersecurity standards	2023 10-K (see Risks Related to our Industry, pages 15-18) Safety Center Privacy Policy Compliance Resource Center
	TC-SI-230a.2		
Product Security	TC-HW-230a.1	Description of approach to identifying and addressing data security risks in products	2023 10-K (see Risks Related to our Industry, pages 15-18) Safety Center Privacy Policy
Employee Recruitment, Inclusion & Performance / Recruiting & Managing a Global, Diverse & Skilled Workforce / Employee Diversity & Inclusion	TC-IM-330a.3	Percentage of (1) gender and (2) diversity group representation for (a) executive management, (b) non-executive management, (c) technical employees, and (d) all other employees	2024 Diversity Annual Report (see Google Intersectional Workforce Representation Data, pages 63-92) 2023 EEO-1 Report
	TC-SI-330a.3		
	TC-HW-330a.1		
Product Lifecycle Management	TC-HW-410a.1	Percentage of products by revenue that contain IEC 62474 declarable substances	Restricted Substances Specification
	TC-HW-410a.2	Percentage of eligible products, by revenue, meeting the requirements for EPEAT registration or equivalent	UL ECOLOGO Certified Products Pixel 8a , Pixel 8 , Pixel 8 Pro , Pixel Fold , Pixel 7a , Pixel 7 , Pixel 7 Pro , Pixel Tablet with Charging Speaker Dock
	TC-HW-410a.3	Percentage of eligible products, by revenue, certified to an energy efficiency certification	Pixel Tablet , Pixel Tablet with Charging Speaker Dock , Nest Learning Thermostat , Nest Thermostat
	TC-HW-410a.4	Weight of end-of-life products and e-waste recovered, percentage recycled	2024 Environmental Report (see Environmental data tables - Data center hardware refurbishment and reuse, page 78)

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Topic	Code	Metric	Alphabet's Related Disclosures
Supply Chain Management	TC-HW-430a.1	Percentage of Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent, by (a) all facilities and (b) high-risk facilities	2023 Supplier Responsibility Report (see Managing supplier adherence to our SCOC: Site assessments, page 23; Using audits to identify—and Correct—noncompliance, pages 25-29)
	TC-HW-430a.2	Tier 1 suppliers' (1) non-conformance rate with the RBA Validated Audit Process (VAP) or equivalent, and (2) associated corrective action rate for (a) priority non-conformances and (b) other non-conformances	2023 Supplier Responsibility Report (see Managing supplier adherence to our SCOC: Site assessments, page 23; Using audits to identify—and Correct—noncompliance, pages 25-29)
Materials Sourcing	TC-HW-440a.1	Description of the management of risks associated with the use of critical materials	2023 Supplier Responsibility Report (see Strengthening Communities - Sourcing minerals responsibly, pages 32-33) 2023 Conflict Minerals Report Conflict Minerals Policy
Intellectual Property Protection & Competitive Behavior	TC-IM-520a.1	Total amount of monetary losses as a result of legal proceedings associated with anticompetitive behavior regulations	2024 Q1 10-Q (disclosed if material under Legal Matters, page 23)
	TC-SI-520a.1		2023 10-K (disclosed if material under Legal Matters, page 77)
Managing Systemic Risks from Technology Disruptions	TC-SI-550a.1	Number of (1) performance issues and (2) service disruptions; (3) total customer downtime	Google Transparency Report (see Traffic and disruptions to Google)
	TC-SI-550a.2	Description of business continuity risks related to disruptions of operations	2023 10-K (See Risk Factors, pages 11-24)

TCFD Index

Our Index builds on our longstanding practice of reporting our climate-related activities to the CDP and in our Environmental Reports. We have formally expressed our [support](#) for the TCFD reporting framework and its seven principles for climate disclosure. We believe that our voluntary disclosures on climate-related matters are consistent with the recommendations of the TCFD framework.

Core Elements	Recommended Disclosures	Alphabet's Related Disclosures
Governance: Disclose the organization's governance around climate-related risks and opportunities	Describe the board's oversight of climate-related risks and opportunities	2024 Environmental Report (see Appendix - Sustainability governance, page 61) Alphabet's Audit and Compliance Committee's charter 2023 CDP Climate Change Response (C1.1a and C1.1b)
	Describe management's role in assessing and managing climate-related risks and opportunities	2024 Environmental Report (see Appendix - Sustainability governance, page 61) 2023 CDP Climate Change Response (C1.2)
Strategy: Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning where such information is material	Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	2024 Environmental Report (see Our operations - Net-zero carbon, page 30-41; Appendix - Risk management - Climate-related risks, page 61) 2023 CDP Climate Change Response (C2.1a, C2.2a, C2.3a, and C2.4a)
	Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.	2024 Environmental Report (see Appendix - Risk management - Climate-related risks, page 61) 2023 CDP Climate Change Response (C3.1, C3.2a, C3.3, and C3.4)
	Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	2024 Environmental Report (see Appendix - Risk management - Climate-related risks, page 61) 2023 CDP Climate Change Response (C3.2a)

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Risk Management: Disclose how the organization identifies, assesses, and manages climate-related risks

Describe the organization's processes for identifying and assessing climate-related risks.

[2024 Environmental Report](#)
(see Appendix - Risk management - Climate-related risks, page 61)
[2023 CDP Climate Change Response](#)
(C2.2 and C3.2a)

Describe the organization's processes for managing climate-related risks.

[2024 Environmental Report](#)
(see Our operations - Net-zero carbon - Reducing carbon emissions - Scope 2 emissions - Energy management, page 33; Appendix - Risk management - Climate-related risks, page 61)
[2023 CDP Climate Change Response](#)
(C2.1b, C2.2a, and C2.3a)

Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.

[2024 Environmental Report](#)
(see Appendix - Risk management - Climate-related risks, page 61)
[2023 CDP Climate Change Response](#)
(C2.2)

Metrics & Targets: Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material

Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.

[2023 CDP Climate Change Response](#)
(C2.3a, C2.4a, C4.2a, and C6)
[2024 Environmental Report](#)
(see Introduction - Targets and progress summary, page 7; Appendix - Environmental data tables, pages 75-79)

Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.

[2023 CDP Climate Change Response](#)
(C6)
[2024 Environmental Report](#)
(see Our operations - Net-zero carbon - Our net-zero goal, page 31; Appendix - Environmental data tables, pages 75-76)

Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.

[2023 CDP Climate Change Response](#)
(C4.1a and C4.2a)
[2024 Environmental Report](#)
(see Introduction - Targets and progress summary, page 7; Our operations - Net-zero carbon - Our net-zero goal, page 31; Our operations - Reducing carbon emissions - Scope 2 emissions - Carbon-free energy, page 35; Appendix - Targets data table and Environmental data tables, pages 74-78)

The disclosures referenced in our Index may contain projections, future estimates, plans, expectations, goals, and other forward-looking statements. Forward-looking statements are based on current expectations and assumptions that are subject to certain risks and uncertainties, which could cause our actual results to differ materially from those reflected in the forward-looking statements. Except as required by law, we undertake no obligation to correct, revise, or update any information included in the disclosures.