

Alphabet ESG Index

Alphabet discloses Environmental, Social, and Governance (ESG) information across a number of reports, blogs and websites. The ESG index below maps our most recent public disclosures available as of April 2022, to the Sustainability Accounting Standards Board (SASB) and the Task Force on Climate-Related Financial Disclosures (TCFD) framework. We are on a continuous journey to advance our ESG initiatives and reporting, and will continue to evaluate and enhance our ESG 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	2021 Environmental Report (see Our Operations – Energy, pg. 11)
	TC-SI-130a.1		
	TC-IM-130a.2 TC-SI-130a.2	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress	2021 Environmental Report (see Our Operations – Water, pg.11)
	TC-IM-130a.3 TC-SI-130a.3	Discussion of the integration of environmental considerations into strategic planning for data center needs	2020 Environmental Report (see Designing Efficient Data Centers, pg. 20-28)
Data Privacy, Advertising Standards & Freedom of Expression	TC-IM-220a.1 TC-SI-220a.1	Description of policies and practices relating to behavioral 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
	TC-IM-220a.3 TC-SI-220a.3	Total amount of monetary losses as a result of legal proceedings associated with user privacy	2022 Q1 10-Q (disclosed if material under Legal Matters, pg. 24-25)
	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	Requests for User Information
	TC-IM-220a.5 TC-SI-220a.5	List of countries where core products or services are subject to government-required monitoring, blocking, content filtering, or censoring	Traffic and disruptions
	TC-IM-220a.6	Number of government requests to remove content, percentage compliance with requests	Government requests to remove content

Topic	Code	Metric	Alphabet's Related Disclosures
Data Security	TC-IM-230a.1 TC-SI-230a.1	(1) Number of data breaches, (2) percentage involving personally identifiable information (PII), (3) number of users affected	Safety Center Privacy Policy
	TC-IM-230a.2 TC-SI-230a.2	Description of approach to identifying and addressing data security risks, including use of third-party cybersecurity standards	2021 10-K (see Risks Related to our Industry, pg. 14-16) Safety Center Privacy Policy Compliance Resource Center
Product Security	TC-HW-230a.1	Description of approach to identifying and addressing data security risks in products	2021 10-K (see Risks Related to our Industry, pg. 14-16) Safety Center Privacy Policy
Employee Recruitment, Inclusion & Performance / Recruiting & Managing a Global, Diverse & Skilled Workforce / Employee Diversity & Inclusion	TC-IM-330a.3	Percentage of gender and racial/ethnic group representation for (1) management, (2) technical staff, and (3) all other employees	2021 Diversity Annual Report (see Looking Ahead, pg. 47-62)
	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	2020 Environmental Report (see Building Better Devices and Services, pg. 53-62) Restricted Substances Specification
	TC-HW-410a.2	Percentage of eligible products, by revenue, meeting the requirements for EPEAT registration or equivalent	2020 Environmental Report (see Consumer Hardware Devices, pg. 55-56) Product Environmental Reports: Pixel 6 , Pixel 6 Pro , Pixel 5a with 5G , Pixel 5 , Pixel 4a (5G) , and Pixel 4a
	TC-HW-410a.3	Percentage of eligible products, by revenue, meeting ENERGY STAR® criteria	2020 Environmental Report (see Consumer Hardware Devices, pg. 55-56) Product Environmental Reports: Pixelbook , Pixelbook Go , Pixel Slate , Nest Learning Thermostat , Nest Thermostat 2020 , and the Nest Thermostat E
	TC-HW-410a.4	Weight of end-of-life products and e-waste recovered, percentage recycled	2021 Environmental Report (see Waste – data center hardware refurbishment and reuse, pg. 11) 2020 Environmental Report (see Embedding Circularity, pg. 24)

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	2021 Supplier Responsibility Report (see Expanding our Assessment Approach, pg. 18; Using Audits to Identify—and Correct—Noncompliance, pg. 19-20)
	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	2021 Supplier Responsibility Report (see Expanding our Assessment Approach, pg. 18; Using Audits to Identify—and Correct—Noncompliance, pg. 19-20; Appendix, Pg. 39-40)
Materials Sourcing	TC-HW-440a.1	Description of the management of risks associated with the use of critical materials	2021 Supplier Responsibility Report (see Strengthening Communities, pg. 23-26) 2020 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	2022 Q1 10-Q (disclosed if material under Legal Matters, pg. 24-25)
	TC-SI-520a.1		
Managing Systemic Risks from Technology Disruptions	TC-SI-550a.1	Number of (1) performance issues and (2) service disruptions; (3) total customer downtime	Traffic and disruptions
	TC-SI-550a.2	Description of business continuity risks related to disruptions of operations	2021 10-K (see Risk Factors, pg. 10-24)

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	Alphabet's Audit and Compliance Committee's charter 2021 CDP Response (C1.1a and C1.1b)
	Describe management's role in assessing and managing climate-related risks and opportunities	2021 CDP Response (C1.2a)
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.	2021 CDP Response (C2.1a, C2.2a, C2.3a and 2.4a)
	Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.	2021 CDP 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.	2021 CDP Response (C3.2a)
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.	2021 CDP Response (C2.2, C3.2a)
	Describe the organization's processes for managing climate-related risks.	2021 CDP 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.	2021 CDP Response (C2.2)

Core Elements

Recommended Disclosures

Alphabet's Related Disclosures

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.

[2021 CDP Response](#)
(C2.3a, C2.4a, C4.2a and C6)
[2021 Environmental Report](#)
(pg. 10-12)

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

[2021 CDP Response](#)
(C6)
[2021 Environmental Report](#)
(pg. 10-12)

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

[2021 CDP Response](#)
(C4.1a and C4.2a)
[2021 Environmental Report](#)
(pg. 7-9)