

Verification Review of the CY23 Greenhouse Gas Emissions Inventory

Prepared for:

logitech

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Prepared by:

Isabel Glenn | Technical Specialist I, Climate Services
SCS Global Services

2000 Powell Street, Ste. 600, Emeryville, CA 94608
USA
+1.510.452.8000 main | +1.510.452.8001 fax
www.SCSglobalServices.com

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Table of Contents

1.0 Introduction	1
2.0 Scope	2
3.0 Verification Opinion	4
4.0 Verification Procedures.....	5
5.0 Assurance Findings.....	7
Appendix A: Logitech Documents Reviewed	8
Appendix B: List of Logitech Major Offices for CY23	9

1.0 Introduction

Logitech's scope 1, 2, and 3 greenhouse gas (GHG) emissions inventory for CY23 was reviewed for conformance with the World Resource Institute's (WRI's) Greenhouse Gas Protocol¹. The scope 1, 2, and 3 GHG inventory report, calculation worksheets, and supporting documentation were provided for the verification review. The findings of the review are intended to provide limited assurance that Logitech's GHG emissions are in conformance with the relevant requirements and guidance of the GHG Protocol.

The review focused on the integrity of the input activity data provided by Logitech, the GHG emission estimation methodology, and the accuracy of calculated results. The verification is based on a review of the documentation provided by Logitech, refer to Appendix A for a complete list of the documents reviewed.

2.0 Scope

Objective

The objective of this verification is to provide interested parties with an objective, independent judgment regarding the information, data, and emission estimates for Logitech's GHG inventory for CY23. Specifically,

- Evaluate Logitech's measurements and reporting of scope 1, 2, 3 emissions to a limited level of assurance.
- Evaluate whether anything comes to the attention of the reviewer as to Logitech's reporting of all applicable emissions sources, utilization of appropriate software and databases, and the accuracy, completeness, consistency, and transparency of the reported data.
- Evaluate Logitech's GHG inventory is in conformance with the specified verification criteria.

Scope	
Organization	Logitech
Industry Sector	Technology Manufacture
Reporting Boundary	CY23: 01 January 2023 – 31 December 2023
Geographic Boundary	Global
Facilities, physical infrastructure, activities, technologies, and processes	Production facility, offices, products, and associated value chain
Organizational Boundary	Operational Control
GHG Gases	CO ₂ , CH ₄ , N ₂ O, HFCs, HCFCs
GHG Sources, Sinks, and/or Reservoirs	Scope 1 - Natural gas, diesel, petrol, refrigerants Scope 2 - Electricity Scope 3 - Categories 1-12
Assurance level	Limited
Treatment of Materiality	+/- 5% quantitative per scope; qualitative based upon requirements of reporting criteria

¹ Greenhouse Gas Protocol. Corporate Value Chain (Scope 3) Accounting and Reporting Standard. World Resource Institute

SCS conducted an assessment of Logitech’s reported GHG emissions in scopes 1, 2, and all relevant scope 3 categories for CY23 against the requirements of WRI’s GHG Protocol. A desk review of the reported GHG emissions expressed as CO₂e, as well as the estimation methodologies and supporting data, was conducted by SCS using documentation supplied by Logitech as the basis for the evaluation. The GHG emission inventory includes the following scope 3 categories:

<i>Category</i>	<i>Description</i>
1	Purchased goods and services
2	Capital goods
3	Fuel and energy related activities not included in scopes 1 and 2
4	Upstream transportation and distribution
5	Waste generated in operations
6	Business travel
7	Employee commuting
8	Upstream leased assets
9	Downstream transportation and distribution
10	Processing of sold products
11	Use of sold products
12	End-of-life treatment of sold products

The following scope 3 GHG categories were excluded:

<i>Category</i>	<i>Description</i>	<i>Justification</i>
13	Downstream Leased Assets	Not relevant
14	Franchises	Not relevant
15	Investments	Relevant, but not material based on estimations from available data ²

Materiality

Omissions, misrepresentations, or errors that can be quantified and would result in discrepancies of more than 5% with respect to total CO₂e emissions declared are considered material.

Criteria

The verification assessment was conducted based on the requirements.

- World Resources Institute/World Business Council for Sustainable Development’s “The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)” dated March 2004.
- World Resources Institute/World Business Council for Sustainable Development’s “Scope 2 Guidance Document: An Amendment to the GHG Protocol Corporate Standard” dated 2015.
- World Resources Institute/World Business Council for Sustainable Development’s “Corporate Value Chain (Scope 3) Accounting and Reporting Standard” dated 2011.
- SCS-108 Certification Standard for Carbon Neutral Entities, Buildings, Products and Services Version 1.0.

² Review of Investment schedule provided by Logitech's Sustainability Team

Verification Methodology

A desk review of the reported GHG emissions expressed as CO₂e, as well as the estimation methodologies and supporting data, was conducted by SCS using documentation supplied by Logitech as the basis for the evaluation. Logitech provided additional clarification of methodologies through interviews with key members of the Logitech team.

The list of documents that Logitech provided is summarized in Appendix A. SCS examined the methodology documentation, calculation tools, and other supporting evidence provided, for each of the reported GHG emission sources.

A risk assessment was completed which included an initial review of GHG inventory data and the structure of the GHG accounting and management systems and processes.

The risk assessment is utilized to identify potential areas within the inventory data and management processes of higher risk and identify audit activities to target these areas for further evaluation and to guide the remainder of the audit activities. The results of the risk assessment were used to develop the Verification Plan and Evidence Gathering Plan used to conduct the remainder of verification activities.

For all categories, emission calculations were checked for accuracy and verified by recalculating the results using data provided, where possible, for the verification review. Additionally, all emission factors were checked for appropriate source references and consistency. Estimation methodologies used for each source category were reviewed and found to be appropriate and correctly applied.

SCS also verified that Logitech purchased and retired sufficient carbon offsets and carbon removals to neutralize its corporate carbon footprint. SCS verified this aspect of Logitech's program through review of the retirement certificates that Logitech provided from established registries with independently verified instruments and retirements.

The purchase of offsets via this method also guarantees that they have been verified by an independent third party and were only issued after the emissions reductions had taken place. Publicly available project documentation for these offsets can be found online at each independent and credible registry website.

The quantification of NF₃, SF₆, and other appropriate groups of greenhouse gases (HFCs, etc.) in metric tons of CO₂e was done only for the categories with spend-based activity data due to the availability of emission factors in the database. In all other instances, these groups of high-emitting GHGs can be assumed as zero as they are immaterial and not relevant to Logitech's business operations (e.g., PFCs).

3.0 Verification Opinion

Based upon the reporting scope, criteria, objectives, and agreed upon level of assurance, SCS has issued the following verification opinion:

Positive **Verification** (Limited Assurance) – No evidence was found that the GHG assertion was not prepared in all material respects with the reporting criteria.

Qualifications: None

4.0 Verification Procedures

A summary of the outcomes of the verification review for Logitech’s scope 1, 2 and 3 GHG emission inventory is presented below.

Table 1 summarizes carbon reductions achieved by Logitech in CY23.

Table 1. Reductions - Actual

Reduction Actual	CY23 Carbon (MT CO ₂ e)
Use of post-consumer recycled plastic	25,066
Use of low-carbon aluminum	13,049
Optimizing Printed Circuit Boards (PCB)	2,647
Steel plate removal	1,623
Other Initiatives	4,942
Renewable electricity: our production facility	10,729
Renewable electricity: our offices	1,474
Renewable electricity: our suppliers	79,267
Total	138,797

Logitech measures the percentage of renewable electricity used by its production facility and Major Offices³, which green utility contracts and EAC purchases are taken into consideration. Table 3 below shows the percent renewable electricity achieved by Logitech in CY23 on this basis.

³ All of Logitech’s offices are leased and shared spaces. Logitech’s Major Offices are the largest offices that typically account for 80% of total floorspace. The Major Offices for the CY23 reporting period are shown in Appendix B.

Table 2. Percent Renewable Electricity

Electricity	CY23 MWh
Total electricity	24,709
Renewable electricity	23,201
Percent Renewable Electricity	94%

Tables 3 and 4 below summarize Logitech’s reported full GHG inventory and scope 1, 2 and 3 GHG emissions for CY23, respectively.

Table 3. CY23 GHG inventory for Logitech.

Scope	Description	MT CO ₂ e	% Contribution
1	Direct Emissions	342	0.03%
2	Indirect Emissions from Purchased Electricity (market-based) ⁴	837	0.07%
3	All other Indirect Emissions	1,239,203	99.90%
Total		1,240,382	100.00%

Table 4. CY23 Scope 3 GHG emissions for Logitech.

S3 Category	Description	MT CO ₂ e	% Scope 3 Contribution
1	Purchased goods and services	726,024	58.59%
2	Capital goods	38,399	3.10%
3	Fuel-and-energy-related activities	3,322	0.27%
4	Upstream transportation and distribution	45,654	3.68%
5	Waste generated in operations	37	0.00%
6	Business travel	8,545	0.69%
7	Employee commuting	10,528	0.85%
8	Upstream leased assets	905	0.07%
9	Downstream transportation and distribution	28,499	2.30%
10	Processing of sold products	300	0.02%
11	Use of sold products	322,086	25.99%
12	End of life treatment of sold products	54,904	4.43%
Total		1,239,203	100.00%

⁴ Location-based emissions during the same period were 13,040 MT CO₂e

Verified Purchases of Offsets or Removals

Tables 5 and 6 below summarize Logitech’s purchase of carbon offsets and carbon removals.

Table 5. CY23 Carbon Offsets Purchased by Logitech.

#	Offset Project	Project ID	CY23 Carbon (MT CO _{2e})
1	Xinjiang Hami Southeast Wind Zone Yandun Third Wind Farm Project	CER8555	80,000
2	Adoni+Cumbum-Solar-AP Solar, India	GSF11405	184,148
3	Solar Power Project by Renew Solar Power Private Limited. (Solar, India)	VCS1851	218,156
4	Katingan Peatland Restoration and Conservation Project	VCS1477	100,000
5	Inner Mongolia Chao’er Improved Forest Management Project	VCS1529	134,812
6	Henan Funiushan Solar Cooker Project Phase I	GS7433	100,000
7	Carbon Efficient Cooking Programme-VPA1	GS10967	236,087
8	Household Biogas in Rural India	V3245	6,644
9	Displacement Of Firewood	V3161	16,167
10	Grouped Projects for Mekong River Delta Water Purifier	V2581	43,913
		TOTAL	1,119,927

Table 6. CY23 Carbon Removals Purchased by Logitech.

#	Offset Project	Project ID	CY23 Carbon (MT CO _{2e})
1	Xiguan Afforestation	Verra: 1865 With CCNB	75,671
2	Hechu Afforestation	Verra: 1855 With CCNB	46,106
		TOTAL	121,831

Table 7. CY23 Total Carbon Offsets and Carbon Removals Purchased by Logitech

#	Purchases	CY23 Carbon (MT CO _{2e})
1	Carbon Offsets	1,119,927
2	Carbon Removals	121,831
		TOTAL
		1,241,758

5.0 Assurance Findings

Scope 1, 2, and 3 data checks were conducted according to a limited level of assurance. SCS reviewed Logitech’s data, the methodologies used and GHG emission estimates for CY23 as described above. Based on the verification procedures performed and evidence obtained, no matters have come to the attention of the audit team to cause the verification body to believe that the scope 1, 2 and 3 emissions assertion was materially misstated.

The achievement of Carbon Neutrality for Logitech, is communicated through an SCS certificate (SCS-CN-00084).

Appendix A: Logitech Documents Reviewed

- Spreadsheet: FY24 NFM & Impact Report Audit Record - CY23 CCF
- Spreadsheet: CY23 CCF - Frozen 2024-05-08
- Spreadsheet: CCF Category 2 Capital Goods
 - Document: Logitech Mail - Carbon accounting - Capital goods spend in CY23.pdf
- Spreadsheet: CCF Category 3 Fuel and Energy Related Activities Not Included in Scope 1 or Scope 2
- Spreadsheet: CCF WfH Calculation
- Spreadsheet: CY23 EOL for CCF - Live
- Spreadsheet: CY23 Shipments Report Q1-Q4
- Spreadsheet: Suzhou Dashboard
- Spreadsheet: CY23 Workplace (Office) Survey
- Presentation (refurbished products model): 2023-05 LCA Phases new vs Refurb
- Spreadsheet: Inbound LogiLoCC CY23 FINAL - LogiLoCC Inbound Final
- Spreadsheet: Indirect Spend Calculation CY23.xlsx
- Emission Factors
 - Spreadsheet: Mastersheet: Emissions Factors
- Carbon Reduction Programs
 - Spreadsheet: Rangoon Metal Plate Removal - C&P KBD
 - Spreadsheet: SKU Tracker for Low-Carbon Aluminum
 - Spreadsheet: SKU Tracker for Other Initiatives
 - Spreadsheet: SKU Tracker for PCB Optimisation Savings - All BGs
- Renewable Electricity Programs
 - Spreadsheet: Suzhou Dashboard
 - Spreadsheet: CY23 Workplace (Office) Survey
 - Spreadsheet: CY23 RE Summary for SCS with tabs for
 - Suppliers
 - Offices & Suzhou
 - RE% calculation
- Offsets and Removals
- Spreadsheet: Investment schedule for Sustainability Team

Appendix B: List of Logitech Major Offices for CY23

- WP0041-Lausanne
- WP0120-Cork
- WP0083-Tokyo
- WP0056-Nijmegen
- WP0031-Hsinchu (HQ)
- WP0128-San Jose
- WP0016-Chennai
- WP0012-Camas
- WP0074-Shanghai
- WP0129-Milpitas
- WP0034-Irvine
- WP0029-Hong Kong Kowloon
- WP0075-Shenzhen
- WP0088-Westlake Village (Blue Microphones)
- WP0051-Munchen
- WP0032-Hsinchu (Dexxa)
- WP0082-Taipei