



LRQA Independent Assurance Statement

Relating to Bridgestone Group's Greenhouse Gas Emissions Inventory, Environmental and Social Data for the calendar year 2023

This Assurance Statement has been prepared for Bridgestone Corporation in accordance with our contract.

Terms of Engagement

LRQA was commissioned by Bridgestone Corporation ("the Company") to provide independent assurance on its greenhouse gas (GHG) emissions inventory, and on its environmental and social data ("the report") for the calendar year 2023, that is, from 1 January to 31 December 2023, against the assurance criteria below to a limited level of assurance at the materiality of the professional judgement of the verifier and using ISAE 3000 (Revised) and ISO 14064 - Part 3:2019 for GHG emissions.

Our assurance engagement covered Bridgestone Group's operations and activities in Japan and overseas and specifically the following requirements:

- Verifying conformance with the Company's reporting methodologies for the selected datasets:
- Evaluating the accuracy and reliability of data for only the selected indicators listed below:

Environmental¹

- Amount of raw materials used, Ratio of Recycled/Renewable Material
- Total energy consumption, Energy consumption (fuels, consumption of fuels oriented from renewable energy, Energy consumption (purchased electricity, consumption of purchased electricity oriented from renewable energy, Energy consumption (purchased steam), Energy consumption (self-generated renewable electricity from non-fuel sources; solar, etc.), Electricity sold, Total energy consumption (renewable), Total energy consumption (non-renewable),
- Total water withdrawal, Total water withdrawal in water stress area, Water withdrawal (surface water), Water withdrawal (groundwater), Water withdrawal (water supply, industrial water), Water withdrawal (seawater),
- GHG emissions² (Scope 1), GHG emissions (Scope 2) Market-based and Location-based, GHG emissions (Scope 3) Categories³ 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14 and 15,
- Contribution to CO₂ Reduction by reducing rolling resistance, etc. (compared with 2020)⁴
- NOx emissions, SOx emissions,
- Volume of waste generated, Volume of recycled waste, Recycling waste rate, Volume of waste to landfill, Volume of regulated hazardous waste generated, Volume of regulated hazardous waste recycled, Volume of regulated hazardous waste to landfill,
- Product Circularity⁵,
- Resource productivity, and
- Sites with ISO14001 certification⁶

¹ GHG quantification is subject to inherent uncertainty.

² Scope 1 and 2 GHG emissions are as defined in The Greenhouse Gas Protocol – A Corporate Accounting and Reporting Standard.

³ The categories of Scope 3 GHG emissions are as defined in the Greenhouse Gas Protocol – Corporate Value Chain (Scope 3) Accounting and Reporting Standard, Table 5.3.

⁴ Calculated using Bridgestone's calculation method based on the "Tyre LCCO₂ Calculation Guidelines Ver. 3.0.1" (The Japan Automobile Tyre Manufacturers Association, Inc) etc.

⁵ A concept to show circularity of used products. The Group used the ratio of beneficial next use of used tires collected by its shops/stores (based on the number of shops/stores and contracts with processing companies) as the indicator for product circularity.

⁶ It covers 98 production sites in Japan and overseas.



Social

- Lost-time injury frequency rate of employees and temporary staff, Lost-time injury frequency rate of contractors, Serious injury rate of employees and temporary staff, Serious injury rate of contractors, Occupational illness frequency rate of employees and temporary staff, Number of Fatalities of employees and temporary staff, Number of Fatalities of contractors
- Sites with ISO 9001 certification⁷, Sites with ISO 45001 certification⁸, Sites with Occupational health and safety related standards certification^{8,9}, Percentage of facilities conducting risk assessments¹⁰, and
- Female ratio

Our assurance engagement excluded the data and information of the Company’s suppliers, contractors and any third-parties mentioned in the report.

LRQA’s responsibility is only to the Company. LRQA disclaims any liability or responsibility to others as explained in the end footnote. the Company’s responsibility is for collecting, aggregating, analysing and presenting all the data and information within the Report and for maintaining effective internal controls over the systems from which the Report is derived. Ultimately, the Report has been approved by, and remains the responsibility of the Company.

LRQA’s Opinion

Based on LRQA’s approach nothing has come to our attention that would cause us to believe that the Company has not, in all material respects:

- Met the requirements of the criteria listed above; and
- Disclosed accurate and reliable performance data and information on GHG emissions and key environmental and social data as summarized in Table 1, 2, 3 below.

The opinion expressed is formed on the basis of a limited level of assurance¹¹ and at the materiality of the professional judgement of the verifier.

Table 1. Summary of Bridgestone Group’s GHG Emissions Inventory for calendar year 2023

Scope of GHG emissions	tonnes CO ₂ e
Greenhouse gas emissions: Manufacturing sites and Non-manufacturing sites (CO ₂ Scope 1) <small>Note1</small>	1,574,763
Greenhouse gas emissions: Manufacturing sites and Non-manufacturing sites (CO ₂ Scope 2, Market-based) <small>Note1 Note2</small>	495,148
Greenhouse gas emissions: Manufacturing sites and Non-manufacturing sites (CO ₂ Scope 2, Location-based) <small>Note1 Note2</small>	1,987,188
Greenhouse gas emissions: Manufacturing sites and Non-manufacturing sites (CO ₂ Scope 1 + 2, Market-based) <small>Note1 Note2</small>	2,069,911
Greenhouse gas emissions (CH ₄ and N ₂ O Scope 1 + Scope 2) <small>Ref. Note1</small>	7,923
Greenhouse gas emissions (Scope 3)	99,200,926
Category 1	10,609,933
Category 2	1,339,206

⁷ It covers 115 production sites in Japan and overseas.

⁸ It covers 108 production sites in Japan and overseas.

⁹ Occupational health and safety related standards include ISO 45001, VPP-Star and Safe production standardization.

¹⁰ It covers 106 production sites in Japan and overseas.

¹¹ The extent of evidence-gathering for a limited assurance engagement is less than for a reasonable assurance engagement. Limited assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a limited assurance engagement is lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.



Scope of GHG emissions		tonnes CO ₂ e
Category 3		477,659
Category 4		575,545
Category 5		148,058
Category 6		16,323
Category 7		57,602
Category 9		294,794
Category 10		2,324
Category 11		83,880,497
Category 12		1,674,124
Category 14		52,632
Category 15		72,228

Note1: Energy oriented CH₄ and N₂O emissions are separately calculated and shown in the total amount of Scope 1&2.
Note2: Scope 2, Location-based and Scope 2, Market-based are defined in the GHG Protocol Scope 2 Guidance, 2015

Table 2. Summary of Bridgestone Group’s Environmental and Social Data for calendar year 2023

Environmental data	Amount
Amount of raw materials used	3,969 kilo-ton
Ratio of Recycled and Renewable Material	39.6 %
Total energy consumption (Manufacturing sites and Non-manufacturing sites)	40,989,174 GJ (11,385,882 MWh)
Total energy consumption (Manufacturing sites and Non-manufacturing sites (renewable))	11,288,301 GJ (3,135,639 MWh)
Total energy consumption (Manufacturing sites and Non-manufacturing sites (non-renewable))	29,700,874 GJ (8,250,243 MWh)
Energy consumption (fuel)	23,256,156 GJ
Energy consumption (fuel from renewable sources)	330,832 GJ
Energy consumption (purchased electricity)	4,674,495 MWh
Energy consumption (purchased electricity from renewable sources)	3,005,188 MWh
Energy consumption (purchased steam)	836,378 GJ
Energy consumption (self-generated renewable electricity from non-fuel sources; solar, etc.)	38,553 MWh
Electricity sold	19,537 MWh
Total water withdrawal	63,990 x10 ³ m ³
Water withdrawal (surface water)	3,094 x10 ³ m ³
Water withdrawal (groundwater)	8,124 x10 ³ m ³
Water withdrawal (water supply, industrial water)	16,374 x10 ³ m ³
Water withdrawal (seawater)	36,397 x10 ³ m ³
Total water withdrawal by Manufacturing facilities in water stress areas	2,493 x10 ³ m ³
Water withdrawal by Manufacturing facilities in water stress areas (surface water)	372 x10 ³ m ³
Water withdrawal by Manufacturing facilities in water stress areas (ground water)	565 x10 ³ m ³
Water withdrawal by Manufacturing facilities in water stress areas (water supply, industrial water)	1,556 x10 ³ m ³

Water withdrawal by Manufacturing facilities in water stress areas (seawater)	0 x10 ³ m ³
Contribution to CO ₂ Reduction (compared with 2020)	3,491,221 tCO ₂
NOx emissions	1,660 ton
SOx emissions	511 ton
Volume of waste generated	286 kilo-ton
Volume of recycled waste	271 kilo-ton
Recycling waste rate	95 %
Volume of waste to landfill	15 kilo-ton
Volume of regulated hazardous waste generated	26 kilo-ton
Volume of regulated hazardous waste recycled	23 kilo-ton
Volume of regulated hazardous waste to landfill	3 kilo-ton
Product Circularity	99 %
Resource productivity	1,087 million JPY/kilo-ton
Sites with ISO 14001 certification	100 %

Social data	Amount
Lost-time injury frequency rate of employees and temporary staff	2.76
Lost-time injury frequency rate of contractors	0.12
Serious injury rate of employees and temporary staff	0.06
Serious injury rate of contractors	0.01
Occupational illness frequency rate (OIFR) of employees and temporary staff	0.19
Number of Fatalities of employees and temporary staff	2
Number of Fatalities of contractors	0
Sites with ISO 9001 certification	100 %
Sites with ISO 45001 certification	47.2 %
Sites with occupational health and safety related standards certification	54.6 %
Percentage of facilities conducting risk assessments	90.8 %

Table 3. Summary of Bridgestone Group's Ratio of women Data for calendar year 2023

Ratio of women						
Segment	Total	Management positions			Total management positions	Other staff and positions
		Top management positions	Management positions	Junior management positions		
Japan	12.2%	2.2%	7.6%	5.7%	6.2%	13.4%
Bridgestone Corporation	8.7%	0.0%	4.3%	3.2%	3.6%	9.5%
Americas	12.6%	26.5%	26.6%	21.5%	22.3%	10.1%
Europe, Russia, Middle East, India and Africa	12.8%	3.0%	22.9%	15.1%	17.5%	11.9%
China, Asia Pacific	10.1%	9.9%	20.8%	10.6%	14.3%	9.5%
Total	12.2%	7.8%	17.9%	15.7%	16.1%	11.3%



LRQA's Approach

LRQA's assurance engagements are carried out in accordance with ISAE 3000 (Revised) and ISO 14064-3. The following tasks were undertaken as part of the evidence gathering process for this assurance engagement:

- Auditing the Company's data management systems to confirm that there were no significant errors, omissions or misstatements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions and systems, including those for internal verification.
- Interviewing with those key people responsible for compiling the data and drafting the report.
- Sampling datasets and traced activity data back to aggregated levels;
- Verifying the historical data and records for the fiscal year 2023; and
- Visiting Bilbao factory in Spain to confirm the data collection processes, record management practices, and to physically check emission sources etc.
- Conducting the remote verification to Monterrey factory in Mexico and Mexico Carbon Manufacturing S.A de C.V for confirming the effectiveness of its data management systems via emails and Microsoft Teams.

Observations

Further observations and findings, made during the assurance engagement, are:

- It is recommended the Company will continue to maintain the high-level data management systems and discover further improvement opportunities proactively to ensure accurate aggregation and calculation of environmental and social data.

LRQA's Standards, Competence and Independence

LRQA implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition and ISO/IEC 17021-1 Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part1: Requirements that are at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants.

LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

This is the only work undertaken by LRQA for the Company and as such does not compromise our independence or impartiality.

Signed

Dated: 31 May 2024

A handwritten signature in black ink, appearing to read 'Kazuyori Yukinaka', is written over a light blue horizontal line.

Kazuyori Yukinaka

LRQA Lead Verifier

On behalf of LRQA Limited

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