Toyo Tire Corporation

2024 CDP Corporate Questionnaire 2024

Word version

Important: this export excludes unanswered questions
This document is an export of your organization's CDP questionnaire response. It contains all data points for questions that are answered or in progress. There may be questions or data points that you have been requested to provide, which are missing from this document because they are currently unanswered. Please note that it is your responsibility to verify that your questionnaire response is complete prior to submission. CDP will not be liable for any failure to do so.
Terms of disclosure for corporate questionnaire 2024 - CDP

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09/30/2024, 02:15 am

Contents

C7. Environmental performance - Climate Change

(7.1.1) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

(7.1.1.1) Has there been a structural change?

Select all that apply

☑ Yes, other structural change, please specify

(7.1.1.2) Name of organization(s) acquired, divested from, or merged with

(Business Sale)Toyo Soflan Co. Ltd.　(NewFactory）TOYO TIRE SERBIA D.O.O.　(Boundary Expansion）TOYO TIRE JAPAN Co.Ltd, 4locations of TOYO TIRE Co.Ltd

(7.1.1.3) Details of structural change(s), including completion dates

(Toyo Soflan Co., Ltd.) It was removed from 2023 due to the sale of the business. (Serbia Factory) It was newly established in 2022, and GHG data management began from January 2023. (Toyo Tire Japan Co., Ltd.) It's a distributor of Japanese tires. It was not possible until now for GHG data management, but began from January 2023. (Four locations managed by TOYOTIRE corporation) They were not possible until now for GHG data management, but began from January 2023.
[Fixed row]

(7.1.2) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

(7.1.2.1) Change(s) in methodology, boundary, and/or reporting year definition?

Select all that apply

☑ Yes, a change in methodology

☑ Yes, a change in boundary

(7.1.2.2) Details of methodology, boundary, and/or reporting year definition change(s)

During the reporting year, the following changes were made regarding our emissions calculation method and reporting boundaries. 1. Added Scope 2 (SC2) market criteria Until FY2022, Scope 2 emissions were calculated based only on location criteria, but starting in FY2023, market-based calculations were added. By also reporting emissions based on the electricity purchasing market criteria, we have been able to conduct more accurate and comprehensive emissions evaluations. 2. Changed the Scope 3 (SC3) calculation method We made changes to revise the Scope 3 emissions calculation method and use more accurate data. Until 2022, the calculation has been based on The Japan Automobile Tyre Manufacturers Association, Inc. (JATMA) Guideline Ver. 3.0.1 and Ministry of the Environment's Emissions Unit Database for Calculation of Greenhouse Gas Emissions, etc. by Organizations Throughout the Supply Chain. In FY2023, we revised the calculation method based on Ministry of the Environment's Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (Ver. 2.6); for the emissions factor, we have been referencing the National Institute of Advanced Industrial Science and Technology's IDEA v2.3, Ministry of the Environment's Emissions Unit Database Ver. 3.3, JATMA's Tyre LCCO2 Calculation Guidelines Ver. 3.0.1, etc. 3. Changed the reporting boundaries - Toyo Soflan Co., Ltd.: We excluded it from the reporting boundary starting in 2023 due to divestiture. - Serbian plant: For the Serbian plant that was newly built in 2022, we began collecting data in January 2023. Hence, the Serbian plant's emissions are now included in the reporting. - Japanese tire sales companies: Until now, we have not collected data of four sites managed by Toyo Tire Japan Co., Ltd. and Toyo Tire Corporation, but have started doing so in January 2023. Hence, the Serbian plant's emissions are now included in the reporting. Through these changes, our emissions reportings have become more accurate and comprehensive, and we are strengthening our initiatives to hit our sustainability targets. [Fixed row]

(7.1.3) Have your organization's base year emissions and past years' emissions been recalculated as a result of any changes or errors reported in 7.1.1 and/or 7.1.2?

(7.1.3.1) Base year recalculation

Select from:

☑ No, because the impact does not meet our significance threshold

(7.1.3.3) Base year emissions recalculation policy, including significance threshold

In fiscal year 2023, we changed the calculation method for our Scope 2 emissions from a location-based to a market-based method. We did not recalculate past emissions. The reasons for this are explained below. (1) Evaluation of the numerical impact We have assessed that the numerical impact of changing our Scope 2 emissions to a market-based method is relatively small. Specifically, we have confirmed that the impact on past emissions data is limited and will not cause significant fluctuations in overall emissions. Therefore, we have determined that the benefits obtained are low compared to the cost and effort of recalculation. (2) Materiality

threshold Our policy for recalculating base year emissions is to recalculate when a significant fluctuation occurs. Specifically, we have set a threshold for retroactively recalculating when a fluctuation of 5% or more occurs in total emissions. This 5% threshold is also widely adopted as a criterion for determining materiality in financial accounting, and is considered an appropriate threshold for materiality in environmental performance. Since the impact of this change to a market-based method is below this threshold, we have determined that recalculation is not necessary. * For Scope 2 in 2023, the difference between market-based emissions (275,878 t-CO2) before considering renewable energy and location-based emissions (280,483 t-CO2) is 1.6%, and it has been determined that no retroactive revision is necessary. (3) Ensuring data consistency and comparability Some have argued that in order to ensure data consistency and comparability, all past emissions should also be revised to the market standard, but in our evaluation, we have determined that the impact of revising past figures due to the change to a market standard on the overall trend is small. Revising past data at this point would not have a significant impact on the consistency of trends for each reporting period, so no revisions were made. (4) Impact of business sales and new factories.*

(7.1.3.4) Past years' recalculation

Select from:

☑ No

[Fixed row]

(7.3) Describe your organization's approach to reporting Scope 2 emissions.

(7.3.1) Scope 2, location-based

Select from:

☑ We are reporting a Scope 2, location-based figure

(7.3.2) Scope 2, market-based

Select from:

☑ We are reporting a Scope 2, market-based figure

(7.3.3) Comment

Our Scope 2 emissions are calculated by using the CO2 emission factor for electricity purchased at each site. Specifically, we follow a process such as the following to accurately calculate and report Scope 2 emissions. Obtain data from power companies (market criteria) For the electricity used at each site, we request data from the power companies that power each site, and calculate CO2 emissions based on the CO2 emission factor they provide. A CO2 emission factor provided by a power company accurately reflects the amount of CO2 emitted by them when generating electricity, and is used as a basic data for calculating Scope 2 emissions associated

*with power usage at the corresponding site. Calculating CO2 emissions A site's Scope 2 emissions are calculated by multiplying the site's power usage by the CO2 emission factor provided by its power company. The specific calculation formula is as follows. Scope 2 emissions (t-CO2) Electricity usage (kWh) CO2 emission factor (t-CO2/kWh) Exceptions For sites in China and Serbia, we are facing a challenge of inability to obtain the specific CO2 emission factor from local power companies. We therefore calculate their emissions via each country's CO2 emission factor provided by the International Energy Agency (IEA). This approach is to ensure reliability and consistency, and is based on the following calculation formula. *Scope 2 emissions (t-CO2) Electricity usage (kWh) CO2 emission factor by country provided by IEA (t-CO2/kWh) This has allowed highly accurate emissions calculations for sites in China and Serbia, just like with other sites. Data integration and reporting Scope 2 emissions data calculated at each site is integrated at the head office. The integrated data is provided to stakeholders including the CDP as highly transparent information pertaining to company-wide Scope 2 emissions. Data verification We also have a third-party institution verify the reported Scope 2 emissions data to ensure its accuracy. This process further increases data reliability and enables highly reliable reporting to stakeholders. Through the aforementioned processes, we precisely calculate the Scope 2 emissions of each site and accurately report the company-wide greenhouse gas emissions. Through these initiatives, we are promoting sustainable management and actively working to combat climate change.*
[Fixed row]

(7.5) Provide your base year and base year emissions.

Scope 1

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

296300

(7.5.3) Methodological details

*Emissions directly generated from assets owned or controlled by a company are calculated using the following procedure. 1. Collect data: We collect data such as fuel usage. 2. Applying the emission factors: Appropriate emission factor is applied for each fuel. 3. Calculate emissions: Emissions are calculated by multiplying fuel usage by the emission factor. Calculation formula: Energy usage x CO2 emission factor *Details are disclosed in the subsequent responses.*

Scope 2 (location-based)

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

294600

(7.5.3) Methodological details

*Indirect emissions from purchased electricity consumption, etc. are calculated using the following procedure. 1. Collect energy consumption data: Collect data on purchased electricity. 2. Apply emission factors: For location-based calculations, use the electricity emission factor for each grid (area). 3. Calculate emissions: Calculate emissions by multiplying electricity usage by the emission factor. Calculation formula: Electricity usage x CO2 emission factor *Details are provided in the answers below.*

Scope 2 (market-based)

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

294600

(7.5.3) Methodological details

Location-based results were used as a proxy, because market-based figures could not be calculated.

Scope 3 category 1: Purchased goods and services

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

2358244

(7.5.3) Methodological details

*Emissions associated with goods and services purchased from suppliers are calculated using the following procedure. - Data collection: Collect purchasing volume data (raw materials procurement volume, other purchases, and costs of services provided). - Application of emission factors: For raw materials, apply emission factors per material weight, and for other purchases and service costs, apply emission factors per amount. * Emission factors use the JATMA guidelines, IDEA coefficients, and Ministry of the Environment database. *Calculation formula: Amount of raw materials procured x CO2 emission factor Other costs x CO2 emission factor*

Scope 3 category 2: Capital goods

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

129195

(7.5.3) Methodological details

*Calculates emissions associated with the installation of capital goods (buildings, equipment, etc.) for long-term use. ・Data collection: Collect data on the purchase volume of capital goods. ・Application of emission coefficient: Apply the emission coefficient per price of capital goods. *Emission coefficients are taken from the Ministry of the Environment database. *Calculation formula: Capital investment cost x CO2 emissions factor*

Scope 3 category 3: Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

109980

(7.5.3) Methodological details

*Calculate emissions associated with the extraction, production, and transportation of fuel and energy not included in Scope 1 and 2. -Data collection: Collect the amount of fuel and energy used. -Application of emission factors: Apply emission factors for each fuel and energy supply chain. *IDEA factors are used as emission factors. *Calculation formula: Amount of each energy purchased x CO2 emission factor*

Scope 3 category 4: Upstream transportation and distribution

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

144053

(7.5.3) Methodological details

*Calculates emissions associated with the transportation and delivery of goods. ・Data collection: Collect data on fuel usage, transportation volume, transportation distance, and transportation method depending on the type of transportation. ・Application of emission coefficient: Apply emission coefficient for each transportation method. *Emission coefficients use IDEA coefficients and the Ministry of the Environment database. Calculation formula: Apply the following depending on the type of transportation. ・Amount of material procured x CO2 emission factor ・Amount of fuel used x CO2 emission coefficient ・Transport weight x travel distance x CO2 emission coefficient ・Amount of product transported x CO2 emission coefficient.*

Scope 3 category 5: Waste generated in operations

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

10871

(7.5.3) Methodological details

*Calculates the amount of emissions associated with the treatment of waste generated from a company's activities. - Data collection: Collect data on the type and amount of waste. - Application of emission coefficients: Apply emission factor for each waste treatment method. * Emission coefficients are taken from the Ministry of the Environment database. Calculation formula: Amount of waste x CO2 emission factor.*

Scope 3 category 6: Business travel

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

1683

(7.5.3) Methodological details

*Calculates emissions associated with company employee business trips. - Data collection: Collect data on travel distance and means. - Application of emission coefficients: Apply emission coefficients for each means of travel. *Emission coefficients are taken from the Ministry of the Environment database. Calculation formula: Target employees x CO2 emission factor.*

Scope 3 category 7: Employee commuting

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

5723

(7.5.3) Methodological details

*Calculate emissions associated with employee commuting. -Data collection: Collect data on employee commuting distance and means. -Application of emission coefficients: Apply emission coefficients for each commuting means. *Emission coefficients are taken from the Ministry of the Environment database. Calculation formula: Target employees x CO2 emission factor.*

Scope 3 category 8: Upstream leased assets

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Nothing

Scope 3 category 9: Downstream transportation and distribution

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Nothing

Scope 3 category 10: Processing of sold products

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

4711

(7.5.3) Methodological details

*Calculate the amount of emissions when products are processed by customers. (Emissions associated with electricity used to mount tires, etc.) ・Data collection: Collect data on the amount of products processed. ・Application of emission coefficient: Apply an emission coefficient for each processing process. *Emission coefficients are taken from the Ministry of the Environment database. Calculation formula: Number of units produced x Power consumption x CO2 emission factor.*

Scope 3 category 11: Use of sold products

(7.5.1) Base year end

12/31/2019

(7.5.2) Base year emissions (metric tons CO2e)

12044733

(7.5.3) Methodological details

*Calculate the emissions when the product is used. - Data collection: Collect data on the number of products produced. - Application of emission factors: Apply emission factors for each vehicle and tire type. * Emission factors use the JATMA guidelines (emission factors for the usage process). Calculation formula: Number of units produced x CO2 emission factor*

Scope 3 category 12: End of life treatment of sold products

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

231611

(7.5.3) Methodological details

*Calculate the amount of emissions when a product is disposed of. ・Data collection: Collect data on the number of products produced and the weight at disposal (weight after wear). (JATMA guideline data is used for weight at disposal) ・Application of emission coefficient: Apply the emission coefficient for each processing method. *Emission coefficients use IDEA coefficients and the Ministry of the Environment database. Calculation formula: Amount of waste x CO2 emission factor.*

Scope 3 category 13: Downstream leased assets

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Nothing

Scope 3 category 14: Franchises

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Nothing

Scope 3 category 15: Investments

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

3814

(7.5.3) Methodological details

*We calculate the Scope 1 and 2 emissions of the business activities of affiliated companies (equity-based companies). - Collect data: We collect the sales data of our equity-based companies. - Applying the emission factor: Since our Scope 1 and 2 emissions are proportionally accounted based on the sales ratio between us and our equity-based companies, emission factors are not used here. Our Scope 1 and 2 emissions x sales of equity-based companies / our sales *Details are disclosed in the subsequent responses.*

Scope 3: Other (upstream)

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Nothing

Scope 3: Other (downstream)

(7.5.1) Base year end

12/30/2019

(7.5.2) Base year emissions (metric tons CO2e)

0

(7.5.3) Methodological details

Nothing

[Fixed row]

(7.6) What were your organization’s gross global Scope 1 emissions in metric tons CO2e?

Reporting year

(7.6.1) Gross global Scope 1 emissions (metric tons CO2e)

274500

(7.6.3) Methodological details

*We calculate our Scope 1 emissions based on the following methodology. Scope and subject of data collection We collected data from our major manufacturing sites, R&D sites, and office facilities worldwide. This includes all plants in Japan and major manufacturing sites overseas. *Fourteen overseas sales companies were excluded from target. Regarding these 14 overseas sales companies, we confirmed that their FY2022 SC1 SC2 emissions were 0.25% of the total. Changes in the purpose and volume of energy use will be small unless there is a major change in the roles and scale of the sales companies, and we expect that their CO2 emissions will hover around less than 1%. Hence, we do not manage their CO2 emissions annually because of the low necessity to regularly investigate their energy usage annually. Identifying emission sources: Scope 1 emission sources include: - Fuel combustion (boilers, furnaces, company-owned vehicles, etc.) - Chemical reactions (in manufacturing processes) - Operating a company-owned vehicle Data collection method We collected the energy consumption data from each site’s energy management systems and purchasing records. Specifically, data on fuel type and volume (e.g., natural gas, oil) are recorded monthly. Applying the emission factor*
[Fixed row]

(7.7) What were your organization’s gross global Scope 2 emissions in metric tons CO2e?

Reporting year

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO2e)

280500

(7.7.2) Gross global Scope 2, market-based emissions (metric tons CO2e) (if applicable)

105800

(7.7.4) Methodological details

Our Scope 2 emissions are calculated by using the CO2 emission factor for electricity purchased at each site. Specifically, we follow a process such as the following to accurately calculate and report Scope 2 emissions. Obtain data from power companies (market criteria) For the electricity used at each site, we request data from the power companies that power each site, and calculate CO2 emissions based on the CO2 emission factor they provide. A CO2 emission factor provided by a power company accurately reflects the amount of CO2 emitted by them when generating electricity, and is used as a basic data for calculating Scope 2 emissions associated with power usage at the corresponding site. Calculating CO2 emissions A site's Scope 2 emissions are calculated by multiplying the site's power usage by the CO2 emission factor provided by its power company. The specific calculation formula is as follows. Scope 2 emissions (t-CO2) Electricity usage (kWh) CO2 emission factor (t-CO2/kWh) Exceptions For sites in China and Serbia, we are facing a challenge of inability to obtain the specific CO2 emission factor from local power companies. We therefore calculate their emissions via each country's CO2 emission factor provided by the International Energy Agency (IEA). This approach is to ensure reliability and consistency, and is based on the following calculation formula. Scope 2 emissions (t-CO2) Electricity usage (kWh) CO2 emission factor by country provided by IEA (t-CO2/kWh) This has allowed highly accurate emissions calculations for sites in China and Serbia, just like with other sites. Data integration and reporting Scope 2 emissions data calculated at each site is integrated at the head office. The integrated data is provided to stakeholders including the CDP as highly transparent information pertaining to company-wide Scope 2 emissions. Data verification We also have a third-party institution verify the reported Scope 2 emissions data to ensure its accuracy. This process further increases data reliability and enables highly reliable reporting to stakeholders. Through the aforementioned processes, we precisely calculate the Scope 2 emissions of each site and accurately report the company-wide greenhouse gas emissions. Through these initiatives, we are promoting sustainable management and actively working to combat climate change.
[Fixed row]

(7.8) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

(7.8.1) Evaluation status

Select from:
☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

2421362

(7.8.3) Emissions calculation methodology

Select all that apply
☑ Supplier-specific method

☑ Other, please specify :The amount of raw materials procured was calculated by multiplying the amount of raw materials procured by the CO2 emission coefficient. The emission factor are\ calculated using IDEA v2.3 and the Japan Automobile Tire Manufacturers Association.

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*・For raw material procurement, calculations were made using the amount of raw materials procured x the CO2 emission factor. Emission factors were calculated using IDEA v2.3 from the National Institute of Advanced Industrial Science and Technology and the Japan Automobile Tire Manufacturers Association (JATMA) "Tire LCCO2 Calculation Guidelines Ver3.0.1." ・For other purchased items, calculations were made using the purchase cost x the CO2 emission factor. Emission factors were calculated using the Ministry of the Environment of Japan's "Emissions Unit Database for Calculating Organizational Greenhouse Gas Emissions Through the Supply Chain Ver3.3." Raw material names: t-CO2 Natural rubber: 97,127.3 Synthetic rubber: 433,636 Carbon black: 766,125 Process oil: 20,416.0 Organic rubber chemicals total: 216,862 Zinc oxide: 22,066.3 Sulfur: 60.7813 Silica: 35,709.8 Fiber total: 167,816 Steel cord: 165,563 Bead wire: 72,326.8 Tire direct materials total: 1,997,708 Metal fittings materials: t-CO2 Aluminum molded material: 9,089 Aluminum die casting: 31,365 Hot rolled steel sheet press: 77,393 Steel wire rod press: 8,484 Steel pipe press: 5,416 PA66 and other molded parts: 1,633 Metal fittings total: 133,380 Other purchased items Total: 290,273 Total 1,997,708 133,380 290,273 2,421,362 t-CO2 *Decimals are omitted.*

Capital goods

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

161414

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Spend-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Calculated using capital investment costs x CO2 emission coefficient. The emission coefficient was calculated using the "Emissions Unit Database Ver. 3.3 for Calculating Organizational Greenhouse Gas Emissions Throughout the Supply Chain" from the Ministry of the Environment of Japan. ・Emissions unit (rubber products): 3.19t-CO2/million yen ・Domestic 26,335 million yen x 3.19 84,010 ・Overseas 24,264 million yen x 3.19 77,404 ・Total: 161,414 t-CO2

Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

114275

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Fuel-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*Energy consumption purchased in SC1 and 2 x CO2 emission coefficient. The emission coefficient was calculated using IDEA v2.3 from the National Institute of Advanced Industrial Science and Technology. Domestic Fuel: Amount used, Emission factor, Emissions * Gasoline: 1,107 0.56 617 Kerosene: 254 0.33 83 * Diesel: 818 0.37 302 Heavy oil A: 1,539 0.44 682 * LPG: 581 0.84 488 City gas: 79,448 0.52 41,140 *Purchased electricity: 150,341 0.07 1 0,253 *Subtotal: 53,564t-CO2*

*Overseas Gasoline: 100 0.56 56 * Diesel: 138 0.37 51 LPG: 32 0.84 27 * LNG: 38,036 0.62 23,575 * Purchased electricity: 412,893 0.07 28,159 *Purchased steam: 269,611 0.03 8,843 * Subtotal: 60,711t-CO2 Total Domestic Overseas 114,275 t-CO2*

Upstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

131504

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Distance-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*The following was applied depending on transportation and delivery. ・Amount of materials procured CO2 emission factor ・Amount of fuel used CO2 emission factor ・Weight transported travel distance CO2 emission factor ・Amount of product transported CO2 emission factor Emission factors were used from IDEA v2.3, developed by the National Institute of Advanced Industrial Science and Technology. *The horizontal bars for overseas include domestic. AT is for tires. AP is for parts. Type Procurement process Shipping process Domestic (AT) 74,675 - Domestic (AP) 8,355 - Domestic (ALL) 83,031 7,680 Overseas (AT) - 40,602 Overseas (AP) - 191 Overseas (ALL) 0 40,793 Total (t-CO2) 83,031 48,473 Total 131,504*

Waste generated in operations

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

11557

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Waste-type-specific method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*Waste volume x CO2 emission coefficient, and the coefficient used was "Emissions Unit Database Ver. 3.3 for Calculating Organizational Greenhouse Gas Emissions Through the Supply Chain" by the Ministry of the Environment of Japan. Type:Amount generated/ CO2 emission *Sludge: 1,148 /198 *Waste oil: 537/ 957 * Waste acid: 6/ 0.164 * Waste alkali: 97 /2.6 * Rubber waste: 73/ 1 * Glass and ceramic waste: 39/ 0.5 * Waste plastics: 12.915/ 10,239 * Metal scraps: 674/ 1 * Wood waste:182 /18 *Paper waste:29/ 3.1 * General waste: 426 /46 ** Total:16,128/11,466 t-CO2*

Business travel

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

1618

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average data method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*The calculation is calculated by multiplying the number of employees by the CO2 emission coefficient, and the coefficient used was the "Emissions Unit Database Ver. 3.3 for Calculating Organizational Greenhouse Gas Emissions Throughout the Supply Chain" from the Ministry of the Environment of Japan. t-CO2/ Persons * Domestic: 808/ 6,212 * Overseas:810/ 6,232 *Total 1,618 t-CO2*

Employee commuting

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

5519

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average data method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

The calculation was calculated by multiplying the number of employees by the CO2 emission coefficient, and the coefficient was taken from the "Emissions Unit

*Database Ver. 3.3 for Calculating Organizational Greenhouse Gas Emissions Through the Supply Chain" by the Ministry of the Environment of Japan. t-CO2/ Persons * Domestic (Manufacturing) 1,719 /3,892 * Domestic (Indirect) 1,042/ 2,320 * Overseas (Manufacturing) 2,346/ 5,312 * Overseas (Indirect) 413/ 920 ** Total 5,519 t-CO2*

Upstream leased assets

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Not applicable as we do not own leased assets

Downstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

The company processes the products before selling them to consumers, and as it pays for its own costs, it is included in CAT4, so there are no emissions in this category.

Processing of sold products

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

4389

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Other, please specify :Calculate the amount of emissions when products are processed by customers. (Emissions associated with the electricity used to mount tires, etc.) ・Data collection: Collect data on the amount of products processed. ・Application of emission factors:

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*Calculated using "number of tires produced x power consumption x CO2 emission coefficient". Emissions are calculated for each processing process. The amount of electricity used for a typical tire change in-house was recorded, and the electricity consumption rate was calculated using the CO2 emission coefficient for electricity provided by the Ministry of the Environment of Japan. Work name/tCO2 ・Attaching wheels to tires and inflating tires/ 3,055t-CO2 ・Balancing work /1,171t-CO2 ・Removing and installing tires from the vehicle body /162t-CO2 ** Total 4,389t-CO2*

Use of sold products

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

13264331

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Methodology for indirect use phase emissions, please specify :Calculated by multiplying the number of tires produced by the CO2 emission coefficient. The coefficient is calculated using the Japan Automobile Tire Manufacturers Association (JATMA) "Tire LCCO2 Calculation Guidelines Ver. 3.0.1".

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*Calculated using the number of tires produced x CO2 emission coefficient. The coefficient was taken from the Japan Automobile Tire Manufacturers Association (JATMA) "Tire LCCO2 Calculation Guidelines Ver. 3.0.1." *Domestic PCR general-purpose tires: 1,787,380 *PCR fuel-efficient tires A: 2,053,295 *TBR general-purpose tires: 4,412,740 *TBR fuel-efficient tires: 299,136 * *Subtotal: 8,552,551 t-CO2 * Overseas PCR general-purpose tires: 3,407,832 *PCR fuel-efficient tires A: 404,517 *TBR general-purpose tires: 623,591 *TBR fuel-efficient tires: 275,839 ** Subtotal: 4,711,779 t-CO2 Total: 13,264,331 t-CO2*

End of life treatment of sold products

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

270190

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average product method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Calculated as waste volume x CO2 emission factor, with waste volume calculated by multiplying the number of units produced by the weight of worn tyres (new tyres minus the amount of wear). Waste volume is apportioned by processing method from statistical data, and each is multiplied by a different emission factor. Emission factors were derived from the Ministry of the Environment's "Emissions Unit Database Ver. 3.3 for Calculating Greenhouse Gas Emissions from Organizations

Throughout the Supply Chain" and IDEA v2.3 from the National Institute of Advanced Industrial Science and Technology. Waste percentages are calculated from JATMA data, etc. Tyres Processing method Percentage Recycling 28% Landfill 2% Heat utilization 64% Other 6%

Downstream leased assets

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Does not own the target asset

Franchises

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Not applicable as we do not own any franchised stores.

Investments

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

2586

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Other, please specify :"Our Scope 1, 2 x Equity Accounting Revenue / Our Revenue" Calculated by apportioning our Scope 1, 2 based on the sales ratio between our company and our equity accounting companies.

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

*"Our Scope 1, 2 x Equity-Applied Sales / Our Sales" Calculated by apportioning our Scope 1, 2 based on the sales ratio between our company and equity-applied companies. Calculate Scope 1, 2 emissions from the business activities of affiliated companies (equity-applied companies). * Toyo Retread Co., Ltd.: 513 t-CO2 *Zheng Dong Machinery (Kunshan) Co., Ltd.: 167 t-CO2 *Yoshin Kogyo Co., Ltd.:1,906 t-CO2 **Total: 2,586 t-CO2*

Other (upstream)

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Not applicable

Other (downstream)

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

Not applicable
[Fixed row]

(7.9) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	*Select from:* ☑ Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	*Select from:* ☑ Third-party verification or assurance process in place
Scope 3	*Select from:* ☑ No third-party verification or assurance

[Fixed row]

(7.9.1) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Row 1

(7.9.1.1) Verification or assurance cycle in place

Select from:
☑ Annual process

(7.9.1.2) Status in the current reporting year

Select from:

☑ Complete

(7.9.1.3) Type of verification or assurance

Select from:
☑ Limited assurance

(7.9.1.4) Attach the statement

7.9.1 Verification Opinion.pdf

(7.9.1.5) Page/section reference

P1,P2

(7.9.1.6) Relevant standard

Select from:
☑ Other, please specify **:**ISO14064-3: 2019 and the SGS verification protocol

(7.9.1.7) Proportion of reported emissions verified (%)

100
[Add row]

(7.9.2) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

Row 1

(7.9.2.1) Scope 2 approach

Select from:
☑ Scope 2 location-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

☑ Annual process

(7.9.2.3) Status in the current reporting year

Select from:

☑ Complete

(7.9.2.4) Type of verification or assurance

Select from:

☑ Limited assurance

(7.9.2.5) Attach the statement

7.9.1 Verification Opinion.pdf

(7.9.2.6) Page/ section reference

P1,P2

(7.9.2.7) Relevant standard

Select from:

☑ ISO14064-3

(7.9.2.8) Proportion of reported emissions verified (%)

100

Row 2

(7.9.2.1) Scope 2 approach

Select from:

☑ Scope 2 market-based

(7.9.2.2) Verification or assurance cycle in place

Select from:

☑ Annual process

(7.9.2.3) Status in the current reporting year

Select from:

☑ Complete

(7.9.2.4) Type of verification or assurance

Select from:

☑ Limited assurance

(7.9.2.5) Attach the statement

7.9.1 Verification Opinion.pdf

(7.9.2.6) Page/ section reference

P1,P2

(7.9.2.7) Relevant standard

Select from:

☑ ISO14064-3

(7.9.2.8) Proportion of reported emissions verified (%)

100
[Add row]

(7.10.1) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

Change in renewable energy consumption

(7.10.1.1) Change in emissions (metric tons CO2e)

155000

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

30

(7.10.1.4) Please explain calculation

*The main reason for the change in our total Scope 2 emissions during the reporting year is the increase in renewable energy consumption. A detailed calculation explanation is provided below. *Changes in emissions due to changes in renewable energy consumption 1. Comparison of renewable energy consumption between the previous and current fiscal years Renewable energy consumption in the previous fiscal year (2022): 29,734 MWh (15,473t-CO2) Renewable energy consumption in the current fiscal year (2023): 134,062 MWh (170,070t-CO2) 2. Calculation of the emission reduction effect of renewable energy The amount of CO2 emissions reduction due to the use of renewable energy is calculated by multiplying the amount of renewable energy procured (consumption) by the emission factor of conventional power sources (fossil fuel-based). *The emission factor for renewable energy is 0. CO2 amount from renewable energy procured amount ①: 170,070-15,473154,596 t-CO2 CO2 amount from SC12(2022) ②:523,420 t-CO2 *Calculation formula: ①/② 0.3*

Other emissions reduction activities

(7.10.1.1) Change in emissions (metric tons CO2e)

20000

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

4

(7.10.1.4) Please explain calculation

*The effect of CO2 emission reduction activities is the sum of the effect of annual decarbonization investments by the production sector, etc., and the value aggregated by the production sector is used. The figures are rounded to the nearest whole number. ①: 20,000 t-CO2 emissions from SC12(2023) CO2 amount from SC12(2022) ②:523,420 t-CO2 *Calculation formula: ①/②0.04*

Divestment

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

No change

Acquisitions

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

No change

Mergers

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

No change

Change in output

(7.10.1.1) Change in emissions (metric tons CO2e)

32000

(7.10.1.2) Direction of change in emissions

Select from:

☑ Increased

(7.10.1.3) Emissions value (percentage)

6

(7.10.1.4) Please explain calculation

*Changes associated with increases or decreases in energy consumption. The sum of increased energy consumption due to increased production. ①:32,000 t-CO2 from SC12(2023) CO2 amount from SC12(2022) ②:523,420 t-CO2 * Calculation formula: ①/② 0.06*

Change in methodology

(7.10.1.1) Change in emissions (metric tons CO2e)

5000

(7.10.1.2) Direction of change in emissions

Select from:

☑ Decreased

(7.10.1.3) Emissions value (percentage)

1

(7.10.1.4) Please explain calculation

*In FY2023, we changed the Scope 2 emission calculation method from location-based to market-based. By shifting from location-based (280,483 t-CO2) to market-based emissions before considering renewable energy (275,878 t-CO2), we have confirmed a reduction of 4,605 t-CO2 (Numbers are rounded to the nearest 5,000 t-CO2.) ①5,000t-CO2 from SC12(2023) CO2 amount from SC12(2022) ②:523,420 t-CO2 * Calculation formula: ①/② 0.01*

Change in boundary

(7.10.1.1) Change in emissions (metric tons CO2e)

5000

(7.10.1.2) Direction of change in emissions

Select from:
☑ Increased

(7.10.1.3) Emissions value (percentage)

1

(7.10.1.4) Please explain calculation

*The total impact of the following boundary changes is 5,116 t-CO2 (Numbers are rounded to the nearest 5,000 t-CO2.) Serbia Plant: Newly established in 2022, data collection will begin in January 2023. Ltd., a sales company for Japanese tires, and four bases managed by Toyo Tire Japan Co. ①5,000t-CO2 from SC12(2023) CO2 amount from SC12(2022) ②:523,420 t-CO2 * Calculation formula: ①/② 0.01*

Change in physical operating conditions

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

No change

Unidentified

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:
☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

No change

Other

(7.10.1.1) Change in emissions (metric tons CO2e)

0

(7.10.1.2) Direction of change in emissions

Select from:

☑ No change

(7.10.1.3) Emissions value (percentage)

0

(7.10.1.4) Please explain calculation

No change
[Fixed row]

(7.15.1) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used global warming potential (GWP).

Row 1

(7.15.1.1) Greenhouse gas

Select from:
☑ CO2

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

274500

(7.15.1.3) GWP Reference

Select from:
☑ Other, please specify **:**Issued by the Ministry of the Environment of Japan: Law Concerning the Promotion of Global Warming Countermeasures Amendments to the Law Concerning the Promotion of Global Warming Countermeasures (Law Concerning the Promotion of Global Warming Counte
[Add row]

(7.16) Break down your total gross global Scope 1 and 2 emissions by country/area.

	Scope 1 emissions (metric tons CO2e)	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
China	*836*	*51191*	*44289*
Japan	*191551*	*65849*	*6954*
Malaysia	*23226*	*57485*	*51191*
Serbia	*8082*	*25766*	*0*
Thailand	*7*	*262*	*248*
United States of America	*50829*	*79930*	*3126*

[Fixed row]

(7.17.1) Break down your total gross global Scope 1 emissions by business division.

	Business division	Scope 1 emissions (metric ton CO2e)
Row 1	*Tire business*	*268622*
Row 2	*Non-Tire business*	*5910*

[Add row]

(7.17.2) Break down your total gross global Scope 1 emissions by business facility.

Row 1

(7.17.2.1) Facility

TOYO TIRE SERBIA D.O.O.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

8082

(7.17.2.3) Latitude

47.16

(7.17.2.4) Longitude

18.5

Row 2

(7.17.2.1) Facility

TOYO AUTOMOTIVE PARTS (GUANGZHOU) CO., LTD.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

226

(7.17.2.3) Latitude

23.21

(7.17.2.4) Longitude

113.57

Row 3

(7.17.2.1) Facility

Miyazaki Tire Proving Ground

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

319

(7.17.2.3) Latitude

32.24

(7.17.2.4) Longitude

131.56

Row 4

(7.17.2.1) Facility

Kuwana Plant(non tire)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2888

(7.17.2.3) Latitude

35.05

(7.17.2.4) Longitude

136.59

Row 5

(7.17.2.1) Facility

TOYO TIRE (ZHUCHENG) CO.,LTD.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

166

(7.17.2.3) Latitude

36.08

(7.17.2.4) Longitude

119.48

Row 6

(7.17.2.1) Facility

Tire Technical Center

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

146

(7.17.2.3) Latitude

34.78

(7.17.2.4) Longitude

135.42

Row 7

(7.17.2.1) Facility

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

7

(7.17.2.3) Latitude

13.43

(7.17.2.4) Longitude

101.1

Row 8

(7.17.2.1) Facility

TOYO TIRE ZHANGJIAGANG CO.,LTD.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

444

(7.17.2.3) Latitude

31.97

(7.17.2.4) Longitude

120.47

Row 9

(7.17.2.1) Facility

Corporate Technology Center

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

395

(7.17.2.3) Latitude

34.86

(7.17.2.4) Longitude

135.41

Row 10

(7.17.2.1) Facility

Sendai Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

101544

(7.17.2.3) Latitude

38.09

(7.17.2.4) Longitude

140.85

Row 11

(7.17.2.1) Facility

Ayabe Toyo Rubber Co., Ltd.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

278

(7.17.2.3) Latitude

35.32

(7.17.2.4) Longitude

135.22

Row 12

(7.17.2.1) Facility

Headquarters

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

275

(7.17.2.3) Latitude

34.78

(7.17.2.4) Longitude

135.42

Row 13

(7.17.2.1) Facility

Kuwana Plant(tire)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

79709

(7.17.2.3) Latitude

35.05

(7.17.2.4) Longitude

136.59

Row 14

(7.17.2.1) Facility

Fukushima Rubber Co., Ltd.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2182

(7.17.2.3) Latitude

37.8

(7.17.2.4) Longitude

140.48

Row 15

(7.17.2.1) Facility

Orient Machinery Co., Ltd.(Itami)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

3

(7.17.2.3) Latitude

34.78

(7.17.2.4) Longitude

135.42

Row 16

(7.17.2.1) Facility

TOYO TIRE NORTH AMERICA MANUFACTURING INC.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

48353

(7.17.2.3) Latitude

34.29

(7.17.2.4) Longitude

-84.73

Row 17

(7.17.2.1) Facility

Hyogo Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

35

(7.17.2.3) Latitude

34.74

(7.17.2.4) Longitude

134.91

Row 18

(7.17.2.1) Facility

Orient Machinery Co., Ltd.(Sendai)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

12

(7.17.2.3) Latitude

38.1

(7.17.2.4) Longitude

140.84

Row 19

(7.17.2.1) Facility

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

23226

(7.17.2.3) Latitude

4.85

(7.17.2.4) Longitude

100.74

Row 20

(7.17.2.1) Facility

Automotive Parts Technical Center

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

12

(7.17.2.3) Latitude

35.08

(7.17.2.4) Longitude

137.1

Row 21

(7.17.2.1) Facility

Orient Machinery Co., Ltd.(Rokko)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

11

(7.17.2.3) Latitude

34.69

(7.17.2.4) Longitude

135.28

Row 22

(7.17.2.1) Facility

Saroma Tire Proving Ground

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

(7.17.2.3) Latitude

43.99

(7.17.2.4) Longitude

143.76

Row 25

(7.17.2.1) Facility

TOYO AUTOMOTIVE PARTS (USA), INC.

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2476

(7.17.2.3) Latitude

36.71

(7.17.2.4) Longitude

-86.52

Row 26

(7.17.2.1) Facility

TOKYO BRANCH

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

9

(7.17.2.3) Latitude

35.61

(7.17.2.4) Longitude

139.74

Row 27

(7.17.2.1) Facility

HIROSHIMA BRANCH

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

1

(7.17.2.3) Latitude

34.39

(7.17.2.4) Longitude

132.48

Row 28

(7.17.2.1) Facility

TOYOTIRE JAPAN Co.Ltd

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

3725

(7.17.2.3) Latitude

34.78

(7.17.2.4) Longitude

135.42

Row 29

(7.17.2.1) Facility

Distribution Center(KANSAI)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

5

(7.17.2.3) Latitude

34.74

(7.17.2.4) Longitude

135.08

Row 30

(7.17.2.1) Facility

Distribution Center(KANTOH)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

3

(7.17.2.3) Latitude

35.81

(7.17.2.4) Longitude

139.37
[Add row]

(7.20.1) Break down your total gross global Scope 2 emissions by business division.

	Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Row 1	*Non-tire business*	*18018*	*9503*
Row 2	*Tire business*	*262465*	*96305*

[Add row]

(7.20.2) Break down your total gross global Scope 2 emissions by business facility.

Row 1

(7.20.2.1) Facility

TOYO TIRE SERBIA D.O.O.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

25766

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

0

Row 2

(7.20.2.1) Facility

Orient Machinery Co., Ltd.(Rokko)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

29

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

23

Row 3

(7.20.2.1) Facility

Sendai Plant

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

8769

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

2

Row 4

(7.20.2.1) Facility

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

262

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

248

Row 5

(7.20.2.1) Facility

Saroma Tire Proving Ground

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

37

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

45

Row 6

(7.20.2.1) Facility

TOYO TIRE NORTH AMERICA MANUFACTURING INC.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

76844

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

0

Row 7

(7.20.2.1) Facility

Miyazaki Tire Proving Ground

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

233

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

216

Row 9

(7.20.2.1) Facility

Corporate Technology Center

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

1083

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

890

Row 11

(7.20.2.1) Facility

Ayabe Toyo Rubber Co., Ltd.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

834

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

686

Row 12

(7.20.2.1) Facility

TOYO TIRE ZHANGJIAGANG CO.,LTD.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

26948

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

26948

Row 13

(7.20.2.1) Facility

TOYO AUTOMOTIVE PARTS (GUANGZHOU) CO., LTD.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

5656

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

5656

Row 14

(7.20.2.1) Facility

TOYO AUTOMOTIVE PARTS (USA), INC.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

3045

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

3126

Row 15

(7.20.2.1) Facility

Orient Machinery Co., Ltd.(Sendai)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

498

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

400

Row 16

(7.20.2.1) Facility

Toyo Chemical Industrial Products Co., Ltd.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

42

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

36

Row 17

(7.20.2.1) Facility

Fukushima Rubber Co., Ltd.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

3284

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

3576

Row 18

(7.20.2.1) Facility

Orient Machinery Co., Ltd.(Itami)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

81

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

65

Row 19

(7.20.2.1) Facility

TOYO TIRE MALAYSIA SDN BHD

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

57485

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

44289

Row 20

(7.20.2.1) Facility

Tire Technical Center

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

2337

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

1

Row 21

(7.20.2.1) Facility

Kuwana Plant(non tire)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

7206

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

0

Row 22

(7.20.2.1) Facility

Automotive Parts Technical Center

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

1234

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

0

Row 23

(7.20.2.1) Facility

Headquarters

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

240

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

4

Row 24

(7.20.2.1) Facility

TOYO TIRE (ZHUCHENG) CO.,LTD.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

18587

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

18587

Row 25

(7.20.2.1) Facility

Kuwana Plant(tire)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

38942

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

0

Row 26

(7.20.2.1) Facility

TOKYO BRANCH

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

4

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

4

Row 27

(7.20.2.1) Facility

HIROSHIMA MRANCH

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

3

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

3

Row 28

(7.20.2.1) Facility

TOYOTIRE JAPAN Co.Ltd.

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

862

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

862

Row 29

(7.20.2.1) Facility

Distribution Center(KANSAI)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

50

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

41

Row 30

(7.20.2.1) Facility

Distribution Center(KANTOH)

(7.20.2.2) Scope 2, location-based (metric tons CO2e)

82

(7.20.2.3) Scope 2, market-based (metric tons CO2e)

99
[Add row]

(7.22) Break down your gross Scope 1 and Scope 2 emissions between your consolidated accounting group and other entities included in your response.

Consolidated accounting group

(7.22.1) Scope 1 emissions (metric tons CO2e)

274531

(7.22.2) Scope 2, location-based emissions (metric tons CO2e)

280483

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

105808

(7.22.4) Please explain

Manufacturing and sales of tires and automobile parts

All other entities

(7.22.1) Scope 1 emissions (metric tons CO2e)

0

(7.22.2) Scope 2, location-based emissions (metric tons CO2e)

0

(7.22.3) Scope 2, market-based emissions (metric tons CO2e)

0

(7.22.4) Please explain

There is nothing that matches
[Fixed row]

(7.23.1) Break down your gross Scope 1 and Scope 2 emissions by subsidiary.

Row 1

(7.23.1.1) Subsidiary name

TOYO TIRE SERBIA D.O.O.

(7.23.1.2) Primary activity

Select from:
☑ Tires

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply
☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

8082

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

25766

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

0

(7.23.1.15) Comment

Overseas subsidiary

Row 2

(7.23.1.1) Subsidiary name

TOYO AUTOMOTIVE PARTS (GUANGZHOU) CO., LTD.

(7.23.1.2) Primary activity

Select from:

☑ Rubber products

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

226

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

5656

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

5656

(7.23.1.15) Comment

Overseas subsidiary

Row 3

(7.23.1.1) Subsidiary name

Orient Machinery Co., Ltd.(Rokko)

(7.23.1.2) Primary activity

Select from:
☑ Engineering services

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply
☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

11

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

29

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

23

(7.23.1.15) Comment

Japanese subsidiary

Row 4

(7.23.1.1) Subsidiary name

Orient Machinery Co., Ltd.(Itami)

(7.23.1.2) Primary activity

Select from:

☑ Engineering services

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

3

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

81

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

65

(7.23.1.15) Comment

Japanese subsidiary

Row 6

(7.23.1.1) Subsidiary name

Ayabe Toyo Rubber Co., Ltd.

(7.23.1.2) Primary activity

Select from:
☑ Rubber products

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply
☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

278

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

834

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

686

(7.23.1.15) Comment

Japanese subsidiary

Row 7

(7.23.1.1) Subsidiary name

TOYO TIRE ZHANGJIAGANG CO.,LTD.

(7.23.1.2) Primary activity

Select from:

☑ Tires

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

444

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

18587

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

18587

(7.23.1.15) Comment

Overseas subsidiary

Row 8

(7.23.1.1) Subsidiary name

Fukushima Rubber Co., Ltd.

(7.23.1.2) Primary activity

Select from:

☑ Rubber products

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

2182

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

3284

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

3576

(7.23.1.15) Comment

Japanese subsidiary

Row 9

(7.23.1.1) Subsidiary name

TOYO RUBBER CHEMICAL PRODUCTS (THAILAND) LIMITED

(7.23.1.2) Primary activity

Select from:

☑ Rubber products

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

7

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

262

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

248

(7.23.1.15) Comment

Overseas subsidiary

Row 10

(7.23.1.1) Subsidiary name

TOYO AUTOMOTIVE PARTS (USA), INC.

(7.23.1.2) Primary activity

Select from:

☑ Rubber products

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

2476

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

3045

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

3126

(7.23.1.15) Comment

Overseas subsidiary

Row 11

(7.23.1.1) Subsidiary name

TOYO TIRE NORTH AMERICA MANUFACTURING INC.

(7.23.1.2) Primary activity

Select from:

☑ Tires

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

48353

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

76884

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

0

(7.23.1.15) Comment

Overseas subsidiary

Row 12

(7.23.1.1) Subsidiary name

TOYO TYRE MALAYSIA SDN BHD

(7.23.1.2) Primary activity

Select from:

☑ Tires

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

23226

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

57485

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

44289

(7.23.1.15) Comment

Overseas subsidiary

Row 13

(7.23.1.1) Subsidiary name

TOYO TIRE (ZHUCHENG) CO.,LTD.

(7.23.1.2) Primary activity

Select from:
☑ Tires

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply
☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

166

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

26948

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

26948

(7.23.1.15) Comment

Overseas subsidiary

Row 14

(7.23.1.1) Subsidiary name

Orient Machinery Co., Ltd.(Sendai)

(7.23.1.2) Primary activity

Select from:

☑ Engineering services

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

12

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

498

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

400

(7.23.1.15) Comment

Japanese subsidiary

Row 15

(7.23.1.1) Subsidiary name

TOYOTIRE JAPAN Co.Ltd.

(7.23.1.2) Primary activity

Select from:
☑ Tires

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply
☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

3725

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

862

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

862

(7.23.1.15) Comment

Japanese subsidiary

Row 16

(7.23.1.1) Subsidiary name

Distribution Center(KANSAI)

(7.23.1.2) Primary activity

Select from:

☑ Logistics - transport

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply

☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

5

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

50

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

41

(7.23.1.15) Comment

Japanese subsidiary

Row 17

(7.23.1.1) Subsidiary name

Distribution Center(KANTOH)

(7.23.1.2) Primary activity

Select from:
☑ Logistics - transport

(7.23.1.3) Select the unique identifier you are able to provide for this subsidiary

Select all that apply
☑ No unique identifier

(7.23.1.12) Scope 1 emissions (metric tons CO2e)

3

(7.23.1.13) Scope 2, location-based emissions (metric tons CO2e)

82

(7.23.1.14) Scope 2, market-based emissions (metric tons CO2e)

99

(7.23.1.15) Comment

Japanese subsidiary
[Add row]

(7.26) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Row 1

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 1

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

59307000000

(7.26.9) Emissions in metric tonnes of CO2e

29451

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Natural Gas

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 2

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 2: market-based

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

59307000000

(7.26.9) Emissions in metric tonnes of CO2e

11351

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Electricity

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to

the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 3

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 3

(7.26.3) Scope 3 category(ies)

Select all that apply

☑ Category 15: Investments
☑ Category 2: Capital goods
☑ Category 6: Business travel
☑ Category 7: Employee commuting
☑ Category 11: Use of sold products
☑ Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)
☑ Category 1: Purchased goods and services
☑ Category 10: Processing of sold products
☑ Category 5: Waste generated in operations
☑ Category 12: End-of-life treatment of sold products
☑ Category 4: Upstream transportation and distribution

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

59307000000

(7.26.9) Emissions in metric tonnes of CO2e

1758172

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Cat.11: Use stage

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 3 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 4

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:
☑ Scope 1

(7.26.4) Allocation level

Select from:
☑ Company wide

(7.26.6) Allocation method

Select from:
☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:
☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

1344000000

(7.26.9) Emissions in metric tonnes of CO2e

667

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Natural Gas

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 5

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 2: market-based

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

1344000000

(7.26.9) Emissions in metric tonnes of CO2e

257

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Electricity

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 6

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 3

(7.26.3) Scope 3 category(ies)

Select all that apply

☑ Category 15: Investments

☑ Category 2: Capital goods

☑ Category 6: Business travel

☑ Category 7: Employee commuting

☑ Category 11: Use of sold products

☑ Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

☑ Category 1: Purchased goods and services

☑ Category 10: Processing of sold products

☑ Category 5: Waste generated in operations

☑ Category 12: End-of-life treatment of sold products

☑ Category 4: Upstream transportation and distribution

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

1344000000

(7.26.9) Emissions in metric tonnes of CO2e

39381

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Cat.11: Use stage

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 3 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 7

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 1

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

2462000000

(7.26.9) Emissions in metric tonnes of CO2e

1222

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Natural Gas

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 8

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 2: market-based

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

2462000000

(7.26.9) Emissions in metric tonnes of CO2e

471

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Electricity

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 9

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 3

(7.26.3) Scope 3 category(ies)

Select all that apply

☑ Category 15: Investments

☑ Category 2: Capital goods

☑ Category 6: Business travel

☑ Category 7: Employee commuting

☑ Category 11: Use of sold products

☑ Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

☑ Category 1: Purchased goods and services

☑ Category 10: Processing of sold products

☑ Category 5: Waste generated in operations

☑ Category 12: End-of-life treatment of sold products

☑ Category 4: Upstream transportation and distribution

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

2462000000

(7.26.9) Emissions in metric tonnes of CO2e

72980

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Cat.11: Use stage

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 3 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 10

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 1

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify **:**Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

6892000000

(7.26.9) Emissions in metric tonnes of CO2e

3422

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Natural Gas

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 11

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 2: market-based

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

6892000000

(7.26.9) Emissions in metric tonnes of CO2e

1319

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Electricity

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 1 and 2 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing

Row 12

(7.26.1) Requesting member

Select from:

(7.26.2) Scope of emissions

Select from:

☑ Scope 3

(7.26.3) Scope 3 category(ies)

Select all that apply

☑ Category 15: Investments
☑ Category 2: Capital goods
☑ Category 6: Business travel
☑ Category 7: Employee commuting
☑ Category 11: Use of sold products
☑ Category 1: Purchased goods and services
☑ Category 10: Processing of sold products
☑ Category 5: Waste generated in operations
☑ Category 12: End-of-life treatment of sold products
☑ Category 4: Upstream transportation and distribution

☑ Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2)

(7.26.4) Allocation level

Select from:

☑ Company wide

(7.26.6) Allocation method

Select from:

☑ Other allocation method, please specify :Allocation based on the rate of target company sales

(7.26.7) Unit for market value or quantity of goods/services supplied

Select from:

☑ Currency

(7.26.8) Market value or quantity of goods/services supplied to the requesting member

6892000000

(7.26.9) Emissions in metric tonnes of CO2e

204308

(7.26.10) Uncertainty (±%)

3

(7.26.11) Major sources of emissions

Cat.11: Use stage

(7.26.12) Allocation verified by a third party?

Select from:

☑ No

(7.26.13) Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

We calculate Scope 3 CO2 emissions as business activities for manufacturing our customers' products. We allocate the sales ratio of each target customer to the total CO2 emissions of the entire company.

(7.26.14) Where published information has been used, please provide a reference

Nothing
[Add row]

(7.27) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Row 1

(7.27.1) Allocation challenges

Select from:
☑ Diversity of product lines makes accurately accounting for each product/product line cost ineffective

(7.27.2) Please explain what would help you overcome these challenges

Linking the CO2 emissions of each product and manufacturing equipment.
[Add row]

(7.28) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

(7.28.1) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Select from:
☑ No

(7.28.3) Primary reason for no plans to develop your capabilities to allocate emissions to your customers

Select from:
☑ Not an immediate strategic priority

(7.28.4) Explain why you do not plan to develop capabilities to allocate emissions to your customers

It's not important method now.
[Fixed row]

(7.30) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	*Select from:* ☑ Yes
Consumption of purchased or acquired electricity	*Select from:* ☑ Yes
Consumption of purchased or acquired heat	*Select from:* ☑ No
Consumption of purchased or acquired steam	*Select from:* ☑ Yes
Consumption of purchased or acquired cooling	*Select from:* ☑ No

	Indicate whether your organization undertook this energy-related activity in the reporting year
Generation of electricity, heat, steam, or cooling	*Select from:* ☑ Yes

[Fixed row]

(7.30.1) Report your organization’s energy consumption totals (excluding feedstocks) in MWh.

Consumption of fuel (excluding feedstock)

(7.30.1.1) Heating value

Select from:
☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

0

(7.30.1.3) MWh from non-renewable sources

418336

(7.30.1.4) Total (renewable and non-renewable) MWh

418336

Consumption of purchased or acquired electricity

(7.30.1.1) Heating value

Select from:

☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

400687

(7.30.1.3) MWh from non-renewable sources

162547

(7.30.1.4) Total (renewable and non-renewable) MWh

563233

Consumption of purchased or acquired steam

(7.30.1.1) Heating value

Select from:

☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

0

(7.30.1.3) MWh from non-renewable sources

87624

(7.30.1.4) Total (renewable and non-renewable) MWh

87624

Consumption of self-generated non-fuel renewable energy

(7.30.1.1) Heating value

Select from:
☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

11412

(7.30.1.4) Total (renewable and non-renewable) MWh

11412

Total energy consumption

(7.30.1.1) Heating value

Select from:
☑ HHV (higher heating value)

(7.30.1.2) MWh from renewable sources

412099

(7.30.1.3) MWh from non-renewable sources

668506

(7.30.1.4) Total (renewable and non-renewable) MWh

1080605
[Fixed row]

(7.30.6) Select the applications of your organization’s consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	*Select from:* ☑ No
Consumption of fuel for the generation of heat	*Select from:* ☑ No
Consumption of fuel for the generation of steam	*Select from:* ☑ Yes
Consumption of fuel for the generation of cooling	*Select from:* ☑ No
Consumption of fuel for co-generation or tri-generation	*Select from:* ☑ Yes

[Fixed row]

(7.30.7) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Sustainable biomass

(7.30.7.1) Heating value

Select from:

☑ Unable to confirm heating value

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.5) MWh fuel consumed for self-generation of steam

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Nothing

Other biomass

(7.30.7.1) Heating value

Select from:
☑ Unable to confirm heating value

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.5) MWh fuel consumed for self-generation of steam

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Nothing

Other renewable fuels (e.g. renewable hydrogen)

(7.30.7.1) Heating value

Select from:
☑ Unable to confirm heating value

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.5) MWh fuel consumed for self-generation of steam

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Nothing

Coal

(7.30.7.1) Heating value

Select from:
☑ Unable to confirm heating value

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.5) MWh fuel consumed for self-generation of steam

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Nothing

Oil

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

6130

(7.30.7.4) MWh fuel consumed for self-generation of heat

4038

(7.30.7.5) MWh fuel consumed for self-generation of steam

2091

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Calculations were made with reference to the List of Calculation Methods and Emission Factors for the 2023 Emissions Disclosure Scheme (Ministry of the Environment).

Gas

(7.30.7.1) Heating value

Select from:

☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

412206

(7.30.7.4) MWh fuel consumed for self-generation of heat

299

(7.30.7.5) MWh fuel consumed for self-generation of steam

26554

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

385350

(7.30.7.8) Comment

Calculations were made with reference to the List of Calculation Methods and Emission Factors for the 2023 Emissions Disclosure Scheme (Ministry of the Environment).Since exact figures for the fuel used for on-site cogeneration are not known, calculations are based on the power generation efficiency assumed to be 50%, based on the figures for electricity generated.

Other non-renewable fuels (e.g. non-renewable hydrogen)

(7.30.7.1) Heating value

Select from:

☑ Unable to confirm heating value

(7.30.7.2) Total fuel MWh consumed by the organization

0

(7.30.7.4) MWh fuel consumed for self-generation of heat

0

(7.30.7.5) MWh fuel consumed for self-generation of steam

0

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

0

(7.30.7.8) Comment

Nothing

Total fuel

(7.30.7.1) Heating value

Select from:
☑ HHV

(7.30.7.2) Total fuel MWh consumed by the organization

418336

(7.30.7.4) MWh fuel consumed for self-generation of heat

4338

(7.30.7.5) MWh fuel consumed for self-generation of steam

28645

(7.30.7.6) MWh fuel consumed for self-generation of cooling

0

(7.30.7.7) MWh fuel consumed for self- cogeneration or self-trigeneration

385350

(7.30.7.8) Comment

Calculations were made with reference to the List of Calculation Methods and Emission Factors for the 2023 Emissions Disclosure Scheme (Ministry of the Environment). [Fixed row]

(7.30.9) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

Electricity

(7.30.9.1) Total Gross generation (MWh)

204087

(7.30.9.2) Generation that is consumed by the organization (MWh)

204087

(7.30.9.3) Gross generation from renewable sources (MWh)

11412

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

11412

Heat

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

Steam

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0

Cooling

(7.30.9.1) Total Gross generation (MWh)

0

(7.30.9.2) Generation that is consumed by the organization (MWh)

0

(7.30.9.3) Gross generation from renewable sources (MWh)

0

(7.30.9.4) Generation from renewable sources that is consumed by the organization (MWh)

0
[Fixed row]

(7.30.14) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero or near-zero emission factor in the market-based Scope 2 figure reported in 7.7.

Row 1

(7.30.14.1) Country/area

Select from:
☑ Japan

(7.30.14.2) Sourcing method

Select from:

☑ Retail supply contract with an electricity supplier (retail green electricity)

(7.30.14.3) Energy carrier

Select from:
☑ Electricity

(7.30.14.4) Low-carbon technology type

Select from:
☑ Renewable energy mix, please specify **:**Solar power generation, Hydroelectric power generation, Wind power generation,Biomass power generation,

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

134062

(7.30.14.6) Tracking instrument used

Select from:
☑ Contract

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:
☑ Japan

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:
☑ Yes

(7.30.14.9) Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2011

(7.30.14.10) Comment

Name of Japanese electric power company (Kansai Electric Power, Tohoku Electric Power, Chubu Electric Power)

Row 3

(7.30.14.1) Country/area

Select from:

☑ Malaysia

(7.30.14.2) Sourcing method

Select from:

☑ Default delivered electricity from the grid (e.g. standard product offering by an energy supplier), supported by energy attribute certificates

(7.30.14.3) Energy carrier

Select from:

☑ Electricity

(7.30.14.4) Low-carbon technology type

Select from:

☑ Renewable energy mix, please specify **:**Solar,Hydro,Biogas

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

12508

(7.30.14.6) Tracking instrument used

Select from:

☑ GEC

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

☑ Malaysia

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

☑ Yes

(7.30.14.9) Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2023

(7.30.14.10) Comment

1 facility

Row 9

(7.30.14.1) Country/area

Select from:

☑ United States of America

(7.30.14.2) Sourcing method

Select from:

☑ Default delivered electricity from the grid (e.g. standard product offering by an energy supplier), supported by energy attribute certificates

(7.30.14.3) Energy carrier

Select from:

☑ Electricity

(7.30.14.4) Low-carbon technology type

Select from:

☑ Renewable energy mix, please specify **:**Wind, Solar, Biomass, Landfill Gas, Geothermal, or Hydroelectric3

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

219232

(7.30.14.6) Tracking instrument used

Select from:

☑ I-REC

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

☑ United States of America

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

☑ Yes

(7.30.14.9) Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2023

(7.30.14.10) Comment

1 facility

Row 11

(7.30.14.1) Country/area

Select from:

☑ Serbia

(7.30.14.2) Sourcing method

Select from:

☑ Default delivered electricity from the grid (e.g. standard product offering by an energy supplier), supported by energy attribute certificates

(7.30.14.3) Energy carrier

Select from:

☑ Electricity

(7.30.14.4) Low-carbon technology type

Select from:

☑ Hydropower (capacity unknown)

(7.30.14.5) Low-carbon energy consumed via selected sourcing method in the reporting year (MWh)

34885

(7.30.14.6) Tracking instrument used

Select from:

☑ GO

(7.30.14.7) Country/area of origin (generation) of the low-carbon energy or energy attribute

Select from:

☑ Serbia

(7.30.14.8) Are you able to report the commissioning or re-powering year of the energy generation facility?

Select from:

☑ Yes

(7.30.14.9) Commissioning year of the energy generation facility (e.g. date of first commercial operation or repowering)

2023

(7.30.14.10) Comment

1 facility
[Add row]

(7.30.16) Provide a breakdown by country/area of your electricity/heat/steam/cooling consumption in the reporting year.

China

(7.30.16.1) Consumption of purchased electricity (MWh)

56496

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

87624

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

144120.00

Japan

(7.30.16.1) Consumption of purchased electricity (MWh)

150341

(7.30.16.2) Consumption of self-generated electricity (MWh)

103

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

150444.00

Malaysia

(7.30.16.1) Consumption of purchased electricity (MWh)

93032

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

93032.00

Serbia

(7.30.16.1) Consumption of purchased electricity (MWh)

34885

(7.30.16.2) Consumption of self-generated electricity (MWh)

7323

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

42208.00

Thailand

(7.30.16.1) Consumption of purchased electricity (MWh)

564

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

564.00

United States of America

(7.30.16.1) Consumption of purchased electricity (MWh)

227915

(7.30.16.2) Consumption of self-generated electricity (MWh)

0

(7.30.16.4) Consumption of purchased heat, steam, and cooling (MWh)

0

(7.30.16.5) Consumption of self-generated heat, steam, and cooling (MWh)

0

(7.30.16.6) Total electricity/heat/steam/cooling energy consumption (MWh)

227915.00
[Fixed row]

(7.45) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Row 1

(7.45.1) Intensity figure

6.88e-7

(7.45.2) Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

380339

(7.45.3) Metric denominator

Select from:
☑ unit total revenue

(7.45.4) Metric denominator: Unit total

552825000000

(7.45.5) Scope 2 figure used

Select from:
☑ Market-based

(7.45.6) % change from previous year

0.34

(7.45.7) Direction of change

Select from:

☑ Decreased

(7.45.8) Reasons for change

Select all that apply

☑ Change in renewable energy consumption

☑ Change in revenue

(7.45.9) Please explain

Renewable energy procurement has been expanded. In 2022, procurement was limited to Japan and the U.S. In 2023, the scope was expanded to include Malaysia and Serbia. The amount of renewable electricity in each country is also increasing. Meanwhile, sales increased 111% year-on-year, expanding from 497.2 billion yen in 2022 to 552.8 billion yen in 2023.
[Add row]

(7.52) Provide any additional climate-related metrics relevant to your business.

Row 1

(7.52.1) Description

Select from:

☑ Energy usage

(7.52.2) Metric value

7686.9

(7.52.3) Metric numerator

1,000GJ

(7.52.4) Metric denominator (intensity metric only)

sales volume

(7.52.5) % change from previous year

0.06

(7.52.6) Direction of change

Select from:

☑ Decreased

(7.52.7) Please explain

We measure energy consumption figures annually and publish them on our website. We also publish sales intensity figures, and have achieved a decrease of approximately 6% from 14.8 GJ/million yen in 2022 to 13.9 GJ/million yen in 2023.
[Add row]

(7.53.1) Provide details of your absolute emissions targets and progress made against those targets.

Row 1

(7.53.1.1) Target reference number

Select from:

☑ Abs 1

(7.53.1.2) Is this a science-based target?

Select from:

☑ Yes, we consider this a science-based target, and the target is currently being reviewed by the Science Based Targets initiative

(7.53.1.4) Target ambition

Select from:

☑ 1.5°C aligned

(7.53.1.5) Date target was set

07/16/2024

(7.53.1.6) Target coverage

Select from:

☑ Business activity

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

☑ Scope 3

(7.53.1.9) Scope 2 accounting method

Select from:

☑ Market-based

(7.53.1.10) Scope 3 categories

Select all that apply

☑ Scope 3, Category 14 – Franchises

☑ Scope 3, Category 15 – Investments

☑ Scope 3, Category 11 – Use of sold products

☑ Scope 3, Category 8 - Upstream leased assets

☑ Scope 3, Category 2 – Capital goods
☑ Scope 3, Category 6 – Business travel
☑ Scope 3, Category 7 – Employee commuting
☑ Scope 3, Category 5 – Waste generated in operations
☑ Scope 3, Category 12 – End-of-life treatment of sold products
☑ Scope 3, Category 4 – Upstream transportation and distribution
☑ Scope 3, Category 9 – Downstream transportation and distribution
☑ Scope 3, Category 3 – Fuel- and energy- related activities (not included in Scope 1 or 2)
☑ Scope 3, Category 13 – Downstream leased assets
☑ Scope 3, Category 1 – Purchased goods and services
☑ Scope 3, Category 10 – Processing of sold products

(7.53.1.11) End date of base year

12/30/2019

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

296000

(7.53.1.13) Base year Scope 2 emissions covered by target (metric tons CO2e)

295000

(7.53.1.14) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target (metric tons CO2e)

2358244

(7.53.1.15) Base year Scope 3, Category 2: Capital goods emissions covered by target (metric tons CO2e)

129195

(7.53.1.16) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target (metric tons CO2e)

109980

(7.53.1.17) Base year Scope 3, Category 4: Upstream transportation and distribution emissions covered by target (metric tons CO2e)

144053

(7.53.1.18) Base year Scope 3, Category 5: Waste generated in operations emissions covered by target (metric tons CO2e)

10871

(7.53.1.19) Base year Scope 3, Category 6: Business travel emissions covered by target (metric tons CO2e)

1683

(7.53.1.20) Base year Scope 3, Category 7: Employee commuting emissions covered by target (metric tons CO2e)

5723

(7.53.1.21) Base year Scope 3, Category 8: Upstream leased assets emissions covered by target (metric tons CO2e)

0

(7.53.1.22) Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target (metric tons CO2e)

0

(7.53.1.23) Base year Scope 3, Category 10: Processing of sold products emissions covered by target (metric tons CO2e)

4711

(7.53.1.24) Base year Scope 3, Category 11: Use of sold products emissions covered by target (metric tons CO2e)

12044733

(7.53.1.25) Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target (metric

tons CO2e)

231611

(7.53.1.26) Base year Scope 3, Category 13: Downstream leased assets emissions covered by target (metric tons CO2e)

0

(7.53.1.27) Base year Scope 3, Category 14: Franchises emissions covered by target (metric tons CO2e)

0

(7.53.1.28) Base year Scope 3, Category 15: Investments emissions covered by target (metric tons CO2e)

3814

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

15044618.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

15635618.000

(7.53.1.33) Base year Scope 1 emissions covered by target as % of total base year emissions in Scope 1

100

(7.53.1.34) Base year Scope 2 emissions covered by target as % of total base year emissions in Scope 2

100

(7.53.1.35) Base year Scope 3, Category 1: Purchased goods and services emissions covered by target as % of total base year emissions in Scope 3, Category 1: Purchased goods and services (metric tons CO2e)

16

(7.53.1.36) Base year Scope 3, Category 2: Capital goods emissions covered by target as % of total base year emissions in Scope 3, Category 2: Capital goods (metric tons CO2e)

1

(7.53.1.37) Base year Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions covered by target as % of total base year emissions in Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) (metric tons CO2e)

0.73

(7.53.1.38) Base year Scope 3, Category 4: Upstream transportation and distribution covered by target as % of total base year emissions in Scope 3, Category 4: Upstream transportation and distribution (metric tons CO2e)

0.96

(7.53.1.39) Base year Scope 3, Category 5: Waste generated in operations emissions covered by target as % of total base year emissions in Scope 3, Category 5: Waste generated in operations (metric tons CO2e)

0.07

(7.53.1.40) Base year Scope 3, Category 6: Business travel emissions covered by target as % of total base year emissions in Scope 3, Category 6: Business travel (metric tons CO2e)

0.01

(7.53.1.41) Base year Scope 3, Category 7: Employee commuting covered by target as % of total base year emissions in Scope 3, Category 7: Employee commuting (metric tons CO2e)

0.04

(7.53.1.42) Base year Scope 3, Category 8: Upstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 8: Upstream leased assets (metric tons CO2e)

0

(7.53.1.43) Base year Scope 3, Category 9: Downstream transportation and distribution emissions covered by target as % of total base year emissions in Scope 3, Category 9: Downstream transportation and distribution (metric tons CO2e)

0

(7.53.1.44) Base year Scope 3, Category 10: Processing of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 10: Processing of sold products (metric tons CO2e)

0.03

(7.53.1.45) Base year Scope 3, Category 11: Use of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 11: Use of sold products (metric tons CO2e)

80.86

(7.53.1.46) Base year Scope 3, Category 12: End-of-life treatment of sold products emissions covered by target as % of total base year emissions in Scope 3, Category 12: End-of-life treatment of sold products (metric tons CO2e)

1.54

(7.53.1.47) Base year Scope 3, Category 13: Downstream leased assets emissions covered by target as % of total base year emissions in Scope 3, Category 13: Downstream leased assets (metric tons CO2e)

0

(7.53.1.48) Base year Scope 3, Category 14: Franchises emissions covered by target as % of total base year emissions in Scope 3, Category 14: Franchises (metric tons CO2e)

0

(7.53.1.49) Base year Scope 3, Category 15: Investments emissions covered by target as % of total base year emissions in Scope 3, Category 15: Investments (metric tons CO2e)

0.03

(7.53.1.52) Base year total Scope 3 emissions covered by target as % of total base year emissions in Scope 3 (in all Scope 3 categories)

80.06

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

80.8

(7.53.1.54) End date of target

12/30/2030

(7.53.1.55) Targeted reduction from base year (%)

46

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

8443233.720

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

274000

(7.53.1.58) Scope 2 emissions in reporting year covered by target (metric tons CO2e)

106000

(7.53.1.59) Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

2421362

(7.53.1.60) Scope 3, Category 2: Capital goods emissions in reporting year covered by target (metric tons CO2e)

161414

(7.53.1.61) Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

114275

(7.53.1.62) Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

131546

(7.53.1.63) Scope 3, Category 5: Waste generated in operations emissions in reporting year covered by target (metric tons CO2e)

11557

(7.53.1.64) Scope 3, Category 6: Business travel emissions in reporting year covered by target (metric tons CO2e)

1618

(7.53.1.65) Scope 3, Category 7: Employee commuting emissions in reporting year covered by target (metric tons CO2e)

5519

(7.53.1.66) Scope 3, Category 8: Upstream leased assets emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.67) Scope 3, Category 9: Downstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.68) Scope 3, Category 10: Processing of sold products emissions in reporting year covered by target (metric tons CO2e)

4389

(7.53.1.69) Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

13264330

(7.53.1.70) Scope 3, Category 12: End-of-life treatment of sold products emissions in reporting year covered by target (metric tons CO2e)

270190

(7.53.1.71) Scope 3, Category 13: Downstream leased assets emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.72) Scope 3, Category 14: Franchises emissions in reporting year covered by target (metric tons CO2e)

0

(7.53.1.73) Scope 3, Category 15: Investments emissions in reporting year covered by target (metric tons CO2e)

2586

(7.53.1.76) Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

16388786.000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

16768786.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

-15.76

(7.53.1.80) Target status in reporting year

Select from:

☑ Achieved

(7.53.1.82) Explain target coverage and identify any exclusions

Currently, we are focusing on reducing Scope 1 and 2. For Scope 3, we are developing technology to reduce CO2 emissions during use, and we will not be able to achieve Scope 3 reduction in fiscal 2023.

(7.53.1.83) Target objective

We will of course achieve carbon neutrality for scopes 1 and 2 during the manufacturing stage. In addition, for scope 3, we aim to increase CO2 reductions during the usage stage and achieve carbon neutrality, including through carbon offsets.

(7.53.1.85) Target derived using a sectoral decarbonization approach

Select from:

☑ No

(7.53.1.86) List the emissions reduction initiatives which contributed most to achieving this target

Increase in renewable energy electricity purchases
[Add row]

(7.54.3) Provide details of your net-zero target(s).

Row 1

(7.54.3.1) Target reference number

Select from:

☑ NZ1

(7.54.3.2) Date target was set

02/14/2022

(7.54.3.3) Target Coverage

Select from:

☑ Organization-wide

(7.54.3.4) Targets linked to this net zero target

Select all that apply

☑ Abs1

(7.54.3.5) End date of target for achieving net zero

12/30/2050

(7.54.3.6) Is this a science-based target?

Select from:

☑ Yes, we consider this a science-based target, and the target is currently being reviewed by the Science Based Targets initiative

(7.54.3.8) Scopes

Select all that apply

☑ Scope 1

☑ Scope 2

(7.54.3.9) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

(7.54.3.10) Explain target coverage and identify any exclusions

The scope of coverage includes TOYOTIRE and its 37 affiliated subsidiaries.

(7.54.3.11) Target objective

As the impacts of climate change become more severe and societal demands for mobility continue to grow, our Group, which places its mobility business at the core of its business management, recognizes that responding to climate change is the most important issue that will impact our Group's growth, and will proceed to reduce greenhouse gas emissions and expand the usage of clean energy to achieve the long-term targets set by the Paris Agreement. Moreover, we support the TCFD recommendations and will promote climate change initiatives by stimulating dialogue and engagements with stakeholders by disclosing information through a disclosure framework.

(7.54.3.12) Do you intend to neutralize any residual emissions with permanent carbon removals at the end of the target?

Select from:

☑ Yes

(7.54.3.13) Do you plan to mitigate emissions beyond your value chain?

Select from:

☑ No, but we plan to within the next two years

(7.54.3.14) Do you intend to purchase and cancel carbon credits for neutralization and/or beyond value chain mitigation?

Select all that apply

☑ Yes, we plan to purchase and cancel carbon credits for beyond value chain mitigation

(7.54.3.15) Planned milestones and/or near-term investments for neutralization at the end of the target

We aim to go carbon neutral by 2050, and plan to reduce SC1 2 by 46% compared to the 2019 level by 2030. We also aim to reduce SC3 greenhouse gas emissions per tire by 20% compared to the 2019 level by 2030. We will determine future policy based on our performance as of 2030 and future projections.

(7.54.3.17) Target status in reporting year

Select from:

☑ Achieved

(7.54.3.19) Process for reviewing target

Nothing
[Add row]

(7.55) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Select from:

☑ Yes

(7.55.1) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	*22*	*`Numeric input*
To be implemented	*30*	*9500*

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Implementation commenced	*0*	*0*
Implemented	*16*	*19757*
Not to be implemented	*0*	*`Numeric input*

[Fixed row]

(7.55.2) Provide details on the initiatives implemented in the reporting year in the table below.

Row 1

(7.55.2.1) Initiative category & Initiative type

Energy efficiency in buildings

☑ Maintenance program

(7.55.2.2) Estimated annual CO2e savings (metric tonnes CO2e)

19757

(7.55.2.3) Scope(s) or Scope 3 category(ies) where emissions savings occur

Select all that apply

☑ Scope 1

☑ Scope 2 (location-based)

☑ Scope 2 (market-based)

(7.55.2.4) Voluntary/Mandatory

Select from:

☑ Voluntary

(7.55.2.5) Annual monetary savings (unit currency – as specified in C0.4)

309000000

(7.55.2.6) Investment required (unit currency – as specified in C0.4)

2000000000

(7.55.2.7) Payback period

Select from:

☑ 4-10 years

(7.55.2.8) Estimated lifetime of the initiative

Select from:

☑ 16-20 years

(7.55.2.9) Comment

For our 2023 environmental investment, we made a capital investment of approx. 2 billion yen for an expected annual reduction of approx. 20,000 t-CO2. In the case of a full year operation, the expected cost saving from the investment is approx. 309 million yen, and the expected payback period is six to seven years. Moreover, an internal carbon pricing (ICP) of 10,000 yen/t-CO2 has been taken into account when making this investment decision. If we apply 10,000 yen/t-CO2 to the saving of 20,000 t-CO2, an additional investment effect of 200 million yen per year can be expected, which would reduce the payback period to three to four years. As such, we effectively utilize ICPs and promote environmental investments. The estimated activity period is based on the amortization period and actual operating period of the installed equipment.
[Add row]

(7.55.3) What methods do you use to drive investment in emissions reduction activities?

Row 1

(7.55.3.1) Method

Select from:

☑ Dedicated budget for energy efficiency

(7.55.3.2) Comment

While each business division (each factory) implements the plans it proposes and formulates, the relevant division also secures a supplementary budget to devote to emissions reduction activities.

Row 2

(7.55.3.1) Method

Select from:

☑ Dedicated budget for low-carbon product R&D

(7.55.3.2) Comment

In order to reduce the amount of CO2 emitted from tires while driving, we will focus on developing ways to reduce the rolling resistance of the tires themselves.

Row 3

(7.55.3.1) Method

Select from:

☑ Dedicated budget for other emissions reduction activities

(7.55.3.2) Comment

While each business division (each factory) implements the plans it proposes and formulates, the relevant division also secures a supplementary budget to devote to emissions reduction activities.

Row 4

(7.55.3.1) Method

Select from:

☑ Internal price on carbon

(7.55.3.2) Comment

By introducing ICP, we can evaluate the invisible value of CO2 with a monetary index, recognize the CO2 emission costs implicit in our business and investments, and make appropriate decisions regarding decarbonization management.
[Add row]

(7.74.1) Provide details of your products and/or services that you classify as low-carbon products.

Row 1

(7.74.1.1) Level of aggregation

Select from:

☑ Product or service

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:

☑ No taxonomy used to classify product(s) or service(s) as low carbon

(7.74.1.3) Type of product(s) or service(s)

Road

☑ Other, please specify **:**Fuel-efficient tires

(7.74.1.4) Description of product(s) or service(s)

We manufacture, sell, and service tires that meet the following requirements Fuel-efficient tires are tires that meet the following criteria: - Improvement of fuel efficiency

through reduction of rolling resistance and weight reduction Promotion of proper tire inflation pressure and eco-driving awareness activities Promotion of tire labeling system Fuel-efficient tires reduce vehicle fuel consumption by reducing rolling resistance, thereby contributing to the reduction of greenhouse gas emissions in the transportation sector. low-carbon products accounted for about 34% of all products in fiscal 2023, and we plan to further expand this ratio in the future.

(7.74.1.5) Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Select from:

☑ No

(7.74.1.13) Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

34

[Add row]

(7.79) Has your organization canceled any project-based carbon credits within the reporting year?

Select from:

☑ No