

1 Tamron Co., Ltd.

	Companies' approach
① Background and purpose of accounting	<ul style="list-style-type: none"> To measure CO₂ emissions from our corporate activities and reinforce our efforts to reduce our environmental impact.
② Utilization of accounting results	<p>The accounting results are utilized to:</p> <ul style="list-style-type: none"> respond to external environmental surveys as well as communicate our environmental commitments to stakeholders by reporting the accounting results through CSR reports; and identify categories with high environmental impact for which we need to focus our efforts to reduce emissions.
③ Benefits of accounting	<p>The accounting enables us to:</p> <ul style="list-style-type: none"> identify categories with high environmental impact and utilize these findings to take effective action to reduce our carbon footprint; and show our environmental commitments to stakeholders.
④ Internal system for accounting	<ul style="list-style-type: none"> Primary data are gathered from relevant divisions (Business Units, Administration Unit, Information System Office) and calculated by the ISO division.

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	Companies' approach
⑤ Efforts to reduce supply chain emissions	<ul style="list-style-type: none"> We will examine how we can reduce emissions from Category 1 (Purchased goods and services) and Category 4 (Transportation and delivery), which are found to account for a large part of the total emissions.
⑥ Issues in supply chain emissions accounting	<ul style="list-style-type: none"> Issue in last fiscal year <ul style="list-style-type: none"> ① To further improve the accuracy (to improve the accuracy of the weight estimate of Category 4)
⑦ Other	—

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Category	Accounting methods ※Accounting period : January 2018 - December 2018	
	Activity data	Emission factor
Category 1: Purchased goods and services	● Value of components, expendable supplies, services, etc. procured	● SC-DB (*1)
Category 2: Capital goods	● Value of capital investment	● SC-DB (*1)
Category 3: Fuel and energy related activities not included in Scope 1 or 2	● Amount of energy purchased by type (gasoline, heavy oil, electricity, kerosene, etc.)	● CFP-DB (*2)
Category 4: Transportation and delivery (upstream)	● Weight and distance transported (calculation is made based on scenarios established, using the ton-kilometer method)	● SC-DB (*1)
Category 5: Waste generated in operations	● Weight of waste disposed of by type	● SC-DB (*1)
Category 6: Business travel	● Transportation expenses paid for business travel	● SC-DB (*1)
Category 7: Employee commuting	● Transportation expenses paid for commuting	● SC-DB (*1)
Category 8: Leased assets (upstream)	● Floor area of buildings leased for offices	● SC-DB (*1)
Category 9: Transportation and delivery (downstream)	● N/A	● —
Category 10: Processing of sold products	● N/A	● —
Category 11: Use of sold products	● Electricity consumed by and number of products sold	● SC-DB (*1)
Category 12: End-of-life treatment of sold products	● Weight of each component of, and number of, products sold	● SC-DB (*1)
Category 13: Leased assets (downstream)	● N/A	● —
Category 14: Franchises	● N/A	● —
Category 15: Investments	● N/A	● —
Other	● N/A	● —

*1 Emission Factor Database on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain Ver. 2.6

*2 CFP Communication Program Basic Database Ver. 1.01 (data in Japan)

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Supply chain emissions : Accounting results

	Description	Share (%)
Category 1	Emissions from the extraction of resources and the manufacturing and transportation of all goods and services purchased or acquired	66.9%
Category 2	Emissions from the manufacturing and transportation of capital goods purchased or acquired	18.1%
Category 3	Upstream side emissions (resource extraction, production, and transportation) from fuel purchased and the generation process of electricity and heat purchased	1.1%
Category 4	Emissions from suppliers' distribution (transportation, cargo handling, and storage) of goods and services purchased	6.9%
Category 5	Emissions from disposal and processing by parties other than Tamron of waste generated from Tamron's business activities	1.6%
Category 6	Emissions from means of transportation used in the movement of employees of Tamron in operations such as business travel	0.2%
Category 7	Emissions from means of transportation used for commuting to factories or places of business by employees of Tamron	3.9%
Category 8	Emissions from the operation of warehouses and other assets leased by Tamron	0.0%
Category 11	Emissions from consumers' use of products and services sold	0.3%
Category 12	Emissions from the disposal and processing of products sold at the end of their life cycle and their containers and packaging	1.0%