Tamron Co., Ltd.

		Companies' approach	
1	Background and purpose of accounting	 To measure CO₂ emissions from our corporate activities and reinforce our efforts to reduce our environmental impact. 	
2	Utilization of accounting results	 The accounting results are utilized to: 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		
4	Internal system for accounting	 Primary data are gathered from relevant divisions (Business Units, Administration Unit, Information System Office) and calculated by the CSR division. 	

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		Companies' approach
5	Efforts to reduce supply chain emissions	 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	 Issue in last fiscal year To increase the accuracy of data used for the accounting of each category in order to improve the overall accuracy of the accounting results, ⇒further improve the accuracy of the accounting (Category 4) To standardize accounting operations. ⇒finished standardizing (October 2018) Issue in this fiscal year To further improve the accuracy the accuracy the accuracy the accuracy
7	Other	

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Tamron Co., Ltd.

Category	Accounting methods		
Calegory	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.) 	• CFD-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 (optional category) 	• -	

*1 Emission Factor Database on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain Ver. 2.5 *2 CFP Communication Program Basic Database Ver. 1.01 (data in Japan)

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Tamron Co., Ltd.

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	57.9%
Category 2	Emissions from the manufacturing and transportation of capital goods purchased or acquired	22.7%
Category 3	Upstream side emissions (resource extraction, production, and transportation) from fuel purchased and the generation process of electricity and heat purchased	1.5%
Category 4	Emissions from suppliers' distribution (transportation, cargo handling, and storage) of goods and services purchased	9.3%
Category 5	Emissions from disposal and processing by parties other than Tamron of waste generated from Tamron's business activities	2.5%
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	4.7%
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	0.2%
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%