	Companies' approach		
☐ Background and purpose of accounting	 We have been aggressively involved in environmental projects since our founding, centered on "printing," and have been advocating our original "Eco-communications." As part of those activities, we started LCA activities for our products in 2011. Within those activities we have also been aggressively involved in CFP activities and received high praise from our customers. This, in turn, has led us to enlarge our scope to include reducing the environmental load of our products and organizational LCA based on the GHG Protocol. Because it is not mandatory for our company to report to CDP, we have not been involved in Scope 3 emissions accounting because of any obligations. We have decided to disclose our environmental information aggressively because we felt that finding an original approach would help us in the future, and also from a social point of view and as an element that can have a new impact on our business. In this context, we have become involved in the task of supply chain emissions accounting, which we expect can lead our company in new directions. This year, with our environmental efforts and activities so far being highly appreciated, we have been awarded the Encouragement Prize by the LCA Society of Japan (JLCA). At present we must admit the inadequacy of our external communication activities; nevertheless, we will continue to pursue our commitment to carbon management and reduction. 		
☐ Utilization of accounting results	 The accounting results will be used in many ways. We will include them in our integrated reporting for the next business period, and we will post it on our company's web site to disclose the information to our stakeholders. We will also differentiate ourselves from our competitors by further reinforcing our efforts in environment related problems. We will need to respond to requests for disclosure assuming that anything can happen in business in the future. 		
☐ Benefits of accounting	 With regard to our overall activities, by collecting volume and monetary data we can present figures that are not biased towards individual products, so that when we introduce our product loads we can respond to requests for proposals with a firm foundation. In order to be able to present firm expenses against reduction results by comparing areas with high loads and areas with low loads, we are finding our direction by reducing costs and, in the future, by analyzing differences over time. 		
☐ Internal system for accounting	 The IR/CSR Planning Promotion Office has total control over the entire accounting process. Data on Category 1 is collected from the Purchasing Department, for Categories 2 and 6 from the Accounting Department, for Category 7 from the General Affairs Department, and for all of the categories from the Quality Assurance Office (ISO Promotion and Environmental Promotion). 		

	Companies' approach		
□ Efforts to reduce supply chain emissions	 Our recent accounting, by which we have accounted for our emissions under all 15 Categories, found and confirmed that about 70% of our total emissions come from Category 1. Of our Category 1 emissions, paper represents 95%, the highest, and therefore we have realized that environmental consideration for paper becomes all the more important. To reduce the environmental impacts of our paper products, we have developed a new product of "forest thinning-derived paper" that enables the use of forest thinning generated in Gifu Prefecture, the papermaking by Gifu- based paper companies, and then the print processing by our company being a printing company also based in Gifu, in addition to our previous FSC (Forest Stewardship Council)-certified paper products. We will seek to accelerate the establishment of a possible "Gifu-specific business model" by use of Carbon Offset credits generated from forests in Gifu Prefecture. 		
□ Issues in supply chain emissions accounting	 Because at present it is difficult to acquire data from our suppliers with respect to Category 1, we decided to make the calculations by using emission factor. However, because there is only one kind of emission factor for paper, using environmentally-friendly products will not be reflected in the numbers. As a result, promoting environmental considerations for paper has its weaknesses. Because Category 4 involves procurement of materials from a wide range, we adopted the waterless printing PCR scenario of the CFP communications program. However, we hope to improve the accuracy of accounting in the future because the movement distance may seem longer than the actual numbers depending on the interpretation. Because collecting data for consigned production (at subcontractors) is difficult, we have not included it in the calculations at this time. For the future, we ourselves will set emission factors and consider ways to improve accuracy. 		
☐ Other remarks	To increase the coverage and completeness of our recent supply chain emissions accounting compared to last year, we have extended the scope of accounting to include Category 15.		

Cotomorni	Accounting methods		
Category	Activity data	Emission factor	
Category 1: Purchased goods and services	Weight, and monetary value, of main raw materials and other materials procured	Ministry of the Environment DB*	
Category 2: Capital goods	Procurement amount of capital goods	Ministry of the Environment DB*	
Category 3: Fuel and energy related activities not included in Scope 1 or 2	Fuel, electricity and gas energy usage	CFP Basic, and other available DBs Ministry of the Environment DB*	
Category 4: Transportation and delivery (upstream)	Estimated in ton-kilometers by using the printing matter PCR scenario based on waterless printing of the CFP communications program that includes transportation for the procurement, consignment and disposal phases.	CFP Basic, and other available DBs Emission factor per fuel used	
Category 5: Waste generated in operations	Amount of waste discharged, by type	Ministry of the Environment DB*	
Category 6: Business travel	Amount of travel and transportation expenses paid	Ministry of the Environment DB*	
Category 7: Employee commuting	Amount of commuting expenses paid	Ministry of the Environment DB*	
Category 8: Leased assets (upstream)	Not relevant		
Category 9: Transportation and delivery (downstream)	Estimated in ton-kilometers by using the printing matter PCR scenario based on waterless printing of the CFP communications program that includes transportation for the procurement, consignment and disposal phases.	CFP Basic, and other available DBs Emission factor per fuel used	
Category 10: Processing of sold products	Because most of the products sold are finished products, we are assuming that there is no processing at a later time.		
Category 11: Use of sold products	We consider emissions when using paper products to be nil.		
Category 12: End-of-life treatment of sold products	Waste amounts are calculated by using the printing matter PCR scenario based on waterless printing of the CFP communications program.	CFP Basic, and other available DBs	
Category 13: Leased assets (downstream)	Net relevant		
Category 14: Franchises	Not relevant		
Category 15: Investments	Of Scope 1 and 2 emissions from investee companies based on their CSR reports, our emissions allocated are calculated according to the share holding ratio.		

Sun Messe's Scope 3 emissions

