

Category	Accounting methods ※Accounting period : April 2017 – March 2018		
Category	Activity data	Emission factor	
Category 1: Purchased goods and services	 Construction material production> Procurement of major materials (collected by the head office, weight basis) Construction> Diesel and electricity usage (sample about 40 percent of all construction sites to collect data and extrapolate) 	 Construction material production> CO2 emission factor when producing materials (weight basis) ※1 Construction> Emissions coefficient of greenhouse gas emissions calculations, reporting and publicizing system 	
Category 2: Capital goods	Not calculated, because it is extremely microscopic		
Category 3: Fuel and energy related activities not included in Scope 1 or 2	Amount of electricity used	Emission factor per amount of electricity and heat used%2	
Category 4: Transportation and delivery (upstream)	Main material weight x Average transportation distance	CO2 emission factor per ton-km※3	
Category 5: Waste generated in operations	<disposal> ■ Waste disposal amount <transport> ■ Waste disposal amount x Average transportation distance</transport></disposal>	<disposal></disposal>	
Category 6: Business travel	Not calculated, because it is extremely microscopic		
Category 7: Employee commuting	 Fuel usage when two employees use one vehicle for a round trip commute of 30 km Amount of transportation expenses paid 	 Fuel consumption per fuel per maximum carrying capacity%2 Emission factor per amount of transportation expenses paid%2 	
Category 8: Leased assets (upstream)	Not calculated, because it is extremely microscopic		
Category 9: Transportation and delivery (downstream)	No relevant activities		
Category 10: Processing of sold products	No relevant activities		
Category 11: Use of sold products	Construction area by building type x Energy usage per area unit by building type	Emission factor per amount of energy consumed (emission facto per area) ※4	

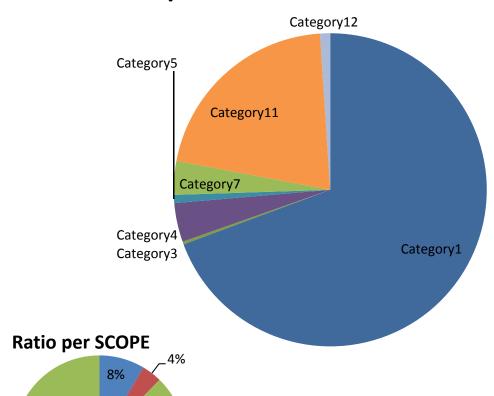
Category	Accounting methods		
Category	Activity data	Emission factor	
Category 12: End-of-life treatment of sold products	<disposal> Waste dismantling amount <transport> Waste treatment amount x Average transportation distance </transport></disposal>	<disposal></disposal>	
Category 13: Leased assets (downstream)	Not calculated, because it is extremely microscopic		
Category 14: Franchises	No relevant activities		
Category 15: Investments	Not calculated because we are not relevant to the applied enterprise provided in the basic guideline		
Other	Not calculated, because it is an option category		

	Source
※ 1	LCA Guidelines for Building 2013 Input Output Table 2005
 2	Emission Factor Database on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver.2.5)
 %3	Emission factors based on our actual values
※ 4	An investigative report on the amount of energy consumed from buildings The Building-Energy Manager's Association of Japan 2018

OBAYASHI CORPORATION

Supply chain emissions: Accounting results

Scope 3 Emissions Ratio



SCOPE1

■ SCOPE2 ■ SCOPE3

88%

Scope 3 Emissions Ratio

Category 1	Purchased goods and services	69.33%
Category 3	Fuel and energy related activities not included in Scope 1 or 2	0.30%
Category 4	Transportation and delivery (upstream)	4.02%
Category 5	Waste generated in operations	0.83%
Category 7	Employee commuting	3.48%
Category 11	Use of sold products	21.01%
Category 12	End-of-life treatment of sold products	1.04%