

List of Database - carbon dioxide emission factor-						
Category1	Category2	Activities	Category3	Name of Database	Name of emission factor	Unit
Electricity	-		-	Ministry of the Environment・Ministry of Economy, Trade and Industry『Emission factor by electric power supplier (for calculation of greenhouse gas emissions of specific emitters)』Results of 2016	Standard emission factors: TEPCO Energy Partner, Incorporated	kgCO2/kwh
Gas	-		-	Ministry of the Environment 『Guidelines for calculating total greenhouse gas emissionsVer. 1.0』 May 2017	Unit calorific value of various fuels and carbon emission factor: City Gas	tCO2/1000Nm3
Water						
	Waterworks		-	CFP program『Basic database』	waterworks	tCO2/m3
	Sewerage		-	CFP program『Basic database』	sewerage	tCO2/m3
Waste material						
	Industrial waste		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per waste type: Waste plastic including transport stage	tCO2/t
	Non-industrial wastes		Waste paper-recycling ・packag and shipping of magazines	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per waste type / treatment method : Paper waste(recycling)	tCO2/t
			garbage incineration	CFP program『Basic database』	General waste (Landfill disposal)	tCO2/t
Internet Server	-		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Input-related table based on input-output table (GLIO2015): Personal computer	tCO2/million yen
Network device	-		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Input-related table based on input-output table (GLIO2015): Electronic computer attachment device	tCO2/million yen
Air conditioning	-		-	Original emission factor (based on the ability of the data center)	-	PUE
Commutation・Business trip						
	Airplane		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per unit of transportation expenses by transport classification: Passenger aircraft (Domestic line)	tCO2/million yen
	Bus		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per unit of transportation expenses by transport classification: car・bus (Buisiness use)	tCO2/million yen
	Train		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per unit of transportation expenses by transport classification:Passenger railway	tCO2/million yen
	Taxi		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per unit of transportation expenses by transport classification:car,taxi	tCO2/million yen
	Ship		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Emission intensity per unit of transportation expenses by transport classification:Passenger vessel	tCO2/million yen
	Hotel		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Input-related table based on input-output table (GLIO：2015) : Accommodation industry	tCO2/million yen
Office supplies	-		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Input-related table based on input-output table (GLIO：2015) : Office supplies	tCO2/million yen
Manufacturing of magazines						
	High-quality recycled paper (including waste paper over 70%)		-	Japan Paper Association.・Committee of Life Cycle Assessment『CO2 emissions in paper and paperboard life cycle』18th May 2011	CO2 emissions of major products: PPC	kgCO2/ t
	High-quality coated paper		-	Japan Paper Association.・Committee of Life Cycle Assessment『CO2 emissions in paper and paperboard life cycle』18th May 2011	CO2 emissions of major products: high-quality coated paper	kgCO2/ t
	Fine coating paper		-	Japan Paper Association.・Committee of Life Cycle Assessment『CO2 emissions in paper and paperboard life cycle』18th May 2011	CO2 emissions of major products: fine coating paper	kgCO2/ t
	Woodfree printing paper		-	Japan Paper Association.・Committee of Life Cycle Assessment『CO2 emissions in paper and paperboard life cycle』18th May 2011	CO2 emissions of major products: Woodfree printing paper	kgCO2/ t
	Special coated board		-	Japan Paper Association.・Committee of Life Cycle Assessment『CO2 emissions in paper and paperboard life cycle』18th May 2011	CO2 emissions of major products: special coated board	kgCO2/ t
Transport						
	Magazines					
		Printer~ Publishing agency	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Input-related table based on input-output table (GLIO：2015) :Freight	tCO2/million yen	
		Publishing agency~ Retail store	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Fuel consumption per transport ton-kilometers by loading rate by maximum loading capacity by fuel: Small freight car / ordinary freight car, light oil	tCO2 /Ton-kilometer	
	Letter-post		-	Ministry of the Environment『Emission intensity unit database for calculating greenhouse gas emissions of organizations through supply chain (Ver.2.5) 』	Input-related table based on input-output table (GLIO2015) : Mail / letter flight	tCO2/million yen