

Calculation methods for environmental load data

Hitachi collects Group-wide environmental load data using the Environmental Data Collection System called Eco-DS. The standards, guidelines, etc. below are used for determining the scope, base year data, calculation methods, etc.

Environmental Information Item	Standards, Guidelines, etc.
Energy	<ul style="list-style-type: none"> ISO 14064-1, which is based on the Greenhouse Gas Protocol (GHG Protocol) developed by the World Business Council for Sustainable Development Manual for Calculating and Reporting Greenhouse Gas Emissions, Ver. 4.3.2 (Ministry of the Environment, Japan)
Waste	<ul style="list-style-type: none"> Japan's Waste Disposal and Public Cleansing Law Flow of Industrial Waste Treatment (Ministry of the Environment, Japan)
VOCs and other chemical substances	<ul style="list-style-type: none"> Japan's Pollutant Release and Transfer Registers (PRTR) Law

Scope of negative impact calculations

Hitachi perceives its negative impact activities as including the emission of greenhouse gases and chemical substances into the atmosphere and the generation of waste materials. By quantifying such impact using LIME2*1, Hitachi is advancing initiatives to reduce its negative impact.

		Items	
		Input	Output
Scope of Calculation	Procurement of Raw Materials	<ul style="list-style-type: none"> Raw materials used: Metal, Non-metal, etc. 	-
	Production	<ul style="list-style-type: none"> Energy Used: Electricity, Gas, Light oil, etc. Water Used: Tap water, Industrial water, Groundwater, etc. Chemical Substances handled: PRTR substances handled. Land Used*2 	<ul style="list-style-type: none"> Waste and Valuables: Industrial waste, General waste, Valuables, etc. Emissions into Atmosphere: GHGs, SOx, NOx, VOCs, etc. Water Effluents Discharged: Sewerage, BOD, COD, etc.
	Transport	<ul style="list-style-type: none"> Products transported: Tonne-kilometre, only in Japan 	-
	Use	<ul style="list-style-type: none"> Energy Used: Electricity, Light oil, etc. 	-
	Waste Disposal/Recycling	-	<ul style="list-style-type: none"> Collection/Recycle of end-of-use products.

*1Life-cycle Impact assessment Method based on Endpoint modeling (Version 2), Research Center for Life Cycle Assessment, Japan.

*2The average site area of one hundred major manufacturing sites in the Hitachi Group multiplied by the number of target sites.