

50% Reduction in Environmental Impact by 2015

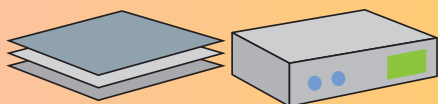
The TEL Group has assessed the impact of its products on the environment throughout their entire lifecycle—from procurement of major components, manufacturing and logistics to product use. Based on this assessment, we established a goal for the year 2015 and are promoting measures to reduce environmental impact.

Technology for Eco Life

In May 2008, the TEL Group spelled out its environmental commitments, under the environmental action slogan: “Technology for Eco Life.”

As part of these commitments, a goal was established to develop products that will enable customers to reduce the overall environmental impact at their factories by 50% and the decision was also made for the TEL Group to seek to reduce the environmental impact associated with its business and logistics activities by 50% by 2015. This page provides an overview of the environmental impact within each phase of the product lifecycle in FY2008, which is the baseline of comparison for the 2015 goal, as well as introducing activities related to reducing that impact, and information on TEL’s environmental commitments.

Material Procurement



TEL procures from suppliers the materials and parts necessary for its semiconductor and FPD production equipment. In order to supply products that satisfy customers, TEL is working with its suppliers to ensure that procurement of materials is environmentally considerate by comprehensively evaluating functions, performance, quality, price, and delivery lead-time.

Plants and Offices



Products are manufactured and assembled inside clean rooms that are kept free of dust. TEL is working to reduce environmental impact at its plants and offices through measures that include reducing the energy and resource requirements of its clean rooms by improving operational management of air-conditioners and introducing energy-saving devices, conserving resources, and reducing the volume of waste generated.

Environmental impact in each product lifecycle phase in FY2008

CO₂ Share of CO₂ emissions in each lifecycle phase (%)

Approx. 200,000 tons of CO₂

8%

Environmental impact during material manufacturing

115,000 tons of CO₂

5%

Energy use in plants and offices

CO₂ emissions estimated by TEL

Steps that TEL Group is taking to achieve its environmental commitments

Lifecycle phase	Activity description	Steps being taken to achieve commitments
Material procurement	Working with suppliers to reduce regulated chemical substances contained in suppliers’ products and reduce energy requirements for those products	Request cooperation from suppliers to achieve those reductions for their business activities and products
Plants and offices	Reducing CO ₂ emissions from plants and offices through energy conservation measures	Aim to reduce the total CO ₂ emissions per unit of sales from the Group’s plants, offices, and logistics operations by 50% compared to the 2007 level by 2015 (monitor goals and improvements for both total emissions and emissions per unit of sales)
Logistics	Promoting a modal shift in Japan and overseas, and improving packaging materials	
Product use	Promoting reductions in the overall environmental impact at customers’ factories by reducing the environmental impact of TEL’s products	Develop equipment that will enable customers to reduce the overall environmental impact at their new plants to be built in 2015 by 50% compared to the 2007 level; establish comprehensive standards on environmental impact (including energy usage by production equipment, impact on facilities, chemical substances used in semiconductor production processes, and generated waste at customers’ factories)

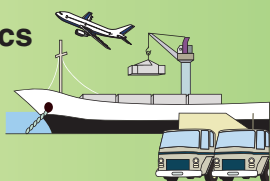
Tokyo Electron supports a strong global community and strives to achieve a society in harmony with the environment. We are committed to creating an environmentally-benign society together with our customers by providing advanced technologies and services.



Tokyo Electron's Commitment

- We aim to develop equipment that enables a 50% reduction—compared to the 2007 levels—of the total environmental impact of new customer factories scheduled for completion in 2015 or later.
- We aim to reduce the impact of our business and transportation activities on the environment by 50%, by 2015, compared to the 2007 levels.
- We will strive to achieve these commitments in partnership with our stakeholders.

Logistics



Manufactured products are kept clean and protected against vibration and shock when transported to customer sites via truck, ship, or aircraft. TEL is aiming to reduce the impact on the environment of its logistics operations by switching to transportation means that have a lower environmental impact.

145,000 tons of CO₂

6%

Logistics operations in Japan and overseas

Product use



Following installation and inspection, equipment begins to be used to produce semiconductor devices and FPDs. TEL is focusing on measures that will reduce the environmental impact of each piece of its equipment during its use. In addition, after equipment is sold, TEL takes steps to extend its service life through repair and maintenance, and implements modifications that contribute to energy conservation.

81%

Approx. two million tons of CO₂

Environmental impact from one-year use of the Group's products (calculations assume the use of 300-mm systems)

TEL Group's Input/Output

The figures on the right show the energy and resource input/output at the Tokyo Electron Group's manufacturing plants and offices in FY2009. We accurately assess and analyze the Group's environmental impact and are striving to reduce it through improvements in efficiency.

In FY2009, a substantial reduction in the volume of shipments led to reductions in environmental impact for nearly all items. Our 2015 goal focuses on reducing CO₂ emissions, but we will continue to reduce other types of environmental impact as well.

Input			Output		
	FY2009	Change from FY2008		FY2009	Change from FY2008
Electricity	249.66 million kWh	(-7.6%)	Total product shipment	14,977 tons	(-45.2%)
Gas	1,196 km ³	(-19.1%)	CO ₂	116,077 t-CO ₂	(+2.6%)
Fuel	2,319 kl	(-11.2%)	NOx	11.1 tons	(-8.3%)
Water	1,139 km ³	(-3.6%)	Wastewater	1,127 km ³	(-3.7%)
Chemical substances (regulated under the PRTR Law as Type I chemical substances)	9.7 tons	(-21.8%)	Waste	10,774 tons	(-12.5%)
Paper (copy paper)	120 tons	(-64.4%)	Recycled amount	10,486 tons	(-12.2%)
			Amount of waste simply incinerated and disposed of in landfills	288 tons	(-21.3%)