

EHS Activity Goals and Results

TEL has set goals for EHS activities and is promoting those activities throughout the group.

Goals and results for EHS activities in FY 2005

	Action plan in FY 2005	Results	Evaluation	Plans and goals for FY 2006 onward	Page in report
Product initiatives for the environment	Perform life cycle assessments	Performed for newly-developed equipment	○	Continue to perform	P18
	Implement lead-free solder in products	Identified issues in customer's plants, prepared investigations for technical standards, etc.	○	Address issues, prepare for start of production in January 2006	P20
	Green procurement	Surveyed components at suppliers for hazardous substances in accordance with guidelines on substances banned or subject to reduction in products and with JGPSSI* survey	○	Construct system enabling creation of component database with survey results and use of the database during component searches or ordering	P21
Environmental activities at each plant or office	Reduce energy consumption (1% decrease in CO ₂ emissions per unit of sales, as based on Law Concerning the Rational Use of Energy)	Actual CO ₂ emissions increased, but fell 12% per unit of sales since previous year	○	Continue to promote energy conservation and aim to get closer to 1997 level of energy consumption per unit of sales	P22
	Zero emissions	Accomplished at four plants in Kyushu region and in Yamanashi, Tohoku, Miyagi and Amagasaki; recycling rate for the entire group raised to 96%	◎	Promote zero emissions and waste reduction programs in regions other than manufacturing plants	P23
	Continue tracking the amount of chemicals used that are subject to PRTR reporting	Determined amounts of relevant substances used, identified where they are emitted to, and tracking for the group overall from this fiscal year	○	Continue surveys	P25
Health and safety	No accidents requiring 4 or more days off; 30% reduction in injury accidents from previous fiscal year	Some accidents required employees to take 4 or more days off; there were increases both in rate and absolute number of injury accidents over previous year	×	For FY 2006, set goals for accidents requiring emergency measures, office accidents, ergonomically caused accidents, etc. and work to reduce them	P26,27
EHS management	Continue TEL Eco-Activities (simple EMS) at office facilities	Acquired ISO 14001 certification at Tokyo Electron Device Yokohama office	○	Examine introduction of web-based environmental training	P12,29
	Introduce occupational safety and health management systems in manufacturing plants	Promoted risk assessments at plants where they had not been introduced yet	○	Execute meaningful risk reduction plans, verify their effects	-
	EHS mutual assessments	Added and performed checks addressing environmental performance and product EHS to the existing EHS mutual assessment procedures for work safety	○	Perform assessment in each region using assessment methods to which new elements have been added	P12
	Promote activities at overseas offices	Began tracking state of safety training in Asia via the web	○	Investigate how environmental training is conducted; introduce into new regions; track state of training via the web	P29

○ Achieved target △ Achieved 80% of target × Achieved less than 80% of target

* JGPSSI: Japan Green Procurement Survey Standardization Initiative

Safety and the environment: critical considerations in the development stage

This section summarizes safety and environmental initiatives in the year ended March 2005 from the viewpoint of managers in the field.

In the realm of safety, TEL has reviewed the safety of each type of production equipment it provides. TEL has been designing and developing its production equipment based on the safety standards promulgated by SEMI*, among other sources, but the latest review also considered safety during start-up, maintenance and other times when the equipment is not actually running. Another item considered was the importance of reducing equipment weight in order to lessen the physical burden imposed during start-up and maintenance. Although this objective is in direct conflict with the recent trends to larger sizes and weights of semiconductor production equipment, TEL is emphasizing ergonomic engineering in its design in order to reconcile these opposing goals.

As for the environment, customers are increasingly requiring that we reduce not just equipment voltage but overall environmental burden. TEL is aware that the environmental burden of our products is greatest during equipment operation, and we are working to mitigate this burden by starting at the design and development stage.



Masaki Kaneko
Director
Environment, Health & Safety Center
Tokyo Electron Limited

As the awareness of product standardization has grown, we have created a foundation for building in eco-friendliness and reducing the physical burden to workers.

Until recently, TEL's approach to each customer's order was to create a completely new design meeting the customer's needs in his order for semiconductor and FPD production equipment. Now, however, we have begun to promote standardization. Our designs employ common platforms, and a variety of modules are assembled onto the platforms. It is essential to standardize equipment in order to further the goals of production equipment safety and protection of the environment, so we see our current efforts as simply preparation for reaching further objectives. There is plenty of room for further standardization. This process will be continued for equipment, designs and components.

Meanwhile, we are tackling another issue, that of cutting employees overtime. One example of this is that whereas extra workloads once fell on a certain few departments or employees, now, as the spirit of "kaizen" spreads from the management to employees, there is much more equality in the sharing of the workload.



Hirofumi Kitayama
President and
Representative Director
Tokyo Electron AT Limited

* SEMI: Semiconductor Equipment and Materials International: An international industry group consisting of manufacturers of semiconductor and FPD production equipment and materials