

ENVIRONMENTAL, HEALTH AND SAFETY ACTIVITIES

Tokyo Electron's corporate missions include placing the highest priority on people's health and safety and taking the global environment into account when conducting business activities.

Fundamental Policy

Tokyo Electron positions environmental, health and safety activities as one of its most important management issues to achieve both sustained corporate growth and the continued development of society. With that in mind, Tokyo Electron is committed to reducing the environmental impact of all its activities, and to ensuring absolute safety in the Company's facilities and in those of its customers.

In order to accelerate our environmental response activities, in May 2008 we codified Tokyo Electron's environmental commitment, selecting "Technology for Eco Life" as a slogan to guide our environmental activities. One of the stipulated goals of this commitment is to develop production equipment that will enable customers to cut the total environmental burden of their factories in half by 2015, and also to cut the Company's own environmental burden from business activities and logistics in half by the same date. Moreover, to develop these environmental, health and safety initiatives, we believe that it is vital to promote communication with all stakeholders as well as to receive and give feedback. In line with this philosophy, we are also actively engaging in activities that contribute to society.

EHS Management

Since 1997, Tokyo Electron has developed and implemented environmental management systems based on ISO 14001 standards, mainly for the plants conducting manufacturing operations, and obtained the relevant certification. Furthermore, to enhance the workability and effectiveness of the EHS Management System, we are raising the level of the continuous audits that check the system and its results. These audits are performed from various viewpoints: from within the workplace or the Group, or by a third party.

Initiatives to Reduce the Environmental Burden of Products

Proactive Environmentally Conscious Product Design

Tokyo Electron believes that the promotion of product designs sensitive to the environment is vital. In particular, Tokyo Electron has positioned promotion of energy conservation in its products, as well as the reduction and replacement of regulated hazardous chemicals, as priority issues.

1. Initiatives to Reduce the Environmental Impact During Equipment Usage

Based on our roadmap for reducing the environmental burden of all business departments, we developed our approach to such policies as reducing our energy requirements, and the industrial gases and chemical substances used. Doing so required working in

cooperation with our customers and adjusting our approach to each product's characteristics in a multi-faceted manner. We are actively implementing initiatives to achieve these goals. Furthermore, we are working to reduce the total environmental burden during product usage: not merely of our products, but also of the peripheral machinery owned by customers, as well as determining the optimal form of product usage.

2. Initiatives Regarding Hazardous Substances in Products

As an environmental measure, Tokyo Electron promotes efforts to reduce hazardous chemical substances in its products. Chemical substances contained in the units and parts used in products are managed in a dedicated database. Tokyo Electron has positioned those products in which at least 98.5% of the constituent parts meet standards stipulated by the Europe RoHS directive* as "equipment containing reduced amounts of chemicals." Shipment of these products first began in October 1, 2008.

* Refers to the "Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment" directive in Europe (2002/95/EC) and amendments thereto. With the exception of certain applications excluded from its scope, this directive prohibits the inclusion of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE over a maximum prescribed amount in products. (European Directive 2002/95/EC on the restriction of the use of certain hazardous substances in the manufacture of electrical and electronic equipment)

Health and Safety Activities

Tokyo Electron promotes health and safety in all of its operations. This includes giving top priority to the health and safety of our employees and customers and designing products with safety in mind.

In fiscal 2011, the number of accidents and injuries, including those requiring first-aid alone, rose year on year across the entire Tokyo Electron Group, including overseas. The main reasons for this are judged to be increases in production and shortening of delivery periods initiated in order to expedite the launch of products to the market. Moving forward, all of Tokyo Electron will unite in promoting activities to prevent accidents across the board and maintain a safe environment at the workplace. Such activities will include the further strengthening of provision of safety education for workers, on-site safety measures, and site patrols by management supervisors.

For further details, see "Environmental and Social Report 2011" (to be published in October 2011).

<http://www.tel.com/eng/citizenship/ehsreport.htm>



Tokyo Electron's Commitment

The Tokyo Electron Group has assessed the impact of its products on the environment throughout their entire lifecycle—from the procurement of major components, through manufacturing and

logistics to product use. Based on this assessment, we established an environmental goal for the year 2015 and are promoting measures to reduce environmental impact.

- 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.
- 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.



Progress on Achieving Environmental Commitment

Tokyo Electron has set a goal of achieving a 50% reduction of per-unit CO₂ emissions by 2015 compared with 2007. Already, we have the potential to achieve this target in our products per 300mm wafer unit produced. In terms of logistics, we are endeavoring to switch shipment from air to marine freight for deliveries to customers. To facilitate this switch, we are striving to shorten manufacturing

timelines to provide more time for shipping, and to reduce the number of parts to reduce weight, along with increasing local production. We will continue to work with customers in halving our logistics burden per ton-kilometer. At our manufacturing sites, we have continued to make environmental investments with the goal of reducing CO₂ emissions. In addition, we have taken concrete measures to conserve power in response to power consumption restrictions following the Great East Japan Earthquake. As part of these measures, we are speeding up plans to install solar power generation systems at the Yamanashi plant and the new Miyagi plant.

We have also instituted carbon offset initiatives based on Domestic CDM (Clean Development Mechanism) as part of the plan to halve emissions per unit of sales.

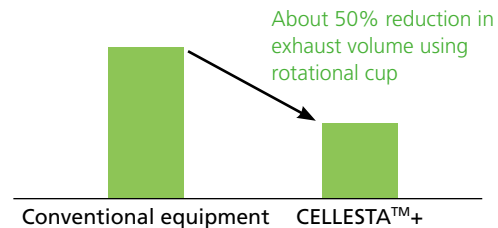
In recent years, it has become imperative to make significant reductions in the amount of power mobile electronics like smart-phones consume. We will continue to support the realization of more energy-efficient semiconductors and flat panel displays manufactured using our equipment as a way to contribute to the CO₂ reduction efforts of society at large.

Cleaning System Initiatives

In addition to the high controllability required for miniaturizing and enhancing the performance of devices, the CELLESTA™+ single wafer cleaning system enables a smaller footprint (installation area) with 12 spinners*¹ by reducing the size of the process chambers. Wafer spin chambers require spatter control of process liquids and atmosphere control, but the input and output of large amounts of air are necessary to control these during high-speed spin processing. The CELLESTA™+ uses the “rotational cup” concept, in which the spin chambers rotate in synchronization with the wafers. This provides not only a 50% reduction in exhaust air compared with conventional systems but also enables downsizing of process chambers and enhancing of productivity per unit area and C.o.O*².

*1 Spinner: a device that creates thin films through centrifugal force by rapidly rotating flat and smooth base materials.

*2 C.o.O (cost of ownership): total expenses required for installing, operating, and managing facilities/equipment, etc.



Features of CELLESTA™+

1. High throughput: maximum 333 wafers/hour
2. New spinner model: 12 process spin chamber
3. Enables built-in chemical supply circulation unit
4. TEL original IPA drying technology enables watermark-free drying
5. New atomized spray (AS3) for high particle removal efficiency (PRE) with fine patterns and non-damaging cleaning
6. Utilizes the highly reliable CLEAN TRACK™ LITHIUS Pro™ coater/developer handling technology



Status of Tokyo Electron Group's Environmental Initiatives

Organization dedicated to the environment	Corporate Environment Promotion Dept.
Highest responsibility for the environment	Board of Directors and Board of Executive Officers
Environmental audits	Internal and external audits each conducted yearly; other irregular inter-Group audits
Introduction of environmental management systems	Acquired ISO 14001 at 8 plants and offices
Zero emissions of waste	Achieved at all domestic manufacturing bases; recycled products used in-house
Setting of energy conservation targets	Implementing energy-saving products and energy-saving targets at plants and offices
Environmental training for employees	Conducted for all employees
Punished for violating environmental regulations?	Tokyo Electron has never been punished for this