






# Environmental Management

## 【FY 2004 Results of the Third Environmental Action Plan】

Our environmental efforts have been undertaken in accordance with our annual plan, which was developed based on the medium- and long-term plan described in the Third Environmental Action Plan (FY 2002 ~ FY 2006). In FY 2002, zero landfill was attained by all plants (see p. 25). In FY 2003, 1PRTR substance reductions met the FY 2006


target. In FY 2004, the total elimination of 2VOC customer-prohibited substances was completed. Thus, our environmental efforts have brought about solid achievements. We will continue to work toward further reduction in environmental hazards by setting higher goals and reviewing the Third Environmental Action Plan.

### 1 Developing environmentally friendly products and technologies Very good Good Needs more effort (Evaluation is based on company-established standards)

Item	Action policy	Targets for FY 2004	Results of activities during FY 2004	Page	Evaluation
<b>1</b> Preliminary environmental evaluation	Augmentation of preliminary evaluations from the development and design stages	Research on 3LCA (Life Cycle Assessment) methods for products • Establishment of Database: 1	Development of a new database • The Aisin LCA calculation manual was developed.	P15	
<b>2</b> Development of clean-energy equipment	Product development for EV and life & energy related products	Development and promotion of eco-friendly green products • Development concepts: 4	Development of milestones for the four key subjects and implementation activities • Home fuel-cell cogeneration systems were developed and promoted.	P19	
<b>3</b> Measures to counter global warming	Product and technology development linked to reduction of CO2 emissions	Weight reduction of automotive parts in liaison with customers (conducted in five fields including body-related products and brake- and chassis-related products)	Development of weight reduction for 47 subjects in 5 fields • Swivel seat adjuster (high-tension materials down 40%), etc.	P17 P18	
<b>4</b> Improvement of recyclability	Design with consideration for recyclability, development of recycling technology, and expansion of recyclable materials	Improvement of recycling design manuals	Development and use of the Calculation Manual for Potential Recycling Rate	P20	
<b>5</b> Management and reduction of environment-impacting substances	Augmentation of management and effective reductions through preliminary evaluations	Hexavalent chromium-free manufacturing • Complete elimination by July 2006  Lead-free manufacturing • Reduced to 10% by FY 2007 (based on the FY 1997 levels)	Special committee on hexavalent chromium-free manufacturing Company-wide efforts are undertaken for total elimination  Lead-free manufacturing has been attained for electro-deposition coating, rubber products, and motor brushes (down 0.2 t/year).	P21	

### 2 Saving resources and enhancing recycling activities based on the spirit, "effective utilization of limited resources"

### 3 Minimizing environmental impact waste in manufacturing and implementing stringent environmental management

Item	Action policy	Targets for FY 2004	Results of activities during FY 2004	Page	Evaluation
<b>6</b> Measures to counter global warming	Active promotion of measures to reduce CO2 emissions	Reduction activities • Carbon dioxide emissions: 191,000 ton/year  100% application of the subject against the carbon dioxide reduction target for FY 2006 (Reducing the total amount of emissions by 5% compared to the FY 1991 level)	Carbon dioxide emissions: 188,000 ton/year • Target achieved • 6200 kW large-type cogeneration system has begun operation • Development of an hydraulic inverter pump (for machining processes)  Carbon dioxide emissions strategy was reviewed, and the application rate improved by an innovative construction system: 127%	P23-24	

1. PRTR...This system requires reporting to the national government the emissions and transfer of environmentally hazardous substances that are regulated by law.

2. VOC...Volatile organic solvents

3. LCA...An evaluation method to determine the effect a product has on the environment throughout its life cycle, from extraction of raw materials through production, transport, and usage to disposal

Item	Action policy	Targets for FY 2004	Results of activities during FY 2004	Page	Evaluation
<b>7</b> Management and reduction of environment-impacting substances	Augmentation of one layer of control for chemical substances and reduction of release of substances designated by the PRTR system	Improvement of the PRTR-listed substance tabulation system  Emissions of PRTR-listed substances: 113 t/year	The PRTR-listed substance tabulation system put into use and improved  Emissions of the PRTR-listed substances: 109.5 t/year	P30	😊
<b>8</b> Reduction of waste materials and conservation of resources	Promotion of waste-reduction and resource-conservation activities aimed at zero emissions	Incineration waste materials: 184 t/year  Amount of waste materials treated by contractors: 192 t/year	Incineration waste materials: 124 t/year Amount of waste materials treated by contractors: 127 t; target achieved • Reuse of filtered liquid wastes; metals recovered from sludge; recycling of waste plastics as valuables by crushing	P25•26	😊
<b>9</b> Streamlining of logistics	Active promotion of streamlined logistics geared toward reduction of CO <sub>2</sub> emissions and reduction of packing and packaging materials	Carbon dioxide emissions during transport: 13,900 t/year  Amount of packing and packaging materials: 5,021 t/year	Carbon dioxide emissions during transport: 12,300 t/year Joint transport and *modal-shift, etc.  Packing Materials: 5,018 t/year • Improved packing capacity for overseas-bound products	P32	😊

#### **4 Promoting environmental preservation through close information-sharing with the government and customers and through cooperation and support with suppliers and overseas manufacturing companies**

#### **5 Intensifying public relations, education, and corporate citizenship activities**

Item	Action policy	Targets for FY 2004	Results of activities during FY 2004	Page	Evaluation
<b>10</b> Augmentation of affiliated-organization activities	Augmentation of activities with customers, Aisin cooperative associations, etc.	Support Toyota consolidated environmental management Operation of Aisin consolidated environmental management and preparation for establishing overseas bases Provide support for the acquisition of ISO14001 certification by overseas manufacturing companies (five companies)	Participated as a group member in the operation of the Toyota Consolidated Environmental Management Held semi-annual sessions of the Aisin Consolidated Environmental Committee. Planned and prepared for the North American Environment Conference • An energy-saving and environmental conservation workshop was held by group member companies	P33 P34	😊
<b>11</b> Environmental considerations at overseas subsidiaries	Support for acquisition of ISO 14001 certification	Inspection and guidance for suppliers' environmental management systems [30 companies]	Three out of five companies obtained ISO 14001 certification (receipt of official certificate pending) Performed inspections on major suppliers and provided guidance for 33 companies	P13 P31	😊
<b>12</b> Corporate citizen activities	Active participation in regional communication activities	Provide opportunities for communication with the community  Improve environmental conservation in the community, and clean the area in and around factories	Held regional discussion meetings for each area Held environmental meetings Developed beautification activities for each area • The Fisheries Cooperative Association of Aburagafuchi presented a certificate of appreciation for our environmental conservation efforts.	P38 P45•46	😊
<b>13</b> Public-relations activities and dissemination of information	Augmentation of provision of environmental information	Preparation and issuance of an environmental report	Japanese and English versions of the Environmental Report 2003 were issued and published on the company Web site. • Issue date of the report was brought forward to the end of July from the end of September.	P51	😊
<b>14</b> Training and awareness activities for employees	Increasing level of knowledge and awareness among employees	Implementation of company-wide environmental training and classes Raise awareness by having an environmental month and monthly energy saving events	Education and training opportunities were provided for environmental managers, workers, and new section managers (9 times/year) Held an environmental lecture (July 2003)	P44	😊

#### **6 Action system -- Promotion by Aisin's Environment Committee**

Item	Action policy	Targets for FY 2004	Results of activities during FY 2004	Page	Evaluation
<b>15</b> Promotion of comprehensive environmental management	Refinement of environmental management organization	Review of the company-wide environmental management organization and improvement of rules and regulations Receiving a registration audit to renew ISO 14001 certification	Reviewed the company-wide environmental management organization in line with the new management system • Reviewed all rules and regulations • Held regular meetings of each environmental committee Received the registration audit to renew ISO 14001 certification	P10  P13	😊

4.Modal shift...To change the methods of transporting products