

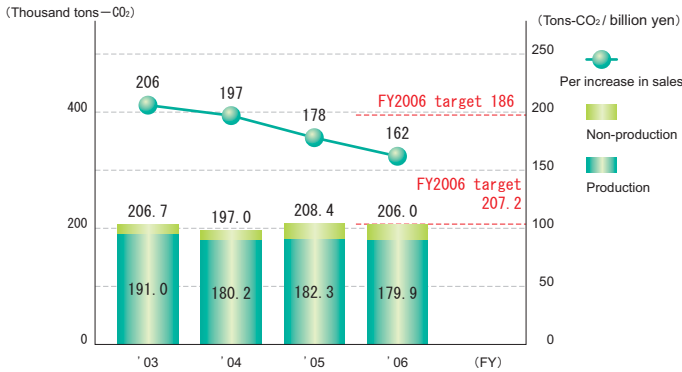
Production and Logistics

Active Promotion of Measures to Reduce CO₂ in Production Activities

From FY2006, the scope of our CO₂ emission volume reduction activities will also include non-production bases such as the offices of our Main Building and the Technical Building, and also other buildings such as the new Development Center. In addition, our new Fourth Action Plan initiated our FY2010 target to make total emission volume less than 192,600 tons-CO₂.

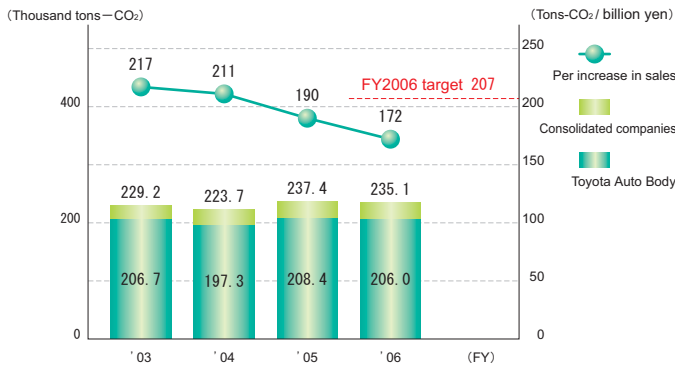
CO₂ Emission Volume

Toyota Auto Body



※For viewing activity results of total CO₂ emission volume, we are expanding activities for individually decreasing base units 30% individually for previously levels that do not include large scale new and added infrastructure processes after FY2006.

Global Consolidation



※Scope of Global Consolidation

- Toyota Auto Body : All processes (production + non-production)
- Domestic : Tokai Utility Motor Co., Ltd., Toyota Body Seiko Co., Ltd., Ace Industry Co., Ltd., Tokai Parts Industry Co., Ltd.
- Overseas : P.T. Sugity Creatives Co., Ltd., Chun Shyang Shin Yeh Industry Co., Ltd.

(Caution) There are changes above that follow the initiation of our Fourth Environment Action Plan. Reports up through last year only covered production processes; however, this year we have added non-production processes. For domestic consolidation, affiliate companies (Gifu Auto Body Co., Ltd., and Tokai Tekko Co., Ltd.) were included, but only consolidated companies were included in this report.

Energy-Saving Cooling Tower Used for Spot Cooling (Tokai Utility Motor Co., Ltd. example)

We decreased energy losses by using a plant air pressure sensor that automatically operates the power for the cooling tower instead of having an operator manually turn ON and OFF a cooling tower power switch.



Comprehensive Energy Saving for Air Conditioning Equipment in Part Assembly Plants

We made efforts for total reductions in energy for air conditioning equipment installed in part assembly plants.

① **Use of Vaporized Heat**

- An increase in heat efficiency by water spouting mist sent to the heat exchanger of the exterior air conditioner
- Decreased heat from the sun's rays by spreading water over the roof during the summer months

② **Use of non-heat**

- Use heat sent to a heat pump in the machine room of a nearby section of the plant

③ **Reduced energy loss from pipe resistance**

- Reduction in energy of water sent by a pipe resistance reducing agent

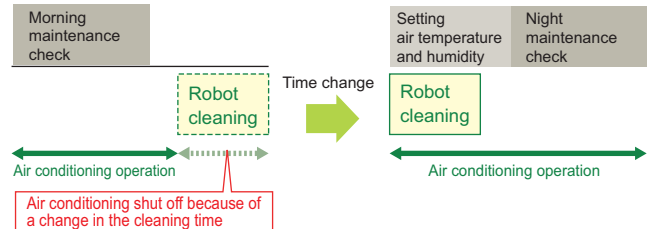
Establishing and Standardizing Air Blow Nozzles

We established the newest energy-saving type nozzle to effectively use air from air blowing equipment used in painting processes. We standardized the installation method (angle, distance to workpieces, etc.) and expanded use of these new nozzles in all our plants.



Energy-Saving in Air Conditioning by Changing the Operating Shift Times for Cleaning Paint Spraying Robots

By switching to water-borne paints, we decreased the energy from air conditioning used during operation by performing cleaning immediately before beginning the next run. Previously, cleaning of robots was done without any time gaps after stopping the line, resulting in difficulties because paint hardened on robots during operation.



Decreased Power Consumption by Using Transparent Boards on the Plant Roof (Chun Shyang Shin Yeh Industry Co., Ltd. example)

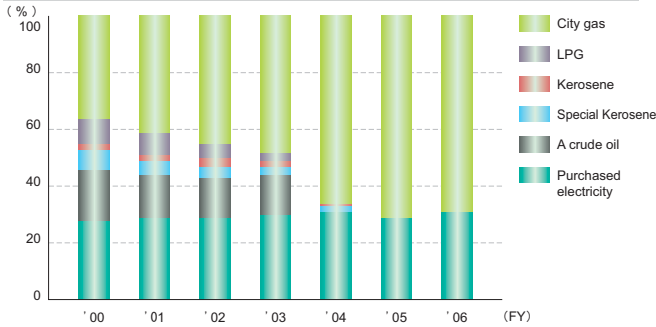
By using transparent boards on the plant roof that allow nature light into the plant, we achieved energy-savings by not having to use lighting during plant operation except for two hours in the morning and evening.



Fuel Changes in Production Processes

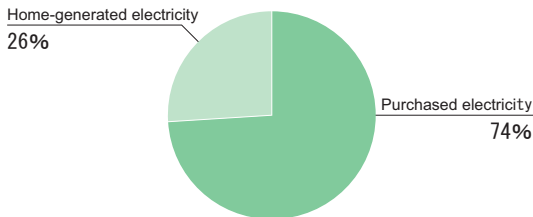
At Toyota Auto Body, we have been changing to use a much cleaner fuel, city gas, and from FY2005 we have only used electric power and city gas. Hereafter, we are even promoting city gas to be used for A crude oil (total 1%) that remains part of the area of non-production.

Ratios by Energy Use (excluding non-production processes)



In addition, of the total electricity consumed in FY2006, approximately 26% is met by home-generated electricity by natural gas cogeneration.

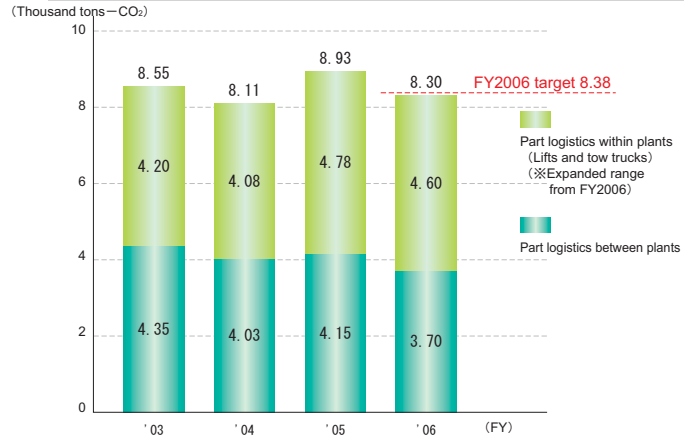
Ration of Home-Generated Electricity in FY2006



Decreased CO2 Emission Volume in Logistics Areas

We are continuing as we have done previously with a range of activities to increase efficiency by reviewing transport routes and *kaizen* of cargo layouts for part logistics between plants. In addition, we are expanding the range of activities from FY2006 to include part logistics within plants, and we are also promoting electrification of tow trucks.

Logistics Related CO2 Emission Volume



Experiencing "Team Minus 6%" Activities

Toyota Auto Body participated in the "Team Minus 6%", an Environment Ministry advocated citizen project in December 2005, in which each participant called for making six action plans. Also, in our company report an "ECO Plaza" page was created and examples were introduced to all our employees.



Company bulletin "ECO Plaza" Page

An Example of Employee Ecolife

Ryoichi Shibata
(Environment Division
Environment Planning Dept.)



"Reading in the newspaper about how executing an idling stop can conserve approximately 30% of gasoline and also seeing how the price of gasoline has recently increased compared to the past, I decided to experience an ecodrive from the position that it is kind to the environment. I record my fuel efficiency at every fill-up, evaluate the results, and I am careful to ecodrive during my commute every day. Compared to before, I'm satisfied in getting five more kilometers per liter. I'm not only being kind to the environment, but I have more pocket money (laughs). Hereafter as well, I want to live a life of ecodriving."

An Experience for Improving Fuel Efficiency

- No warming of the engine
- No unnecessary passing (no sudden acceleration)
- Read traffic signals to reduce speed more quickly in order decrease the number of stops

Results From Eco-driving

