

# Efforts to Save Energy and Water for Preventing Global Warming

Tamron strives to reduce CO<sub>2</sub> emissions by introducing energy-saving facilities in addition to working to save electric power at offices and factories.

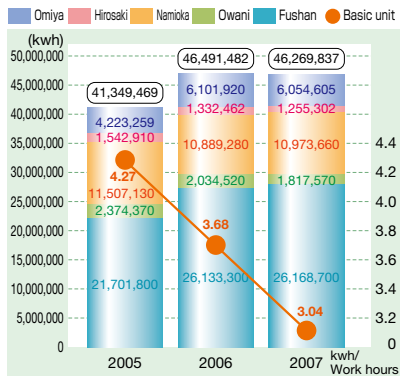
## Energy/Water Saving

### Electric Power Consumption

The total group volume of electric power consumed at the Omiya head office, three Aomori factories and Tamron Optical (Foshan) (TOF) in 2007 declined by 0.5% year on year. Unit consumption rose by 0.6 kWh because work

hours increased in 2007 following the expanded output capacity at TOF. Both the Namioka factory and TOF increased. Electricity consumption at the Namioka factory increased slightly due to introducing six new machines for processing aspherical lens elements in addition to conventional heaters for processing. TOF electricity consumption grew slightly (0.1%) following our decision to shift more mass-production items to TOF.

The volume of electric power consumed at the Omiya head office, Hirosaki factory and Owani factory are declining due to operations shifted to TOF and campaigns to switch off the lights in unnecessary places.

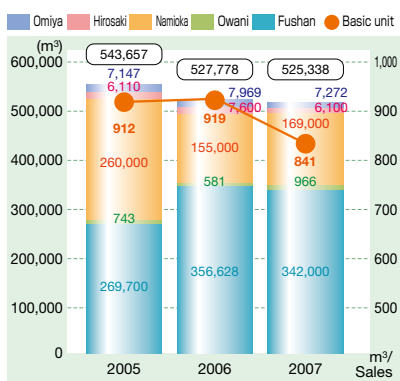


### Water Consumption

Water consumption declined about 0.5% compared to 2006.

Water consumption in terms of specific productivity, a unit to determine water consumption volume per sales, is declining. Consumption at the Namioka factory, where water is used for cleaning lens elements,

rose slightly. At the Owani factory, water leakage occurred due to degraded ductworks and a delay in taking countermeasures. We will work on stricter risk management so we will detect problems such as water leakage, in addition to countermeasures to reduce water consumption at the Namioka factory.



## Reducing CO<sub>2</sub> Emissions

To decrease energy consumption further, Tamron improved incidental facilities at the Omiya head office. The improvements include introducing air-conditioning systems equipped with devices to allow adjusting temperatures independently at the places and times necessary, energy-saving fluorescent lamps and double insulating glass for windows. In addition, studies to determine electricity consumption by major facilities were made at the Omiya head office in August 2007, installing electric power consumption monitoring apparatuses for enhancing energy saving. As a result, monitored data were updated constantly, enabling us to precisely determine our electricity consumption and work to save energy.

As a result of monitoring, we found that the relative ratio of electricity consumed at our manufacturing facilities and offices was 73% to 27%. Since confirming that reducing power consumption at production facilities directly means overall energy savings, we will continue to work on measures to eliminate waste losses and enhance productivity.

## Interview with a leader of our Sub-committee on Logistics



**Yuichiro Shimada**  
Section Manager, Repair Section,  
Quality Management Unit

In April 2006, the Law Related to Energy Consumption (Energy Consumption Law) was revised, requiring shippers to save energy. The total volume of CO<sub>2</sub> emissions from our domestic logistics operations is about 500 t CO<sub>2</sub>,<sup>(1)</sup> which means Tamron is not regarded as a specific shipper bearing special responsibilities. However, recognizing our corporate social responsibility as a good corporate citizen amid the growing concern over the global warming problem, Tamron voluntarily organized a logistics sectional committee in June 2006 to determine CO<sub>2</sub> emissions from logistic operations and promote greener operations. Our tasks from now on are to enhance the accuracy of our CO<sub>2</sub> emissions calculation method and work out means to determine CO<sub>2</sub> emissions from operations to transport materials and products to overseas facilities.

<sup>(1)</sup> The volume of CO<sub>2</sub> emissions from company vehicles is deducted from the volume of CO<sub>2</sub> emissions from transporting operations (556 t CO<sub>2</sub> as shown on p.14).