

We promote activities to monitor and minimize our global environmental burdens throughout the life cycle of our products.

## Reducing Our Environmental Burdens throughout the Life Cycle of the Product

Products manufactured by the FDK Group consume resources and energy during every process of manufacturing, including research and development, design, production and sales. Energy is also consumed when our products are used, discarded or recycled. Every member of the FDK Group strives to reduce the environmental burden throughout the entire life cycle of our products.



### Product Planning, Design and Development

We develop environmentally conscious products by conducting product environmental assessment while keeping a close check on our continuing compliance with laws and related regulations, avoiding the use of hazardous chemical substances, practicing energy and resource saving, and assuring recyclability.

#### Energy

Purchased electricity	42,033 MWh
Heavy oil and kerosene	86 kl
LPG and LNG	34 tons
Natural gas and city gas	372 km <sup>3</sup>

#### Chemicals

Amount of usage	3,977 tons
-----------------	------------

#### Water

Amount of usage	310 km <sup>3</sup>
-----------------	---------------------

<Calculation method>

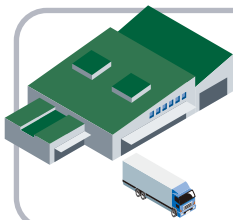
- Chemicals : Amount of usage of chemicals controlled by PRTR law
- Energy : Amount of electricity, gas, petroleum consumption
- Water : Amount of usage (except reprocessed water)

IN



### Procurement

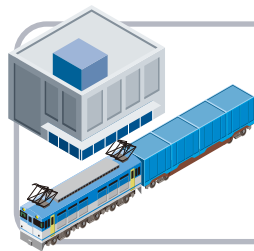
When procuring our components and materials, we ascertain whether or not they are eco-conscious throughout the supply chain. We also consciously reduce transportation-related energy usage.



### Manufacturing

We promote our zero-emissions initiative, by which we reduce usage of resource materials, energy and water, and completely eliminate land-fill waste and simple incineration. We further reduce usage and emissions of chemicals.

OUT



### Transportation and Sales

We have been working on reducing energy consumption and exhaust emissions during the transportation and delivery of products.

#### Atmospheric emissions

CO <sub>2</sub>	24,543 tons
SO <sub>x</sub>	0.0 ton
NO <sub>x</sub>	0.6 ton

#### Chemicals

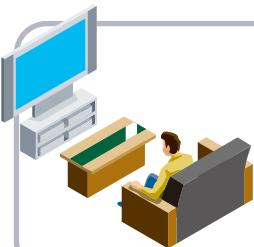
Emission	0.2 ton
----------	---------

#### Waste

Landfill, simple incineration	0 ton
-------------------------------	-------

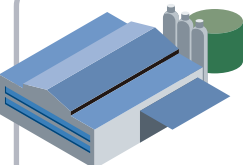
<Calculation method>

- Chemicals : Amount of emissions from chemicals controlled by PRTR law
- Atmospheric emission: CO<sub>2</sub> emissions were calculated from the energy consumption
- : SO<sub>x</sub> and NO<sub>x</sub> were calculated from the concentration of exhaust emitted from boilers, etc.



### Usage

We are making our products more energy-saving and long-lasting. For instance we have three types of alkaline batteries, our "G, D and R" series. Users can maximize the service life of these batteries by selecting the most suitable series for their application.



### Recovery, Reuse and Recycling

We promote effective use of resources by recovering, reusing and recycling end of used products.

#### Recovery, reuse and recycling

Amount recovered	965 tons
Resource recycling ratio	93.3 %

Figures above are from FY2007.