



Action plan for globally strengthening environmental activities

FDK Group The Sixth Environmental Action Plan

The Sixth Environmental Action Plan, a three-year plan covering FY2010 through FY2012, addresses such issues as climate change and biodiversity.

Previous environmental action plans focused on domestic issues. In this latest plan, however, we have newly set global targets. Thus, by the end of FY2012, we aim to reduce the CO₂ from energy consumption by 6% from the FY1990 level, and cut the amount of waste material produced by 20% from the FY2007 level. Moreover, we will conduct social contribution activities and work to preserve biodiversity.

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Description	Targets (2010 to 2012)
Promoting the Development of Environmentally Friendly Designs	<ul style="list-style-type: none"> Develop at least 3 types of super-green products. Achieve an Environmental Efficiency Factor 1.2 or more for newly developed products.
Preventing Global Warming	<ul style="list-style-type: none"> Reduce CO₂ emissions from energy consumption by 6% from the FY1990 level.
Reducing Environmental Burdens through 3R (Reduce, Reuse, Recycle) Activities	<ul style="list-style-type: none"> Reduce chemical emissions by 10% from the FY2007 level. Reduce the amount of waste material produced by 20% from the FY2007 level. Continue to maintain a 90% reuse rate for product materials.
Promoting Green Procurement	<ul style="list-style-type: none"> Increase the number of business partner sites that build an EMS.
Strengthening Environmental Management	<ul style="list-style-type: none"> Promote integration of the EMSs of Headquarters departments. With FDK Tottori and FDK Twicell, conduct activities to integrate EMSs.
Cultivating Communication with Local Communities, and Contributing to the Preservation of Biodiversity	<ul style="list-style-type: none"> In cooperation with local communities, conduct environmental contribution and social contribution activities and work towards the preservation of biodiversity.

Topics

Activities to Reduce CO₂

As an effort to reduce CO₂, FDK Twicell will introduce a solar energy generation facility (system capacity: 120 kWh) scheduled to be completed at the end of October 2010.

Reduction of CO₂

Equivalent in camphor trees
Approximately 112 trees



Conceptual drawing of FDK Twicell's solar power generation panel installation



Earth-Friendly "Development of Products"

Development of Environmentally Conscious Products

When developing products, the FDK Group conducts a design review and performs a product environmental assessment aimed at building eco-friendliness into the product. Moreover, we have been grappling with the development of "super-green products" since FY2004, and working to increase the Environmental Efficiency Factor of products since FY2007.

Large-Capacity Lithium Ion Capacitor

This is a storage device with a long charge/discharge cycle life and an ability to rapidly accept and discharge a large current.

By storing unneeded power and then discharging it when necessary, this device enables the efficient use and stable supply of power. It can also be used in hot environments.

Effective Use of Electrical Power



Product Model
EneCapTen[®]
ECM45 series

Used in Solar Power Generation Systems

Jointly developed with Fuji Electric Systems Co., Ltd., lithium ion capacitor module is used for stabilizing the solar power generation systems on which demonstration experiments have been conducted, since August 2010, on Yonaguni Island and other outlying islands of Okinawa Prefecture. Equipping a solar power generation system with a lithium capacitor module makes it possible to stabilize the fluctuations in output caused by climate and other factors.

Linear Tube LED Lamp and Power Source

Friendly to both the environment and people, this lighting device is able to replace fluorescent lamps (40W, 20W). Compared to fluorescent lamps, it reduces energy consumption and CO₂ emissions by approximately 60%. Thanks to a unique light-dispersing technology, dot patterns and glare have been eliminated.

60% Reduction in CO₂ Emissions



Product Model
FLED40S-40-PSW-LHH