



From Region to Planet, Implementation of Environmental Conservation

Through thorough implementation of energy-saving and waste control policies, we will develop a town in harmony with nature by introducing the latest technologies to minimize the environmental load, and creating a mechanism to protect the local ecology.



Smart AEON development

“Smart AEON” is the next-generation eco-store where the whole town is working on the improvement of energy efficiency and prevention of disasters while creating a sustainable town which can meet the standards stipulated in the environmental objectives of our “AEON Eco-project”. Among malls our company is operating, Smart AEON is being developed by 10 malls including AEON MALL Sakai Teppouchu that opened in March, 2016.

Smart AEON



Implemented “Light Down Campaign 2016”

Since 2003, we have been participating in the “CO₂ Reduction / Light Down Campaign” advocated by the Ministry of the Environment. We turned off lights around store exteriors and the building from 20:00 to 22:00 on the summer solstice June 21 and the Cool Earth Day July 7 in 2016. A total of 143 bases of AEON MALLs and AEON shopping centers throughout Japan participated in this campaign.



Increasing Installation of charging points for electric vehicles (EV)

Since 2008, we have been promoting the installation of chargers for electric vehicles (EV) at each mall to conserve the global environment and realize a sustainable society as well as to promote the spread of electric vehicles and plug-in hybrid cars that do not emit CO₂. Having installed EV chargers in nearly 90% of commercial facilities in Japan, which our company operates and manages, we have constructed, as of March 2017, an EV charging station network with 206 stations including commercial facilities of the AEON Group all over Japan.



Promoting the use of public transportation

AEON MALLs are making efforts to prepare an environment for customers to be able to visit the mall by using public transportation such as trains and fixed-route buses regardless of conditions of location. In cooperation with the railroad company and transportation bureau, we offer benefits to customers who come by train and promote creation of an environment in which public transportation can be easily used. AEON MALL Nagakute (Aichi Prefecture) acquired the naming right of Nagakutekosenjou Station, the nearest station of Aichi High-Speed Transit Tobu Kyuryo Line (linear motor), and named the station “AEON MALL Nagakute-mae” as the sub-station name, and newly introduced the traffic IC ticket use promotion service “KUTEPO” to promote customers’ linear motor use. Customers ride on a linear motor car with a traffic IC ticket that can be reciprocally used with other transportation systems nationally, and touch the screen of the terminal within the mall to get points, and we present shopping tickets to the customers when fixed points are reached.



Ecology of using the power of nature

Solar power generation

Moving ahead of other commercial establishments, we have introduced solar power generation systems in stages thus allowing part of a mall's power consumption to be covered. Some malls have introduced systems where power generated by solar panels can be used in the event of a power outage due to disasters etc.



Utilizing wind power energy

Some malls have installed clean energy hybrid sun lamps using wind power generation and solar power generation. As stable charging is possible even at night or in winter when there is little sunlight, the sun lamps can provide light all night long even in a disaster.



"AEON Hometown Forests Program"



“AEON Hometown Forests Program” started in 1991 in Malaysia. Upon opening of a new mall, we plant trees that are the most suitable to the region's natural environment together with our customers. The cumulative number of planted trees reached 11.4 million trees (Group total) as of the end of February 2017.

Wall greening / Planting



Not only does greening of the mall roofs (biotope) and walls improve the scenery but it also suppresses the rising of temperature within the mall during summer, thus leading to the reduction of energy consumption by air conditioners. In addition, we produce pleasant and relaxing spaces by arranging rich green planting everywhere around each mall while harmonizing with the natural environment by planting.

Expanding ABINC certified malls

The ABINC certification is a system in which efforts in the creation of biodiversity-friendly green areas are objectively evaluated and certified by the “Association for Business Innovation in Harmony with Nature and the Community, based on the “Japan Business Initiatives for Biodiversity (JBIB) Guidelines” created and registered by Japan Business Initiatives for Biodiversity (JBIB). The number of ABINC certified malls has increased in phases since AEON MALL Toin (Mie Prefecture) was certified for the first time in 2013. In FY2016, AEON MALL Sakai Teppouchu (Osaka Prefecture) and AEON MALL Nagakute (Aichi Prefecture) acquired the certification; thereby, a total of 6 malls has acquired the certification.



▲ We are attracting wild birds that live in Chita Peninsula by setting up 25 nest boxes in the woods “CURIO” on the site of AEON MALL Tokoname.

From Region to Planet, Implementation of Environmental Conservation

Through thorough implementation of energy-saving and waste control policies, we will develop a town in harmony with nature by introducing the latest technologies to minimize the environmental load, and creating a mechanism to protect the local ecology.

Water quality conservation

To comply with the effluent standards, we require eating and drinking places to regularly clean the grease traps of their kitchens, to prevent the discharge of oil and garbage. Moreover, periodic training is conducted at each mall to

prevent any oil spillage that occurs in shop kitchens from spreading outside. Furthermore, some malls use bacterial decomposition techniques to purify wastewater.

Approaches toward saving energy

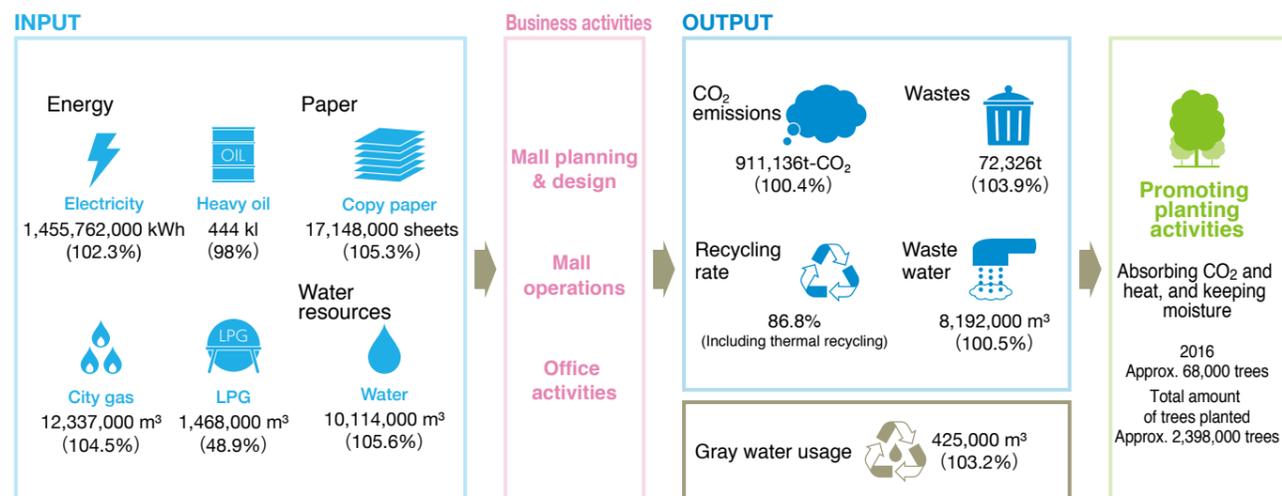
LED Lighting

For malls opened in recent years, 100% of the public areas is equipped with LED lights. We are also encouraging the specialty stores to adopt LED lighting when a new mall is opened or when existing stores are renovated since, colors and brightness of lights can now be chosen by the stores. As a result, a steady progress is being made in the switch to LED lighting. Additionally, LED lighting with lower power consumption is being adopted for exterior electric signs.

Cold Water Air Cooling Cascade System

The "Cold Water Air Cooling Cascade System" developed by our company consists of multiple air conditioning plants positioned in cascades (serially) to realize a reduction in the power used to transport cold water during summer as well as finely-tuned responses to the air conditioning load. During winter, the cold water absorbs heat from the heat generated from human bodies and lighting to warm up the exterior air for air circulation. By using this system, we have made possible a power consumption reduction of about 50% in comparison with existing systems and are contributing to a reduction of CO₂ emissions.

FY2016 Inputs/Outputs (73 malls in Japan)



Note 1: For the whole mall including common use spaces, AEON and tenants. However, waste and the recycling rate apply to the tenants and AEON MALL office, and copier paper applies to AEON MALL office only.

Note 2: Figures in parentheses are percentages over the previous year.

Reduction of waste and recycling

To reduce the waste discharged from malls, it is important to gain the cooperation of the specialty stores and have them clarify "what, where, and how much waste is disposed of", and increase the awareness that it is a challenge that has to be addressed. Each mall has introduced system where waste is separated into 17 categories and weighed accordingly.

After weighing the waste of each category, the specialty stores paste a sticker indicating the weight of the waste and collectively dispose of them at the specified storage place for each category. We recycle the separated garbage as much as possible and keep track of the recycling rate for each category. The recycling rate for FY2016 was 86.8%.



Clearly marked garbage storage by category. Providing air-conditioned facilities to prevent the generation of odors and suppress the growth of pest insects.



Waste is totaled per item and weighed. The amount of waste discharged from each specialty store can be grasped from the data.

Environmental communication

Environmental load reduction at each mall cannot proceed only by the efforts of our company's employees but also requires the understanding and cooperation of the specialty stores and customers. We have asked for cooperation from the staff of the specialty stores through the distribution of booklets and the placing of notices on the bulletins backyard. Additionally, in each mall, we introduce our environmental efforts through eco-information and the eco-bench, and call for customers' cooperation in using eco-friendly bags and recycling.



At eco-information, the operating status of the solar power generation system can be confirmed.



Garbage boxes in the mall are categorized into 4 items. We have also asked customers to cooperate in this waste separation.

Total amount of waste discharge and recycling rate in FY2016

Company-level recycling rate (including thermal recycling)			86.8%
Total amount of waste discharge and recycling rate			
1	Garbage	15,620t	92.5%
2	Cardboard	19,949t	100.0%
3	Miscellaneous refuse	20,457t	64.2%
4	Waste plastic	3,199t	98.9%
5	Bottles	403t	99.5%
6	Can	628t	100.0%
7	Expanded polystyrene	114t	100.0%
8	Waste oil	1,800t	100.0%
9	Paper	2,749t	100.0%
10	Bulky refuse	195t	84.3%
11	Other incombustible refuse	1,254t	74.8%
12	Waste fluorescent lamp	26t	84.9%
13	Waste battery	12t	67.9%
14	Disposable chopsticks	111t	94.3%
15	Waste alkali peeling liquid	21t	62.4%
16	Sludge	5,181t	88.0%
17	Waste engine oil	—	—
18	In-store collection: Aluminum can	77t	100.0%
19	In-store collection: Food tray	31t	100.0%
20	In-store collection: Milk pack	102t	100.0%
21	In-store collection: PET bottle	396t	100.0%

Promoting resource recovery and recycling

Some AEON MALLs have been promoting used paper recycling through the introduction of a system where customers receive recycle points for the corresponding weight of old newspapers and old magazines they bring in. When a certain amount of points is accumulated, they can be exchanged for AEON gift coupons. This system is well received by the customers because the used paper is collected in dedicated boxes installed in malls, and customers can bring their used paper on the way to shopping at any time. Additionally, we are implementing a system where customers can bring their PET bottles to be collected in exchange for WAON points that we give out in some AEON MALLs.



Used paper recycling point system "ecomo" (Cooperated by Kokusai Pulp & Paper Co., Ltd.) *Installed at some malls



Automatic PET bottle collection machine where WAON points can be accumulated by the customers. *Installed at some malls