

Scope of Report

- **Reporting Period** FY2008 (April 1, 2008 to March 31, 2009)
Includes activities in part from FY2009 regarding the provision of Next-Generation Products & Services.
- **Objective Organizations** Hitachi Appliances Group consolidated companies
The objective of tabulated data is offices and factories having a large environmental impact. (Reported separately)
- **Referenced Guidelines** "Environmental Reporting Guidelines (FY2007 Version)" (Ministry of the Environment, Japan), "Environmental Performance Indicators Guideline for Organizations (FY2002 Version)" (Ministry of the Environment, Japan), "Environmental Reporting Guidelines 2001 - With Focus on Stakeholders" (Ministry of Economy, Trade and Industry, Japan)
- **Next Issue** Around August 2010
- **Website** This report is a condensed version of the contents of our website. Please see the Environmental Efforts section of our homepage for more information. (Only in Japanese)
<http://www.hitachi-ap.co.jp/company/environment/kankyo/>
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HITACHI
Inspire the Next

Hitachi Appliances Environmental Report 2009

Issued March 2010





Message from the President



We Will Take a Fresh Look at Core Manufacturing Technology from the Perspective of Customers, and Take a First Step toward Restoring Trust

Recently, we have received a cease and desist order from the Fair Trade Commission under the Act against Unjustifiable Premiums and Misleading Representations for misrepresenting pertinent facts for our refrigerators in brochures and newspaper advertisements, etc.

Because of this, the "Energy Conservation Grand Prize for Excellent Energy Conservation Equipment" granted to our refrigerators has been withdrawn. We deeply apologize for the inconvenience all of these developments might have caused.

We are well aware of the great disappointment we have caused to customers who have purchased our refrigerators, as well as customers who have purchased other Hitachi Appliances products, distribution outlets, our business partners, shareholders, and many other people who have kindly provided us with support and guidance. Here again, I would like to express our sincere apologies for our deeds and any inconvenience they have caused them.

At present, many people have come to deepen the understanding of and interest in environmental issues as the theme of our time, and are setting great store on whether products they choose are environment-friendly or not. Under such circumstances, providing customers with accurate information on products offered is an extremely important duty for a socially responsible manufacturer, and we have no excuse for inviting a situation in which we have betrayed the confidence placed in

us. In order to never allow such misconduct to happen again, we are now conducting a thorough in-house investigation into the cause of the misconduct and making comprehensive efforts toward preventing the recurrence of such deeds.

By emphasizing the mission of a manufacturing company once again, we will sincerely treat every piece of work we do with humility from the perspective of our customers. I hereby pledge that we will pull together and devote every effort to become a trustworthy company once again.

Let me here again offer my deep apologies for the concerns and inconvenience we have caused to our customers and all other stakeholders.

Hitachi Appliances will strive to contribute to the evolution of the "quality of life" and propose "Lifestyle Zone Solutions" in order to be a partner to support the environment-conscious lifestyles of our customers.

The challenges mankind is confronted with in the environmental field are becoming increasingly complex and sophisticated, including prevention of global warming, recycling of resources, and conservation of ecosystems. In particular, countermeasures against global

warming are the biggest international issue that not only major economies but also all countries in the world should address.

In July 2008, the Japanese government announced the "Action Plan for Achieving a Low-carbon Society," and set a long-term goal of reducing up to 80% of its current level of greenhouse gas emissions by 2050. In September 2009, Japan announced a medium-term target of reducing its greenhouse gas emissions by 25% from the 1990 level by 2020.

In this social situation, Hitachi Appliances, as a member of the Hitachi Group, is globally expanding the "Lifestyle Zone Solutions Business" to support the sophistication of people's living infrastructures, including homes, offices, and shops. We recognize that it is our mission to make the utmost contribution to the conservation of the environment and development of a low-carbon society through such business activities.

The scope of our operations ranges from the comprehensive air conditioning business, which offers a broad lineup from household air conditioners to large business-use chillers, to the home appliances business, which features refrigerators, washing machines, and vacuum cleaners, and the all-electric housing business, which includes water heaters and kitchen equipment. In each business,

specifications and performance of products make a difference in terms of environmental footprint. We will adhere to the basic principles of appropriately responding to customers' needs, striving to further hone our energy-saving and environment-friendly technologies for our products, and offering products and services based on these technologies to a wide range of customers.

Furthermore, we are striving to reduce the environmental load of our business operations as a whole, including energy-saving activities at our own workplaces, enhanced controls over chemical substances hazardous to the environment, and recycling and appropriate treatment of waste. We will also focus our energy on better communication with customers about these activities in a straightforward manner.

Hitachi Appliances will return to our original purpose and strongly reaffirm the mission of a manufacturing company. The entire company, with all executives and employees pulling together, will devote every effort to regain the trust of our customers and all other stakeholders.

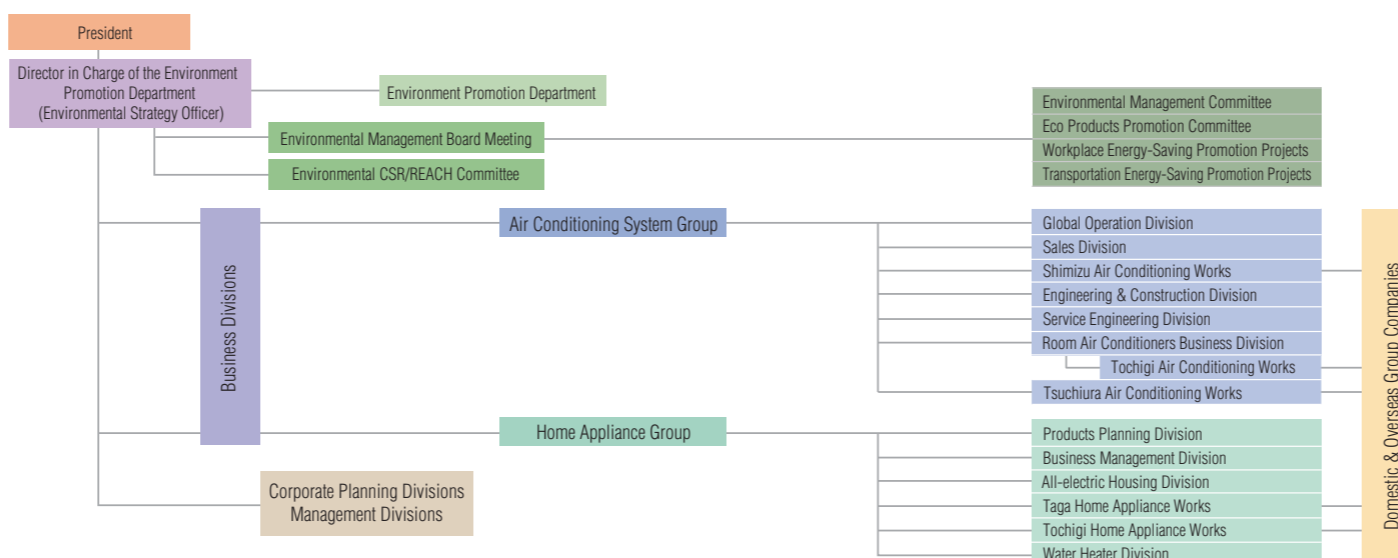
We would sincerely appreciate frank opinions regarding our ongoing efforts.

President and Director

Company Overview:

Company name	Hitachi Appliances, Inc.
Main business	Development, manufacture, and sales of comprehensive air conditioning systems and home appliances
Representative	Takazumi Ishizu, President and Director
Capital	20 billion yen (wholly owned by Hitachi, Ltd.)
Date established	April 1, 2006
Head office	Hitachi Atago Bldg., 15-12, Nishi Shimbashi 2-chome, Minato-ku, Tokyo
Number of employees (consolidated)	Approx. 18,000 (As of April 2009)
Website	http://www.hitachi-ap.co.jp

Environmental Management Structure (As of April 2009)



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Misleading Representations of Refrigerators and Our Response

On April 20, 2009, Hitachi Appliances, Inc. received a cease and desist order from the Japan Fair Trade Commission, based on the Act against Unjustifiable Premiums and Misleading Representations. Hitachi misled that the effect of reducing CO₂ emission of refrigerators was better than they actually were. The items cited were representations in the Refrigerator General Catalog issued in November 2008 and February 2009, as well as on our web site, in newspaper advertisements and posters. In addition, Hitachi Appliances returned the 2008 Energy Conservation Grand Prize (ECCJ Chairman's Prize) that was received for nine refrigerator products in February 2009.

This incident has greatly damaged the trust in, and expectations of, Hitachi, Ltd. and Hitachi Appliances among customers and everyone else concerned. We wish to express our deep apologies. We have conducted a thorough internal investigation to determine the causes and have taken measures to ensure that it never happens again. The following is an outline of the cease and desist order and our response.

Contents of Cease and Desist Order Given to Hitachi Appliances

The Japan Fair Trade Commission, according to the cease and desist order, judged that customers might be misled into believing that the products were considerably better than they actually were. The Commission referred to two points:

In the winter 2008 and early spring 2009 editions of the Refrigerator General Catalog and on the Hitachi web site (from around November 2008 to March 2009), it stated that the core material of the flexible vacuum insulation panels used in the Eiyō Ikiiki Shinku Chirudo V series refrigerators—on sale in September 2008—was recycled resin from discarded refrigerator shelves and other items. It was further stated that the amount of CO₂ emitted during the production of flexible vacuum insulation panels was reduced by 48%, compared with our conventional refrigerators. In fact, however, the use of recycled resin was limited to certain models and to refrigerators produced during a certain period, and the reduced amount of CO₂ emissions was much lower than indicated.

In addition, newspaper advertisements and posters at retail outlets stated that recycled resin from discarded refrigerator shelves and other items was used as the core material for the flexible vacuum insulation panels in all nine refrigerator models in the Eiyō Ikiiki Shinku Chirudo V and the Big & Slim 60 series. In fact, it was only used in some of these models.

Hitachi Appliances Efforts

In order to develop improvement measures in response to the cease and desist order as well as to the withdrawal of the Energy Conservation Grand Prize, we have set up the Emergency Countermeasures Office under the direction of Takazumi Ishizu, Executive President and Executive Officer, on April 22, 2009, to investigate the root causes, and have promoted building internal controls to prevent this from happening again. In addition, we are reinforcing employees' awareness to further strengthen compliance.

(1) Investigation into the causes of the latest incidence of misrepresentations

(i) Awareness of employees

Across the whole company, employees have lost sight of the perspectives of customers. For example, people in the designing & development division, who should have been making products with an understanding of the whole range of performances and functions of products, including their environmental benefits, proceeded with commercialization in a self-righteous manner as narrow-minded technology specialists, while those in the advertising division indulged themselves in the transmission of information solely from the viewpoint of sales promotion.

(ii) Inadequate in-house check systems and rules

There was no established mechanism to ensure sufficient communication between the designing & development division and the business planning and advertising divisions. Also, we did not have adequate systems to systematically check applications or materials to be presented outside the company.

(2) Formulation of measures to prevent recurrence and enhance compliance

<Preventing Reoccurrences>

(i) In May 2009, we established "product-by-product working teams" made up of persons in charge from the designing & development, product planning, and advertising divisions. These teams are responsible for developing new specifications that include environmental performance and customer-oriented performance items. We will make sure that our product appeals and representations are fully in line with the descriptions of these specifications.

(ii) In May 2009, we created "presentation document management offices" at all of our establishments and the "Documents and Representation Audit Office" at the Head Office. These offices are responsible for organized and systematic checking of representations and expressions used in appeal materials and documents on our products as well as applications for external recognition and commendations of highly

public nature. The "Documents and Representation Audit Office" will conduct an in-house audit at least once a year to see whether such practices are followed in an appropriate manner.

<Improving Compliance Measures>

(i) In May 2009, we held an in-house briefing session to familiarize all the employees with the newly introduced organized and systematic checking system. We are also conducting in-house education by outside lawyers and other experts since June 2009 to gain the better understanding of the Act against Unjustifiable Premiums and Misleading Representations and fair competition regulations and to raise the awareness of the importance of compliance.

(ii) We are carrying out a company-wide Merchantability Improvement Campaign to thoroughly pursue product development and appeal from the perspectives of customers. We are also developing a mechanism under which employees can present their views and opinions on the representation issue widely to the Documents and Representation Audit Office.

Hitachi's Response

Hitachi takes this matter, which has undermined the trust of our customers and many other stakeholders, very seriously. Accordingly, on April 27, 2009, Hitachi set up the Supervisory Office for Product Environmental Information under the direction of Takashi Hatchoji, Executive Vice President and Executive Officer. We have been investigating similar cases at Hitachi and Hitachi Group companies, identifying common issues, and working hard to prevent any reoccurrence.

To investigate similar cases, we examined environmental information about our product in catalogs, web sites, newspaper advertisements, and posters of Hitachi and Hitachi Group products other than those that received the cease and desist order. To date, no similar cases have been found. However, misprints and descriptions that might be inconsiderate of customers, as well as representations that might be misleading, were uncovered in certain products. In these cases, we took immediate steps to revise these representations to prevent any similar incidents that could be construed as misleading to our customers or other stakeholders.

To address this issue, we have analyzed the causes and problems and identified the following common issues for Hitachi Group companies.

1. In all business processes—technology development, product design, advertising, and applications for awards—there were systems for confirming the consistency of a product's environmental information at every stage. However, no system existed for overall confirmation.
2. For representations in advertising materials in general, Group-wide criteria had been set, but their application was left to the business group or Hitachi Group company in charge of each product, and there was no system for regularly reviewing or objectively verifying appropriate use.
3. Amid growing social concern about products that affect the environment, employees did not have enough understanding about representations that appeal to customers using environmental information about a product.

In view of these investigation results and common issues, we are implementing the following reoccurrence prevention and compliance measures, and we will do our best to restore trust.

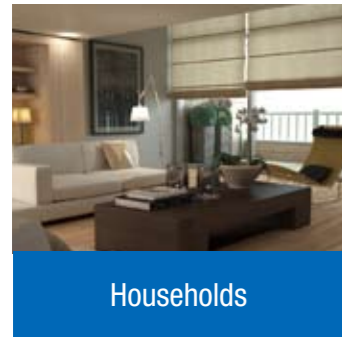
(1) Preventing Reoccurrences	<ul style="list-style-type: none"> ● Revise the company regulations, clarify provisions for handling environmental product information, and clearly define responsibilities for this type of information during each business process and for applications for environment-related awards. In addition, thoroughly audit these responsibilities. ● Improve the regulations and systems that each Group company must use and abide by. ● Publish prevention measures for all Hitachi Group employees and incorporate this into employee education lectures on representing environmental information about products.
(2) Improving Compliance Measures	<ul style="list-style-type: none"> ● Set up an advisory group—including outside experts—to provide guidance on whether or not representations of environmental information for products are appropriate, and implement regular checking. ● Regularly audit whether the management of environmental product information is being properly implemented. ● Return back to basics and Hitachi's founding spirit; further improve the education system and thoroughly implement education as part of Hitachi spirit reconfirmation activities—the main theme of the campaign "Strengthening The Base '08-'09" that is being promoted Group-wide from fiscal 2008—to ensure that all employees, from their viewpoint, consider how best to deliver information from the perspective of our customers and other stakeholders.



For detailed information on this case, please visit the following website:

kadenfan.hitachi.co.jp/info

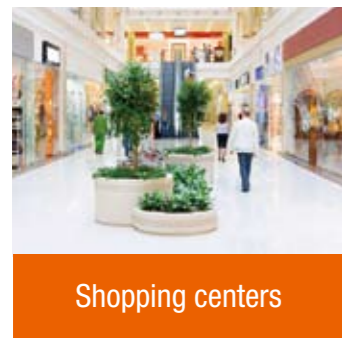
Main products



Households

In Households

- Refrigerators
- Microwave ovens
- IH cooking heaters
- Food waste disposers
- Rice cookers
- Washer-dryers
- Vacuum cleaners
- Room air conditioners
- Ventilation fans
- Air purifiers
- Heat pump water heaters
- Electric water heaters
- Inverter pumps



Shopping centers

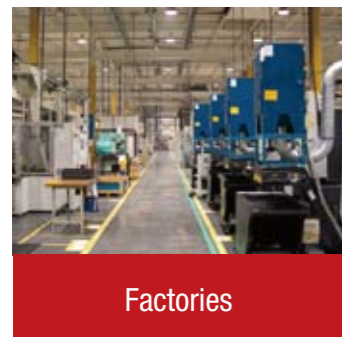
At shopping centers

- Packaged air conditioning system for buildings
- Centrifugal chillers
- Absorption chiller-heaters
- Cogeneration systems
- Scroll chillers
- Refrigerator and freezer units
- Scroll cooling systems
- Unit coolers
- Screw chillers
- Low-temperature chiller units



For District Heating and Cooling

- Centrifugal chillers
- Absorption chiller-heaters
- Cogeneration systems



Factories

At Factories and Laboratories

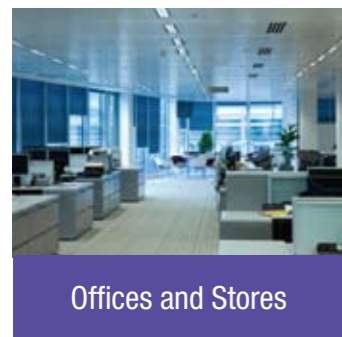
- Centrifugal chillers
- Absorption chiller-heaters
- Packaged air conditioning system for facilities
- Water chillers
- Scroll chillers
- Spot air conditioners
- Clean room associated equipment
- Clean bench and associated equipment
- Anti-biohazard systems and equipment
- Environmental testing equipment
- Super low-temperature freezers



Hotels and Hospitals

At Buildings and Hotels, Hospitals, Libraries, etc.

- Packaged air conditioning system for buildings
- Packaged air conditioning system for facilities
- Gas engine driven heat pump packaged air conditioning system
- Industrial dehumidifiers



Offices and Stores

At offices and stores

- Packaged air conditioning system for stores and offices
- Heat pump water heaters for business use



Eco-Products and Their Technologies

We believe in the importance of making contributions toward becoming a sustainable, recycling society. We are actively engaged in creating products that reduce the burden on the environment; products that help to prevent global warming, conserving energy, conserving resources, and reducing the use of chemical substances.

Using Hitachi's Original Stainless Steel Clean System Room Air Conditioner

Ion Mist Stainless Steel Clean Shirokumakun

The Stainless Steel Clean System keeps grime and mold inside the indoor unit at bay. A lithium ion battery & solar panel powered remote controller is used. By keeping the remote control nearby, the Area-Eco function adjusts the temperature according to the surroundings of the user, helping to conserve energy*.



*By switching the setting to Area-Eco operation, Shirokumakun can conserve energy at a maximum of approximately 14% when heating a room compared to before changing the setting.

Energy Conservation

Technologies such as a high efficiency motor that runs on little electricity and CV-PAM* control have reduced period energy consumption.

*Cascade Vector PAM control

Reduced Time and Labor

The automatic stainless steel filter cleaning function saves the time and labor of cleaning the filter.

Reduction of Chemical Substances

This product is labeled with the J-Moss Green Mark.

*See P17

kadenfan.hitachi.co.jp/ra (Only in Japanese)

With its large capacity this spacious refrigerator achieved 171% of its Energy Saving Standard Achievement Rate (target year: FY2010) Refrigerators

Vacuum Compartment S with Frost Recycle Cooling System

This refrigerator has reduced its energy consumption level through the use of many energy conservation technologies such as Frost Recycle Cooling System*. Large capacity of 616 liters.



R-Z6200 (XT)

*Comparison of annual energy consumption of Hitachi's R-Y6000 (last year's model) and the new R-Z6200. R-Y6000: 400kWh/year, R-Z6200: 360kWh/year. Annual energy consumption is based on JIS C 9801 measurement standards.

Energy Conservation

Technologies such as Frost Recycle Cooling System, which utilizes the cold air of frost that forms on the cooling device while running to cool the refrigerator and vegetable compartment, and the flexible vacuum insulation panel which is molded to fit the shape of the insulating walls of the ceiling and bottom of the refrigerator, have reduced the annual energy consumption.

Considerate to the Global Environment

Utilizes the non-fluorocarbon refrigerant R600a (isobutane), which has a very low environmental impact.

Reduction of Chemical Substances

This product is labeled with the J-Moss Green Mark.

*See P17

kadenfan.hitachi.co.jp/rei (Only in Japanese)

Eco-points are issued for "green" home appliances purchased after May 15, 2009.

エコポイント対象商品

The eco-point system was established as a global warming countermeasure, to revitalize the economy, and to popularize digital terrestrial televisions. Eco-points are obtained with the purchase of highly energy efficient air conditioners, refrigerators, and televisions for personal use. They can be redeemed for eco-products and other purchases.

At Hitachi Appliances, 36 models of refrigerators and 174 models of room air conditioners are eco-point designated products. (As of November 13, 2009)

For more information, please go to the official Eco-point website.

<http://eco-points.jp> (Only in Japanese)

Microwave Oven with double Quick Heaters and a Full Range of Cooking Functions
Superheated Steam Microwave Oven

Crystal Table
Health Chef

Comes with a crystal table* on which you can directly place things. A superheated steam microwave oven equipped with double Quick Heaters offers a full range of cooking functions.



MRO-FV300 (N)

*Not all things can be directly placed on the crystal table. For details, please refer to the catalogue.

Energy Conservation

The double quick heaters and back panel 4 layers insulating construction and other features enabled this oven to achieve 109% of its Energy Saving Standard Achievement Rate (target year: FY2008)

Easy Maintenance

Cleaning has been made easier with a table plate that can be removed for cleaning, an infrared black fluorine coat (on inner walls and bottom) that resists grease adherence and can be easily wiped clean, and other features.

Reduction of Chemical Substances

The product is labeled with the J-Moss Green Mark.
*See P17



...kadenfan.hitachi.co.jp/range (Only in Japanese)

An Optical Sensor and Four Temperature Sensors make it Easier to Cook at the Proper Temperature
IH (Induction Heating) Cooking Heater

Double All Metallic Pots Supporting IH Cooking Heater
D20T Series

Both IH heaters can handle iron and stainless steel pots as well as aluminum and copper pots*. The optical sensor and four temperature sensors make it easier to cook at the proper temperature and make it easier to use. This IH cooking heater is equipped with an oven with a superheated steam setting that make fat and salt drip off the food for healthier cooking.



HT-D20TWFS

*Some pots, depending on the size and form, such as those with bottoms with a small diameter or a curved bottom, cannot be used. Some pots may not be compatible depending on the material.

Energy Conservation

The auto power off function automatically switches off the power after about 10 minutes of inactivity. Thorough energy conservation. Almost zero energy consumption on standby (under 0.05W).

Easy Maintenance

Fluorine coating of the grill plate and tray as well as detachable ventilation covers and intake pockets make cleaning easier.



...kadenfan.hitachi.co.jp/ih (Only in Japanese)

For Soothing and Clean Air All Year Long
Multi-functional Air Purifier

Dehumidifying and Humidifying
CLEAIR 7

This multi-functional air purifier has seven different functions and can serve as both a dehumidifier and humidifier. Allergy-off Ions keep bacteria away*, providing a comfortable indoor environment all year long.

*Tested by a standalone Allergy-off Ion generator in a 1m³ testing container.

Energy Conservation

Energy consumption was reduced with the use of an inverter motor and other features.

Uses Recycled Materials

The air purifier uses artificial zeolite made of coal ash resulting from thermal power generation as a deodorant.

Easy maintenance

The water tank, water tray, and vapor filter can be rinsed in water.



EP-DV1000 (W)

* This product is not classified as medical equipment. Allergy-off Ions have been proven to inhibit the activities of allergens as well as curb the growth of bacteria within a testing container. However, they do not create a sterile environment. This product does not guarantee protection against infection, etc.



...kadenfan.hitachi.co.jp/airclean (Only in Japanese)

Easy Maneuvering Cyclone-type Vacuum Cleaner Thoroughly Cleans with Clean Exhaust
Cyclone-type Vacuum Cleaner

Double-tiered Boost Cyclone RS

This new cyclone-type vacuum cleaner is double tiered and uses power generated by acceleration of the wind inside the cyclone to maintain suction power. The collected dust can be disposed of easily and cleanly.

Energy Conservation

Using the Korekkiri-eco button function, a sensor will detect the floor-type and automatically adjust power for thorough dust suction. Compared to using the vacuum cleaner on the high mode regardless of the floor-type, it can achieve a maximum of approximately 75%* reduction in energy consumption.

*Comparison between using the vacuum cleaner on a wooden floor for six minutes each on the Korekkiri-eco mode and the high mode. Korekkiri-eco mode: approximately 23Wh, high mode: approximately 91Wh. Suction capabilities are the same.

Long-term Usability

Features a dust case and cleaning filter that can be rinsed in water.



CV-RS3100 (W)



...kadenfan.hitachi.co.jp/clean (Only in Japanese)

Recycling Steam for Better Taste
IH (Induction Heating) Rice Cooker

Pressure Steam Premium Cooking
Steam Recycle

The Steam Recycle captures and stores the vapor from cooking as water and then reconverts the water into vapor, to steam or keep rice warm. With a maximum atmospheric pressure of 1.3atm and high temperature steam, this IH rice cooker brings out the sweet flavor of rice.

Energy Conservation

The Steam Recycle system that utilizes the heat of the steam, special iron-made inner pot matched with high efficient induction heating and insulating construction enabled this rice cooker to achieve 105% of its Energy Saving Standard Achievement Rate (target year: FY2008)

Easy Maintenance

A detachable automatic steamer plate, stainless steel lid heating plate, and large steam cap make cleaning easier.



RZ-JV100K (N)



...kadenfan.hitachi.co.jp/kitchen (Only in Japanese)

Choose Big Drum for a Soft Finish and Energy and Water Conservation
Front Loading Washer-dryer

Heat Recycle Kaze-iron
Big Drum

This Front Loading Washer-dryer uses drying system to conserve energy and also features high cleaning capabilities and water conserving capabilities.

Energy Conservation

Drying system, 2 stage Direct Drive motor, and drum attitude control features reduce energy consumption on a 6kg wash-dry standard course to about 950Wh.

Water Conservation

Use of water circulation system, rinse by spraying and rotation, and a 2-way dehumidification reduces the amount of water used on a 6kg wash-dry standard course to about 55 liters.

Reduction of Chemical Substances

The product is labeled with the J-Moss Green Mark.
*See P17



BD-V3200 (N)



...kadenfan.hitachi.co.jp/wash (Only in Japanese)

Powerful Shower even when Hot Water is used at Two Places at Once
Heat Pump Water Heater

Hitachi Eco Cute Niagara Hot Water
Slim Body Tank (Premium)

This heat pump water heater employs a tap water direct pressure method, which instantaneously heats water. Rust and grime resistant stainless steel is used for the direct pressure boiler pipes inside the hot water storage unit which are connected to the shower and taps (combination taps).

Energy Conservation

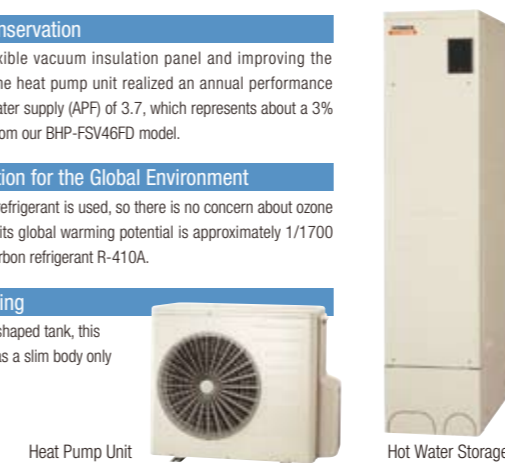
Utilizing a flexible vacuum insulation panel and improving the efficiency of the heat pump unit realized an annual performance factor of hot water supply (APF) of 3.7, which represents about a 3% improvement from our BHP-FSV46FD model.

Consideration for the Global Environment

CO₂, a natural refrigerant is used, so there is no concern about ozone depletion, and its global warming potential is approximately 1/1700 that of fluorocarbon refrigerant R-410A.

Space Saving

Utilizing a box-shaped tank, this water heater has a slim body only 415mm wide.



BHP-FSV46GD

Heat Pump Unit

Hot Water Storage Unit



*The hot water storage unit in the photo is equipped with leg covers (sold separately).
...kadenfan.hitachi.co.jp/kyutou (Only in Japanese)

Scroll Compressor

Liquid and gas flow from high to low pressure. Making best use of this characteristic, the compressor compresses the refrigerant to a high pressure, and then circulates it inside the air conditioner. A more efficient compressor increases the cooling/heating capacity of the air conditioner, thereby conserving energy.

The scroll compressor smoothly rotates two spiral-shaped vanes, a fixed scroll and a rotating scroll, to simultaneously conduct the intake, compression, and discharge processes to achieve high efficiency, low vibration, and low noise.



Fixed scroll

Rotating scroll

Increased Energy Conservation and Improved Comfort
Packaged Air Conditioning System for Stores and Offices

Hi Inverter IX Series Energy Conservation Pro

The independent operation series have been lined up for all capacity models (models 40-335). Independent operation of indoor units allows operation for only necessary units, thereby contributing to energy conservation.

Energy Conservation

Improved compressor structure and a new type DC inverter motor, etc., utilized in a new scroll compressor, enhancing its low speed operation capability, has reduced period energy consumption by approximately 48%*.

*Compared to RAS-J140HE, our constant speed product of 10 years ago (model 140 Tenkase (ceiling cassette) four directions (single type) connected at 50Hz).

Space Saving

With the independent operation function, the outdoor units can be consolidated into one to reduce the space needed for the installation of outdoor units.

Ozone Layer Protection

Uses a new refrigerant, R-410A, which does not harm the ozone layer.



RAS-AP140HVM2



www.hitachi-ap.co.jp/products/business/ac/office

Heating Capability that Doesn't Falter at an Ambient Temperature of -15°C
Packaged Air Conditioning System for Stores and Offices in Cold Regions

Knows No Cold

Using a liquid injection cycle in the scroll compressor, this air conditioner maintains its heating capability in low ambient temperatures without the use of electric heaters. Awarded the FY2008 Minister of Environment Award for Activities to Prevent Global Warming (technology development and commercialization category).

Energy Conservation

The heating capability is greatly improved by the use of a compressor with improved scrolling ridges and concentrated winding motor (models 80-140 only) and a liquid injection cycle which increases the amount of circulating refrigerant when the ambient temperature is low through the appropriate distribution of refrigerant in the compressor's middle pressure chamber. Period energy consumption was reduced by approximately 25%*.

*Compared to our conventional model (model 112 Tenkase (ceiling cassette) four directions (single type) connected at 50Hz).

Space Saving

With the independent operation function, the outdoor units can be consolidated into one to reduce the space needed for the installation of the outdoor units.

Ozone Layer Protection

Uses a new refrigerant, R-410A, which does not harm the ozone layer.



RAS-AP112HNP1



www.hitachi-ap.co.jp/products/business/ac/office

Total System for Energy Conservation and Stable Temperature Management
Scroll Compressor Chiller

Inverter Scroll Cooling System

This systematic cooling device comprised of an inverter scroll chiller, unit cooler, and high performance controller realizes energy conservation and stable temperature management in chillers and freezers.

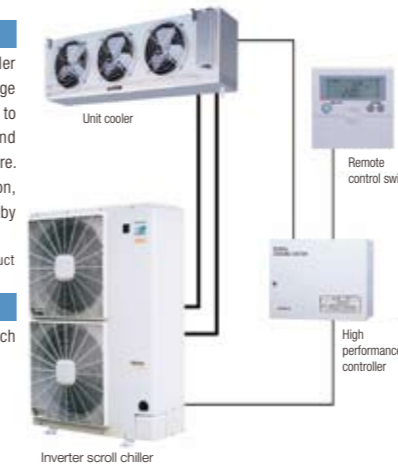
Energy Conservation

The inverter scroll chiller and controller intercommunicate to adjust the change rate of operation frequency according to the temperature inside the chiller and freezer by controlling intake gas pressure. This contributes to effective operation, reducing annual energy consumption by about 25%*.

*Compared with our constant speed product system (4.5kW system)

Ozone Layer Protection

Uses a new refrigerant, R-404A, which does not harm the ozone layer.



Inverter scroll chiller

Improvement in Annual Average COP through the Use of Low Temperature Coolant
High Efficiency Centrifugal Chiller

HC-F-GX Series

This centrifugal chiller improved efficiency through the use of a heat exchanger with a tube of high heat transfer performance, compressor with reduced fluid loss due to flow analysis, chiller cycle utilizing an economizer cycle (intercooler), and other features.

Energy Conservation

The "low temperature coolant operation" which capitalizes on seasonal temperature changes and other features improve the annual average COP by about 50%*.

* Compared to our conventional HC-F model (1050RT class)

Ozone Layer Protection

Uses a new refrigerant, R-134a, which does not harm the ozone layer.



HC-F2000GX



www.hitachi-ap.co.jp/products/business/freezer/turbo

COP4.0* Cooling/Heating Average Achieved
Multi Packaged Air Conditioning System for Buildings

*Model 1350
standalone outdoor
unit, power specs
50Hz

Cooling/Heating Switchover Type Set Free iZ High Efficiency Type

A maximum of 46 indoor units (models 1300 and 1350) can be connected to this multi packaged air conditioner for large scale buildings, making it adaptable to various types of buildings and room layouts. Its unique energy conservation technology has achieved a high COP.



RAS-AP1350GS

Energy Conservation

Using energy conservation technology such as an inverter compressor and a constant speed compressor equipped with an MS motor (magnetic synchronous motor), the COP Cooling/Heating average improved by about 13%*.

*Compared to our conventional RAS-AP1350FS1 (standalone outdoor unit, power specs 50Hz).

Easy Installation

Pipe and wiring construction between outdoor units are made unnecessary by an integrated structure for all capacity models.

Ozone Layer Protection

Uses a new refrigerant, R-410A, which does not harm the ozone layer.



www.hitachi-ap.co.jp/products/business/ac/office

COP4.1/3.8* Cooling/Heating Average Achieved
Air-cooled Heat Pump Type Screw Compressor Chiller

*In 100HP 50/60Hz rated operation

AP1 Series (High Efficiency Model)

With a central method air conditioning heat generator that utilizes an air side heat exchanger with a purely-air, non-water refrigerant, this chiller unit provides hot and cold water for air conditioning in mid- to large-scale factories and office buildings.

Energy Conservation

An approximately 14%* improvement in cooling/heating average COP was achieved by employing a larger air side heat exchanger, new type propeller fan, and other features.

*Compared with our conventional A4 series (in 100HP 50/60Hz rated operation)

Ozone Layer Protection

Uses a new refrigerant, R-407C, which does not harm the ozone layer.



High efficiency (AP1) series



www.hitachi-ap.co.jp/products/business/ac/chiller

Efficiently Utilizing Water Heated by Exhaust Heat for Energy Conservation
High Efficiency Exhaust Heat Steam-powered Gene-link

EX Series

A Steam-powered absorption chiller equipped with a recovery function for water heated by exhaust heat which realizes energy conservation by using steam as well as waste heat water generated from the gas engine cogeneration system as its heat source.

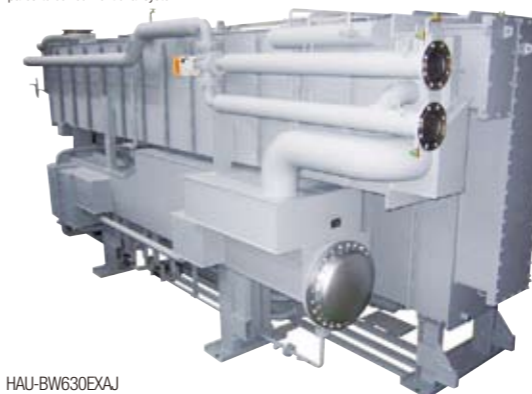
Energy Conservation

Reduces annual steam consumption by about 45%* by prioritizing use of water heated by exhaust heat during partial load operation.

* Compared to our conventional system

Environmental Protection

Employing non-fluorocarbon air conditioning that uses water as a refrigerant.



HAU-BW630EXAJ

Realizes Partial Load COP of 1.59*¹
High Term Efficiency Absorption Chiller-Heater

*¹ Under JIS B 8622 test conditions (EXPA (large temperature difference only with cold water), at a 50% load)

EXP Series

An absorption chiller-heater based on the EX series with improved partial load efficiency due to the inverter control function of the liquid solution pump which controls the amount of liquid circulating according to the load fluctuation.

Energy Conservation

The liquid solution pump inverter control regulates the amount of liquid circulating depending on the fluctuation of the load, controlling heat loss during partial load operation. This improves the partial load COP by about 36%* when operating at a load of 50%.

* Compared to our conventional V series (500RT class)

Environmental Protection

Non-fluorocarbon air conditioning that uses water as a refrigerant.



HAU-BGN500EXPA

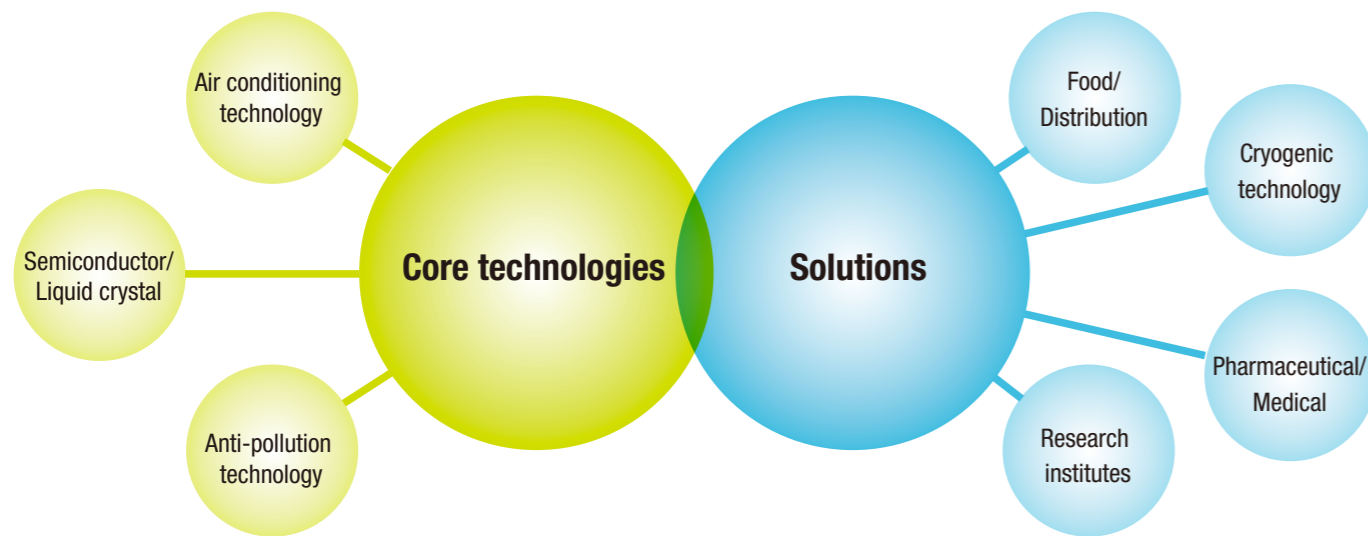


www.hitachi-ap.co.jp/products/business/freezer/absorption

Cutting-Edge Energy Saving Systems through Systems Integration
Air Conditioning System Solutions

Air Conditioning System Solutions

We provide system solutions tailored to individual fields such as food/distribution, semiconductor/liquid crystal, pharmaceutical/medical, and research institutes, based on our core technologies including those of air conditioning, cryogenics, and anti-pollution.



Proposed System Featuring Our Highly Efficient Equipment

- ▶ Compressor with inverter
- ▶ Highly energy-efficient equipment

Proposed Comprehensive Energy Saving System

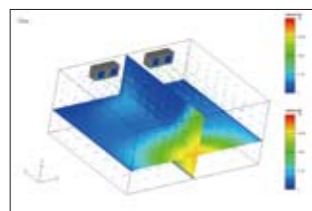
- ▶ Operation control optimization
- ▶ Exhaust heat and drainage water use
- ▶ Natural energy use

Proposed Reliable Renovation

- ▶ Initial running cost reduction
- ▶ Elaborate on-site survey and execution plan
- ▶ Measures to address impacts on existing production lines

Proposed Energy Saving Refrigerator/Freezer Warehouse Utilizing Ice Thermal Storage

- ▶ Introduction of liquefaction cooling, ice thermal storage facility in refrigeration/freezing warehouse
- ▶ Electricity reduction (about 15% reduction)
- ▶ Running cost reduction



Study on comfortable air conditioning using air flow simulation



Laminar flow type clean room facility



HACCP* clean room facility



Ice thermal storage facility

*HACCP (Hazard Analysis and Critical Control Point): Food hygiene and safety management system based on the concept of hazard analysis and critical control points.

Award for Excellent Company Promoting Product Safety

We received the gold prize in the "large manufacturer and importer category" of the "First (FY2007) Excellent Company Promoting Product Safety: Minister of Economy, Trade and Industry Award." The award was established by the Ministry of Economy, Trade and Industry to promote proactive efforts toward product safety by companies as well as to establish a safe and worry-free society in which product safety will continuously improve.

FY2008 Action Plan and Achievements

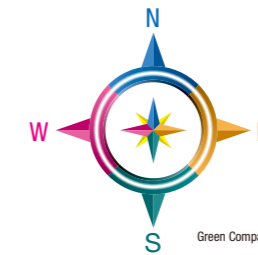
The achievements for each item of the FY2008 Action Plan are shown and compared with the targets. Targets for FY2010 have been set based on the Hitachi Group's "Stage 2 Environmental Strategy (formulated in 2006)."

Eco-mind & Global Environmental Management

We will create an advanced eco-mind and the power to transform ideas into action, and build/operate a global management and evaluation system.

Next-Generation Products & Services

We will continue to achieve innovations for highly competitive products and services that will contribute to the realization of a sustainable society, and deploy new business models accordingly.



Super Eco-Factories & Offices

We will thoroughly carry out activities for the prevention of global warming, and continue our efforts to promote recycling, and at the same time, to build up our bases with consideration for the environment.

Worldwide Environmental Partnerships

We will strengthen environmental communications, and actively endeavor to realize concrete partnerships with our stakeholders while clarifying our objectives and achievements.

◎ : Attained △ : Improvement effort required

Category/Item	Action plan	FY2008 target	FY2008 results	Achievement level	FY2010 target	
Eco-Mind & Global Environmental Management						
Activity	Increase GP (Green Points) in the "GREEN 21" *1 Activity	1024GP	1061GP	◎	1280GP	
Education	Increase the percentage of recipients for the Hitachi Group standard education (environmental e-learning)	80%	95%	◎	90%	
Next-Generation Products & Services (Providing Eco-Friendly Products)						
Products	Expand eco-products (Registration ratio)	Home appliances	96%	99%	◎	100%
		Commercial use air conditioners	80%	80%	◎	more than 80%
	Develop super eco-products [ratio of super eco-products]		15%	38%	◎	30%
Super Eco-Factories & Offices (Eco-Conscious Works) [Japan]						
Prevention of Global Warming	Reduce CO ₂ emissions in production (basis: FY1990)	7% reduction	39% reduction	◎	7% reduction	
	Reduce unit energy consumption in product transportation (basis: FY2006)	2% reduction	5% reduction	◎	4% reduction	
Effective use of resources	Reduce waste generated from factories (basis: FY2000)	16% reduction	12% reduction	△	20% reduction	
Chemical substances management	Reduce VOC *2 atmospheric emissions from factories (basis: FY2000)	44% reduction	73% reduction	◎	45% reduction	
Worldwide Environmental Partnerships (Communication with Stakeholders, Social Action Program)						
Environmental communication	Pursue communication with our stakeholders (customers, administrative authorities, shareholders, business partners, citizens)	-	● Exhibition participation ● Expansion of appeal of "Hitachi's Eco through Usage for a Lifetime" on our website	◎	-	
Global citizen activities	Promote social action program by, for example, planning volunteer activities and encouraging employees to actively participate in community volunteer activities	-	● Promotion of Team Minus 6% activities ● Interaction with local citizens, clean-up activities, factory tours by elementary schools	◎	-	

*1 Hitachi Group's standard self-evaluation system developed for continuous efforts and improvement in environmental activities

*2 VOC... Volatile Organic Compounds, a general term for highly evaporative organic compounds such as toluene and xylene

Hitachi Appliances Action Guidelines for Environmental Conservation

These guidelines set forth Hitachi Appliances' action for addressing environmental conservation in relation to its business activities based on the "Hitachi Appliances Group Standards of Corporate Conduct."

Purpose

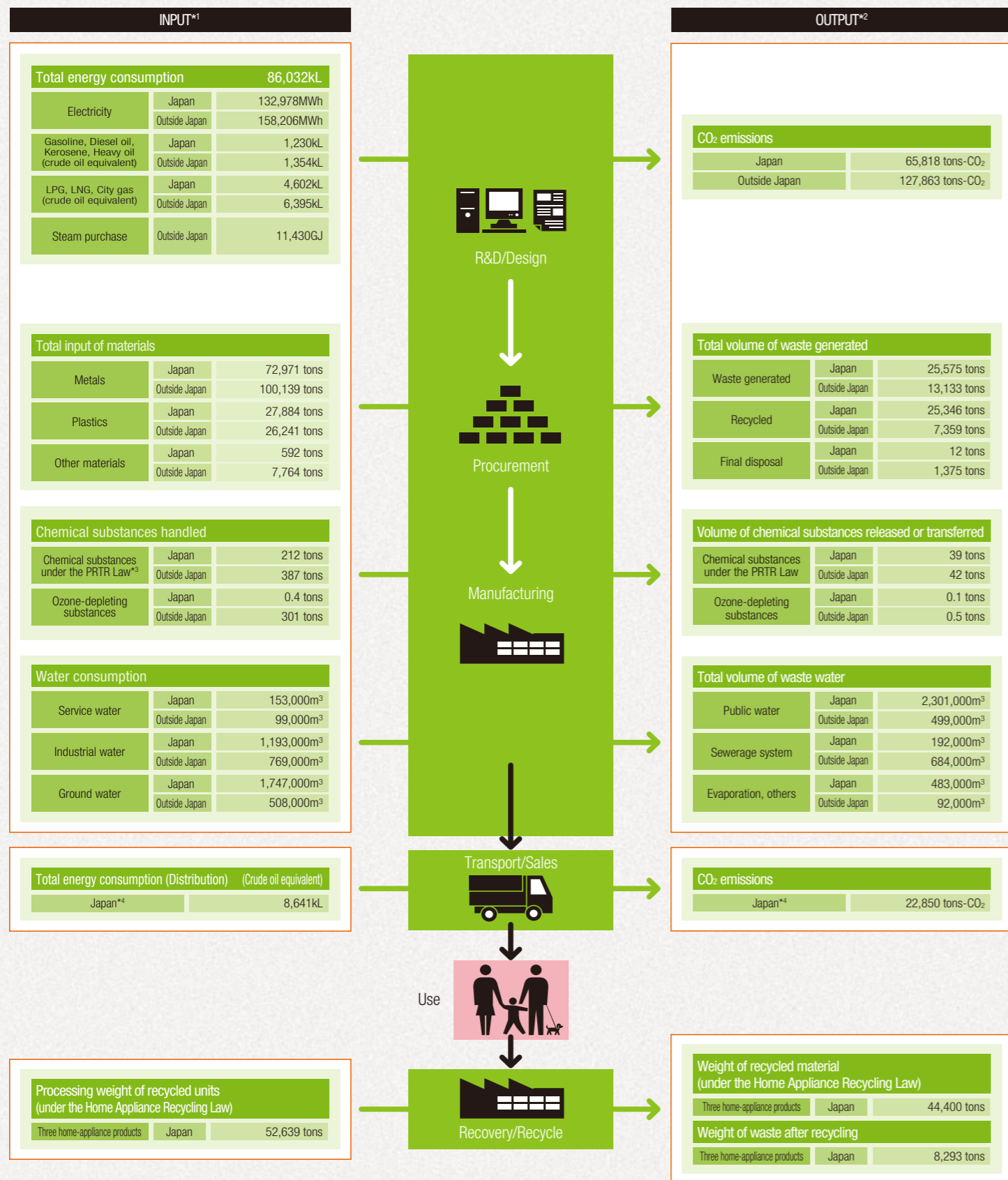
In order to realize an environmentally harmonious and sustainable society through products and services, Hitachi Appliances is committed to fulfilling its social responsibilities by promoting globally-applicable "MONOZUKURI" (design, manufacture, or repair of products), which is aimed at reducing the environmental burden of products throughout their entire life cycle, and ensuring environmental conservation.

Action Guidelines

- Global environmental conservation is a critical challenge shared by all humans. Hitachi Appliances is committed, therefore, to fulfilling its responsibilities by assisting in the realization of an environmentally harmonious and sustainable society as one of its management priorities.
- Hitachi Appliances will make efforts to contribute to society by identifying needs that concern global environmental conservation and limited resources, and developing highly reliable technologies and production processes to address these needs.
- Members of the board in charge of environmental conservation are responsible for facilitating appropriate environmental conservation activities. Departments responsible for environmental conservation should endeavor to promote and ensure environmental conservation activities, including improving environment-related rules and regulations and setting goals for environmental burden reduction. These departments should also confirm that their environmental conservation activities are conducted in a proper manner and ensure that these activities are maintained and improved.
- Hitachi Appliances will promote globally-applicable "MONOZUKURI" with the aim of reducing environmental burden at every stage, including product research and development, design, production, distribution, sales, usage, and final disposal.
- Hitachi Appliances will investigate and review the environmental impact caused over the course of its "MONOZUKURI" processes. Hitachi Appliances will also introduce excellent technologies and materials useful to safeguard the environment, in other words, to reduce environmental burdens through energy and resource saving, chemical substance management, recycling, and other measures.
- Hitachi Appliances' environmental conservation efforts are not to be exclusively focused on observing international environmental regulations and those of national and local governments, but also on conserving the environment by implementing voluntary environmental standards when necessary.
- Regarding globally-applicable "MONOZUKURI" activities, impact on the local environment and community are to be considered. In addition, measures that meet local communities' requests should be implemented.
- Hitachi Appliances will educate its employees on the observance of environment-related laws, raise their environmental awareness, and encourage their interest in society at large and broad-based environmental conservation activities.
- Hitachi Appliances will evaluate potential environmental issues and do its utmost to prevent them. In the event that an environmental problem occurs, Hitachi Appliances will take appropriate measures to minimize the impact on the environment.
- Hitachi Appliances will make efforts to disclose information on its environmental conservation activities to the relevant stakeholders. Hitachi Appliances will also actively communicate with these stakeholders so as to strengthen mutual understanding and forge cooperative relationships with them.

Environmental Impact by Business Activity (FY2008)

This shows the FY2008 data for the amount of resources input and the environmental load generated by the business activities of Hitachi Appliances.



*1 INPUT: The amount of material and water resources such as energy, raw material, and chemical substances used in business activities such as product manufacturing.
 *2 OUTPUT: The environmental load such as CO₂, chemical substances, waste, and waste water generated by business activities.
 *3 354 chemical substances specified in the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof.
 *4 For Hitachi Appliances, Inc.

Data gathered for: Tochigi Works; Taga Works; Shimizu Works; and Hitachi Reftechno, Inc. in Japan, and Hitachi Air-conditioning & Refrigerating Products (Guangzhou) Co., Ltd.; Hitachi Compressor Products (Guangzhou) Co., Ltd.; Shanghai Hitachi Household Appliances Co., Ltd.; Hitachi Household Appliances (Wuhu) Co., Ltd.; Taiwan Hitachi Co., Ltd.; Hitachi Consumer Products (Thailand), Ltd.; Hitachi Compressor (Thailand), Ltd.; Hitachi Air Conditioning Products (Malaysia) Sdn. Bhd.; Hitachi Home&Life Solutions (India) Ltd; Hitachi Air Conditioning Products Europe, S.A.; and Hitachi Air Conditioning Products Brazil, Ltd. outside Japan.

Includes affiliate companies working with the Taga Works.
 Excludes Tsuchiura Works which is positioned within the Tsuchiura Branch of Hitachi Plant Technologies, Ltd. and works as part of Hitachi Plant Technologies, Ltd.

Eco-Mind & Global Environmental Management

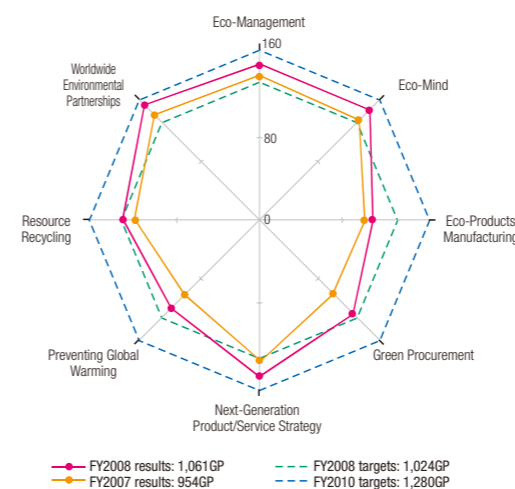
If environmental activities are to achieve a firm objective, it is essential to establish more concrete and effective targets. By setting up an eco-management system and fostering eco-consciousness among individual workers in their respective positions, workers can be motivated to pursue more positive actions, paving the way for substantial achievements.

GREEN 21 Activities

The Hitachi Group evaluation system GREEN 21 assesses a roadmap to the target achievement year, the content of targets, and the progress of continuous efforts and improvements in environmental activities. The status of activities is evaluated on a scale of 0 to 5, with Level 4 designated as the target level for FY2010 in the Hitachi Group Environmental Action Plan. The evaluation for FY2008 was scored as 1,061GPs (Green Points), which exceeds the 1,024GPs target.

Green Point Average: Results and Targets

Data gathered for: Tochigi Works; Taga Works; Shimizu Works; and Hitachi Reftechno, Inc.; Hitachi Air-conditioning & Refrigerating Products (Guangzhou) Co., Ltd.; Hitachi Compressor Products (Guangzhou) Co., Ltd.; Shanghai Hitachi Household Appliances Co., Ltd.; Hitachi Household Appliances (Wuhu) Co., Ltd.; Taiwan Hitachi Co., Ltd.; Hitachi Consumer Products (Thailand), Ltd.; Hitachi Compressor (Thailand), Ltd; Hitachi Air Conditioning Products (Malaysia) Sdn. Bhd.; Hitachi Home&Life Solutions (India) Ltd; Hitachi Air Conditioning Products Europe, S.A.; and Hitachi Air Conditioning Products Brazil, Ltd.



Evaluation items (8 categories/56 performance indicators)

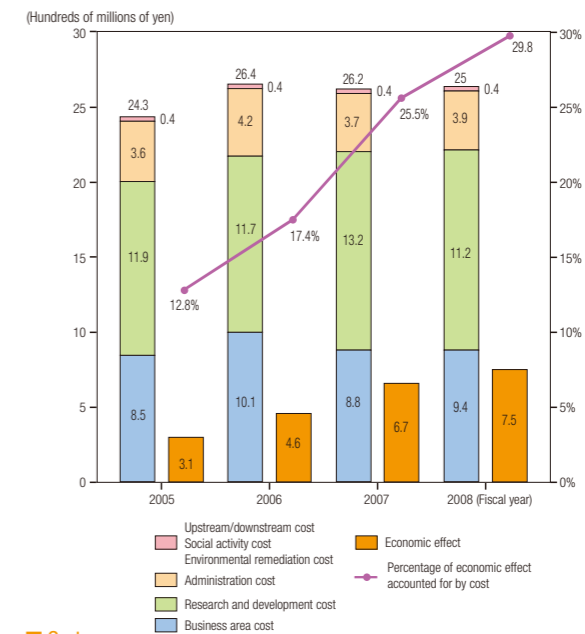
Category	Main contents of evaluation
Eco-Management	Action plan, environmental accounting, risk management
Eco-Mind	Employee training and education
Eco-Products: Manufacturing	Eco design management system, eco products, management of product chemical content
Eco-Products: Green Procurement	Green procurement, green purchases
Next-Generation Product/Service Strategy	Business and product strategy, sustainable business, publicity
Eco-Factories: Reducing Global Warming	Energy saving at production factories, environmentally responsible distribution
Eco-Factories: Resource Recycling	Waste reduction, chemical substance management
Worldwide Environmental Partnerships	Information disclosure, communication, global citizen activities

Environmental Accounting

Recognizing environmental activities as one of the key elements of our management, we introduced an environmental accounting system in FY2001. We disclose the cost of environment preservation activities, and the economic and physical effects in the form of environmental management information. We aim to let others gain an understanding of our perspective toward the environment. In FY2008, expenses were about ¥2.5 billion, which represented an approximately 4% decrease over the previous year. The economic effect of energy-saving and resource-saving was about ¥0.75 billion, or equivalent to 30% of the expenses.

Change in Cost and Effect

Data gathered for: Tochigi Works; Taga Works; Shimizu Works; and Hitachi Reftechno, Inc.



Costs

Costs	Content
Business area cost	Environmental impact reduction facilities maintenance/management cost, depreciation cost
Upstream/downstream cost	Green procurement cost, product & packaging recovery/recycling cost, recycling cost
Administration cost	Environmental management labor cost, environmental management system operation and maintenance cost
Research and development cost	Product/manufacturing process, environmental impact reduction research & development and product design cost
Social activities cost	Greening/beautification and other environmental improvement, PR/publicity cost
Environmental remediation cost	Environment-related measures and contributions and surcharges

www.hitachi-ap.co.jp/company/environment/kankyo/activity/finance.html

www.hitachi-ap.co.jp/company/environment/kankyo/activity/green21.html



Next-Generation Products & Services

To reduce the environmental impact at each stage of the product lifecycle, Hitachi Appliances is actively taking measures such as energy saving, efficient utilization of resources, reduction of chemical substances, and conversion to new refrigerants that have an ozone depletion potential of zero.



Development of Eco-Products

The Assessment for DfE (Design for Environment) is incorporated into product development to reduce the environmental impact at each stage of the "product lifecycle" from resource mining to disposal and recycling.

Improvements to existing models for a total of eight criteria including resource reduction, product longevity, resource recycling and ease of decomposition are assessed, and products that meet the standard are designated as "Eco-Products." In FY2008, 14 products comprising 344 models were designed as "Eco-Products," which accounts for 95% of the total number of registered products.

In addition, we are expanding "Super Eco-Products," which are designated from among the "Eco-Products" when they meet at least one of the following criteria: (1) their "Environmental Efficiency"—an indicator for added value of products and services based on a reduction in greenhouse gas emissions and resource consumption—is at least 10-times that of conventional products; (2) they have the top-class environmental performance in the industry; (3) they are highly regarded among external independent evaluators. In FY2008, 10 products comprising 62 models including refrigerators, air conditioners, washer-dryers, and packaged air conditioners were designated as "Super Eco-Products."



www.hitachi-ap.co.jp/company/environment/kankyo/product



Distribution of Environmentally Conscious Product Information

Hitachi Appliances provides information especially for its major products on what technologies are used for specific parts of each product in media such as home appliance catalogs and websites for customers to easily understand the environmentally conscious measures that have been taken for each product.



Example in our catalog

Example on our website



Energy Conservation Activities

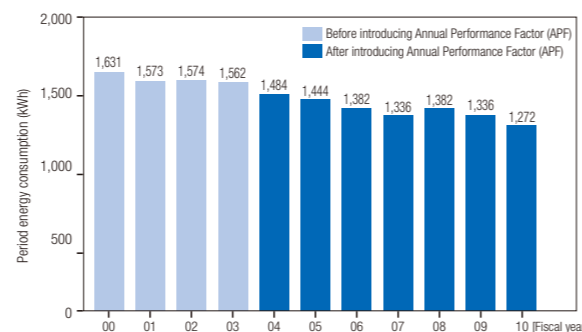
Given that the majority of the environmental burden in a product lifecycle comes from the energy consumed during the use of the product, product energy conservation is an important product development theme. Hitachi Appliances is actively working to reduce the energy consumption of products during operation and in standby.

These activities include the development of many energy saving technologies, such as "PAM control," "high efficiency compressors," and "vacuum insulation panel" used in refrigerators and air conditioners to improve energy conservation performance.

The current energy-saving air conditioner of the 4.0kW class has reduced energy consumption by about 4.8% compared with our conventional model of a year ago.

Energy savings in room air conditioners

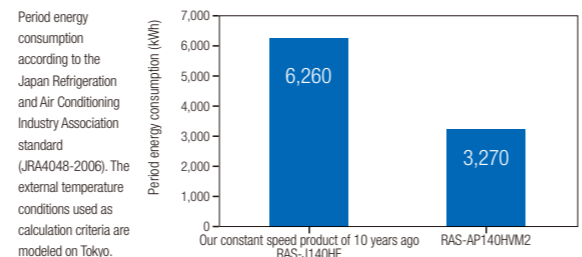
Typical energy saving model (for both cooling and heating, wall-hung type, 4.0kW class)
Period energy consumption according to the Japan Refrigeration and Air Conditioning Industry Association standard (JRA4046). The external temperature conditions used as calculation criteria are modeled on Tokyo.



FY2000: RAS-4010LX2, FY2001: RAS-4010MX2, FY2002: RAS-4010NX2, FY2003: RAS-4010RX2, FY2004: RAS-E40S2, FY2005: RAS-S40T2, FY2006: RAS-E40V2, FY2007: RAS-S40W2, FY2008: RAS-S40X2, FY2009: RAS-S40Y2, FY2010: RAS-S40Z2

As for packaged air conditioners for stores and offices, various technologies have been introduced for energy savings. In the 1990s, compressors and heat exchangers were made more efficient. In the 2000s, inverters were built into compressor operation, and the electric current for compressors and fan motors was changed to direct current. As a result, compared with our products 10 years ago, period energy consumption has been reduced by about 48% (in the case of RCI-AP140HVM2 with 5HP equivalent ceiling cassette).

Energy savings in packaged air conditioners for stores and offices



Management of Product Chemical Content and J-Moss Compliance

Hitachi Appliances has formulated "Environmental CSR Compliant Monozukuri Standards," and designated 13 prohibited substances*1 and 12 controlled substances*2 to be regulated. A survey is conducted on materials procured for production, from components of a product to onsite materials that might be used in a product, to determine the existence and amount of the designated substances. The survey data is managed centrally in an onsite database and shared.

*1 13 prohibited substances

1. Cadmium, 2. Hexavalent chromium, 3. Lead, 4. Mercury, 5. TBTO, 6. PBB, 7. PBDE, 8. PCB, 9. Polychlorinated naphthalene, 10. Short chain chlorinated paraffin, 11. Asbestos, 12. Azo dyes and pigments, 13. Ozone layer depleting substances (Class I)

*2 12 controlled substances

1. Antimony, 2. Arsenic, 3. Beryllium, 4. Bismuth, 5. Nickel, 6. Selenium, 7. Bromic flame retarders, 8. PVC, 9. Phthalate ester, 10. TBT and TPT, 11. Ozone layer depleting substances (Class II), 12. Radioactive material

In compliance with J-Moss*3 which requires the management and information disclosure of six chemical substances—namely, lead, mercury, cadmium, hexavalent chromium, PBB (polybromobiphenyl) and PBDE (polybromodiphenyl ether)—the replacement with materials which do not use these six chemical substances has been undertaken, and the "J-Moss Green Mark" has been labeled on refrigerators, air conditioners, washing machines, clothes dryers and microwave ovens. Our response to the J-Moss Green Mark is disclosed on our website.



*3 J-Moss
JIS C 0950 "The marking of the presence of specific chemical substances in electrical and electronic equipment"
The ministry-level ordinance to implement the Law for the Promotion of Effective Utilization of Resources obliges its labeling.



www.hitachi-ap.co.jp/company/environment/kankyo/jmoss

Example of information on our website (refrigerators)

型 式					
R-S80400	R-V370	R-S30VMV	R-S30VMVL	R-27YS	R-S27VMV
R-25VA	R-C337VMV	R-3370	R-S31XMV	R-S31HML	R-S26XMV
R-26XS	R-S47YM	R-S47YML	R-S42YM	R-S42YML	R-V6000
R-V5400	R-SF6VM	R-SF6VM	R-SF6VM	R-SF45VM	R-SF42VM
R-V6000	R-SF60VM	R-SF60VM	R-SF60VM	R-SF45VM	R-S450M
R-A	R-AM	R-AM	R-C	R-AM	R-AM
R-K26VLV					

ユニット	化学物質記号					
	Pb	Hg	Cd	Cr/CVD	PBB	PBDE
外部部品	○	○	○	○	○	○
内部部品	○	○	○	○	○	○
冷却部品	○	○	○	○	○	○
電気・電子部品	○	○	○	○	○	○
樹脂材	○	○	○	○	○	○
塗 装	○	○	○	○	○	○



Activities to Protect the Ozone Layer and Prevent Global Warming

The refrigerants used in air conditioning products has been changed from HCFC (hydrochlorofluorocarbon) refrigerants, which destroy the ozone layer, to HFC (hydrofluorocarbon) refrigerants, which have an ozone depletion potential of zero. In refrigerators, Hitachi Appliances has converted to using the non-fluorocarbon refrigerant R-600a (isobutane), which has a global warming potential of 3, and non-fluorocarbon refrigerant is applied to all units produced domestically. In addition, we have switched to using the natural refrigerant CO₂, which has a global warming potential of 1, in heat pump water heaters, and are broadening this lineup.



Resource Conservation in Product Use

Recognizing that energy is consumed to produce the tap water we use in our homes, Hitachi Appliances is working to conserve water when washing clothes. In addition to water saving technologies such as the "bathwater pump" that uses residual bath water in washing and the stepless water level function, the "Beat Wash" water-saving type washer-dryer that uses our unique beat washing and high density detergent circulation system went on sale in 2004, and the bathwater pumping function was modified to cover the drying process in 2006.

In 2009, we employed features such as "rinse by spraying and rotation" in the front loading washer-dryer (BD-V3200), which reduced tap water use to about 55 liters when running a washing-drying 6kg standard course.

Rinse by spraying and rotation

The drum of the washer revolves pouring water on the clothes while using centrifugal force to spin detergent off the clothes, thus rinsing the clothes while conserving water (the first rinse cycle uses running water for rinsing, while the second cycle uses stored water).

Recycling of Home Appliances

The Home Appliance Recycling Law (Law for Recycling of Specified Kinds of Home Appliances) was put into effect in April 2001. Hitachi Appliances established the Kanto Eco Recycle Co., Ltd., a home appliance recycling plant within Tochigi Works, and has been recycling the specified four kinds of used home appliances.

This is a recycling plant that is integrated with a manufacturing plant, and the processing know-how obtained from this plant is incorporated into the production process, for example, in the design of products that are easily dismantled and separated.

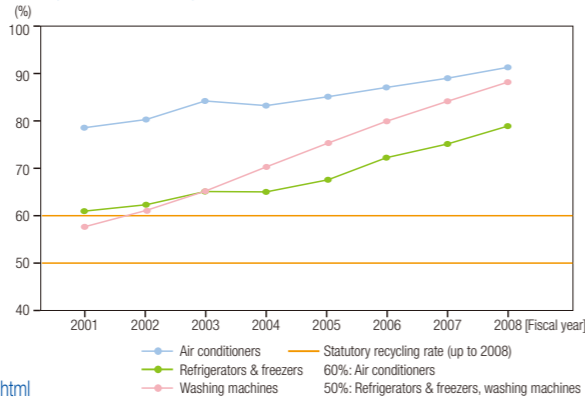
In FY2008, we recycled 52,693 tons in total of three specific home appliance products excluding CRT televisions, resulting in an 84% product recycling rate.



FY2008 recycling results for 3 used home appliance products

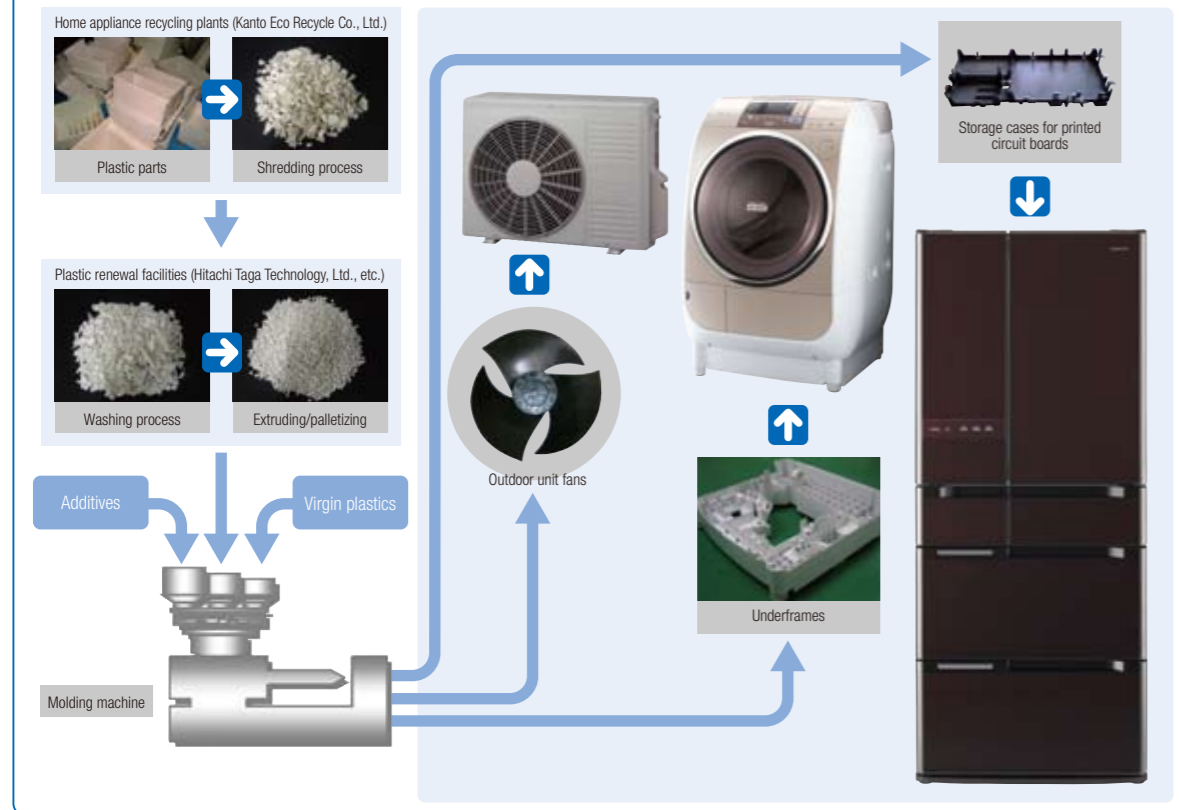
Item	Air conditioners	Refrigerators & freezers	Washing machines
Number of units recycled (units)	215,373	395,875	632,115
Processing weight of recycled units (tons)	8,890	23,131	20,672
Weight of recycled material (tons)	8,167	17,864	18,369
Recycling rate (%)	91	77	88

Changes in the recycling rate of 3 used home appliances



Closed-loop Recycling of Plastics

The plastic surfaces of used home appliances are often in poor condition due to long usage. We have established technologies to improve the quality of used plastics through blending virgin plastic, ultraviolet [UV] absorber for weather resistance improvement, antioxidants for heat resistance improvement, and color pigment, and constructed a renewal facility at Hitachi Taga Technology, Ltd. within Taga Works. In the renewal process, we select a tensile elongation trait, one of the most affected mechanical traits of plastics, as a criterion. The "closed-loop recycling," which reuses plastics collected at home appliance recycling plants for underframes of washing machines and other purposes, has been in operation since 2002, and we are expanding its coverage; 595 tons were recycled in FY2008.



Super Eco-Factories & Offices

Hitachi Appliances manufactures a line of products incorporating various environmental measures at manufacturing locations that give maximum consideration to global warming, energy conservation, zero emission*1, and other environment preservation measures.

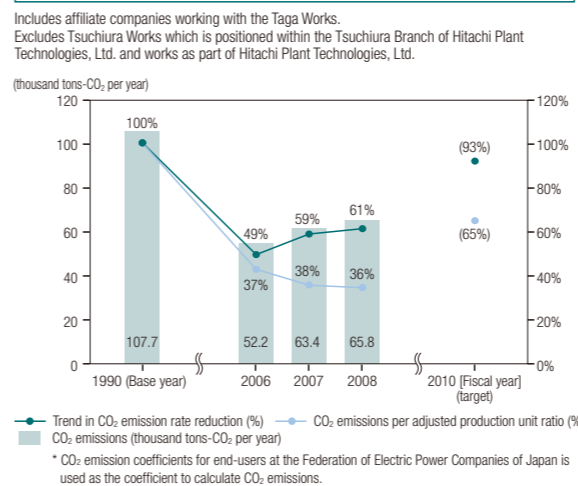
Global Warming Prevention

The Hitachi Appliance Group has been working toward reducing CO₂ emissions generated during production by 7% by FY2010 (compared with FY1990) and achieving the target set forth in the voluntary action plan of the four electrical and electronics-related associations, by reducing the use of electricity, gas, and other fuels.

Due to an increase in production in FY2008, CO₂ levels increased compared to the previous year. However, we still achieved a 39% decrease in CO₂ emissions compared to FY1990. Additionally, CO₂ emissions per adjusted production unit**2 were reduced by 64% compared with FY1990 levels, an improvement of 2 percentage points from the previous year.

Trends in CO₂ emissions in Japan

Data gathered for: Tochigi Works; Taga Works; Shimizu Works; and Hitachi Reftechno, Inc.



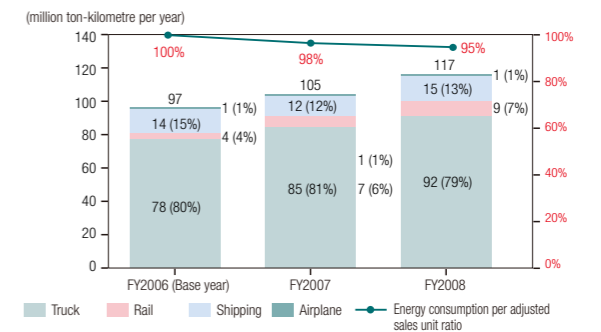
Boosting Transportation Efficiency

As designated shippers under the Amended Energy Conservation Law enacted in April 2006, we are pursuing CO₂ emissions reduction in transportation by increasing loading effectiveness, implementing a modal shift to rail transport**3 and other measures.

In FY2008 use of rail transport increased by one percentage point to 7% of the total transported amount. Additionally, transportation energy consumption per adjusted sales unit improved by about 5% compared to FY2006.

Total transported amount in Japan

Data gathered for: Hitachi Appliances, Inc.



*1 Zero emission... Approach to reduce the final disposal amount to zero by using waste as a separate industrial raw material
Hitachi definition: Current year's final disposal rate of 1% or less and final disposal amount up to 5t
*2 (adjusted production) = (nominal production) / (Bank of Japan's Domestic Corporate Goods Price Index: Electric and Electronic Products)
*3 Modal shift... Shift in artery cargo transportation from truck to rail and ship, which have lower CO₂ emissions levels per tonne-kilometre.

2008 Nikkei Monozukuri Award

Our unique cell production method for large appliances (large refrigerators, drum-type washer-dryers, Eco Cute) applied at Tochigi Works, Taga Works, and Shimizu Works was awarded the 2008 Nikkei Monozukuri Award. This award is presented to programs and systems used at factories and laboratories involved in manufacturing.

The introduction of an "automated karakuri" feature which automatically moves products up, down, and sideways, a work station called a "lifter" which can flexibly adjust the heights, and other features led to a reduction in wasted effort of moving and transporting products which drastically improved productivity. The improvement in productivity also contributes to energy conservation during production and reduces the amount of waste generated.



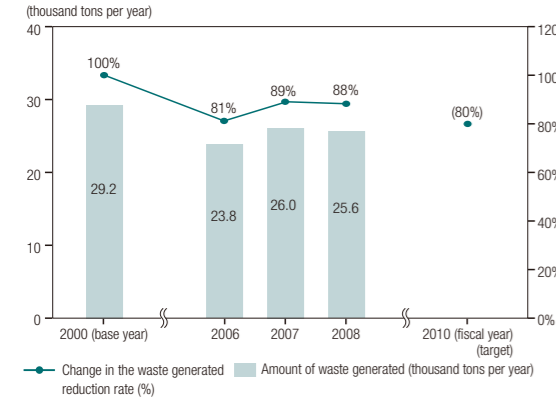
Efficient Utilization of Resources

The Hitachi Appliances Group promotes the 3Rs (Reduce, Reuse, and Recycle). The Group is working to reduce waste generated by 20% by FY2010 (compared with FY2000) and achieve zero emission. The amount of waste generated in FY2008 was 12% less than the FY2000 levels. Additionally, zero emission was achieved at all manufacturing locations in Japan. Shimizu Works has been achieving this continuously since FY2002.

Trend in the waste generated in Japan

Data gathered for: Tochigi Works; Taga Works; Shimizu Works; and Hitachi Reftechno, Inc.

Includes affiliate companies working with the Taga Works. Excludes Tsuchiura Works which is positioned within the Tsuchiura Branch of Hitachi Plant Technologies, Ltd. and works as part of Hitachi Plant Technologies, Ltd.



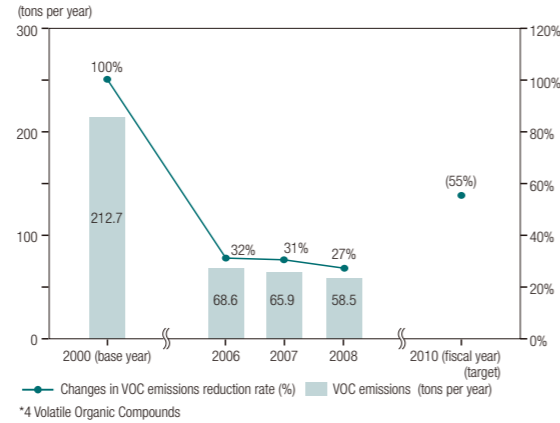
Management of Chemicals

With the enactment of the Amended Air Pollution Control Act in April 2005, Hitachi Appliances proactively and voluntarily selected 41 types of VOC*4 (xylene, toluene, methanol, etc.), and has been working toward a 45% reduction of their emissions by FY2010 (compared with FY2000). In FY2008, an improvement of four percentage points from the previous year was achieved, which amounts to a 73% reduction from the FY2000 value.

Trend in VOC emissions in Japan

Data gathered for: Tochigi Works; Taga Works; Shimizu Works; and Hitachi Reftechno, Inc.

Includes affiliate companies working with the Taga Works. Excludes Tsuchiura Works which is positioned within the Tsuchiura Branch of Hitachi Plant Technologies, Ltd. and works as part of Hitachi Plant Technologies, Ltd.



Activities of the Hitachi Appliances Group

Taiwan Hitachi Co., Ltd.

We consider global environmental issues a top management priority that all employees take part in.

Taiwan Hitachi Co., Ltd. manufactures and sells Hitachi Brand air conditioners and related equipment in Taiwan. An environmental management strategy division was set up at Hitachi Taiwan in February 2008. The division positioned global environmental issues as a top management priority in which all employees take part in, through the announcement of the Taiwan Hitachi Environment Vision 2015 to the mass media, and other measures.

In 2008, Taiwan Hitachi aggressively introduced an inverter air conditioner into the Taiwanese air conditioner market, which had a low share of inverter air conditioners, contributing to energy conservation. Products newly developed since 2008 comply with 2016 EER regulations, and the company has acquired energy conservation marks for 57 products. Additionally on the production side, we have introduced VOC pollution prevention facilities at our compressor and motor factories, working to reduce the amount of VOC emissions as well as reduced CO₂ emissions by improving lighting facilities.

Our 2009 corporate statement is "Treasure the Earth, make Taiwan a better place" in response to the Hitachi Group's environmental concept "Hitachi can contribute to protecting the earth." Hitachi Taiwan will continue to work together with all employees to vigorously move toward the realization of a clean strategy, a database for environmental information, and a low-carbon society.



A new product announcement



Press announcement for the Taiwan Hitachi Environment Vision 2015



Taiwan Hitachi Taoyuan Factory

Worldwide Environmental Partnerships

Hitachi aims to work together with customers, local communities, suppliers, employees, and other stakeholders to "create a sustainable society," and is providing information and engaging in dialogue in a variety of forms to this end.

As part of its environmental social contribution activities, the Hitachi Alliance Group conducts cleanup activities around its production locations and surrounding areas in Japan. In particular, the Company has continuously held the Taga Improvement Association cleanup activity for the Kawarago Swimming Beach (Hitachi City, Ibaraki Prefecture) for more than 40 years since 1965. Additionally, we hold environment classes for elementary and junior high school students, where participants study about global warming and our environmentally conscious products.



Environmental education as part of social contribution activities (in Taiwan)



Cleanup activities around the works



Factory tours for students from neighboring elementary schools

Participation in Exhibitions

In FY2008, Hitachi Appliances, as a Hitachi Group company, participated in the following exhibitions, and showcased its commitment to the environment.

Eco Products 2008 (December 2008)



Location: Tokyo Big Sight

Eco Products International Fair 2009 (March 2009)



Location: SMX Convention Center, Manila, Philippines

ENEX2009 (February 2009)



Location: Tokyo Big Sight

www.hitachi-ap.co.jp/company/environment/kankyo/communication/exhibition.html

Awards Received

The energy saving performance and environmentally conscious designs of Hitachi Appliances' products have been highly praised.

Award name	Award-winning product	Month and year of award
Energy Conservation Grand Prize for Excellent Energy Conservation Equipment	Minister of Economy, Trade and Industry Award	Front Loading washer-dryer Heat Recycling Kaze-Iron Big Drum BD-V3100 and BD-V2100
Minister of Environment Award for Activities to Prevent Global Warming	Technology development and commercialization category	Packaged air conditioner for business use "Knows No Cold"
Award for Power Load Leveling Equipment and Systems	The Heat Pump & Thermal Storage Technology Center of Japan Promotion Award	Hybrid Gas-Eco

Energy Conservation Grand Prize for Excellent Energy Conservation Equipment (Sponsor: Ministry of Economy, Trade and Industry, Organizer: The Energy Conservation Center, Japan) Honors equipment and systems for living (including parts and materials) with excellent energy saving performance.
 Minister of Environment Award for Activities to Prevent Global Warming (Sponsor: Ministry of the Environment) Presented every year to an individual or organization which displays considerable achievement in global warming prevention, as part of activities to promote global warming countermeasures.
 Award for Power Load Leveling Equipment and Systems (Sponsor: The Heat Pump & Thermal Storage Technology Center of Japan) Presented to a company that has greatly contributed to countering global warming issues through the development and diffusion of excellent power load leveling equipment and systems.

www.hitachi-ap.co.jp/company/environment/kankyo/communication/commendation.html (Only in Japanese)



Introduction to the Works (As of April 2009)

★Date environment ISO14001 certification acquired

Head Office, Takeshiba Office	
Head Office (Home Appliance Group)	Hitachi Atago Bldg., 15-12, Nishi Shimbashi 2-chome, Minato-ku, Tokyo 105-8410 Japan TEL: 81-3-3502-2111
Takeshiba Office (Air Conditioning System Group)	New Pier Takeshiba South Tower, 16-1, Kaigan 1-chome, Minato-ku, Tokyo 105-0022 Japan TEL: 81-3-6403-4555

Overseas Affiliated Sales and Service Companies	
Hitachi America, Ltd. (Industrial Systems Division)	50 Prospect Avenue, Tarrytown, NY 10591, U.S.A TEL: 1-914-631-0600 FAX: 1-914-631-3672
Hitachi Europe, Ltd.	Whitebrook Park, Lower Cookham Road, Maidenhead, Berkshire SL6 8YA, United Kingdom TEL: 44-1628-585000 FAX: 44-1628-778322

Hitachi Europe GmbH (Air Conditioning Division)	Am Seestern 18, Postfach 11 05 36, D-40547 Düsseldorf, Germany TEL: 49-211-5283-000 FAX: 49-211-5283-669
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Hitachi Europe S.A.S. (Air Conditioning and Refrigeration Systems Group)	18 rue Grange Dame Rose, 78148 Vélizy CEDEX, France TEL: 33-1-34630535 FAX: 33-1-34653431
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Hitachi Europe S.r.l.	Via T.Gulli, 39, 20147 Milano, Italy TEL: 39-02-487861 FAX: 39-02-48786381/39-02-48786382
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Hitachi Europe S.A.	Gran Via Carlos III, 86, Planta5, Edificios Trade-Torre Este, 08028 Barcelona Spain TEL: 34-93-4092550 FAX: 34-93-4901863
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Hitachi Europe S.A.	364 Kifissias & 1 Delfon Str., 152 33 Chalandri Greece TEL: 30-1-6837200 FAX: 30-1-6835694
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Hitachi Asia, Ltd.	16 Collyer Quay, #20-00, Hitachi Tower, Singapore 049318 TEL: 65-538-6511 FAX: 65-538-9011
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Hitachi Home Electronics Asia (S) Pte Ltd.	438A Alexandra Road #01-01/02/03, Alexandra Technopark, Singapore 119967 TEL: 65-6536-2520 FAX: 65-6536-2521
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Hitachi Sales (Malaysia) Sdn. Bhd.	Lot 12, Jalan Kemajuan, Bangi Industrial Estate, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia TEL: 60-3-8926-4168 FAX: 60-3-8926-3013
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Hitachi Sales (Thailand), Ltd.	994, Soi Thonglor Sukhumvit 55 Rd., Klongtonnua, Vadhana, Bangkok, 10110, Thailand TEL: 66-2-381-8381-98 FAX: 66-2-381-9520
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PT. Hitachi Modern Sales Indonesia	Wisma Sijpi 12th Floor, Jl. Let. Jend. S. Parman Kav. 12, Jakarta 11480, Indonesia TEL: 62-21-5307211 FAX: 62-21-5481883
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Hitachi Asia, Ltd. (Ha Noi Office)	6th Floor Sun Red River Bldg. 23, Phan Chu, Trinh Street, Hoan Kiem District, Ha Noi, Vietnam TEL: 84-4-9333123 FAX: 84-4-9333125
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Hitachi Asia Ltd. (Ho Chi Minh City Office)	8th Floor The Landmark, 5B Ton Duc Thang Street, Dist. 1, Ho Chi Minh City, Vietnam TEL: 84-8-8299-725 FAX: 84-8-8299-729
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Hitachi Home & Life Solutions (India), Ltd.	Hitachi Complex, Karan Nagar, Kadi, Dist. Mehsana - 382727 Gujarat, India TEL: 91-02764-277571 FAX: 91-02764-233425
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Hitachi Air-conditioning Systems (Hong Kong) Co., Ltd.	Room 702-3, 7/F, Wharf T & T Centre, Harbour City, Canton Road, Tsimshatsui, Kowloon, Hong Kong, China TEL: 852-3620-2138 FAX: 852-2737-2292
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Shanghai Hitachi Household Appliances Co., Ltd.	29F Tower B, City Center of Shanghai, 100 Zunyi Road, Shanghai 200051, China TEL: 86-21-5178-2188 FAX: 86-21-5178-2100
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Hitachi (China), Ltd.	18/F., Beijing Fortune Bldg., 5 Dong San Huan Bei-Lu, Chao Yang District, Beijing 100004, China TEL: 86-10-6590-8111 FAX: 86-10-6590-8110
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Hitachi Sales Corporation of Taiwan	2nd.Floor, No.65, Nanking East Road, Section 3, Taipei, 104 Taiwan TEL: 886-2-2516-0500 FAX: 886-2-2516-0512
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Hitachi (Hong Kong), Ltd.	18/F, Ever Gain Centre, 28 On Muk Street, Shatin, N.T., Hong Kong, China TEL: 852-2113-8883 FAX: 852-2783-8535
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Hitachi Australia, Ltd.	Level 3, 82 Waterloo Road, North Ryde, N.S.W. 2113, Australia TEL: 61-2-9888-4100 FAX: 61-2-9888-4188
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000 Hitachi Home Electronics (RUS)	4th Floor (Right), bld. 2, 23, Trubnaya str., Moscow, 127051 Russia TEL: 7-495-789-8460 FAX: 7-495-789-8461
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Hitachi, Ltd., Gulf Office	SC-05, Near R/A 12, Jebel Ali Free Zone, P.O.Box 18008, Dubai, United Arab Emirates TEL: 971-4-8831183 FAX: 971-4-8831182
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Sales Divisions, Branches, and Marketing Offices (Air Conditioning System Group)

International Operation Division	New Pier Takeshiba South Tower, 16-1, Kaigan 1-chome, Minato-ku, Tokyo 105-0022 Japan TEL: 81-3-6403-4541
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Hokkaido Marketing Branch	Oda Bldg., 10-1, Kita Kujo Nishi 3-chome, Kita-ku, Sapporo City, Hokkaido 060-0809 Japan TEL: 81-11-717-5301
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Kitanihon Branch Office	Ookiaoba Bldg., 9-7, Futsuka-machi, Aoba-ku, Sendai City, Miyagi 980-0802 Japan TEL: 81-22-266-1321
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Fukushima Marketing Branch	5-15, Midori-machi, Koriyama City, Fukushima 963-8023 Japan TEL: 81-24-921-5550
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Kanto Branch Office	New Pier Takeshiba South Tower, 16-1, Kaigan 1-chome, Minato-ku, Tokyo 105-0022 Japan TEL: 81-3-6403-4510
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Large Tonnage Chiller Sales Division	New Pier Takeshiba South Tower, 16-1, Kaigan 1-chome, Minato-ku, Tokyo 105-0022 Japan TEL: 81-3-6403-4500
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Hokuriku Branch Office	627-3, Kurosaki, Toyama City, Toyama 939-8214 Japan TEL: 81-76-429-4051
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Chubu Branch Office	Sakae Center Bldg., 13-20, Sakae 3-chome, Naka-ku, Nagoya City, Aichi 460-0008 Japan TEL: 81-52-251-0371
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Kansai Branch Office	OX-Nishihonmachi Bldg., 10-10, Nishihonmachi 1-chome, Nishi-ku, Osaka City, Osaka 550-0005 Japan TEL: 81-6-6531-9111
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Chushikoku Branch Office	Sonpo Japan Hiroshima Otemachi Bldg., 2-31, Otemachi 3-chome, Naka-ku, Hiroshima City, Hiroshima 730-0051 Japan TEL: 81-82-240-6151
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Shikoku Marketing Branch	Hanazono Bldg., 1-5, Hanazonocho 1-chome, Takamatsu City, Kagawa 760-0072 Japan TEL: 81-87-833-8701
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Kyushu Branch Office	9-17, Shimizu 4-chome, Minami-ku, Fukuoka City, Fukuoka 815-0031 Japan TEL: 81-92-561-4851
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Air Conditioning System Division	OX-Nishihonmachi Bldg., 10-10, Nishihonmachi 1-chome, Nishi-ku, Osaka City, Osaka 550-0005 Japan TEL: 81-6-6531-9113
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Technical Training Centers

Technical Training Center (Shimizu)	390, Muramatsu, Shimizu-ku, Shizuoka City, Shizuoka 424-0926 Japan TEL: 81-54-335-4320
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Technical Training Center (Kyushu)	9-17, Shimizu 4-chome, Minami-ku, Fukuoka City, Fukuoka 815-0031 Japan TEL: 81-92-561-4854
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Service Technical Training Center (Tochigi)	800, Tomita, Ohira-machi, Shimotsuga-gun, Tochigi 329-4493 Japan TEL: 81-282-43-1122
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Technical Support Center	Tel. 0120-578-011 (available only in Japan)
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Air Conditioning Repair Call Center	Tel. 0120-649-020 (available only in Japan)
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Affiliated Sales and Service Companies

Hitachi Air Conditioning Kanto, Ltd.	29-8, Toyotama- Kita 5-chome, Nerima-ku, Tokyo 176-0012 Japan TEL: 81-3-5999-1121
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Niigata Hitachi Co., Ltd.	752-10, Takeooroshishinmachi, Higashi-ku, Niigata City, Niigata 950-0867 Japan TEL: 81-25-273-2211
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Hitachi Kucho Kansai K.K.	Osaka HU Bldg. 6F, 2-5 Tokiwa-machi 2-chome, Chuo-ku, Osaka City, Osaka 540-0028 Japan TEL: 81-6-4792-2501
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Kyushu Hitachi Kucho K.K.	25-29, Naka 6 chome, Hakata-ku, Fukuoka City, Fukuoka 812-0893 Japan TEL: 81-92-502-2290
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Kanagawa Hitachi Air Conditioning Co., Ltd.	35-12, Matsugaoka Bldg., Kanagawa-ku, Yokohama City, Kanagawa 221-0843 Japan TEL: 81-45-322-6621
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Shizuoka Hitachi Reinetso Co., Ltd.	5-35, Kuniyoshida 2-chome, Suruga-ku, Shizuoka City, Shizuoka 422-8004 Japan TEL: 81-54-264-7177
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Hitachi Kucho Techno Service K.K.	29-17, Toyo 5-chome, Koto-ku, Tokyo 135-0016 Japan TEL: 81-3-3649-6177
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Hitachi Consumer Marketing, Inc. (Home Appliance Group)

Head Office	Hitachi Atago Bldg., 15-12, Nishi Shimbashi 2-chome, Minato-ku, Tokyo 105-8413 Japan TEL: 81-3-3502-2111
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Hokkaido Branch Office	1-10, Higashi Sapporo Niijo 4-chome, Shiraishi-ku, Sapporo City, Hokkaido 003-0002 Japan TEL: 81-11-833-1600
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Tohoku Branch Office	1-45, Ougi-machi 1-chome, Miyagino-ku, Sendai City, Miyagi 983-0034 Japan TEL: 81-22-782-1211
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Kanto Branch Office	Hitachi Kaden Ueno Bldg., 7-5, Higashi Ueno 2-chome, Taitou-ku, Tokyo 110-8641 Japan TEL: 81-3-3834-8511
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Tokyo Branch Office	Hitachi Kaden Ueno Bldg., 7-5, Higashi Ueno 2-chome, Taitou-ku, Tokyo 110-8641 Japan TEL: 81-3-3834-8111
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Chubu Branch Office	Daiichi Fuji Bldg., 35-16, Daikan-Cho, Higashi-ku, Nagoya City, Aichi 461-0002 Japan TEL: 81-52-932-5701
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Kansai Branch Office	Edobori Fukoku Seimee Bldg., 6-33, Edobori 2-chome, Nishi-ku, Osaka City 550-0002 Japan TEL: 81-6-6448-5200
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Chushikoku Branch Office	7-17, Kan'onshinmachi 1-chome, Nishi-ku, Hiroshima City, Hiroshima 733-0036 Japan TEL: 81-82-235-3711
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Kyushu Branch Office	Hakata Watanabe Bldg., 7-18, Ten'ya-machi, Hakata-ku, Fukuoka City Fukuoka 812-0025 Japan TEL: 81-92-291-9131
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Home Appliance Product Customer Support Center	Tel. 0120-3121-11 (available only in Japan)
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Home Appliance Business Information Center	Tel. 0120-3121-19 (available only in Japan)
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Hitachi Home Appliance Echo Center	Tel. 0120-3121-68 (available only in Japan)
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Factories in Japan

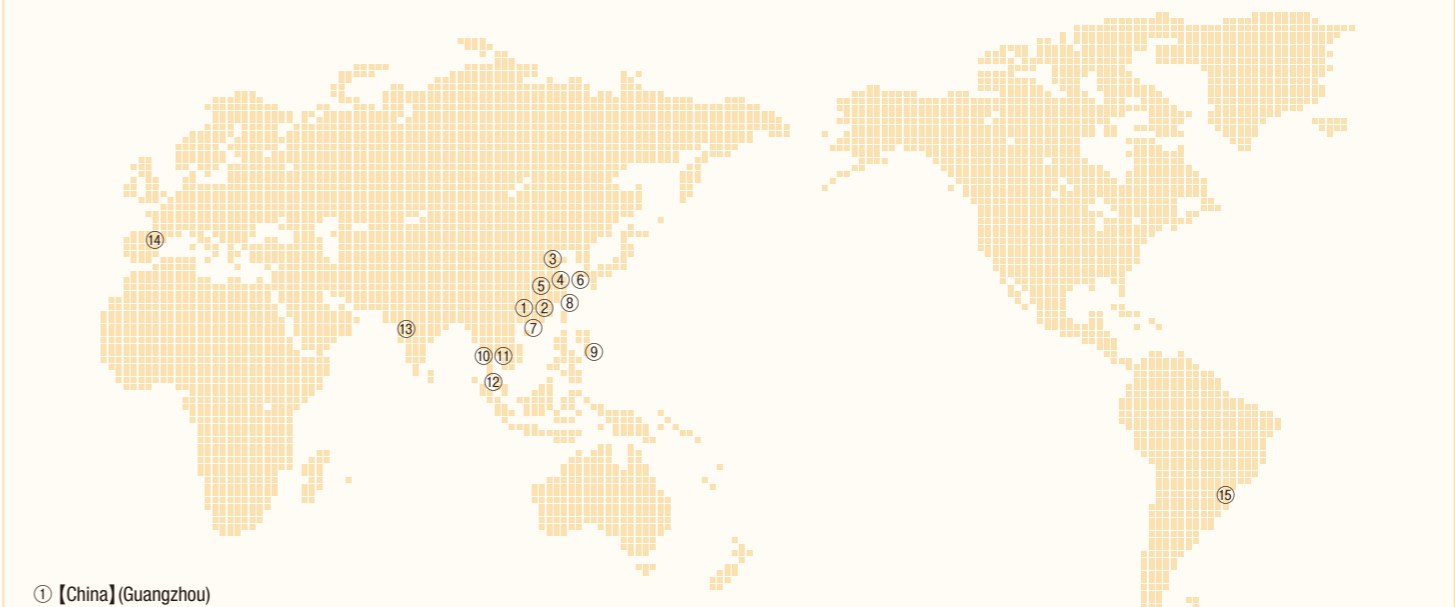
Tochigi Works (Tochigi Air Conditioning Works) (Tochigi Home Appliance Works)	800, Tomita, Ohira-machi, Shimotsuga-gun, Tochigi 329-4493 Japan TEL: 81-282-43-1122 ★January 29, 1997
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Taga Works (Taga Home Appliance Works)	1-1, Higashitaga-cho 1-chome, Hitachi City, Ibaraki 316-8502 Japan TEL: 81-294-34-1111 ★July 22, 1996
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Shimizu Works (Shimizu Air Conditioning Works) (Water Heater Division)	390, Muramatsu, Shimizu-ku, Shizuoka City, Shizuoka 424-0926 Japan TEL: 81-54-334-2081 ★October 28, 1997
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Tsuchiura Works (Tsuchiura Air Conditioning Works)	603, Kandatsu-machi, Tsuchiura City, Ibaraki 300-0013 Japan TEL: 81-29-832-5840 ★March 25, 1997
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Overseas Factories, etc.



- ① **【China】(Guangzhou)**
Hitachi Air-conditioning & Refrigerating Products (Guangzhou) Co., Ltd.
Chiller units, Absorption and centrifugal chillers, Packaged air conditioning system
★ June 28, 2004
- ② **【China】(Guangzhou)**
Hitachi Compressor Products (Guangzhou) Co., Ltd.
Scroll compressors ★ April 30, 2006
- ③ **【China】(Qingdao)**
Qingdao Hisense Hitachi Air-conditioning Systems Co., Ltd.
Packaged air conditioning system ★ December 19, 2005
- ④ **【China】(Shanghai)**
Shanghai Hitachi Household Appliances Co., Ltd.
Room air conditioners, Washing machines ★ November 23, 2000
- ⑤ **【China】(Wuhu)**
Hitachi Household Appliances (Wuhu) Co., Ltd.
Room air conditioners ★ October 10, 2003
- ⑥ **【China】(Shanghai)**
Hitachi Air-conditioning Systems (Shanghai) Co., Ltd.
Sales of air conditioning equipment
- ⑦ **【Hong Kong】**
Hitachi Air-conditioning Systems (Hong Kong) Co., Ltd.
Sales of air conditioning equipment
- ⑧ **【Taiwan】**
Taiwan Hitachi Co., Ltd.
Room air conditioners, Packaged air conditioning system, Refrigerators, Chiller unit
★ August 28, 1997

Affiliated Manufacturing Companies

Hitachi Reftechno, Inc.	709-2, Tomita, Ohira-machi, Shimotsuga-gun, Tochigi 329-4404 Japan TEL: 81-282-43-4111 ★January 29, 1997
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Hitachi-kucho SE, Ltd.	8-1, Shinmidori-cho, Shimizu-ku, Shizuoka City, Shizuoka 424-0927 Japan TEL: 81-54-334-2111 ★October 28, 2000
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Hitachi Taga Technology, Ltd.	1-1, Higashitaga-cho 1-chome, Hitachi City, Ibaraki 316-8502, Japan TEL: 81-294-33-2251 ★July 22, 1996
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Other Affiliated Companies

Kanto Eco Recycle Co., Ltd.	800, Tomita, Ohira-machi, Shimotsuga-gun, Tochigi 329-4493 Japan TEL: 81-282-43-1122 ★April 1, 2002
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Hitachi Softec Co., Ltd.	Hitachi Atago Bldg., 15-12, Nishi Shimbashi 2-chome, Minato-ku, Tokyo 105-0003 Japan TEL: 81-3-3506-1411
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- ⑨ **【Philippines】**
Hitachi Industrial Machinery Philippines Corp.
Absorption and centrifugal chillers
- ⑩ **【Thailand】**
Hitachi Consumer Products (Thailand), Ltd.
Washing machines, Refrigerators, Cleaner, Rice cooker, Pumps ★ December 20, 1999
- ⑪ **【Thailand】**
Hitachi Compressor (Thailand), Ltd.
Compressors ★ November 14, 1999
- ⑫ **【Malaysia】**
Hitachi Air Conditioning Products (Malaysia) Sdn. Bhd.
Room air conditioners, Scroll compressors ★ April 22, 1997
- ⑬ **【India】**
Hitachi Home & Life Solutions (India) Ltd.
Room air conditioners, Packaged air conditioning system ★ February 14, 2006
- ⑭ **【Spain】(Barcelona)**
Hitachi Air Conditioning Products Europe, S.A.
Packaged air conditioning system, Chiller units ★ May 4, 1999
- ⑮ **【Brazil】(Sao Paulo)**
Hitachi Air Conditioning Products Brazil, Ltd.
Packaged air conditioning system, Chiller units