



Address	1000-2, Okamoto-cho, Kusatsu-shi, Shiga 525-8526, Japan	
Site area	Approx. 255,838m ²	
Completed	November 1970	
Employees	1,347 (As of March, 2020)	
Main products	Residential air conditioners (room air conditioners, other)	
ISO 14001 certified	December 1996	
Latest ISO 14001 update	March 24, 2019	

■ Shiga Plant Certified as Stage 2 Gold Rank Green Heart Factory

In 2019, the Shiga Plant received Stage 2 Gold Rank. This was the result of all employees making that all important extra effort and working together to systematically reduce environmental impact while strengthening relations with society.



Stage 2 Green Heart Factory:

Since fiscal 2005, the Daikin Group has established a certification system based on its original standards, which evaluate environmental and social attributes for environmentally advanced factories. In fiscal 2017, the standards were revised (Stage 2) in order to promote higher level initiatives.

In addition to the existing seven standards including environmental impact reduction, such as reducing CO₂ emissions, and involvement with the community, a four-stage certification ranking was established (out of 200 points: bronze for 150 points and above, silver for 170 and above, gold for 190 points and above, and platinum for 195 points and above). These rankings involve additional evaluations on the rollout of systems or initiatives that involve all employees; thereby assessing whether environmental activities are conducted on an organization-wide level.



■ Products Developed and Manufactured at Shiga Plant

The factory develops and manufactures mainly air conditioning-related products for residential use.

- Urusara X residential air conditioner



- Streamer air purifier



- Ururu Sarara air purifier



- High-efficiency water heater using heat-pump technology



- DESICA HOME AIR, which controls humidity and ventilation throughout the entire house



Energy Saving

■ Improving Line Productivity

The Shiga Plant aims to effectively eliminate its greenhouse gas emissions by increasing productivity and as a result reducing energy usage from the manufacture of residential air conditioners.



■ Developing Innovative Equipment

On the production lines, employees built a transport and separation device for parts that uses the force of gravity and thus requires no electricity.



■ **Coating Effectively Reflects Sun**

The Shiga Plant put Daikin's ZEFFLE infrared reflective coating on the roof, resulting in lower temperatures inside the building and less of an air conditioning burden.



■ **Installing LED Lighting**

Conventional lighting in the offices and the plant is being replaced with highly energy efficient LED lighting in order to reduce electricity consumption.



■ **Energy Saving Patrol**

The factory workers take turns doing regular patrols of their workplace in order to find even the slightest waste of energy.



■ **Energy Management Using D-BIPS**

We constantly monitor energy usage and control electricity consumption in efforts to save energy in all company divisions.



Initiatives for Resource Recycling

■ Achieved Zero Waste Emissions

In August 2001, the Shiga Plant achieved zero emissions (recycling ratio of at least 99.5%).

■ Thorough Separation and Recycling of Waste

All unnecessary items are separated for recycling. And each workplace weighs the items and thinks of ways to prevent these waste items from being generated in the first place.



■ Reusing Protective Gear

Instead of discarding items used by line workers, such as wiping cloths and protective gloves, when possible the Shiga Plant cleans these to be used again.



■ Waste Material Press

Items such as cushioning material for packaging and plastic bags are placed in a press to remove the air and compact them so that they can be shipped more efficiently to the recycling plant. This also contributes to the stable recycling of materials.



■ Reusing Wooden Palettes

Logistics companies help us in reusing the wooden palettes used during international procurement. Palettes that cannot be reused are carbonized into charcoal that is used to deodorize the inside of the factory buildings.



Preventing Air and Water Pollution

■ Exhaust Gas Treatment Equipment

Treatment equipment was installed to purify the exhaust gas from the coating drying furnace. Its filter, which absorbs harmful substances, is activated charcoal made by carbonizing the wood from palettes remaining from logistics.



■ Water Treatment Facilities

All wastewater in the plant is channeled to a single location for purification. Daikin has stipulated an in-house standard value for plant wastewater that is stricter than legal limits. The plant works daily to ensure measurements for items such as COD and pH do not exceed in-house standard values.



■ Pond Functions as Dyke

A pond that provides a relaxing place for employees to take breaks also acts as a reservoir for all rainwater flowing from the Shiga Plant. If there is an oil spill in the plant, a measuring device at the pond gate sounds an alarm to warn employees in charge. To keep polluted water from flowing into public waterways, there is an emergency gate that can be closed at the pond's outlet.



The plant thus has secondary and tertiary prevention measures.

Preparing for Emergencies

■ Stockpiling Emergency Materials and Equipment

In case of emergencies such as earthquakes, fires, or oil spills, the Shiga Plant has emergency materials and equipment stored and ready for use.



■ Water Quality Monitoring Equipment

The quality of water in wastewater drains is constantly monitored using special equipment. Any irregularity detected sets off an alarm, and the staff in charge will rush to the scene to fix the problem.



■ Emergency Water Blockage Gate

An emergency gate at the pond's outlet is closed in case of a problem with plant wastewater. This prevents the wastewater from flowing into public waterways and thus keeps damage to a minimum.



■ Oil Fence Operation Drills

To be prepared in case oil gets into the plant's wastewater drains, drills are held in setting up an oil absorption mat in the pond.



■ Emergency Drills for the Kitchen

Once a year, the Shiga Plant and the kitchen outsource staff hold drills to be ready for any emergency that occurs during meal preparation.



■ **Emergency Drills for Oil Leaks**

Once a year, the plant prepares for leaks of oil or other substances on the road with drills in which soil and oil absorption mats are used to prevent these substances from getting into the street gutters.



■ **Joint Emergency Drills**

Once a year, the Shiga Plant joins regional environmental protection associations and government organs in drills that prepare for possible environmental emergencies.



■ **Joint Fire Drills**

The plant joins in annual fire drills held by the Shiga Prefectural government in which participants practice measures to take in unison with neighboring companies and government organs in case of disasters such as earthquake or fire.



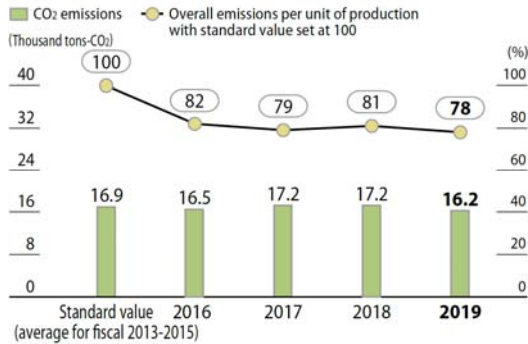
■ **Emergency Drills for Runoff into Rivers**

Once a year, drills are held with local government organs to prepare to deal with runoff of oil and other substances into rivers.

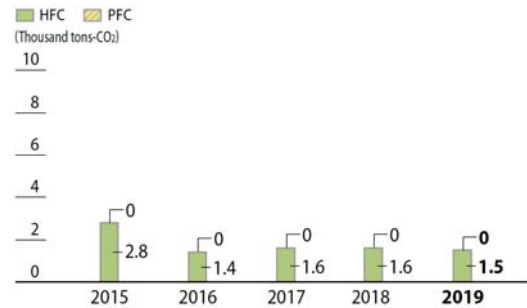


Environmental Performance Data

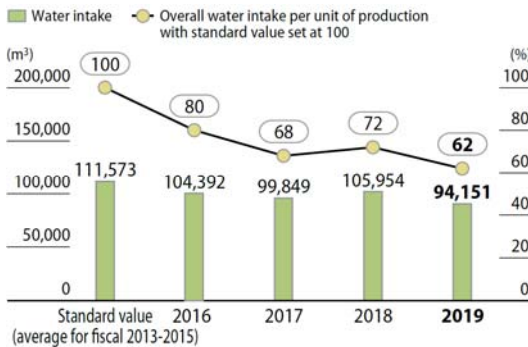
Total Energy-Induced CO₂ Emissions, CO₂ Emissions per Unit of Production



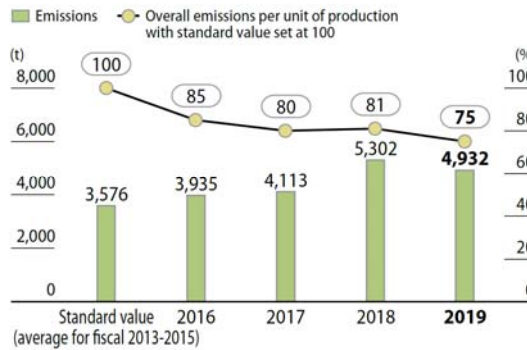
Greenhouse Gas Emissions Other than CO₂



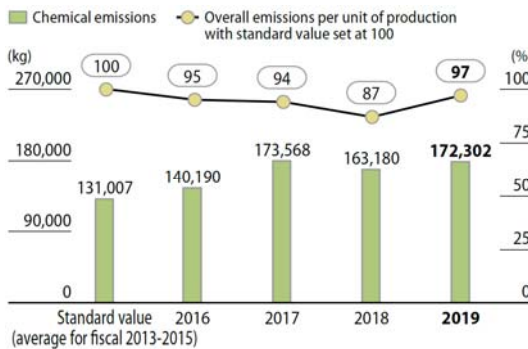
Water Intake/per Unit of Production



Emissions/per Unit of Production



Chemical Emissions/per Unit of Production (total of PRTR substances and VOCs)



Release and Transfer of Chemical Substances (PRTR) FY2019

Unit: kg					
Substance name	Amount emitted			Amount transported	
	Air	Public waterways	Soil	Waste	Sewage
Styrene	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	0.0	0.0	0.0

Exchange with Local Communities

■ Agreement Signed with Kusatsu City

In May 2010, the Shiga Plant signed an agreement with Kusatsu City in which the parties pledge to curb global warming.

Under the agreement, the two sides are cooperating on Kusatsu City's environmental protection activities and on the Shiga Plant's Sakura Eco Project (Current Green Heart subcommittee), under which a range of efforts in environmental contribution and local ecosystem protection are being conducted.

In March 2011, the Shiga Plant was recognized for its efforts under the Sakura Eco Project with an award from Kusatsu City for global warming prevention activities.



■ Factory Tours

Every year, local elementary school students are invited to tour the Shiga Plant.



■ Summer Festival

Every August, the Shiga Plant joins with the community as about 9,000 local residents and members of local government and other organizations come to a Noryosai Bon dance festival organized and run by employees.



■ Creating Local Ecosystems

The Shiga Plant has created the Daikin Shiga Forest on its premises and is striving to strengthen ties with the surrounding communities in creating better ecosystems for wildlife.



■ **Participation in Local Events**

The Shiga Plant helps raise environmental awareness among the local community by introducing its environmental protection efforts at a range of events. (Photo) Shiga Plant employees teach children at a Kusatsu City global warming awareness event.



■ **Cleanups of Local Streets**

Since 1993, employees have taken turns conducting cleanups of local streets three times a year. The Shiga Plant also takes part in a cleanup around Lake Biwa every July 1 sponsored by the prefectural government.



■ **Environmental Seminars**

Along with the environmental association of the cities of Konan and Koga, the Shiga Plant holds environmental seminars on its premises. Participants share successful case studies on dealing with environmental problems, recent developments in government laws and regulations, and environmental protection efforts.



Outside Honors

■ **Received the Highest Ranking 3-Star Certification under the Shiga Biodiversity Certification Program**

In March 2019, we received 3-star certification, the highest ranking under the Shiga Biodiversity Initiative Certification Program administered by Shiga Prefecture.

This three-stage program certifies businesses on their initiatives for biodiversity conservation and sustainable use of natural resources within their business activities following a checklist based on the number of initiatives. Continuing from previous years, we are promoting reduction in energy consumption and waste, as well as striving to conserve biodiversity through conserving the indigenous water resources of Lake Biwa.



■ **Award of Excellence in Ministry of the Environment's 3rd Environmental Employee Awareness Award**

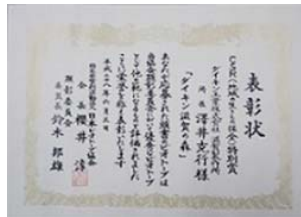
In May 2017, Daikin Industries, Ltd.'s Shiga Plant was recognized as a company that excels in fostering environmentally aware employees as it received an Award of Excellence in the Ministry of the Environment's 2016 Environmental Employee Awareness Award.



■ **Daikin Shiga Forest Wins Biotope Award**

In June 2016, the Daikin Shiga Forest inside the Shiga Plant received the Special CSR Award (Protection of Local Wildlife) in the 8th Biotope Awards sponsored by the Japan Biotope Association.

The Japan Biotope Association lauded Daikin for the project's clear concept, protection of fireflies on company premises, implementation of a strategy to protect wildlife and promote biodiversity, improved employee awareness, and a contribution to building a connection with local residents.



■ **Urusara 7 Wins Award of Excellence in Shiga Prefecture 1st Kaueco Grand Prix**

In February 2015, the Urusara 7 won the Award of Excellence in the 1st Kaueco Grand Prix, sponsored by the Shiga Green Purchasing Network. These awards are aimed at disseminating environmentally friendly products and services in Shiga Prefecture.



■ **Shiga Prefecture Low-Carbon Society Creation Awards**

In March 2013, the Daikin Shiga Plant was honored in the 2013 Shiga Prefecture Low-Carbon Society Creation Awards as a company contributing to the realization of a low-carbon society in Shiga Prefecture.

