

Environmental sustainability Management

Our company sets environmental practices in alignment with our sustainable business drive. We prioritize conducting business with environmental responsibility and have established environmental management guidelines to support Sustainable Development Goals (SDGs), particularly:

Goal 7: Affordable and Clean Energy

Goal 12: Responsible Consumption and Production

Goal 13: Climate Action

We emphasize reducing our environmental footprint through controlling, preventing, and mitigating the environmental impacts resulting from our business operations. This includes measures to reduce greenhouse gas emissions, waste, and pollution. Moreover, we aim to foster environmental business resilience by creating flexibility in our operations to adapt to environmental changes.

We integrate environmental practices throughout our production processes, inventory management, and product distribution, including through automated vending machines. Furthermore, we consider stakeholders across the value chain in our efforts towards environmental sustainability.

Environmental Management and Performance

1) Energy Management

Our company recognizes the importance of reducing energy consumption and maximizing energy efficiency. We are currently considering setting targets for energy reduction from baseline years and raising awareness among stakeholders about energy conservation. To achieve sustainable energy management, we implement various measures, including:

Improving energy efficiency / reducing energy consumption in vending machines.

We are committed to becoming leaders in enhancing energy efficiency in vending machines. Currently, we represent TCN brand vending machines, renowned for their high-quality and energy-saving features. These machines utilize compressors with low energy consumption compared to traditional cooling systems. Furthermore, the company has acquired new models of vending machines, which include top-of-the-line options sourced from various countries. These vending machines are distinguished by their exceptional energy-saving capabilities, particularly in the development of highly efficient cooling systems. This innovation enables them to consume less energy compared to other refrigeration systems.

Reducing Energy Consumption in Transportation:

We are aware of the high energy consumption in transportation activities and have strategies to reduce it, such as developing smart systems for sales data and cargo loading information to optimize warehouse and logistics management. Additionally, we are promoting the practice of parts rotation for repairs at branches to minimize the need for transportation back to the factory, thereby reducing energy consumption.

Efficient Energy Use in Office Buildings

The company also recognizes opportunities for reducing energy consumption within the organization through a project aimed at conserving electricity used in lighting systems. This involves

switching from fluorescent to LED bulbs and promoting energy conservation activities, such as setting specific times for turning off lighting systems during employees' midday breaks. Additionally, the company is currently implementing various energy-saving technologies – Smart Building – to ensure more efficient energy usage within office buildings. Notable examples of these projects include the installation of highly efficient air conditioning systems with automated controls, the deployment of UV radiation-blocking film to reduce heat infiltration into the building, and the integration of solar-powered electricity systems for use with internal lighting systems. Furthermore, the company plans to install additional solar-powered electricity systems in the future to sustainably and permanently reduce electricity consumption.

The company is dedicated to reducing energy consumption in its automatic vending machine manufacturing plant, aiming to reduce energy usage while continuously improving energy efficiency. This is being pursued through the development of a comprehensive energy analysis system, covering the entire production process from start to finish. Additionally, the company is actively seeking opportunities to enhance its energy usage by considering the installation of new, more efficient equipment and studying the feasibility of technology changes in the production process.

Reduction of energy usage in the vending machine manufacturing plant.

The company is committed to reducing energy usage while simultaneously increasing energy efficiency continuously. This commitment involves developing an energy analysis system that covers the entire production process from start to finish and actively seeking opportunities to improve the company's energy usage. This includes considering the installation of new, more efficient equipment and studying the feasibility of technology changes in the production process.

Increased Use of Alternative Energy Sources

To support clean and environmentally friendly energy usage, we have installed solar power systems in our factories and main office buildings. We plan to extend this initiative to all branches.

2) Water Management

Our company does not utilize water resources in the production process. However, we recognize the significance of water resources in our business operations and aim to utilize them efficiently.

3) Waste, Hazardous Waste, and Pollution Management

We prioritize continuous management of industrial waste and adhere to the principles of resource efficiency, namely Reduce, Reuse, and Recycle (3R). Our practices include:

Reducing waste from automated vending machines

We focus on refurbishing and reusing electronic components from vending machines, extending their lifespan and efficiency. Our technicians are trained to troubleshoot and repair machines onsite, minimizing the need for transportation back to factories.

Industrial Waste Management

For non-recyclable industrial waste, we engage specialized service providers to ensure proper disposal according to environmental regulations.

Air Pollution Management

The company places great importance on strictly controlling air pollution in accordance with the law to support the principles of occupational health and safety and environmental protection in the

workplace, as well as to reduce environmental impact. The company is aware of the pollutants that may arise from its production processes, such as chemicals from spray painting and automatic product distribution.

Therefore, the company has established practices for controlling and monitoring air pollution annually, following the standards set by the Department of Labor Protection and Welfare. The company conducted its annual air pollution monitoring, focusing on chemicals that may arise from spray painting and automatic product distribution processes. The monitoring was divided into two types:

1. On-site inspections, including six items: toluene, benzene, toluene, xylene, total dust, and fine particulate matter.
2. Emissions monitoring from external sources, including four items: total dust, styrene, acetate, and propylene glycol.

All monitoring results were within control limits and passed the standard criteria. Additionally, no complaints regarding air pollution were found.

4) Greenhouse Gas Management

The company recognizes the importance of conducting business that supports a low-carbon society and is committed to reducing negative impacts that may affect climate change through various activities. This includes reducing greenhouse gas emissions by using environmentally friendly refrigerants in automatic product distribution machines and reducing energy consumption in business activities detail as follows:

Use of Refrigerants that Reduce the Impact on Global Warming

Refrigerants are considered greenhouse gases capable of trapping heat, with a Global Warming Potential (GWP) ranging from hundreds to thousands, depending on their potential to contribute to global warming. Therefore, selecting appropriate refrigeration technologies and refrigerants is crucial for reducing greenhouse gas emissions. Recognizing this importance, the company has started replacing refrigerants in automatic product dispensers from R-12 and R-22 to R-134a, with GWPs of 10,900, 1,810, and 1,430 respectively. Furthermore, the company has transitioned to using refrigerants R-600a and R-1234yf, with significantly lower GWPs of approximately 3 and <1, respectively, in order to increase the proportion of environmentally friendly refrigerants used in business operations. Additionally, the company has collaborated with partners to develop compressors using R-290 refrigerants, which have lower global warming potential and are economically viable and safe to use. These compressors were tested and are expected to significantly reduce greenhouse gas emissions.

Efficient Energy Use and Energy Reduction

In addition to reducing greenhouse gas emissions from refrigerants, the company focuses on energy efficiency and reducing energy consumption in automatic product distribution machines, transportation, and manufacturing facilities.