

## Energy Management

Currently, climate change issues are intensifying, leading to global warming and dangerous climate events such as droughts, storms, and floods. The use of electricity contributes to heat generation and impacts climate change, along with rising energy costs, particularly for electricity, which continuously increases energy expenses.

The company recognizes the importance of energy use and has set goals for energy management and electricity use. It is committed to maximizing efficiency through the use of effective tools and equipment while fostering employee awareness about conserving and efficiently using electricity. This aligns with the "Sustainable Development Goals" (SDGs), specifically Goal 7: Affordable and Clean Energy.

### Performance in Energy Management

The company has collected and recorded data on electricity consumption for production at the factory, warehouse, and headquarters to understand usage levels and set management targets, as outlined in the table below.

	FY 2021	FY 2022	FY 2023	FY 2024
Electricity Usage (Kwh)	2,452,983	2,360,398	2,193,361	2,348,349
Target	Base year	2,379,394	2,308,012	2,207,685
Actual Electricity Usage Vs Target	-	-0.8%	-5.0%	+6.4%

### Energy Saving Goals

In 2024, the company set a target to reduce electricity consumption by no less than 10.0% compared to the base year of 2021. Although the company successfully reduced electricity consumption by 4.3% from 2021, it fell short of the target by 6.4%.

For 2025-2027, the company remains committed to controlling electricity usage within the organization, with a goal of reducing consumption by at least 15% per year.

### Energy Saving Measures

The company prioritizes and promotes efficient energy use by implementing measures to reduce energy consumption continuously for factories, warehouses, and offices, as follows:

1. The company has been gradually replacing the existing 36 W fluorescent light bulbs in the factory with 14-18 W LED bulbs, which consume less electricity and have a longer lifespan. This initiative began in 2015 and has reduced electricity consumption by more than 50% compared to the old bulbs. In 2022, a total of 200 energy-saving bulbs were replaced. Additionally, from 2023 to 2024, the company is progressively upgrading the factory air conditioners to new, energy-efficient models with a 5-star energy rating.
2. The company has improved the efficiency of the compressed air system used in the production process and reduced air leaks, leading to energy savings. In 2024, the company replaced the air compressor with an Inverter-type compressor, which maintains a constant air pressure and saves 30-35% of electricity compared to the previous system.
3. In 2024, the company replaced industrial clutch motors with servo motors, which can control speed and torque without running continuously when the switch is on, unlike clutch motors that operate all the time when switched on, leading to energy wastage.

4. The company has replaced desktop computers with laptops, which consume less power—approximately 60-70 W compared to the 200-250 W of desktop computers. From 2022 to 2024, a total of 62 desktop computers have been replaced with laptops.
5. To reduce external electricity consumption, the company has implemented Solar Rooftop technology, starting with the headquarters building in June 2022. The installation covers the rooftops of Building A, Building B, Building C, Mc Design Center, and Mc Studio. Additionally, a Solar Rooftop system has been installed at the Mc Fulfillment Center warehouse, which began operation in the 2024 fiscal year.



6. The company has disseminated and promoted energy and water conservation projects in factories and offices to employees, aiming to instill a sense of awareness about efficient and valuable resource use. Various methods have been employed, including communication via Line, public announcements, and bulletin boards. Additionally, promotional materials such as stickers have been created and placed at usage points to campaign for turning off lights after use, unplugging devices, and switching off electrical appliances after use.

