

Let's Make an



The TICO Group formulates an environmental action plan every five years. All associates work together to achieve targets that include reducing CO₂ emissions. Environmental activities for the next five years have been set in motion with the announcement of the Seventh Environmental Action Plan in March 2021. This issue's special feature highlights the environmental activities TICO Group associates are carrying out around the world.

What is the Seventh Environmental Action Plan?

Seventh Environmental Action Plan

- ◇ An environmental action plan for the five years from FY2022 to FY2026
- ◇ The plan breaks down environmental activities into four categories

Carbon-Neutral Society

- Implement energy-saving activities and utilize clean energy
- Develop highly energy-efficient technologies and products

Recycling-Based Society

- Minimize resource use
- Develop products that make the most efficient use of resources

In Harmony with Nature and Reducing Environmental Risk

- Use more eco-friendly materials
- Contribute to the preservation of local biodiversity

Environmental Management

- Preventing environmental incidents
- Promoting proactive actions toward realizing the Global Environmental Commitment

Visit the TICO website to see more detailed numerical targets for each category!



TOPICS Carbon-Neutral Society

Reducing CO₂ emissions has been a central focus of TICO Group environmental activities. Here are two of the best practices: one carried out in Europe to achieve 100% renewable electricity use; the second implemented at the Takahama Plant in Japan to realize zero CO₂ emissions.

Achieving 100% Renewable Electricity Use in Europe

The TMHE^{*1} Group has completed converting entirely to renewable electricity (approximately 50 million kWh) used at all sites. The project started in 2014, and was gradually carried out by switching power contracts to wind and hydroelectric power, and installing solar panels on the rooftops of three plants. In regions where it is difficult to procure renewable electricity the group increased the renewable energy ratio by purchasing renewable energy certificates.^{*2}

The European Union has ambitious environmental regulations, seeking to reduce emissions 40% by 2030. As such, the group is proud to be the first in the European material handling industry to achieve 100% renewable electricity. The Sustainability Conference that TMHE promoted was initially a small conference with fewer than 10 participants, but has now grown to a group-wide network with over 50 participants. Looking ahead, more than 30 TMHE Group companies will work together to achieve zero CO₂ emissions from operations by fiscal 2030 through the use of renewable gas and extensive energy conservation activities.



From left: Francesca Simoncelli, TMHIT (Italy); Jiri Franz, TMHCZ (Czech Republic); and Joakim Söderberg, TMHE (Sweden)



Recognized with the highest Platinum rating given by EcoVadis, the world's most prestigious environmental rating entity



A biogas facility introduced at a plant in Sweden

^{*1} European headquarters for materials handling equipment production and sales
^{*2} Reducing CO₂ emissions through renewable energy via securitized market-based instruments that generate environmental value excluding electricity

Realizing a Zero CO₂ Emissions Production Line at the Takahama Plant



Front row (from left): Nobumitsu Horibe and Setsuji Toyoda
Back row (from left): Yukihiko Noguchi, Hirofumi Tokuno, and Kazuhiro Amano (all TICO)

The Takahama Plant has improved energy efficiency by advocating consistent energy-saving activities and upgrading to more energy-efficient equipment. This time, we installed solar panels that would enable all electricity required for the main assembly line at Factory 502 to be sourced from renewable energy. Solar panel installation requires expertise. Energy generation efficiency fluctuates drastically depending on panel installation, including the direction and angle of the panels as well as the shadows of surrounding buildings. Installation know-how was painstakingly accrued bearing in mind that successful installation would lead to deployment at other facilities.

The Takahama Plant already has multiple hydrogen-charging stations operating on solar power, with 38 fuel cell lift trucks in operation and efforts underway to

achieve zero CO₂ emissions at one of its buildings by 2030. Nevertheless, the key to carbon neutrality hinges more on heightened energy awareness among associates than on state-of-the-art environmental facilities and the introduction of renewable energy. Like safety, energy conservation requires constant mindfulness and curbing global warming requires proactive efforts by each and every associate.



Solar panels installed on the roof of the plant



H₂ PLAZA hydrogen station on the plant premises