

# E Environmental Activities

## Fundamental Stance on Environmental Activities

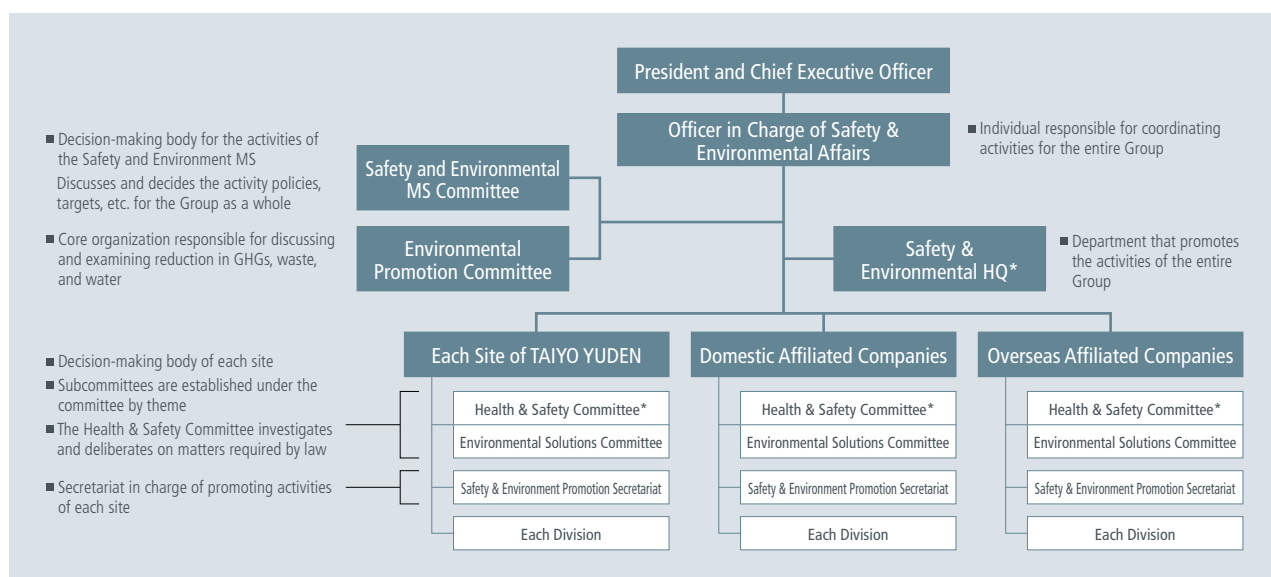
TAIYO YUDEN aims to be a corporate group that fulfills its corporate social responsibility and continues to develop in perpetuity. We recognize that tackling environmental issues represents one of the most important social responsibilities that the Group must uphold. As such, we are working to reduce our environmental impact from a global perspective

based on our Fundamental Principle of the Environment: "To hand over this precious Earth to the future generation, environmental burden in every business activity in research, development and design of the product, procurement of parts and materials manufacture, sales and associated services shall be reduced."

## Framework for Promoting Safety and Environmental Affairs

TAIYO YUDEN has established and operates a framework for promoting its Safety and Environmental Management system, the overall responsibility for which lies with the officer in charge of safety and environmental affairs appointed by the President and Chief Executive Officer. Safety and Environment MS

Committee, the Environment Promotion Committee debate and decide policies and issues to be addressed. Each manager of sites then converts his/her decisions into actual plans matching the characteristics of each site, and takes charge of publicizing, enforcing and promoting these concrete targets.



\* HQ stands for Headquarters.

\* The Health and Safety Committee elects company and worker representatives.

## ESG / Environmental Activities

### Medium-term Environmental Targets

TAIYO YUDEN set “strengthening responses to climate change” and “efficiently using resources and helping to build a recycling-based society” as materiality (key issues) related to environmental efforts. Especially for climate change, a global issue, we have set medium-term environmental targets to achieve carbon neutrality by 2050. To achieve these targets,

we will be diligent at saving, generating, and re-using the energy that drives our manufacturing based on the principle of decarbonization.

#### Achievement Levels for Medium-Term Environmental Targets

<https://www.yuden.co.jp/or/company/sustainability/environment/materiality/>

### Environmental Impact of Corporate Activities

The TAIYO YUDEN primarily produces electronic components for delivery to our customers, set manufacturers. When we analyzed the environmental impact in the life cycle of these electronic components, their impact during use was small and the bulk of the impact is caused during production. The main environmental impact arising during production can be cited as from energy and water consumption, emissions (including CO<sub>2</sub>) in the course of manufacture, waste, and wastewater.

The TAIYO YUDEN is striving to improve our environmental impact by first identifying and analyzing in detail this environmental impact and then taking such measures as minimizing the resources applied and conserving other energy and resources by improving production processes. The TAIYO YUDEN products are used in electrical and electronic equipment, automobiles, and other products which become waste once their product lifetime is over, so we are also striving to remove hazardous substances from these products.

## Environmental Contributions by Products

### Reducing the Environmental Impact During MLCC Production

TAIYO YUDEN's multilayer ceramic capacitors (MLCCs), our main products, are evolving, miniaturizing, and improving in performance day by day. Comparing MLCCs with the same capacitance (the amount of electricity which can be stored), which is the basic performance of capacitors, their volume has decreased by approximately 93% over the 13 years between the 0603 size (0.6mm × 0.3mm) put on the market in 2001 and the 0201 size (0.2mm × 0.1mm) put on the market in 2014. We have realized reductions in raw materials, packaging materials, and transportation energy by advancing miniaturization in this way. While advancing miniaturization, the capacitance per single MLCC increased

by approximately 1.9 times over the nine years from 2011 to 2020, so their performance has continued to improve at the same time as the miniaturization.

In addition to this evolution of the products themselves, “smart.E” productivity enhancement activities focus on the visualization of production sites to help discover abnormalities early on and prevent these from occurring in the first place. We are continuing initiatives to ensure that we can reduce energy-loss in production and reduce products disposition due to defection and thereby further reduce the environmental impact.

#### Comparison with a grain of rice

