

Use of sustainable resources

Background of setting the material issues

As the global population increases, pressing social issues such as resource depletion and increased waste have become more severe. Murata has set "use of sustainable resource" as a material issue in order to address these social issues and to contribute to cultural development by achieving the sustainable use of resources in its own business activities.

Our goal

Realize sustainable resource usage within Murata's business activities, and contribute to the development of culture through co-creation with partners.



In promoting the "use of sustainable resources," Murata has set the following targets for fiscal 2050: "rate of use of sustainable resources" for procured materials and "resource recycling rate" for waste, and is promoting efforts to achieve them.

Fiscal 2024 goals	<ul style="list-style-type: none"> Rate of use of sustainable resources: 1% improvement from fiscal 2021 results*3 Resource recycling rate: 5% improvement from fiscal 2021 results*3
Fiscal 2030 goals	<ul style="list-style-type: none"> Rate of use of sustainable resources: 25% Resource recycling rate: 50%
Fiscal 2050 goals	<ul style="list-style-type: none"> Rate of use of sustainable resources: 100% Resource recycling rate: 100%

*3: Actual figures for fiscal 2021 are currently being compiled

Rate of use of sustainable resources

We will conduct our business activities so that we can use resources sustainably in the future by using resources with lower risk of depletion, avoiding the use of resources that our customers prohibit or discourage the use of, and using recycled resources.

Resource recycling rate

Murata has been committed to zero emissions, emphasizing the elimination of landfill and working on measures such as material recycling and thermal recycling (heat recovery). Going forward, we will further address issues such as resource depletion and waste growth.

TOPICS Efforts to utilize recyclable resources

Murata has become the first company in the electronic component manufacturing industry to successfully create a closed-loop recycling system for polyethylene terephthalate (PET) film used in the manufacturing process of multilayer ceramic capacitors (MLCC).^{*4}

In the new recycling system, closed-loop recycling has been made possible by working with a partner company to take the PET film used in the dielectric sheet-forming process and convert it back into PET film to be used again for the same purpose. The recycling system has been introduced in stages, starting from May 2022.

Currently, the amount of recycled material in the PET film we use is around 25%. However, we will work on further improvement to create a PET film recycling scheme so that in the future we will be using 100% recycled PET film, which will contribute to the reduction of waste and CO₂ emissions.

*4: Until now, used PET film for MLCCs was thermal-recycled or downcycled (recycling with degradation). However, this is the first time that the closed-loop recycling of PET film for sheet forming in MLCCs, converting it back into PET film to be used again for the same purpose, has been attempted in the electronic component manufacturing industry. (As of May 2022, according to the company's study)

For more information on our efforts, please see here.
<https://corporate.murata.com/en-global/newsroom/news/company/csrtopic/2022/0616>

For more information on our activities regarding use of sustainable resources (including water resource management), please see here.
https://corporate.murata.com/en-global/csr/environment_murata/resource