

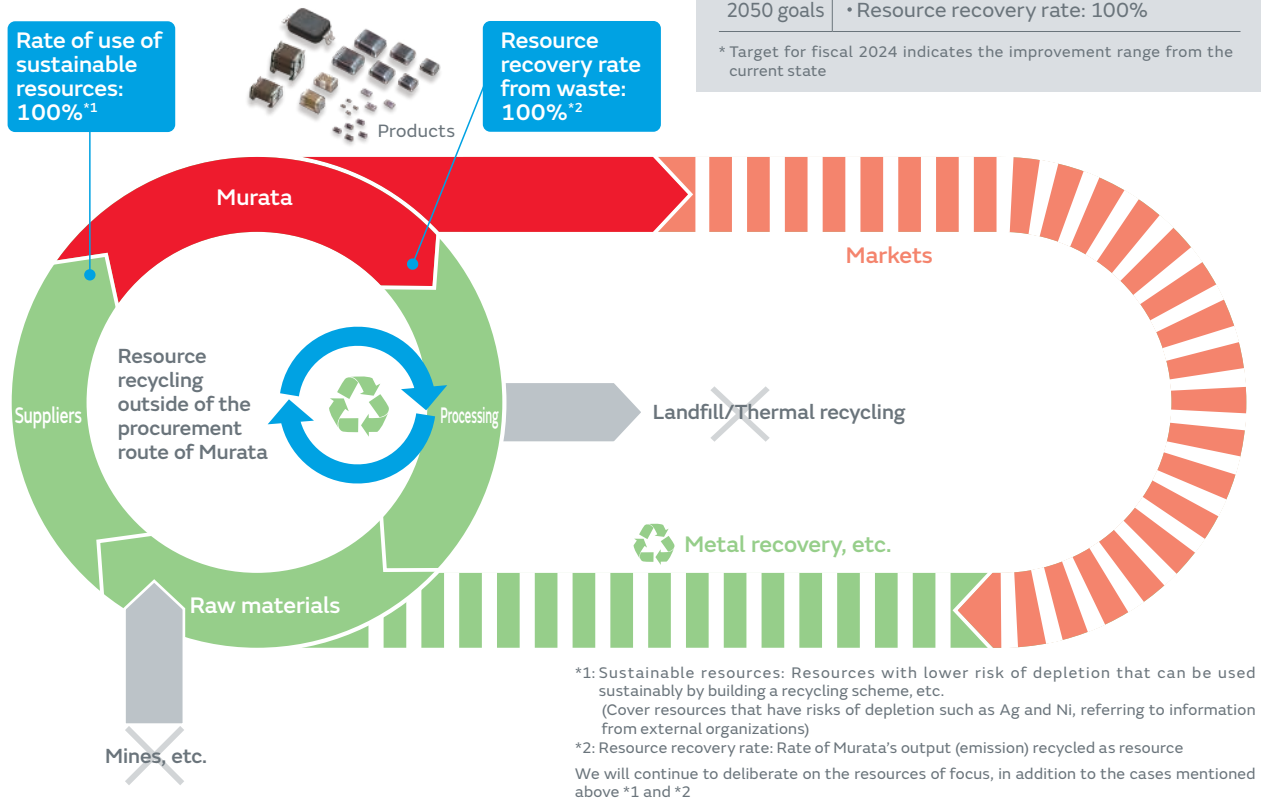
# Use of sustainable resources

**Background of setting the issue of materiality**

With the population growing around the world, issues such as depletion of resources and increased amount of waste are becoming more and more serious. Murata has set this key issue to tackle these problems while aiming for sustainable growth.

Our goal	
We will realize sustainable use of resources in our business activities, while contributing to cultural development through co-creation with collaborators.	
Fiscal 2024 goals*	• Rate of use of sustainable resources: 1% • Resource recovery rate: 5%
Fiscal 2030 goals	• Rate of use of sustainable resources: 25% • Resource recovery rate: 50%
Fiscal 2050 goals	• Rate of use of sustainable resources: 100% • Resource recovery rate: 100%

\* Target for fiscal 2024 indicates the improvement range from the current state



Murata's initiative towards realization of use of sustainable resources

## Waste management

Murata's waste management processes are based on "compliance," "control of the production of waste," and "zero emissions" as fundamental principles.

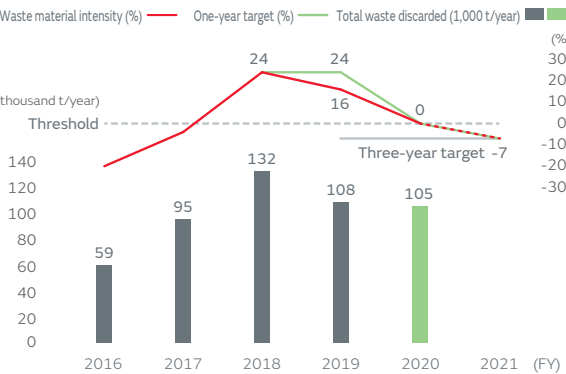
To help achieve the medium-term target for fiscal 2019 to 2021 of improving the amount of waste per production output by 7% from the fiscal 2016-2018 average, we worked in fiscal 2020 toward a single-year target of keeping the amount of waste no larger than the basic unit value for fiscal 2016 to fiscal 2018. We were able to achieve the target as a result of reduction measures taken, including revision of manufacturing methods for our products and the introduction of an in-house waste liquid processing facility.

We are also working to put resources to effective use by, for example, reusing or recycling some packaging materials.

Going forward, Murata endeavors to achieve the medium-term goal by improving manufacturing methods for further reduction in defect rates,

introducing certification systems which enable waste liquid processing among Murata Group companies and other measures.

### Changes in Total Waste Discarded and Production Ratio



## Water resource management

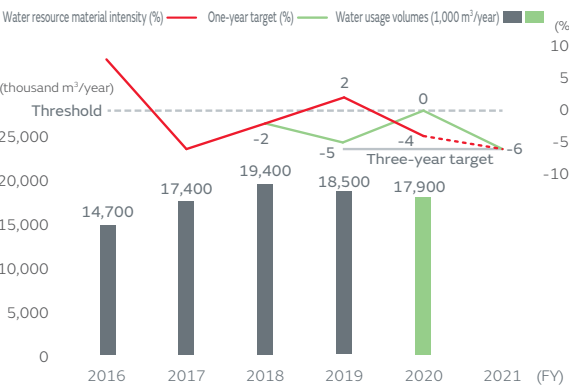
Murata is promoting effective use of water resources used in business activity. We take measures for water risk that can affect our corporate activity.

To help achieve the medium-term target of reducing water usage per production output by 6% from the fiscal 2016 fiscal 2018 average in fiscal 2021, we worked in fiscal 2020 toward a single-year target of keeping the amount of water usage no larger than the basic unit value for fiscal 2016 to fiscal 2018. We were able to achieve the target in fiscal 2020 by significantly improving the amount to be 4% less than the basic unit value for fiscal 2016 to fiscal 2018. Initiatives at each worksite, such as recycling of wastewater at Toyama Murata Manufacturing Co., Ltd. (Toyama Murata), contributed to the achievement.

In fiscal 2021, we plan to achieve the medium-term target by taking measures such as promoting

recycling of water and saving water used in scrubbers or other facilities.

### Trend for water use and comparative unit ratio of production



## Initiatives at Toyama Murata Manufacturing Co., Ltd.

Toyama Murata received a 2021 "Eco-Business" certificate from Toyama Prefecture.\* The certificate was awarded based on the initiatives that Toyama Murata has been taking, including reduction of CO<sub>2</sub> emissions and waste and recycling.

### Details of Toyama Murata's initiatives evaluated by Toyama Prefecture

#### <Three R's (reduce, reuse, recycle) of waste initiatives>

- Reduced waste by installing an in-house processing facility for alkaline waste liquid, which is its main waste liquid.
- Partially uses treated wastewater as pure water.
- Recycles ferric chloride waste liquid completely by our business partners through concentrated regeneration treatment.
- Keeps the amount of landfill waste to zero.

#### <Initiatives in business activities for the environment>

- Obtained ISO14001 certificate. Set environmental goals and taking actions in a planned manner.
- Using materials that do not contain RoHS regulated substances to manufacture more environmentally friendly products.
- Set the targets for energy and water consumption as environmental targets, and working on measures including the introduction of energy-efficient equipment for energy saving, replacement of indoor and outdoor lighting with LED, and wastewater recycling.

Aiming for a sustainable society, Toyama Murata will continue to implement environmentally friendly business management to protect the natural environment in the area, and to be a company that local communities can be proud of.

\* Toyama Prefecture's Eco-Business certification: Toyama Prefecture certifies businesses that have been engaged in reduction of waste, recycling, and other environmentally friendly business activities as "Eco-Business." (For Toyama Prefecture's website, please see: <https://www.pref.toyama.jp/1705/kurashi/kankyoushizen/haikibutsu/recycle1/company.html>)



Toyama Murata Manufacturing Co., Ltd.



Waste liquid processing facility at Toyama Murata