

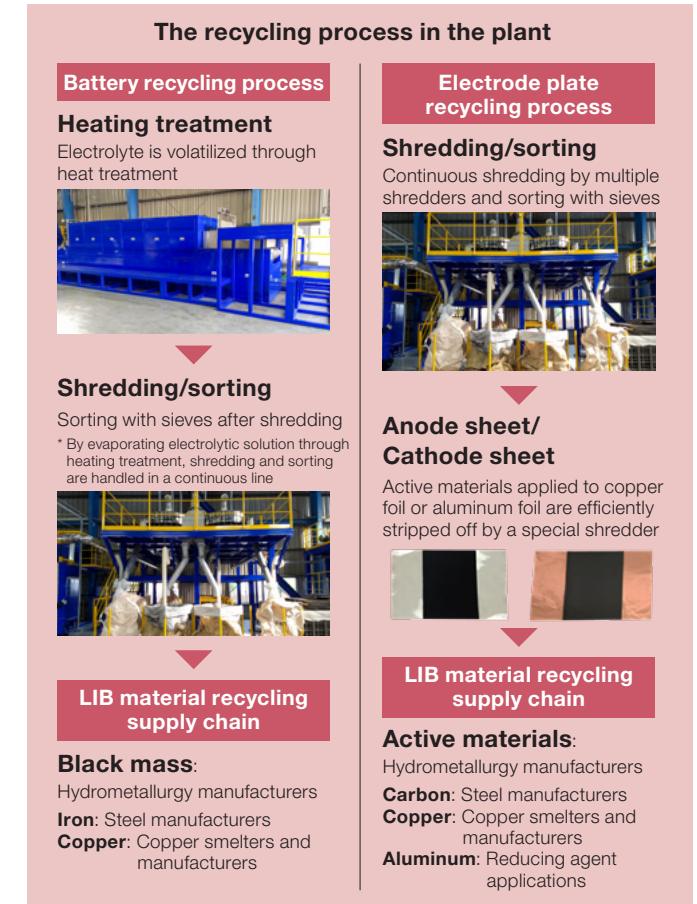
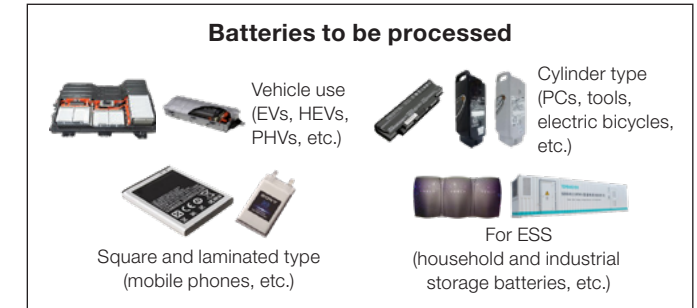
Lithium-ion Battery Recycling Business

VOLTA Establishment of a resource recycling flow for minor metals

Collecting and recycling nickel, cobalt, and other minor metals from lithium-ion batteries and other sources



▼ The lithium-ion battery recycling process



Main business activities of VOLTA Inc.

- 01

Collecting and recycling of minor metals from rechargeable batteries
- 02

Recycling of used casings (other than batteries)



Value & Vision

Demand for minor metals will grow as electric vehicles (EVs) become widespread. We are working toward recycling these at our RE100 plant to promote recycling of resources in Japan. We will become an indispensable presence in the battery industry and future society.

- 01

Strategic securing of minor metals

As demand for rechargeable batteries in electric vehicles grows, the demand for and the value of cobalt, nickel, and other mineral resources are expected to increase. VOLTA Inc. seeks to establish a domestic resource recycling flow and to strategically secure mineral resources.
- 02

Decarbonization process at RE100 plant

As we aim to achieve carbon neutrality by 2050, decarbonized processes are also needed in battery recycling and reproduction of resources. In April 2021, VOLTA achieved the use of 100% renewable energy sources in all processes except for transport vehicles.
- 03

Acquisition of certifications and permits to broaden business domains

In July 2020, VOLTA obtained a permit to "engage in the industrial waste disposal business", enabling the collection of more types of batteries. In February 2021, the company acquired certification under the "R2 Standard", a U.S. regulation that aims for responsible recycling processes. The company seeks to expand business opportunities by gaining an advantage in transactions with foreign-affiliated companies.

* Black mass/active materials: Cobalt/nickel concentrate sludge