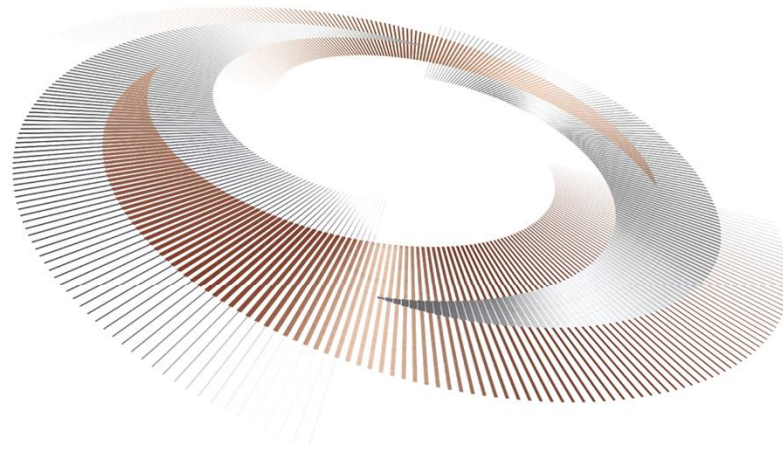


Resource recycling initiatives

July 17, 2024

Takashi WATANABE
Resource Circulation Division, Metals Company
MITSUBISHI MATERIALS CORPORATION



For people, society and the earth, circulating resources for a sustainable future

In order to make careful use of limited resources,
we will give new life to used products as new resources.

We will return these resources to society with new value added.

We will build a platform for this resource circulation and create value as an active player.

As we look to the future, we will make a strong contribution to the creation of a sustainable society,
and help to widen the scope of resource circulation.

Company Profile

- Business Outline
- Smelting, processing and sales of copper, gold, silver, etc.
 - Recycle of home appliance products and cars
 - Production and sales of advanced materials, chemical products and electronic components, etc.
 - Production and sales of cemented carbide products
 - Geothermal, hydroelectric, solar power, biogasification power generation

Date of Establishment 1950 (Originally Founded 1871)

Head Office 3-2-3, Marunouchi, Chiyoda-ku, Tokyo 100-8117 Japan

Chief Executive Officer Naoki Ono

Paid-in Capital 119.4 Billion yen (As of March 31, 2023)




Net sales Consolidated: 1,625.9 Billion yen (Fiscal Year Ended March 31, 2023)

Number of Employees Consolidated : 18,576;
Non-Consolidated : 5,450 (As of March 31, 2023)

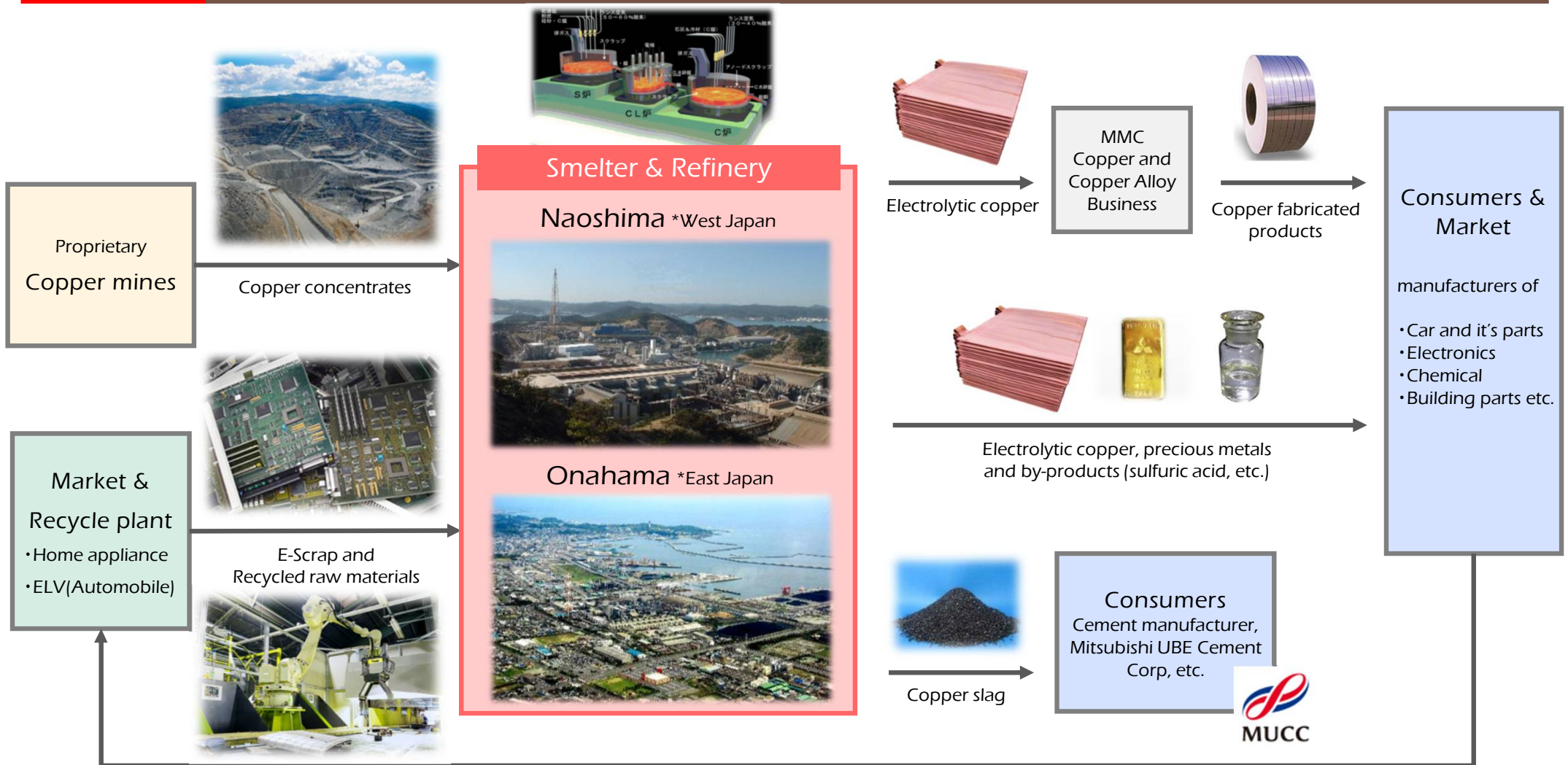
Corporate History Refer to the Mitsubishi Materials corporate site.
<https://www.mmc.co.jp/corporate/en/company/history/>



Metals Business

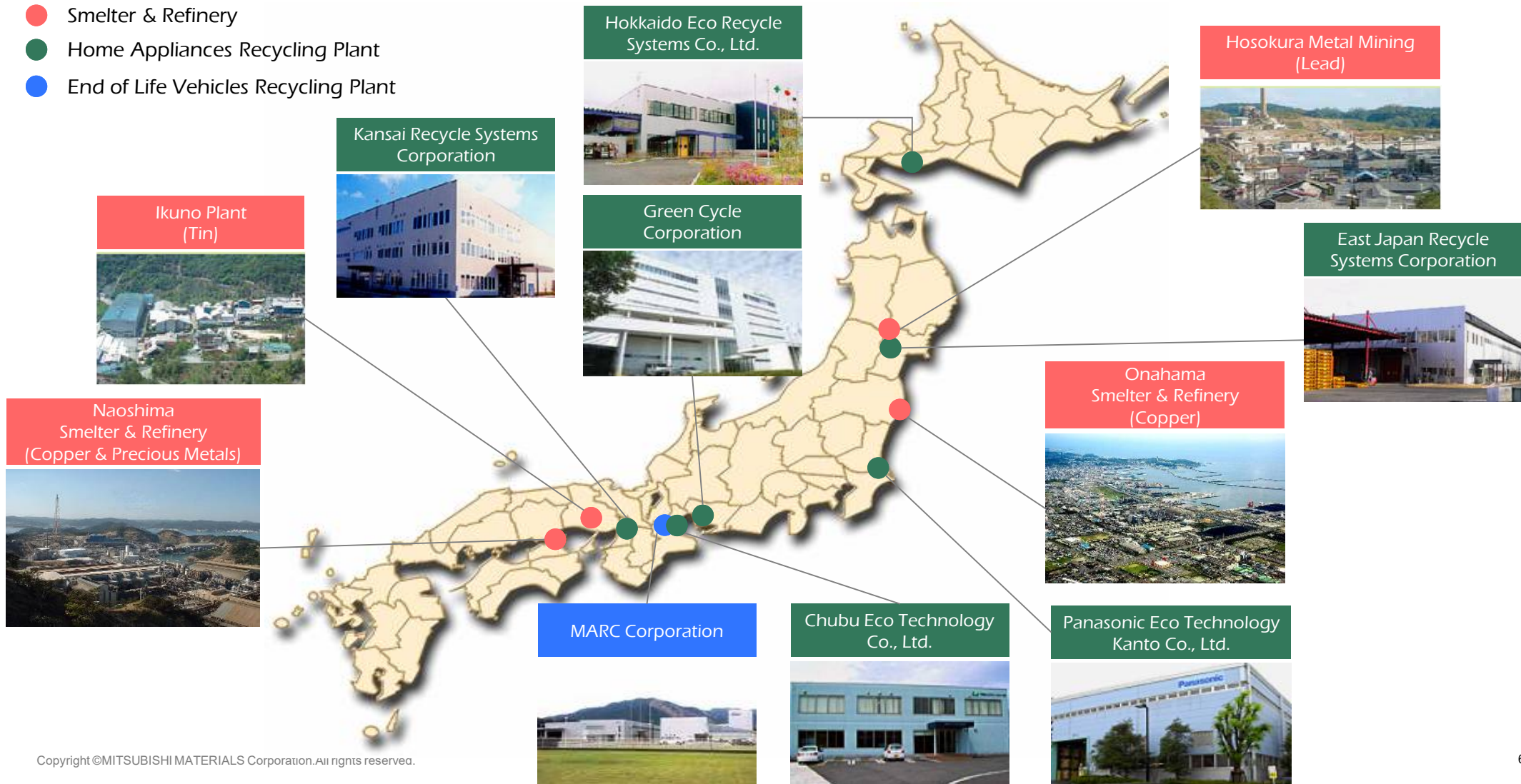
Segment	Overview	Strengths	Key Figures
Resources	 <p>Investing in overseas copper mines for stable procurement of clean copper concentrate</p>	<ul style="list-style-type: none"> • Many years of experience in domestic mining operations • Long-term amicable relations with mining companies 	<p><u>Shares in Copper Mine</u></p> <ul style="list-style-type: none"> - Escondida 1.25% - Los Pelambres 10% - Copper Mountain 25% - Mantoverde 30% (Zafranal PJ 20%)
Smelting & Refining	 <p>Non-ferrous metal smelting and refining of copper concentrate, metal scrap, waste, etc.</p> <p>Sales of produced electrolytic copper, gold and silver, PGM, tin, lead and by-products (sulfuric acid, gypsum, etc.)</p>	<ul style="list-style-type: none"> • Utilization of the highly efficient, eco-friendly Mitsubishi Process • The world's No.1 E-Scrap processing capacity • Advanced recycling technologies • Integrated production system • Various production bases (copper / lead / tin / precious metals / PGM) 	<p><u>Electrolytic Copper Production Capacity</u></p> <ul style="list-style-type: none"> - Naoshima 234Kt/Y - Onahama 250Kt/Y - PTS 342Kt/Y <p><u>E-Scrap Processing Capacity</u></p> <ul style="list-style-type: none"> - 160Kt/Y (2 smelters total)
Recycling	 <p>Home appliance recycling ELV (Automobile) recycling</p>	<ul style="list-style-type: none"> • Recycling processing technologies • The Japan's No.1 waste home appliance processor • Rare earth recovery technologies • Proprietary recycling system • Versatile recycling processing facilities (Smelting furnace, Cement kiln) 	<p><u>Processing Volume of waste Home Appliance</u></p> <ul style="list-style-type: none"> - 3,650K units/Y

Business Flow



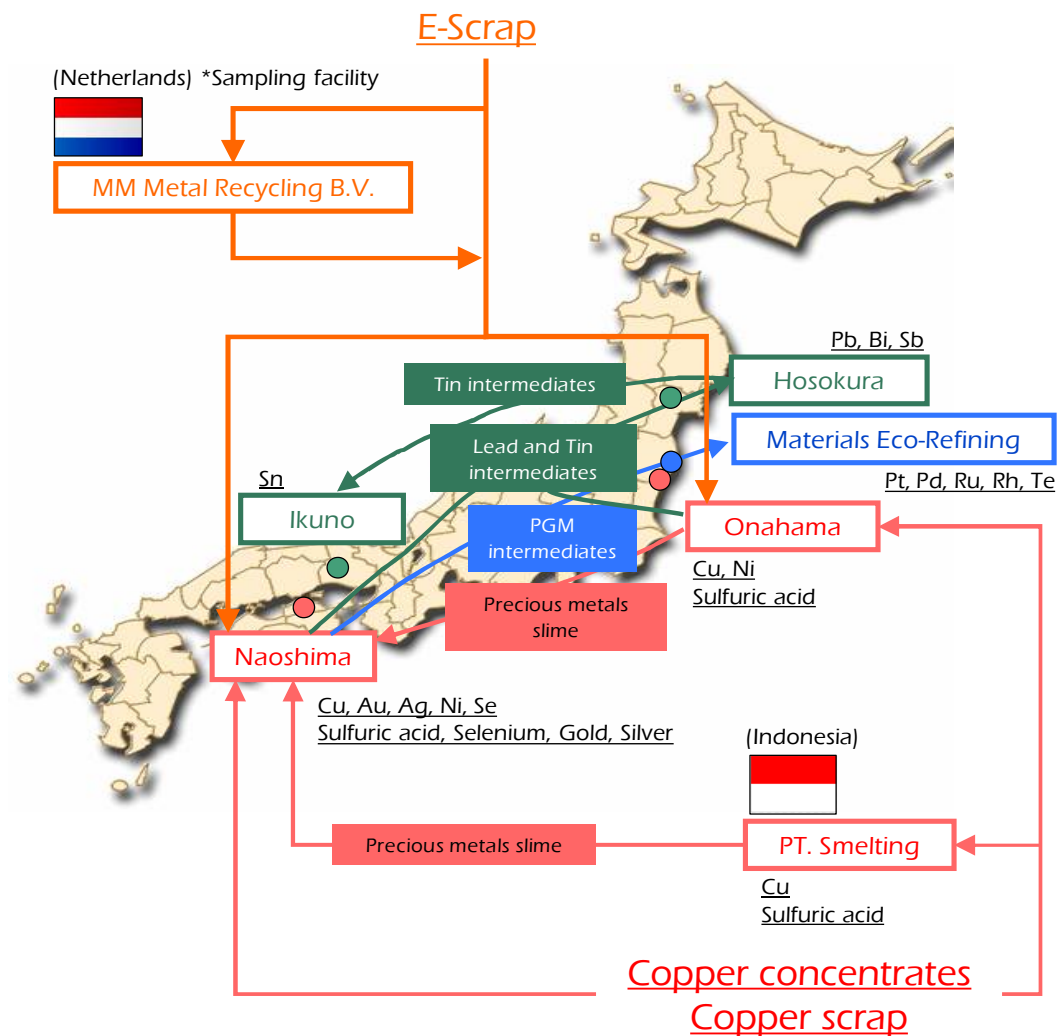
Recycling Business Locations

- Smelter & Refinery
- Home Appliances Recycling Plant
- End of Life Vehicles Recycling Plant

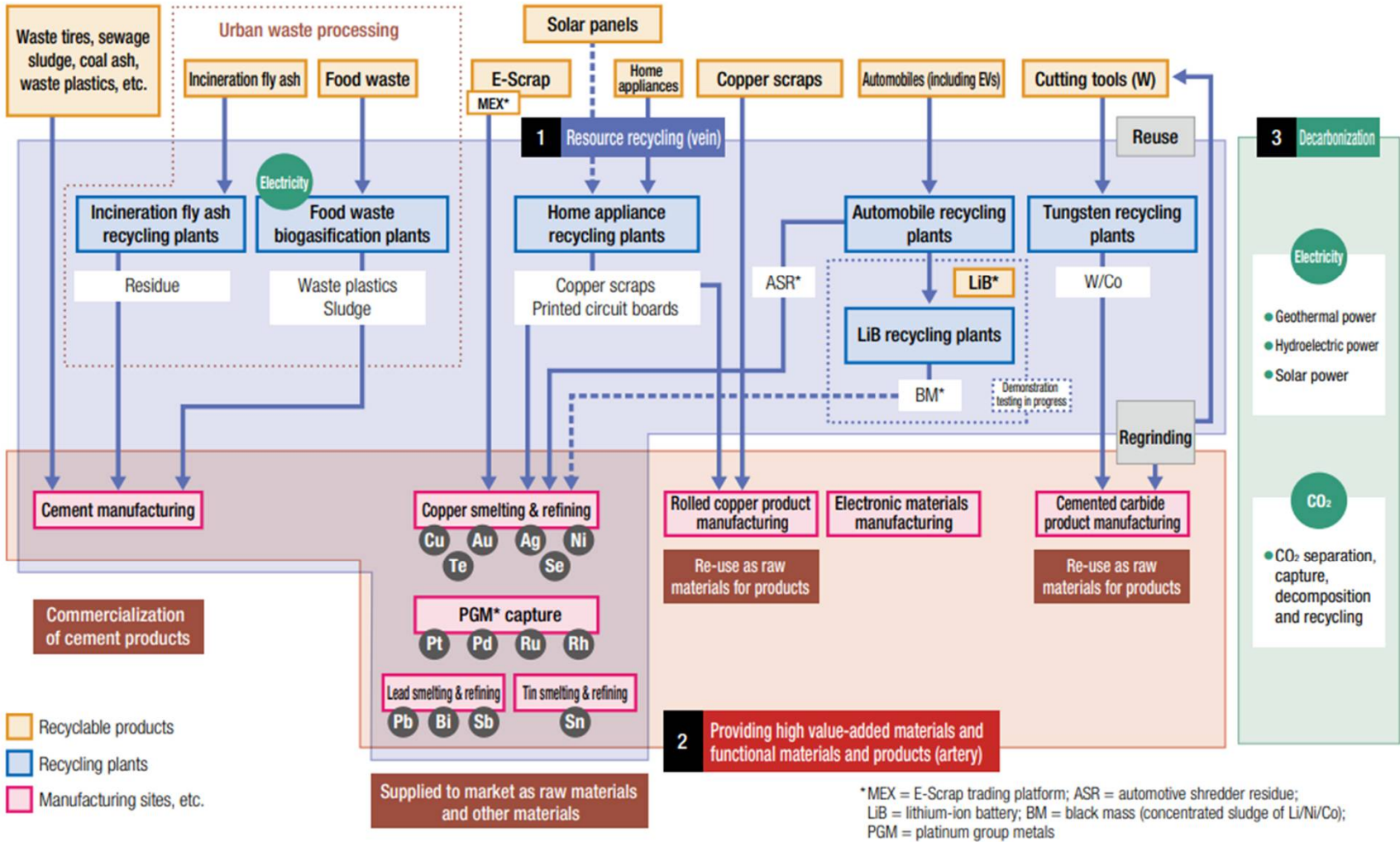


Material Grid

Smelter etc.	Raw Materials	Major Products
Naoshima Smelter & Refinery	<ul style="list-style-type: none"> Copper concentrates E-Scrap Copper scrap Other scrap Precious metals slime 	<ul style="list-style-type: none"> Copper cathode Sulfuric acid Selenium Gold Silver
Onahama Smelter & Refinery	<ul style="list-style-type: none"> Copper concentrates E-Scrap Copper scrap Other scrap 	<ul style="list-style-type: none"> Copper cathode Sulfuric acid
PT. Smelting (Indonesia)	<ul style="list-style-type: none"> Copper concentrates Copper scrap 	<ul style="list-style-type: none"> Copper cathode Sulfuric acid
Hosokura Metal Mining Co., Ltd	<ul style="list-style-type: none"> Waste lead battery Pb-Sn Intermediate 	<ul style="list-style-type: none"> Lead Bismuth
Ikuno Plant	<ul style="list-style-type: none"> Tin scrap Tin Intermediates 	<ul style="list-style-type: none"> Tin
Materials Eco-Refining Co., Ltd.	<ul style="list-style-type: none"> PGM Intermediates 	<ul style="list-style-type: none"> Platinum Palladium
MM Metal Recycling B.V. (Netherlands)	<ul style="list-style-type: none"> E-Scrap 	E-Scrap

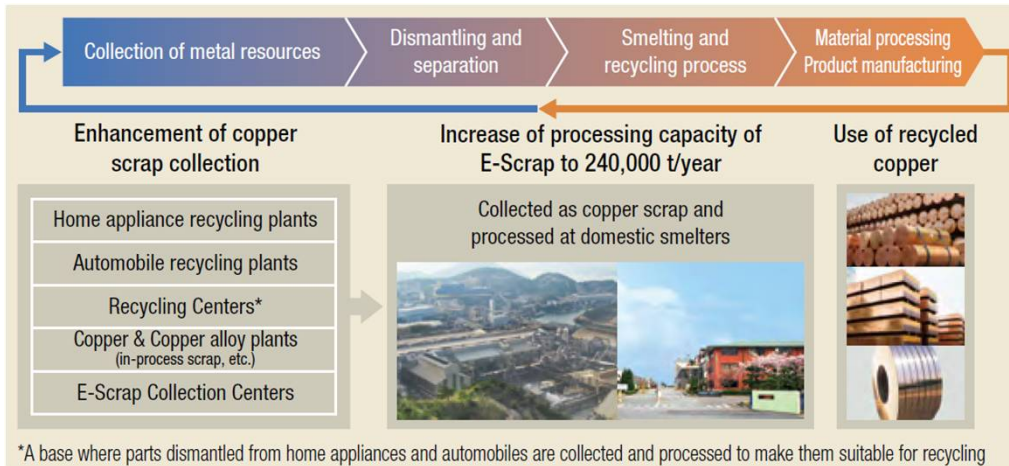


Resource Recycling Capability



Current initiatives to expand resource recycling

■ Copper Recycling



■ Exurban PJ

Investment in Exurban and develop Smelting technology using only E-scrap as raw material.

MITSUBISHI MATERIALS



■ Recycled Metal "REMINE"

MITSUBISHI MATERIALS
Recycled Metal "REMINE"

Corporate Site CS Contact Us CS Japanese

Mitsubishi Materials' Recycled Metals

Metals products with recycled content calculated in accordance with ISO14021 and verified by a third party

REMINE

The first products are "Refined Tin (Ingot)" and "Refined Lead (Ingot)".

Sn Tin	Pb Lead
Recycled content 100%	Recycled content Greater than 99.6%

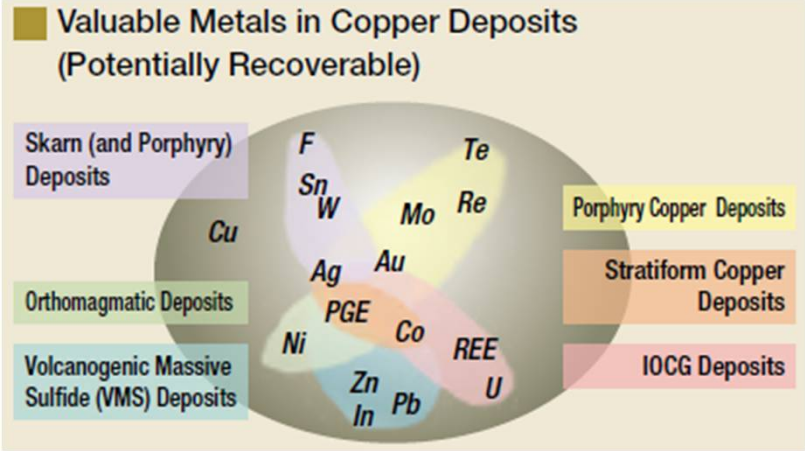
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■ Appliance Recycling PJ in ASEAN

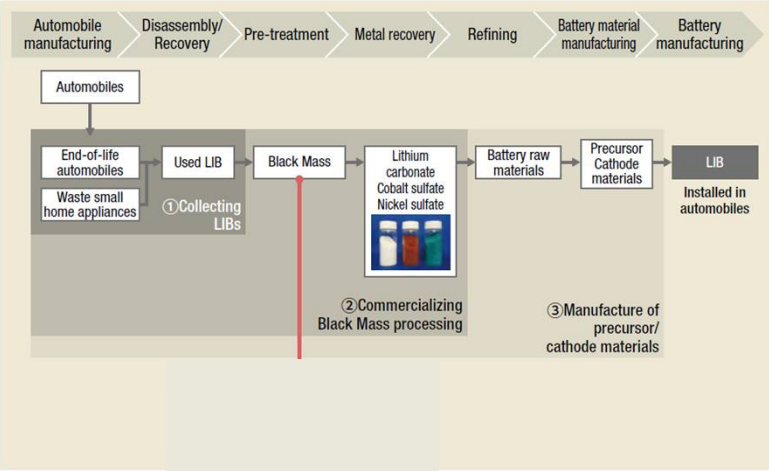


Current initiatives to expand resource recycling

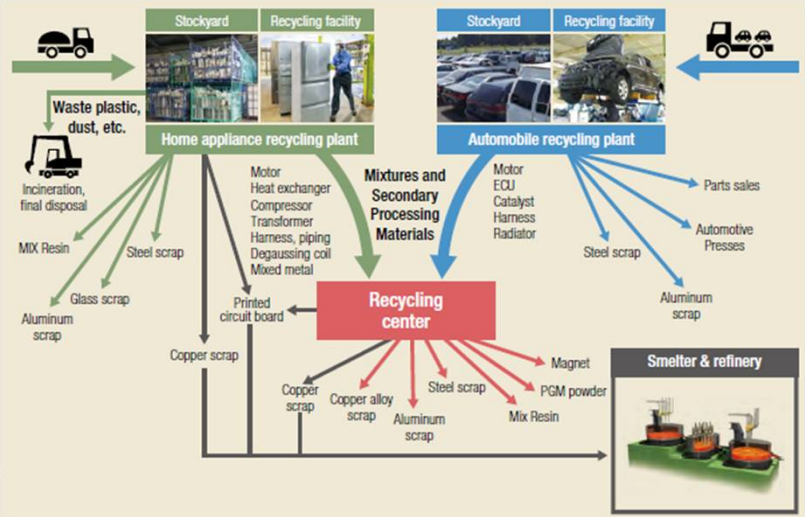
Recovery of Cobalt at Copper Mines

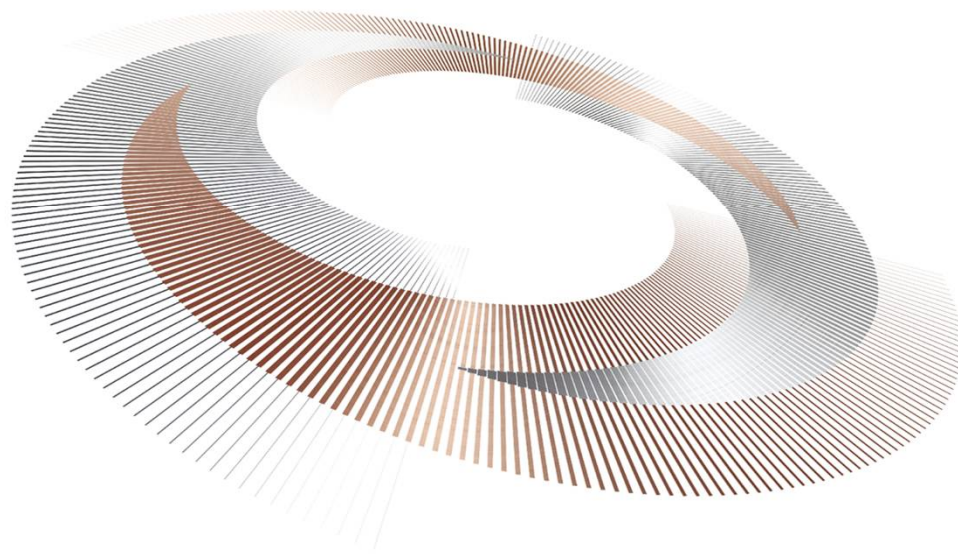


LIB Recycling



Recycle Center





For people, society and the earth, circulating resources for a sustainable future



