

Current Situation and Future Initiatives in the Flat Rolled Products Business

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Demand Environment and Current Status of the Flat Rolled Products Business



Global demand outlook for aluminum sheets

Global aluminum sheet demand is increasing year by year

Background for increased aluminum sheet demand

Global demand for environmentally friendly containers



Can stock: Recycling-oriented business (Can-to-Can) harnessing aluminum's **high recyclability**

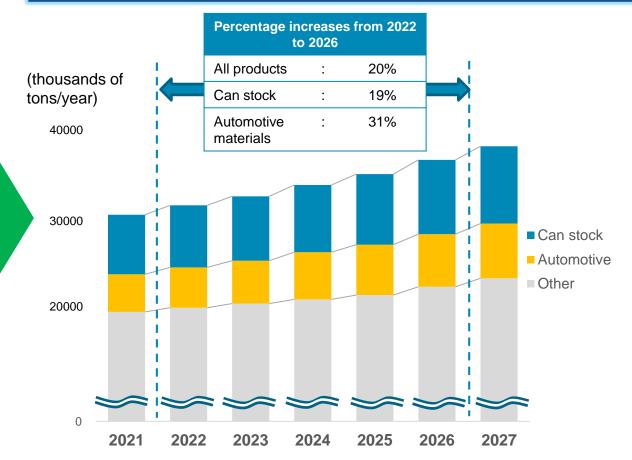


Realizing a decarbonized society



Automotive materials: In addition to more vehicle models/parts that use aluminum to achieve **weight reduction**, demand for batteries is also increasing due to **electrification**

Global aluminum sheet demand forecast



Flat Rolled Products Business Strategy

Aiming to supply 1.5 million tons per year globally by taking advantage of our three-point global supply system

Japan: Improving earning power

Solid customer base, capability to handle high-mix products/various applications
Profit structure resistant to environmental changes through structural reforms and price system corrections
Focusing on growth areas, promoting recycling process

UATH*1: Reinforcing system to reach 340,000 tons of production

Establishing a global supply system as the only integrated plant in Southeast Asia, and establishing a recycling system in the region

TAA *2 : Capturing robust demand in North America over the medium to long term

Solid customer base in the robust North American can stock market over the medium to long term Aiming to increase revenue and recoup investment

Flat Rolled Products Division

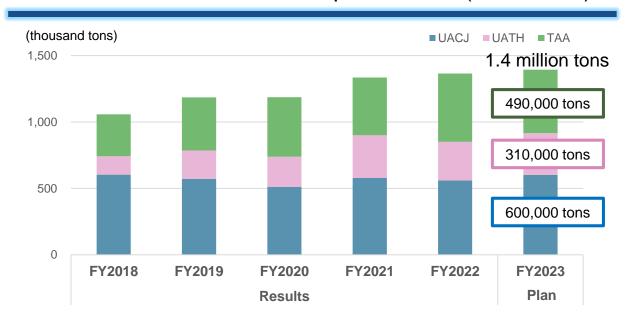
Global supply through our three-point business system Maximizing earnings by developing each unit's strengths

*1 UATH: UACJ (Thailand) Co., Ltd.
*2 TAA: Tri-Arrows Aluminum Holding Inc.

Flat Rolled Products Business: Total Sales Volume and Ordinary Income for All Three Units

Amid firm demand, sales volume and ordinary income are on an upward trend for our three units in the Flat Rolled Products Business

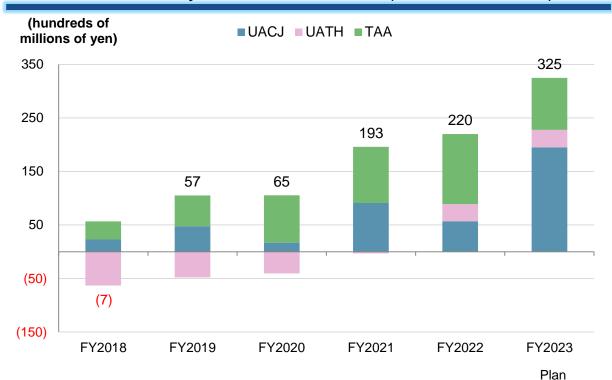
Annual sales volume trend per location (three units)



FY2022 - FY2023: Approx. 1.4 million tons

Future: Total of 1.5 million tons for all three units

Flat Rolled Products Business: Ordinary income before inventory valuation effects (three-unit total)

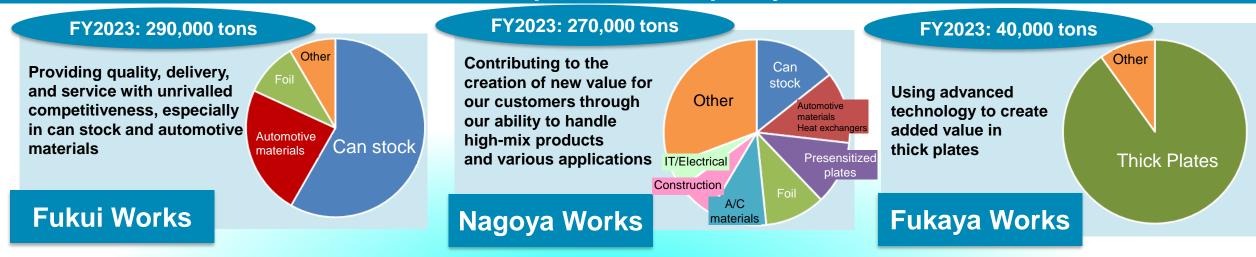


Increase in sales volume

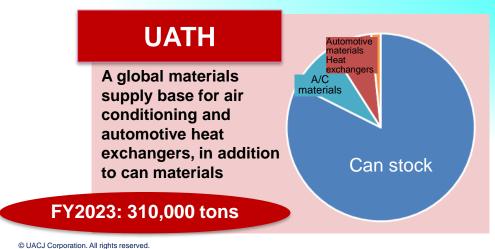
Improvement in ordinary income

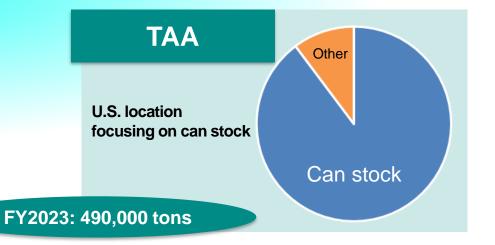
Strengths of Works in Japan, UATH, and TAA

Doing business utilizing our solid customer base, ability to design products that meet their needs, and production capacity



A supply system harnessing the unique qualities of each location





Sales Trends and Profit/Loss Outlook for the Domestic Flat Rolled Products Business

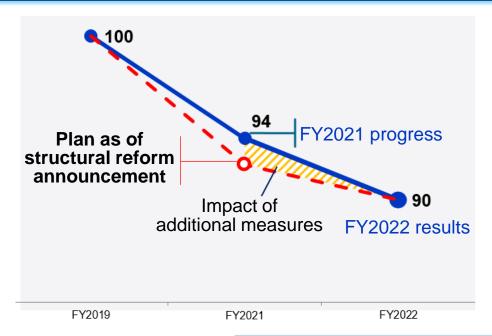


Sales Trends

Aiming for total sales of 600,000 tons per year at the three domestic works, mainly in our mainstay can stock and automotive-related products

Domestic Flat Rolled Products Business break-even point (index: FY2019 = 100)

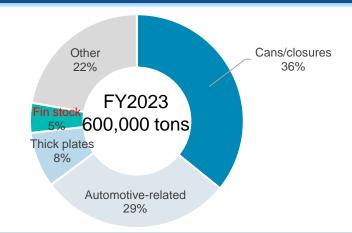
Sales product mix composition and sales policy for FY2023



Expansion of highly profitable products

Consolidating manufacturing





Can stock: Promoting recycling and aiming for stable orders

Automotive-related: Increasing sales due to recovery in automobile production Capturing demand for batteries

Thick plates: Capturing medium- to long-term expansion of semiconductor demand, demand for fuel carriers

IT, electrical, A/C, etc.: Activities to win orders by taking advantage of recycling

Profit and Loss Forecast

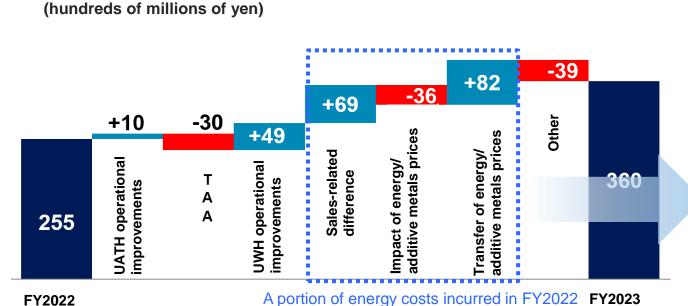
Results:

Actual profit

Cost transfer systems in response to market fluctuations already in place

FY2022 → FY2023 change in ordinary income before inventory valuation effects (consolidated)

Market fluctuations in energy prices and additive metals



will be passed on to prices in FY2023

⇒Decrease (variation) factors for ordinary income

- ✓ Expansion of high-margin products and amending prices
- ✓ Energy
- Additive metals

Have introduced a surcharge formula to handle market fluctuations

Introduced from the second half of FY2022, annual contribution from FY2023

From FY2023 onward:
Price system correction effects increase

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Forecast:

Actual profit

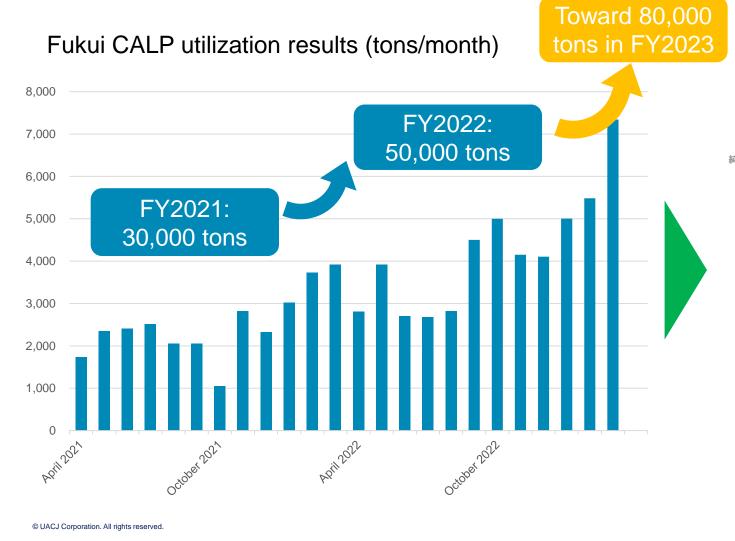
Initiatives in Growth Areas

- Automotive Materials
- Thick Plates
- Air Conditioning Fin Stock
- Foil for Lithium-Ion Batteries
- Can Stock
 - Business Alliance Agreement with Toyo Seikan Group Holdings
 - Joint Venture Agreement with Yamaichi Metals Corporation



Automotive materials

Capturing strong demand for aluminum, completed the Fukui CALP launch. Promoting environmental capability and development of new applications



- Environmental capability
 - Promoting closed-loop recycling



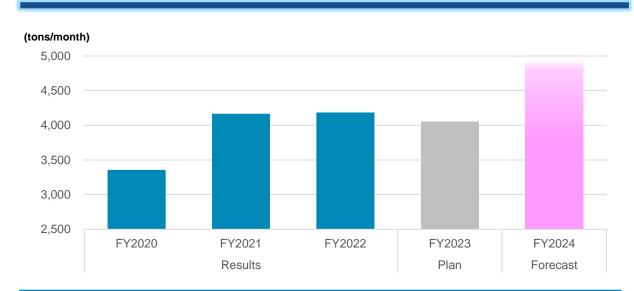
- Developing UACJ SMART Mass Balance using green ingots and recycled raw materials
- New application development
- Supporting electrification (battery pack materials, etc.)
- Expanding applicable parts due to weight reduction

Thick Plates

Improving thick plate productivity to address recovery in demand for semiconductor manufacturing equipment in FY2024 and beyond

Thick plate sales volume results and forecasts

Manufacturing response to increased sales of thick plates

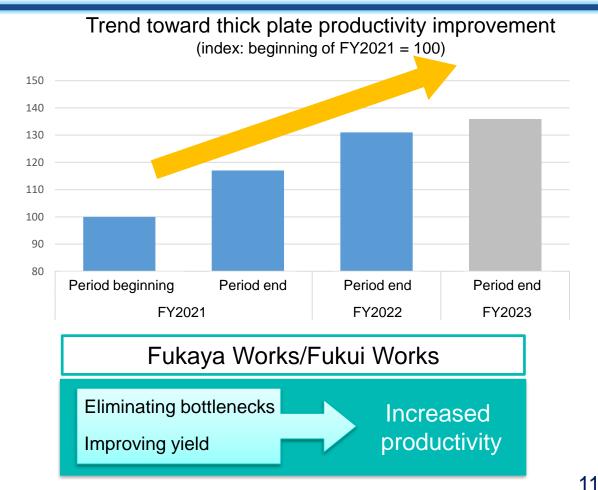




FY2022 results : 7% year-on-year increase

FY2023 forecast: 11-12% year-on-year decrease

FY2024 forecast: 17-18% year-on-year increase



Air Conditioning Fin Stock

Technology development with Japanese customers and responding to overseas market growth

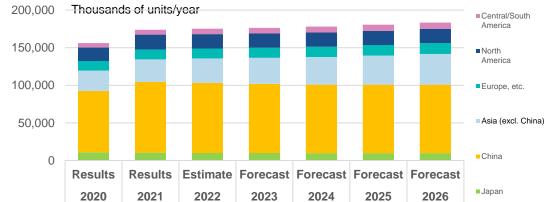
Sales trends by product type and region

Supply system tailored to market needs

North

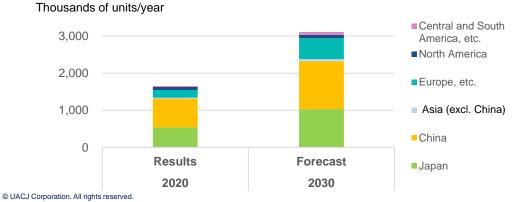
America







Heat pump water heater market



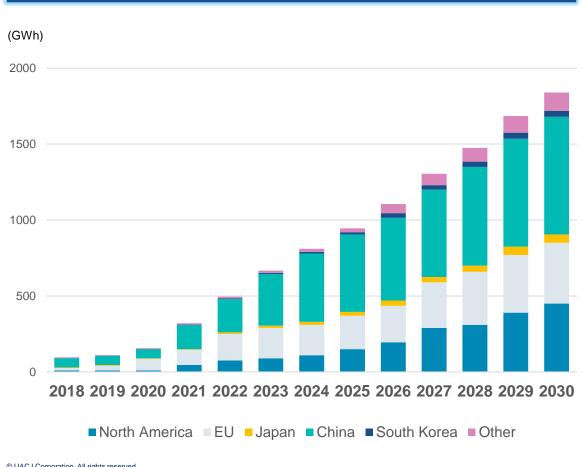
- Strong relationships with Japanese air conditioner manufacturers and development of new technologies
- Air conditioning market to more than triple by 2050
- Supply from UATH mainly to Southeast Asia, U.S., and Europe
- Responding to growing demand for inverter air conditioners in North America and heat pump water heaters in Europe

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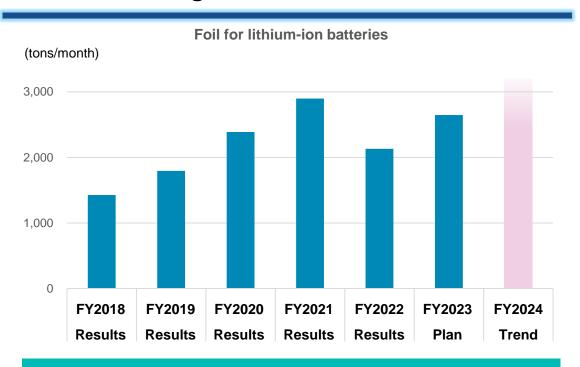
Foil for Lithium-Ion Batteries

Expecting strong demand due to growth in the lithium-ion battery market

Lithium-ion battery demand trend



Sales through FY2023 and demand forecast



- Stable supply to domestic foil manufacturers with a large share of the lithium-ion battery foil market
- Demand expansion in North America, Europe, and South Korea

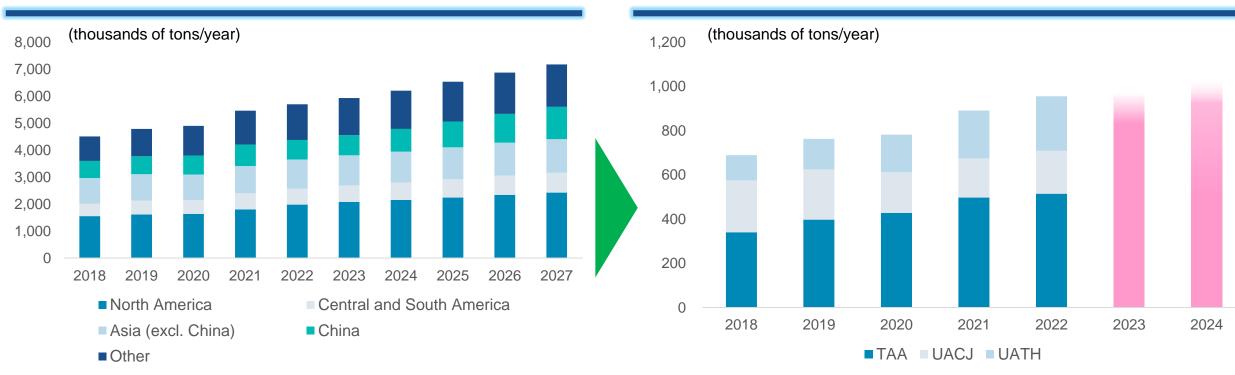
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Can Stock

Continuing to capture strong demand for can stock through a three-point global supply system



Can stock sales volume trend for three units



Can stock initiatives of our three units

Japan: Business alliance with Toyo Seikan Group Holdings, UBC processing with Yamaichi Metal

TAA: Investment in hot rolling expansion

UATH: Intra-regional closed-loop recycling, dedicated melting furnaces for recycled materials

Domestic approach to Can Stock (1)

Concluded a Business Alliance Agreement with Toyo Seikan Group Holdings

Combining both companies' technologies to reduce CO₂ emissions throughout the beverage container supply chain



Joint development of environmentally friendly aluminum cans through the organic use of the two companies' technologies, know-how and other resources

Promote closed-loop recycling of used aluminum cans

Reductions in CO₂ emissions for the beverage container supply chain as a whole

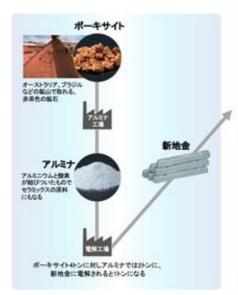
Enhanced environmental value of aluminum cans expected to lead to further market expansion

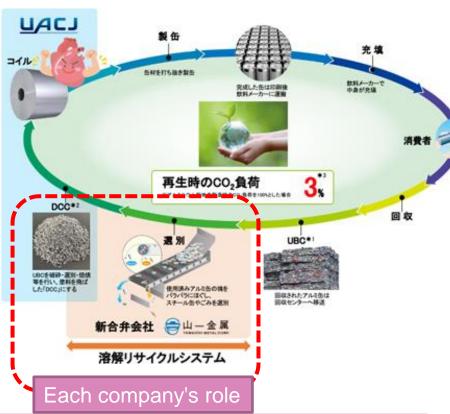
Investigate closed-loop recycling of used aluminum cans

Domestic approach to Can Stock (2)

Concluded a Joint Venture Agreement with Yamaichi Metals Corporation for UBC Processing (Promotion of Closed-loop Recycling for Aluminum Cans)

Contributing to the realization of a recycling-oriented society through the construction of a UBC* pelletization recycling system





Establishment of joint venture company and construction of pelletization recycling system

⇒ Processing and pelletization of UBCs is integrated, improving the supply chain flow

Increased use of UBCs

Supplying products that increase can-to-can recycling rates

- ◆ Reduced CO₂ emissions throughout the beverage can supply chain
- Contribution to the realization of a recyclingoriented society

UACJ

Installation of UBC treating and processing equipment, supplying products that increase recycling rates

Yamaichi Metal Corporation

Procurement of raw materials such as UBCs, provision of technology and expertise

*UBC: Used Beverage Can



Aluminum lightens the world アルミでかなえる、軽やかな世界