

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

Toward a Sustainable, Better Society



Shinji Tanaka Director, Managing Executive Officer

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UACJ Environmental Management Activity Policy

We are grateful for the lush blue earth, and we will pursue aluminum to contribute to the formation of a sustainable society.

Pivoting Our Environmental Action

Going beyond defensive environmental action to expand our offensive action

Future expansion areas

(Initiatives requiring more proactivity than before)

- Conservation of water resources
- Conservation of biodiversity
- Contribution to/collaboration with stakeholders' activities

Promotion of climate change measures

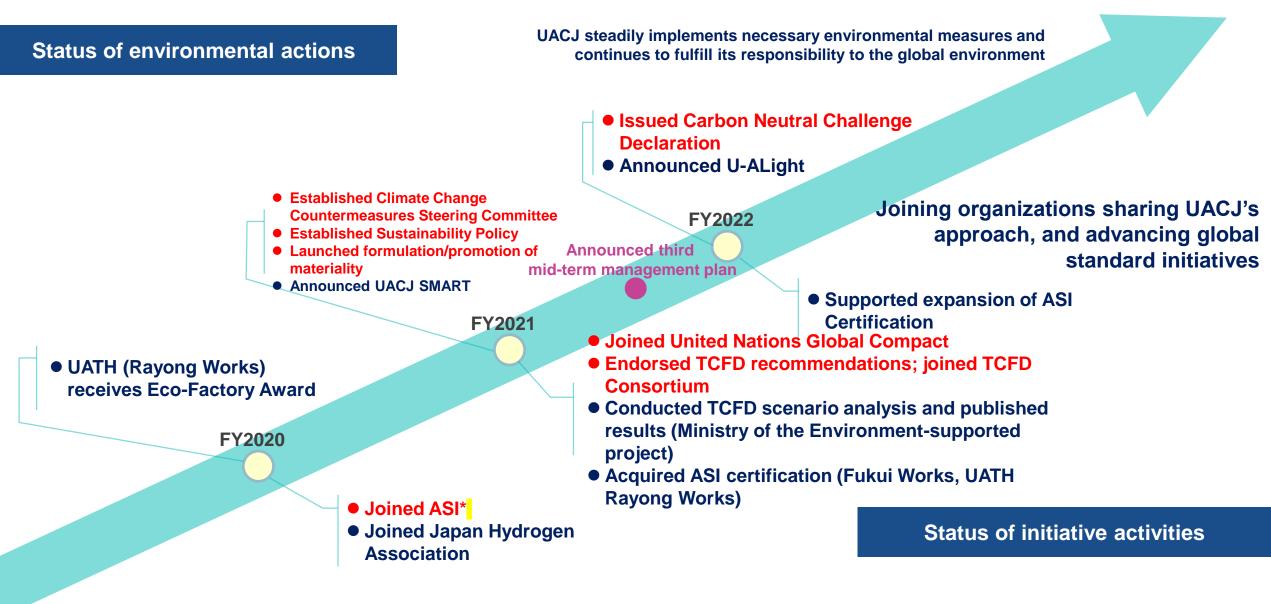
- Sales and technological development of products that contribute to environmental improvement
- Building a recycling-oriented society

Areas to maintain and manage

(Environmental actions essential for sustaining UACJ)

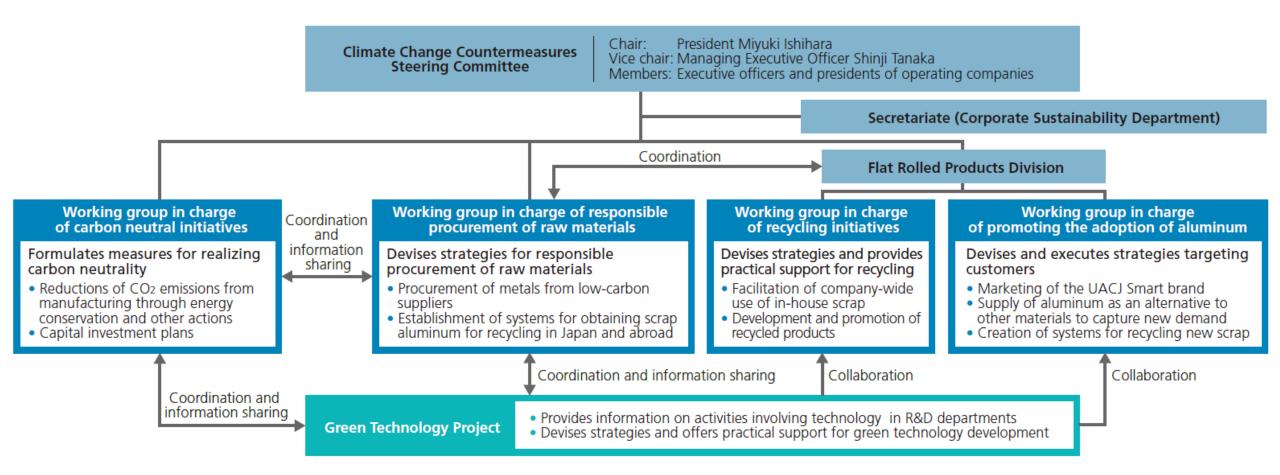
- Legal compliance
- Eliminating serious environmental accidents
- Proper management of chemical substances
- Raising environmental awareness

Timeline of Environmental Actions



Launched the Climate Change Countermeasures Steering Committee

Engaging in Group-wide, vigorous activities to minimize environmental impact, reduce CO₂ emissions, and become carbon neutral



Review of the UACJ Group Basic Environmental Policies

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Reviewing the Basic Environmental Policies and declaring further promotion of climate change initiatives

Environmental Management

Listen to this page

UACJ Group Basic Environmental Policies

UACJ Environmental Management Activity Policy
 Approach to Environmental Management

Environment-Related Investment
 Environmental Education

UACJ Group Basic Environmental Policies

Corporate Philosophy

The UACJ Group is thankful for the earth and the abundance of life it supports, and work to conserve it, with recognition that the fate of all living things hangs on the condition of the earth's environment. We will also voluntarily and actively take action to evaluate the environmental impact of our current and future business activities throughout the supply chain, set specific targets based on the assessment, and minimize environmental load and maximize environmental contribution.

Guidelines

- We comply with environment-related laws, regulations, and agreements, and establish voluntary standards to properly manage wastewater, exhaust gas, and chemical substances
- 2. We promote sales of products and development of technology that contribute to environmental
- 3. In order to contribute to the achievement of the goals of the Paris Agreement, we will strive to reduce greenhouse gas emissions and conserve energy, and promote measures against climate change. (The details shall be based on the "Concept of Climate Change Countermeasures")
- materials, and promote the creation of a sustainable recycling economy.
- 5. We endeavor to conserve water resources essential to our business activities.
- 6. We endeavor to conserve biodiversity by giving consideration to the benefits of ecosystems.
- 7. We raise environmental awareness through educational and public relations activities
- 8. We strive to contribute to and coordinate the environmental conservation activities of our
- stakeholders.

Added in March 2022 ;

In order to contribute to the achievement of the goals of the Paris Agreement, we will strive to reduce greenhouse gas emissions and conserve energy, and promote measures against climate change.

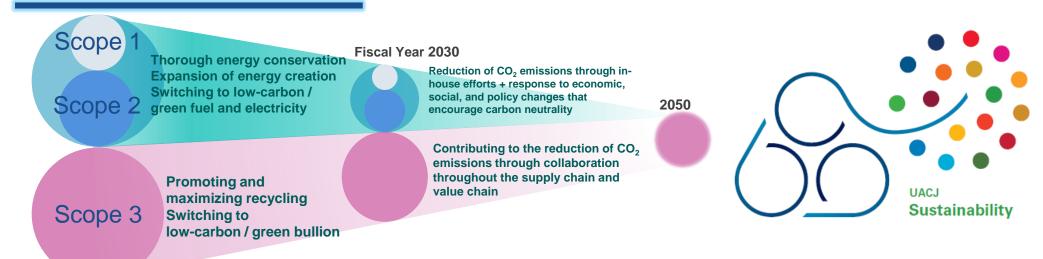
Preparing for Carbon Neutrality by 2050

For Scope 1 and Scope 2, take on the challenge of carbon neutrality by 2050

Guidelines for action

- For Scope 1 and Scope 2, <u>aim to cut emissions by 30%^{*1} by FY2030</u>
 For Scope 2, work on callebrations with a variate of northernal in the second second
- For Scope 3, work on collaborations with a variety of partners in the supply chain to maximize recycling and minimize CO₂ for the supply chain as a whole

CO₂ emissions by Scope and Illustration of Future Reductions



Roadmap for Promoting Climate Change Action

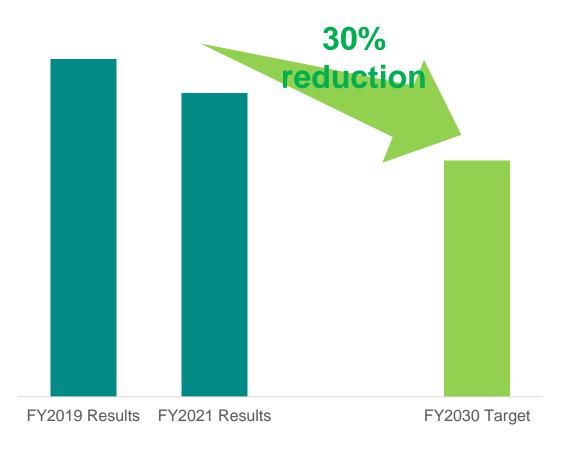
Category	Details		FY	⁄2030		FY2050	
Scope 1 and 2	Rigorous energy conservation		Streamlining energy use / reducing loss			Ach	
	Switching to low-carbon/green fuels		Switching heavy oil/LPG to LNG/city gas	Cut	Hydrogen/ammonia/methanation/etc.	ieved o	
	Switching to low-carbon/green electricity		Launching/expanding introduction of	CO ₂ 3	Switching all electricity use to renewable	carbon	
	Introducing carbon capture technology Using carbon offsets		Technology research/study	0%	Technology for capturing/effectively	Achieved carbon neutrality	
			Surveying market trends on emissions		Afforestation/emissions credit		
Scope 3	Promoting/maximizing recycling		Maximizing use of all scrap (from internal processes, customers, and general consumers)				
	Developing/applying recycled alloys/ technologies]	Development/application (NEDO*-subsidized project, etc.) Application/expanding popular use			Minimized	
	Switching to low-carbon/green bullion		Expanding use of hydropower generation		Switching to green (carbon-free) bullion		
	Introduction of "UACJ mass balance approach" to certify reduction of CO2 emission.		Building Harnessing/popularizing				
	Promoting the switch to aluminum		Developing/expanding sales/entrenching UACJ-SMART, developing/expanding sales in new domains Reducing environmental burden from harnessing aluminum, establishing reduction contribution				
Participation	/cooperation with external institu		Participating in initiatives, collaborating with alu			0	

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*NEDO: New Energy and Industrial Technology Development Organization

CO₂ emission reduction target (Scope 1 and 2 per unit, vs. FY2019)



New Energy-Saving Subcommittee*

After issuing the Carbon Neutral Challenge Declaration, we have been working to achieve the targets in Scope 1 and 2, and we therefore established the New Energy-Saving Subcommittee in July 2022, launching UACJ Group-wide efforts toward further reduction.

Results and plans for renewable energy (electricity)

- Results: Installation of solar power generation systems worth CO₂ emissions reductions of approximately 14,000 tons/year (at the UATH Rayong Works, etc.).
- Plan: Introduce renewable energy (electricity) from FY2023 worth CO₂ emissions reductions of approximately 100,000 tons/year

Initiatives to Reduce Scope 1 and 2 Emissions

Examining measures to reduce CO₂ emissions and developing a path to implementation

Progress of the New Energy-Saving Subcommittee

- Discussions to be held by November 2022 to consider measures
- Building up reduction measures that exceed reduction targets of Scope 1 and 2 for FY2030
- Priority action to be taken while confirming effectiveness

Examples of reduction measures under consideration

Initiatives implemented

- Reducing steam/compressed air leaks (Repairs/reinforcing)
- Furnace insulation reinforcement and prevention of heat dissipation

Actions partially implemented / Actions that are expanding the scope

- Expanding introduction of solar power generation on in-house premises
- Expanding into low-carbon fuels for casting/heating/annealing furnaces
- Expanding LED switching at plants

Actions under consideration

- Electrification of heat utilization equipment (And use of renewable energy in electrification)
- Renewal of HVAC equipment/boilers (Increasing efficiency)
- Introduction of waste heat utilization equipment in casting/heating furnaces (Regenerative burners, etc.)

UATH^{*} (Rayong Works) Solar Power Generation System Started Operation in September



Installed photovoltaic panels on the roof of Rayong Works property (18,000 kW output from approx. 40,000 panels, equivalent to output of approximately 7,900 ordinary Japanese homes) with cooperation from Kansai Energy Solutions (Thailand) Co., Ltd.

> UATH will consume all the electricity generated for 20 years

>Achieves CO₂ reduction of approximately 14,000 tons/year

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CO2 reduction can were put on sale (in September)



The Premium Malt's CO_2 reduction can

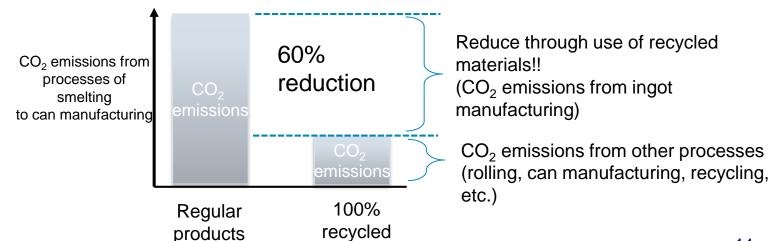


- ✓ We partnered with Suntory Spirits Ltd. and Toyo Seikan Group Holdings, Ltd. to realize the world's first can stock using 100%recycled materials
- ✓ We did not use any new ingots, and instead used UBCs (used beverage cans) and offcuts from aluminum can stock production processes for all can bodies, lids, and tabs
- We will aim to achieve reductions in environmental impact in the future through specialized management of sorting, separating, flat-rolled aluminum manufacturing processes to produce 100%recycled aluminum can sheet material

[Image of CO₂ emissions reduction from smelting to can manufacturing]



The Premium Malt's "Kaoru" Ale CO_2 reduction can



Promoting Closed-loop Recycling of Aluminum Cans in ASEAN

Can-to-Can Journey

Government and industry officials were invited to UATH to understand the recyclability of aluminum cans and the closed loop of the Can-to-Can process (recycling of aluminum in aluminum can processes)



Conclusion of a Memorandum of Understanding (MOU) on the promotion of closed-loop recycling

- December 2021 Thailand
- February 2022

Vietnam

In ASEAN, where the use of aluminum cans is increasing, we will continue to focus on establishing recycling schemes with local governments and companies.



MOU signing ceremony in Thailand (Second from right: Keizo Hashimoto, Delegated Vice Chief Executive, Flat Rolled Products Division of UACJ)

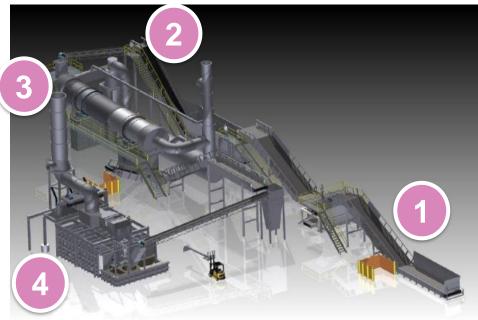


MOU signing ceremony in Vietnam (Second from right: Kimitoshi Inagaki, President of UATH)

Expanding Aluminum Can Recycling to Minimize CO2 Emissions

Promoting the introduction of aluminum can recycling facilities to become the heart of the circular economy

In operation at TAA* (Logan Mill)



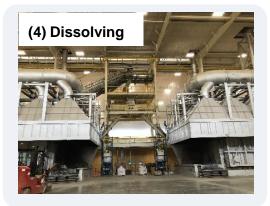
Illustration/photographs of facilities in operation at TAA (Logan)

- > UATH (Rayong Works): Scheduled to start operation in FY2024
- UACJ (Fukui Works): Promoting collaboration with Yamaichi Metal Corporation



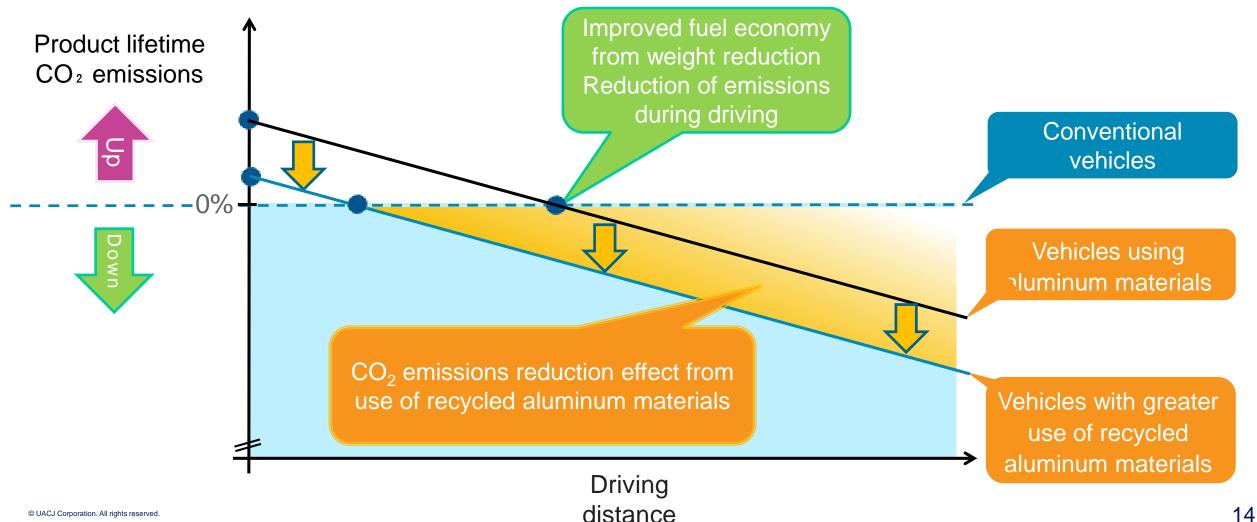






Contributing to CO₂ Reduction by Switching to Aluminum Use in Automotive Vehicles

Improved fuel economy due to weight reduction contributes to reduction of CO₂ over the entire life cycle



Development Example: Recycled Material in Automobiles

Low-CO2 aluminum material won the 57th Oyamada Memorial Award

- Recycled aluminum material jointly developed with an automotive manufacturing company won the 57th Oyamada Memorial Award from the Japan Institute of Light Metals
- By using approximately 50% aluminum alloy scrap material, we reduced the amount of new bullion, achieving approximately 50% reduction in CO₂ emissions during material production versus conventional aluminum materials
- We were recognized for the technology's significant effect in reducing CO₂ emissions over the life cycle of automobiles and the expectation that it will contribute to carbon neutrality in the future

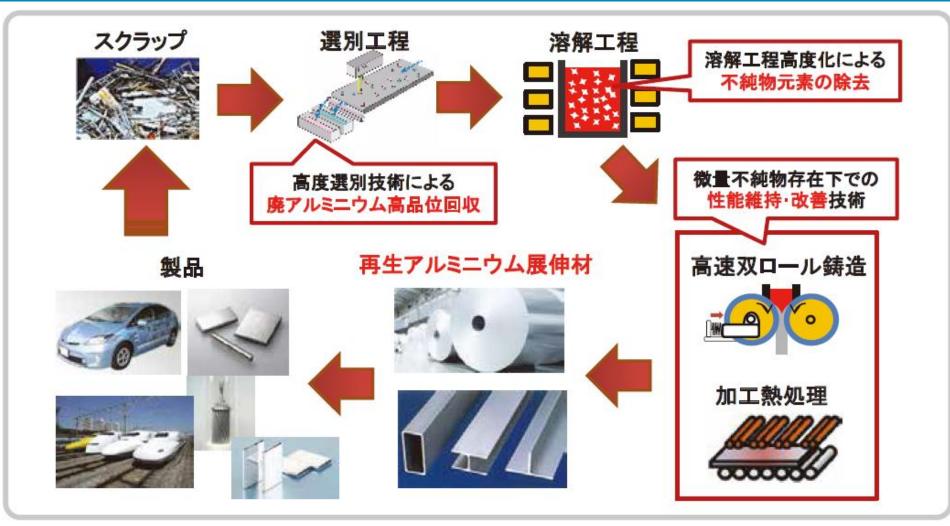




Recycled aluminum material is used for hood inners

Promoting the Development of New Recycling Technologies

Developing new, innovative recycling technology in a NEDO* subsidized project to significantly improve the recycling rate



*New Energy and Industrial Technology Development Organization (NEDO)

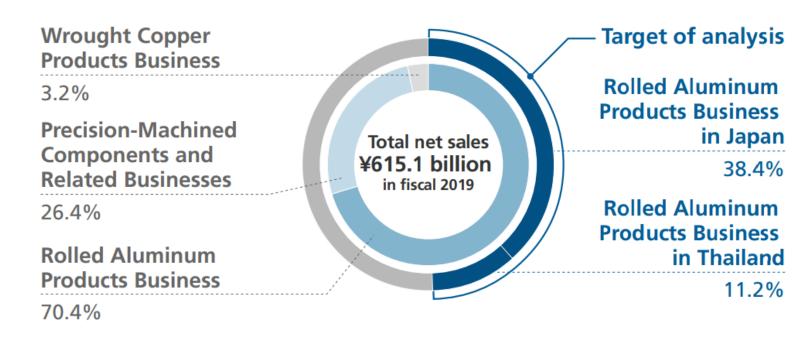
© UACJ Corporation. All rights reserved. Source: NEDO Feasibility Study Program (2019-2020), p. 43: Development of advanced recycling system for aluminum materials

Conducted TCFD Scenario Analysis

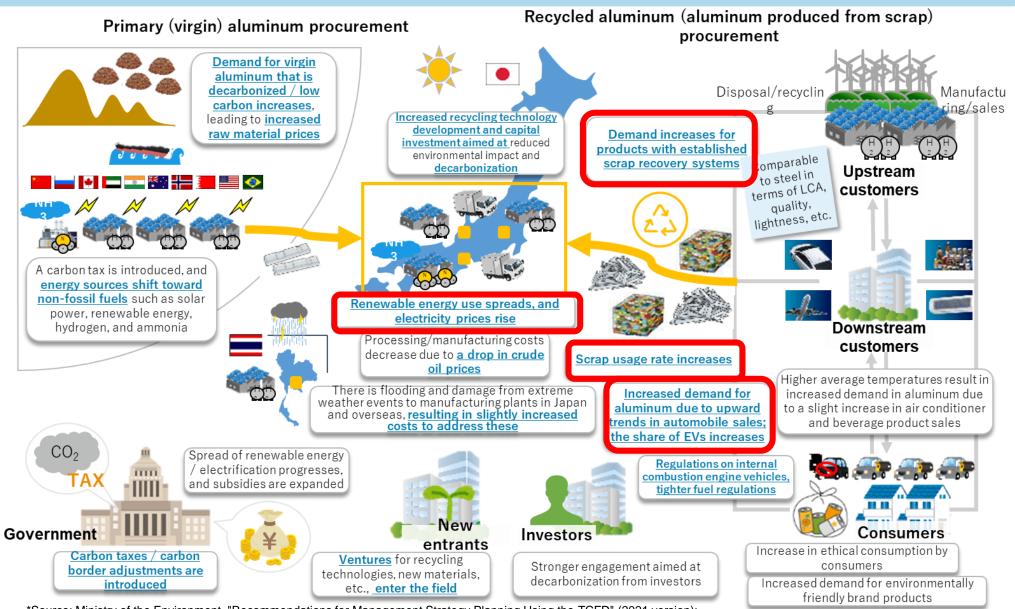
Conducted scenario analysis in a project supported by the Ministry of the Environment (October 2021 - January 2022)

- Analysis targets: Three domestic plants (Nagoya, Fukui, Fukaya) and UATH engaged in the flat rolled products business within the rolled aluminum products business
- Analysis content: Risks and opportunities in the supply chain from raw material procurement to disposal and recycling
- Analysis used two warming scenarios by the IPCC, 1.5°C and 4°C (2.6-4°C), and referred to future projections by the IEA, IPCC and others.

Businesses subject to the scenario analysis



TCFD Scenario Analysis: Illustration of Society's Future in the 1.5°C Scenario*

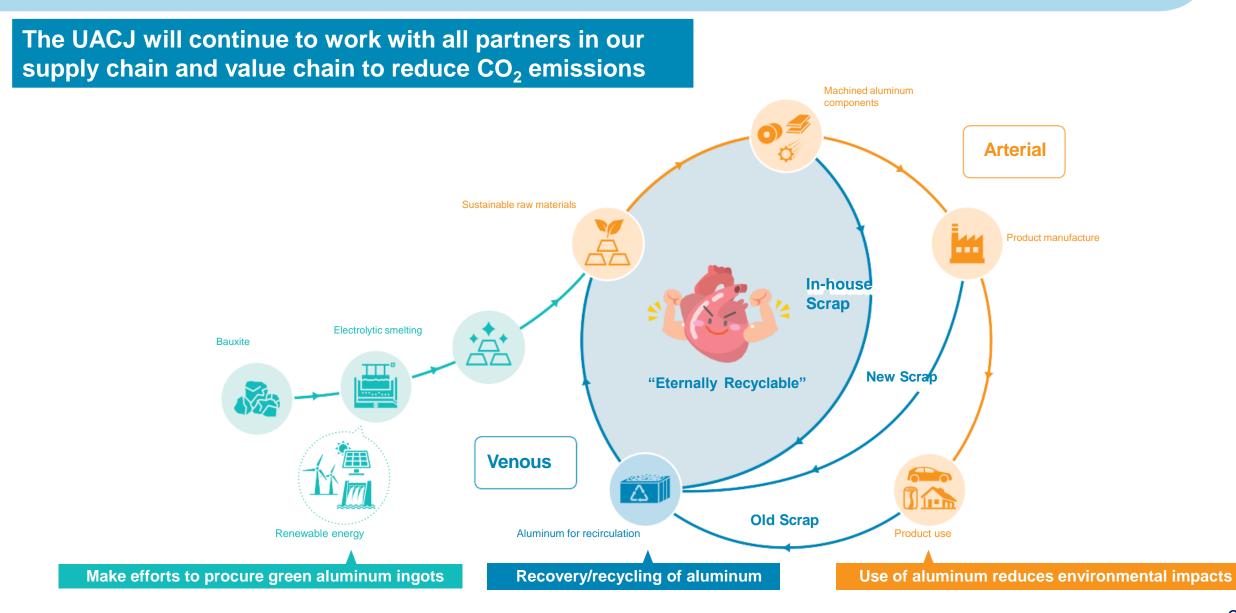


*Source: Ministry of the Environment, "Recommendations for Management Strategy Planning Using the TCFD" (2021 version): © UACJ Corporation, All rights reserved, http://www.env.go.jp/earth/datsutansokeiei_mat01_20220418.pdf (Japanese version) This also includes an illustration of society's future in the 4°C scenario.

Implementing Measures in Line with TCFD Scenario Analysis

ltem	Risk Response	Capturing Opportunities
Carbon pricing, national carbon emissions targets/policies	 ✓ Setting long-term CO₂ emissions/energy reduction targets ⇒ Issued 2050 Carbon Neutral Declaration, re-established (revised upward) CO₂ emission reduction targets for FY2030 ✓ Considering internal carbon pricing 	 Working toward long-term CO₂ emission reduction targets Capturing CO₂ with forests, etc. and utilizing credit systems Establishing evaluation methods for reduction contribution Transferring energy-saving technologies through public-private partnerships and international cooperation toward decarbonization
Changes in the energy mix, supporting energy- saving	 ✓ Energy-saving improvements such as switching fuels/power companies ✓ Promoting the introduction of renewable energies ⇒ Currently promoting the introduction of renewable energies from FY2023 with CO₂ reduction of 100,000 t/year 	 ✓ Promoting the use of solar power and other forms of private power generation, selling electricity ⇒ Installed solar power generation system at UATH (launched operation in September 2022) ✓ Utilizing CCS, CCUS and other decarbonization technologies
National recycling regulations / policies	 ✓ Promoting the improvement of product recycling rates ⇒ Manufactured the world's first 100% recycled cans ✓ Establishing scrap collection scheme (upstream/downstream) 	 ✓ Collaborating with and establishing scrap collection schemes with retailers and municipalities ⇒ Developing the Can-to-Can Journey in ASEAN
Changes in important commodity/product prices and demand	\checkmark (Setting product prices in line with rising raw material prices)	 (Curbing product price increases and strengthening product competitiveness through measures such as improving recycling collection efficiency)
Changes in customer behavior	 Development of certified decarbonized aluminum products and services Introduction of "UAC I mapping belonce enpresses" to 	 Promoting the use of aluminum in products Promoting acquisition of environmentally friendly certifications and establishing original brands
Rise in average temperature	⇒ Introduction of "UACJ mass balance approach" to certify reduction of CO2 emission.	 ⇒Acquired ASI certification and expanded sales of UACJ SMART ✓ Collaborating with competing materials companies
Extreme weather events (cyclones, floods)	 ✓ Introducting disaster prevention equipment ✓ Evolving risk modeling by utilizing data 	 ✓ Promoting aluminum utilization in products: Expanding disaster prevention technologies and products ⇒Launched sales of watertight plates for disaster prevention and stockpiled water in aluminum bottles and cans ✓ Forming public-private consortiums for disaster prevention

Aiming to Build a Recycling-Oriented Society



Appendix (1) Ongoing Environmental Activities

UACJ Group environmental management activity items for FY2022

Environmental management structure



Appendix (2): Membership and Participation in External Organizations



July 2020 Joined ASI



March 2022 Received ASI Certification (Fukui Works/Rayong Works)



March 2021 Joined JH2A (Japan Hydrogen Association)



April 2021 Signed the United Nations Global Compact TCFD TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES





September 2021 Endorsed the TCFD recommendations, joined the TCFD Consortium February 2022 Published TCFD scenario analysis (Ministry of the Environment-supported project)

Cautionary note concerning forward-looking statements

This presentation contains various forward-looking statements that are based on current expectations and assumptions of future events. All figures and statements with respect to the future performance, projections and business plans of UACJ and its Group companies constitute forward-looking statements. Although UACJ's management believes that its expectations and assumptions are reasonable, actual results and trends in UACJ's performance could differ from those expressed or implied by figures or statements herein due to exchange rate movements fluctuations, uncertainties in future business circumstances, and other factors.

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