

ARE Holdings, Inc. Mid to Long Term Plan & Aspiration

April 26, 2024

These forecast performance figures are based on information currently available to the company's management and certain assumptions judged rationally. Accordingly, there might be cases in which actual results materially differ from forecasts of this report.

ARE Mid to Long Term Plan & Aspiration

Overview of ARE Mid to Long Term Plan & Aspiration

Business environment surrounding ARE

Growth strategy

Precious Metal Recycling Business

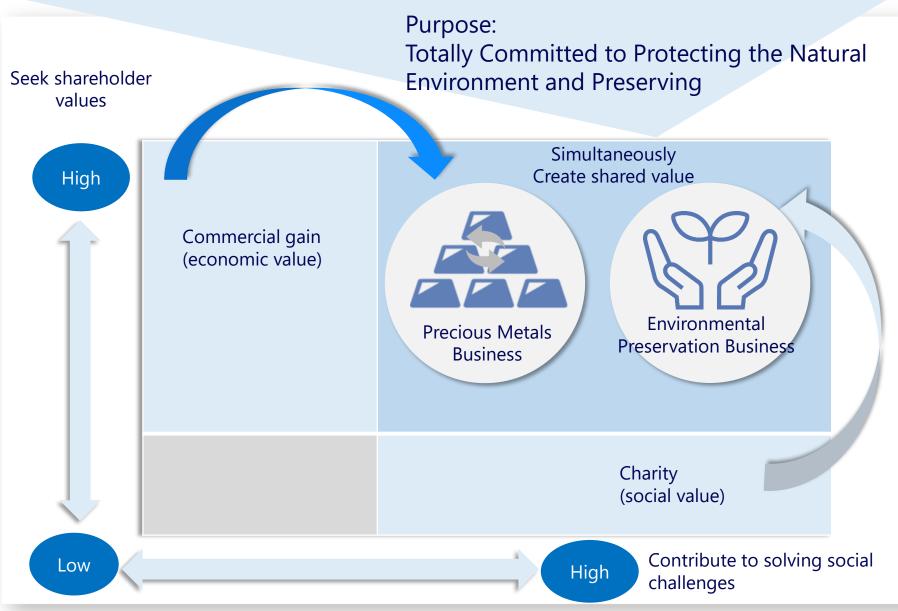
North American Refining Business

Environmental Preservation Business









Social issues

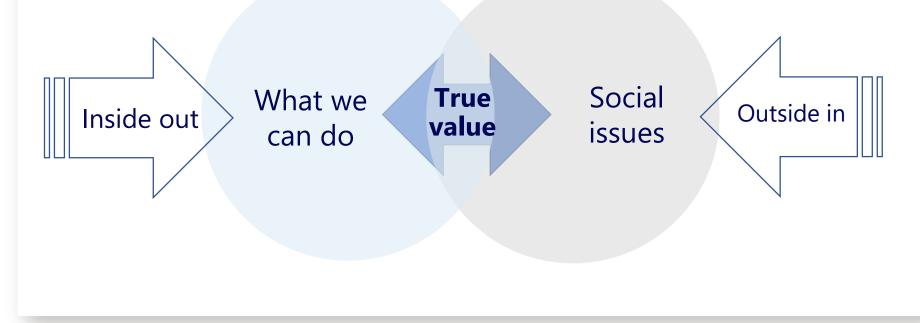
Promptly and simultaneously achieve circular economy and carbon neutrality

Industry issues

Create large-scale solutions for social issues incl. digitalization jointly with industry peers and between the artery and vein of industries

Human issues

Empathy and engagement to solve social issues and to grow business; embark on activities that contribute to society

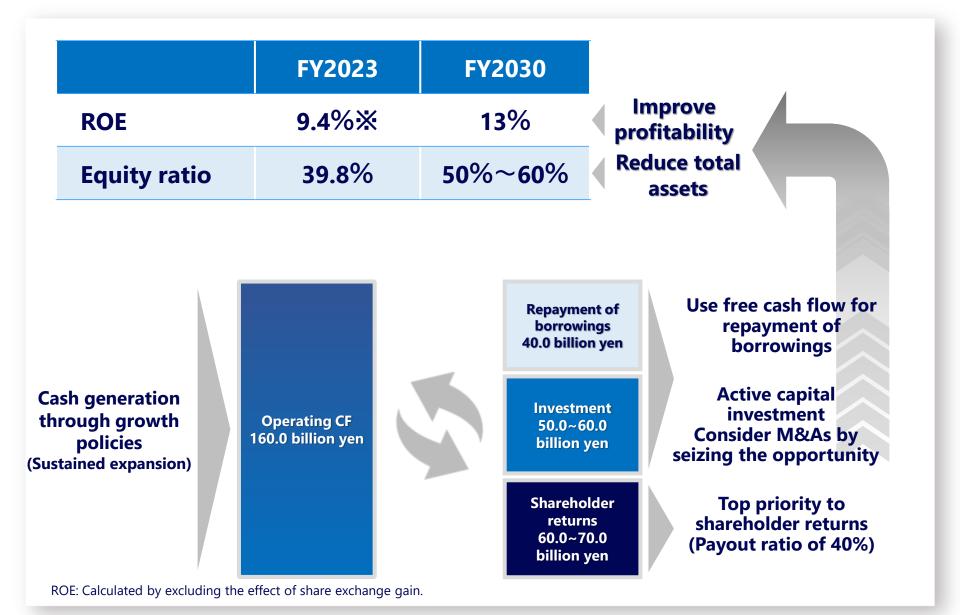








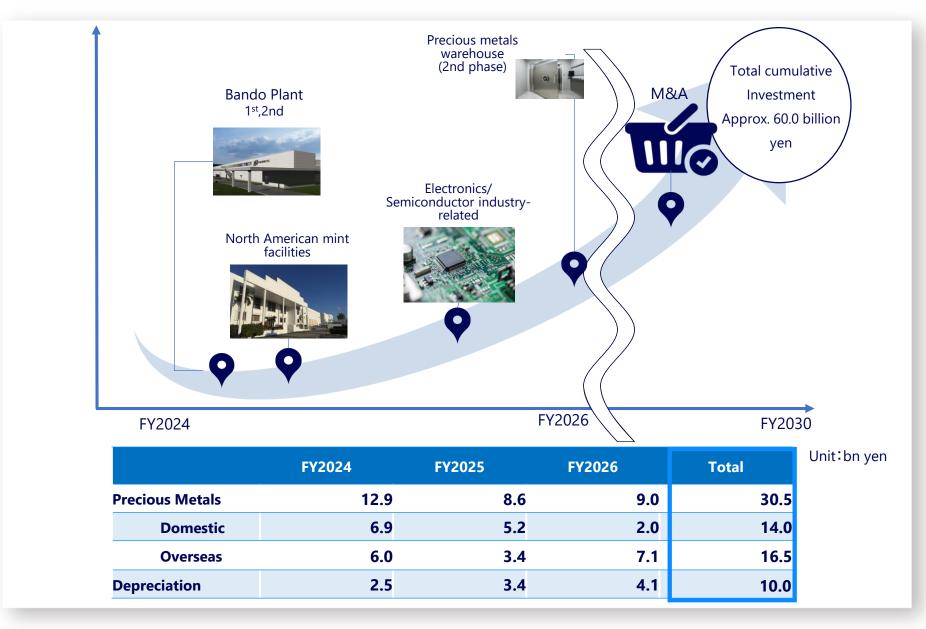
(Revenue and Operating profit) Unit: bn yen FY2023 FY2024 FY2030 **Results** Goals **Forecast** 322.3 370.0 540.0 Revenue Operating 12.4 18.0 38.0 **Profit** Unit: bn yen (Operating profit trend)⁴⁰ 35 **Environmental Preservation** 30 25 North America Refining business 20 15 **Precious Recycle business** 10 5 0 FY2023 FY2030 (Assumptions) Gold Palladium Platinum Rhodium 11,800 yen/g 5,000 yen/g 4,700 yen/g 4,600 \$/toz



Capex•M&A

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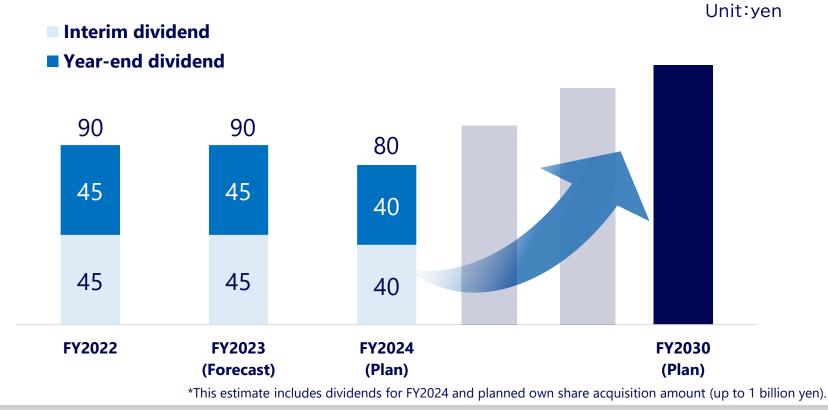




Basic policy:

We aim to maintain a dividend payout ratio of approximately 40%, while retaining sufficient internal reserves for capital investment and M&A for future growth. In addition, we will consider the acquisition of own shares while monitoring financial results, cash position, and share price conditions. FY2024:

We plan to pay an annual dividend of 80 yen per share (payout ratio 46.4%) in FY2024. The total return ratio* is expected to be 54.0%.





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11 Circular Economy - New civilizational values

- Japan : "Proposed Act on Advancement of Recycling Business, etc. for Promotion of Resources Recycling" (MOE)
 "Growth-Oriented, Resource-Autonomous Circular Economy Strategy" (METI)
 Circular Partners Launch
- Global trend: Environmental concerns (CO₂ emissions, etc.) of jewelry brands, etc. and the spread of recycling premiums

Company	Commitments	CO₂ emissions from gold collection
Tiffany	- Use 50% or more recycled precious metal materials by 2025	(t-Co2)
Apple	 Aim to manufacture products using only recycled or recyclable materials Eight products were made of 20% or more recycled materials as of 2021; promoting the use of recycled materials for 14 items that account for 90% of products (18% of materials used were recycled materials as of 2021) 	About 1/10
Microsoft	- Aim to have zero waste by 2030 and to make their devices 100% recyclable by 2030	
BMW	- Announced the use of plastics made of approx. 30% recycled materials from fishing equipment for the interiors/exteriors of their new model, Neue Klasse, scheduled to be launched in 2025	
		From Mines From Recycling

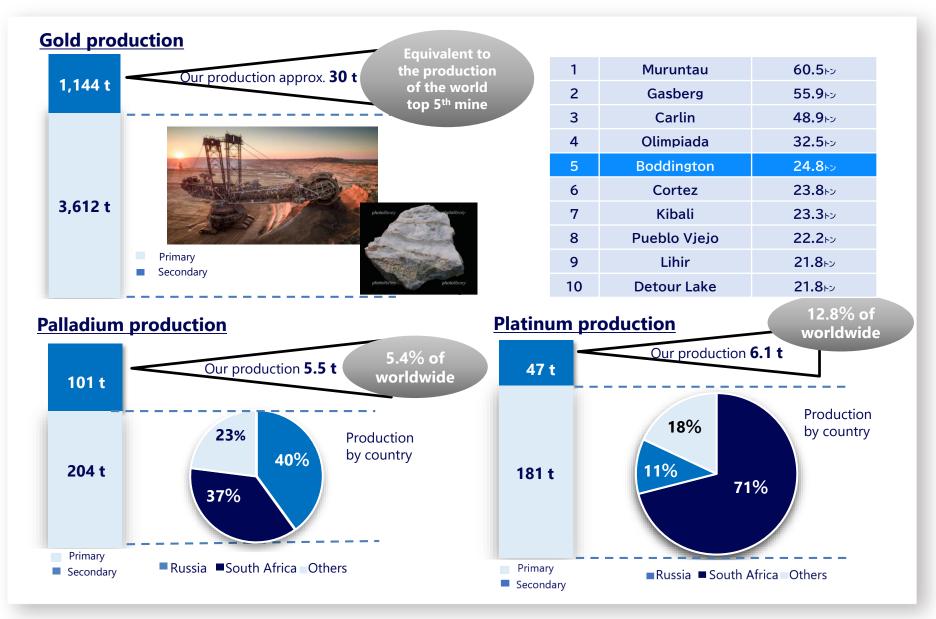
- From jewelry to other industries
- From gold to other resources



Growing consensus on recycled value

12 Superiority of Recycle

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13 Long-term price increases

- With the rise in gold prices, our collection volume has increased by approximately 2.3 times compared to FY2015
- Higher gold prices lead to more recycling opportunities

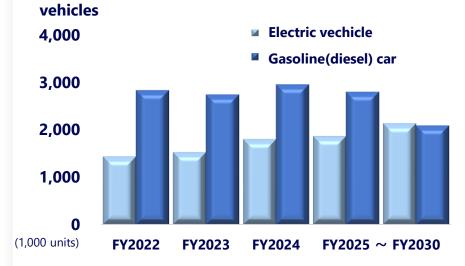


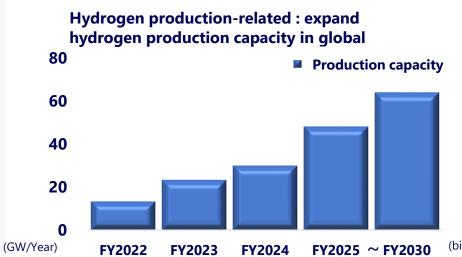
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14 New Recycle market

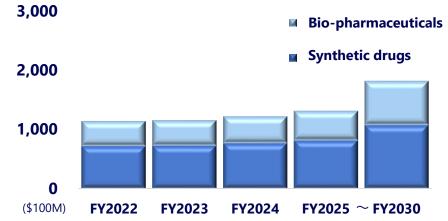
xEV-related : Increase sales of domestic electric

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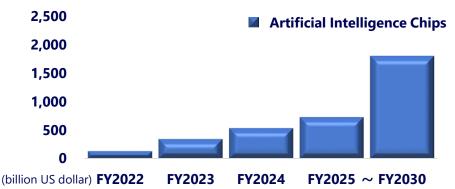




Synthetic Pharmaceutical-related : Expand global market of pharmaceutical



Al·Semiconductor-related : Expand global market of Al chips



Al-Semiconductor-related Source: Estimated by ARE Holdings based on data from Gartner Press Release and newspapers Synthetic Pharmaceutical-related Source: Estimates by ARE Holdings based on data provided by Evaluate Pharma® xEV-related Source: Estimates by ARE Holdings based on data provided by the Japan Automobile Dealers Association Hydrogen production-related Source: Estimate by ARE Holdings based on data from Global Hydrogen Review 2022 by IEA

(World Economic Growth Outlook)

	2022	2023	2024	2025	2026	2029
World	3.5	3.2	3.2	3.2	3.2	3.1
USA	1.9	2.5	2.7	1.9	2	2.1
Japan	1	1.9	0.9	1	0.8	0.4
China	3	5.2	4.6	4.1	3.8	3.3
India	7	7.8	6.8	6.5	6.5	6.5
ASEAN-5	5.5	4.1	4.5	4.6	4.6	4.6

*Created by ARE Holdings based on data from IMF documents.

(Trend of semiconductor production)



(Unit:%)

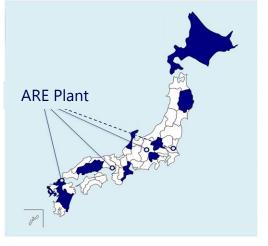
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• Precious metal recycling is a buffer against the risk of an uneven distribution of resources.

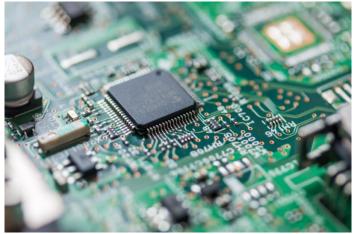
(Uneven distribution of precious metal resources)

Element	Recycling Source (Urban Mines)	Major country of origin (mine)
Platinum	Chemical Catalysts, Fuel Cells, Semiconductors South Africa, Russia	
Palladium	Automotive Catalysts, Pharmaceuticals, Dental	Russia, South Africa
Rhodium	Automotive Catalysts, Thermocouple, Reed Switch South Africa	
Ruthenium	Semiconductors (MRAM), HD, Ammonia Production Russia	
Iridium	Hydrogen production (electrode for electrolysis of H2O)	South Africa

(Semiconductor production returns to Japan)



Location of semiconductor plants



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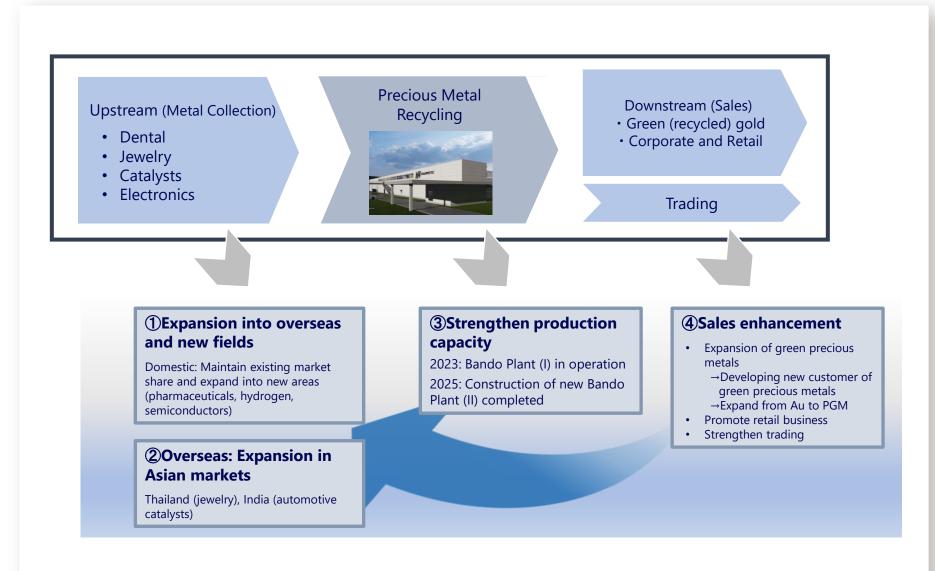
Precious Metal Recycling Business

North American Refining Business Environmental Preservation Business



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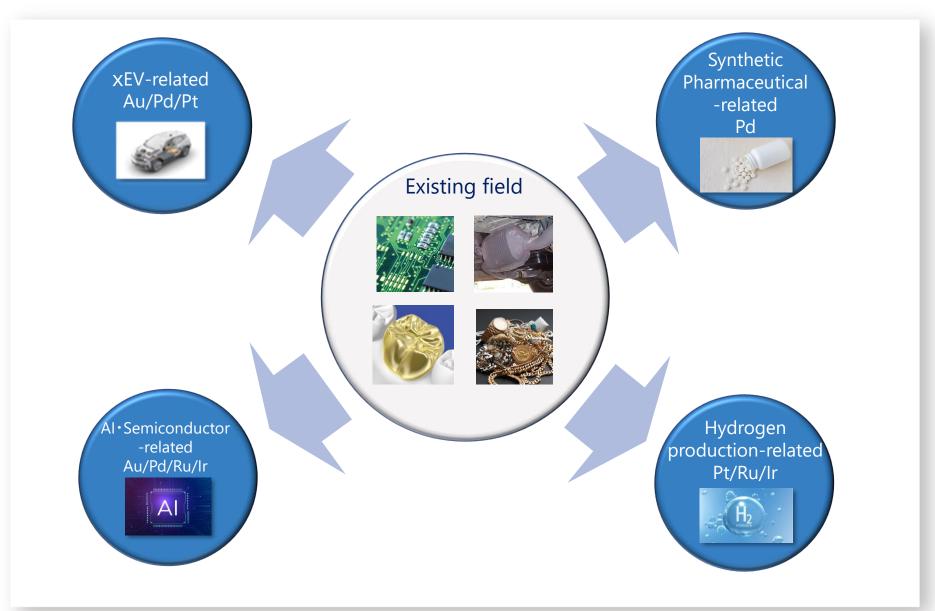
Upstream and Downstream Strategies (Precious Metal Recycling Business)



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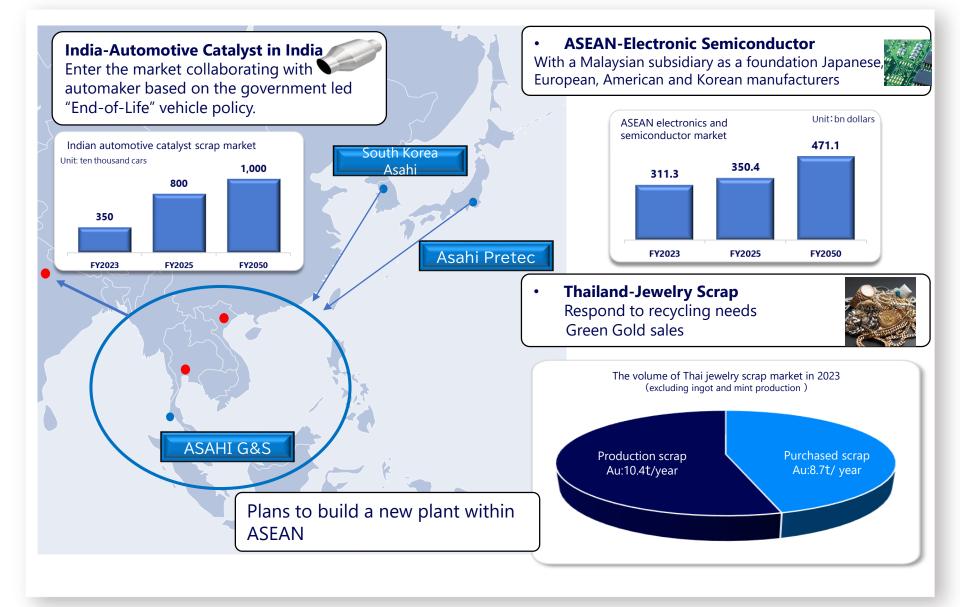
19 Exploring New Fields

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20 Exploring Oversea market





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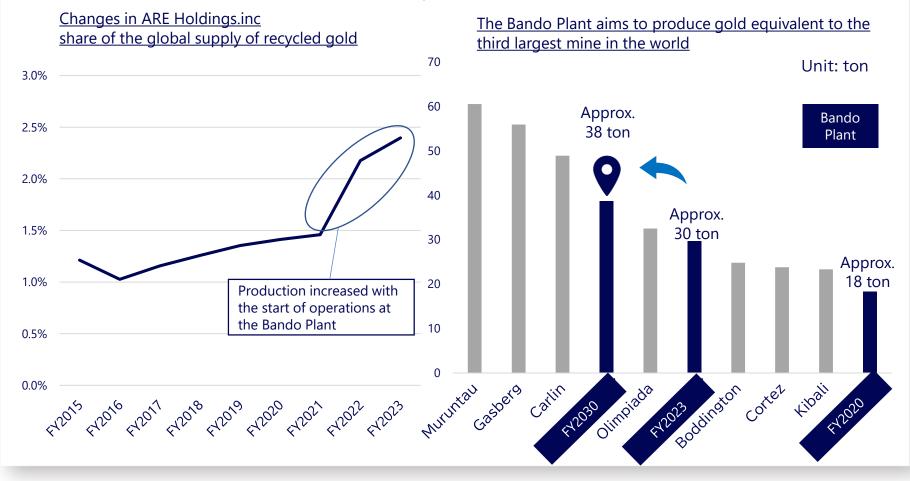
Source: Estimated by ARE Holdings based on data from FOURIN and FORTUNE

Improve production efficiency and increase output

- Gold production has increased dramatically since the Bando 1st plant started operating in 2022
- Demand for green precious metals is strong, especially in the jewelry industry, and production capacity has been increased by revising production processes

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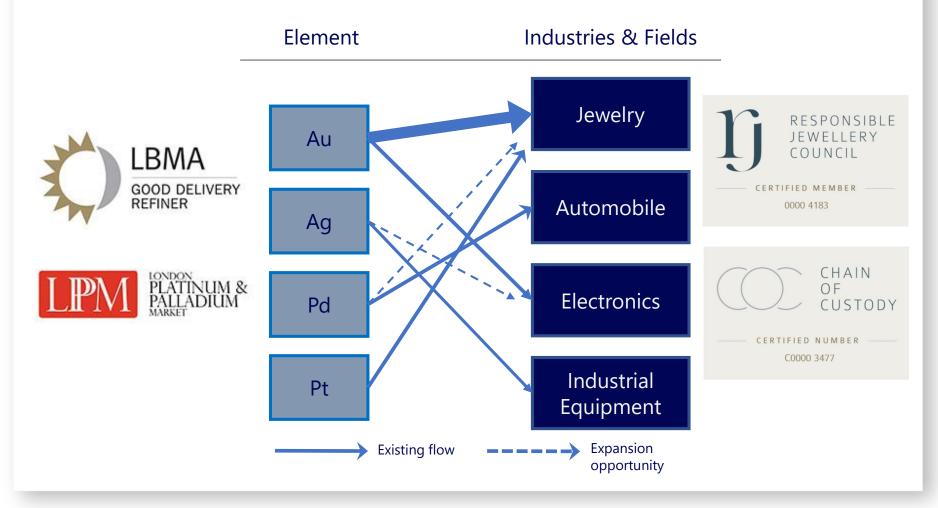
• In the Bando 2nd phase, the recycling processes in the electronics and catalyst fields will be newly consolidated to improve production efficiency



22 Strengthen sales: Expand Green (value-added) precious metals

- ARE has advantages in CO2 emissions reduction, traceability, and international certification
- Expanding into new industries and fields based on the long cultivated trust in our quality, and expanding green added value

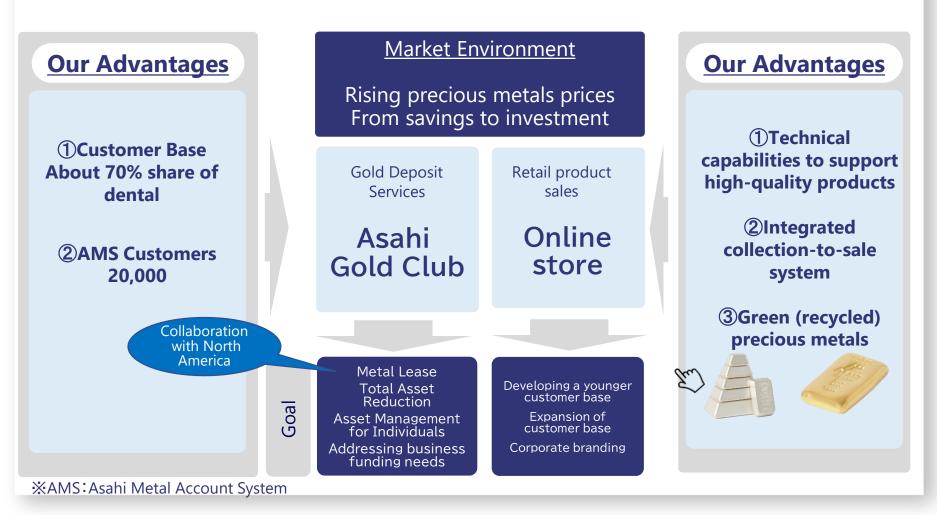
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23 Strengthen sales: Promote retail business

• Build a retail business that leverages our strengths, including our affluent dentist customer base and our integrated collection-to-sale system.

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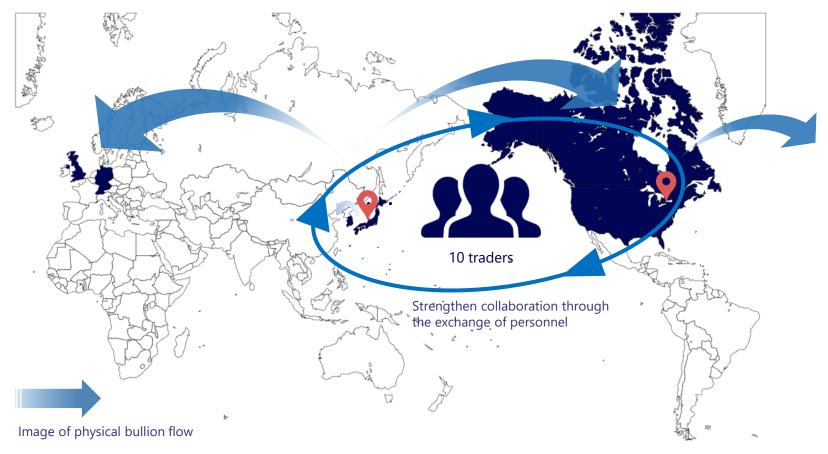


24 Strengthen sales : Enhance trading functions

• Collaborate between trading teams in Japan and Canada to take advantage of global trading markets

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- Take a leap forward from traditional trading that focusing on physical transactions, and seek to expand revenues by enhancing various customer services, such as options trading
- Traders familiar with market practices in Japan, the U.S., and Europe work together to seek global arbitrage opportunities



25 Road map

ARE

	FY2024 - FY2026	FY2027 - FY2030	
	Maintain existing market shares		
Maintain existing domestic market share	Enter advanced areas (semico	nductor, xEV, pharmaceuticals, hydrogen)	
	Build plants in ASEAN countries		
Exploring Oversea market	Cultivate new elements/businesse	es (Ir, Ru, increase items in cleaning area)	
Exploring Oversea market	Consolidate production bases in Ba	ando Plant Phases 1st&2nd; raise efficiency	
Production Capacity Expansion	Create a section overseeing technology development and QCD		
······································		production process sing Al, etc.	
Expand Green (value-added) precious	incl. RJC;	ry, electronics, and automotive catalysts	
metals	market Enhance and research	expand metals handled (Au, Ag, Pd, Pt) Create recycling quotation	
	Start handling	prices g other companies' products for trading	
Promote retail business Enhance trading functions	Start retail depositary & sale business	Address the investment needs of individual assets (e.g. ETF formation) and business funding	

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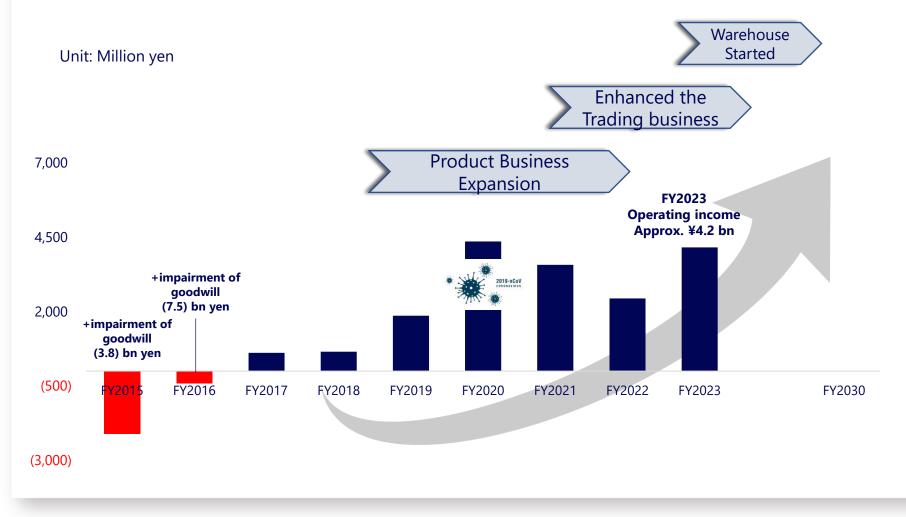


27 North America Performance Turnaround

• Earnings levels have improved since the 2015 acquisition as the company has diversified its business to include products, trading, and precious metal warehousing

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• Targeting further growth with a view to going public

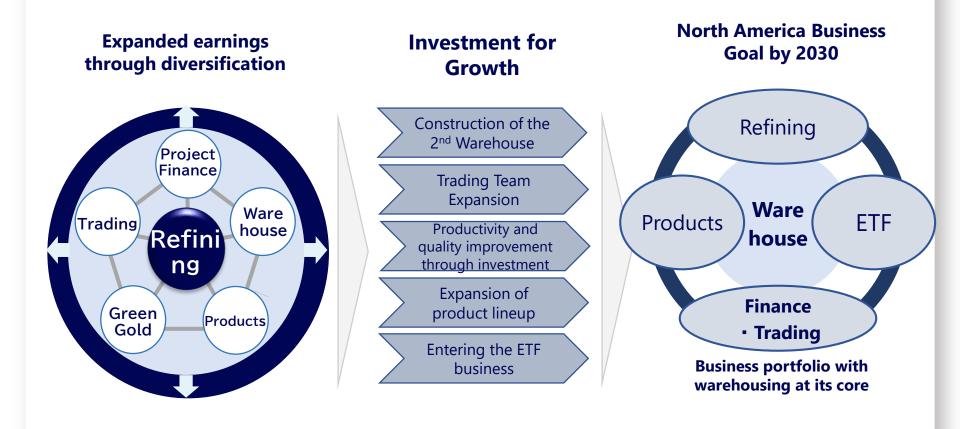


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28 North American Refining Goal



Business structure that positions the warehouse business as the core strategy and going public





Warehousing business, which has a high affinity with the refining and products business, is the source of synergies



Physical gold and silver delivered to vault after refining

Annual refining output Gold: 400 ton Silver: 2,000 ton

> Management of precious metals ETFs and physical precious metals custody

> Asahi Refining ETF business in NA (New)

Receive storage fees by storing gold and silver settled in futures on the COMEX and distributed to the market

> Asahi Depository NY Warehouse Business

Trading Team Toronto, CA Trading

Trading team can make a forward sale and distribute the physical products in the market

Store mint products in NY close to consumption area

Asahi Refining Florida Mint Road map

30

ARE

	FY2024 - FY2026	FY2027 - FY2030
Prepare for listing Accelerate growth towards future listing in North America	Determine the optimal business structure, taking into account listing	Consider listing in North America
Enhance products business	Update silver refining/product processing facilities	Develop industrial silver products
Expand retail product lineup and improve quality to increase orders	Improve/expand retail product lineup	Increase orders received for sovereign coins
Expand financial business Expand trading team capacity to grow new arbitrage ar other business		arbitrage deals, proprietary trading
Downsize balance sheet Reduce borrowings associated with the refining busines and control financial expenses	Downsize balance sheet by improving refining business productivity	
Expand precious metal warehouse business Expand capacity of existing warehouse and promote construction of a second warehouse	Invest in expanding existing warehouse	second warehouse



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Commitment to Environmental Preservation Business



- ARE Holdings has been growing side by side with the development of Japan's industrial waste treatment
- The legal system made marked progress in keeping with the demand of the times and focused on formulation of circular-type society. However, it was unable to fully meet the demands of the society due to the delays in consolidation of scale in the industrial waste treatment industry
- The market size of the circular economy is forecast to reach 80 trillion yen in 2030, and its key is the cooperation between the artery and vein of industries
- The artery of industries is led by large companies with a high market share, while leading mediumsized companies and SMEs are the main players in the vein of industries with the largest company having a market share below 2%
- It is important to create major vein companies like in the U.S. and Europe for promoting the cooperation between the artery and vein of the industry.
- Japan Waste's joining the Renatus Group provides a foothold for creating a major vein player in Japan
- For ARE also, development of Renatus contributes to profit

We will continue with our commitment to the environmental preservation business even after the share exchange of Japan Waste and Renatus

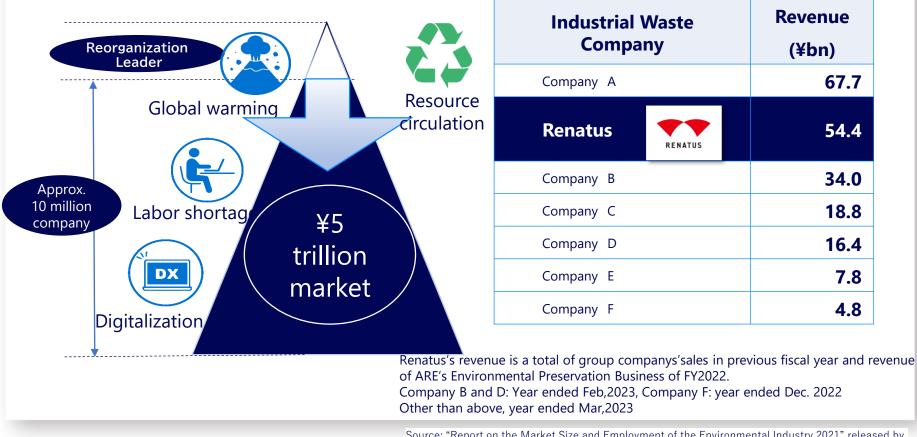
Οι	ur history in the environmental preservation business	Law enactment
1970		Waste Management and Public Cleansing Act
1972	Establishes a facility for detoxifying waste photographic fluid at the Kobe Plant	
1975	Acquires industrial waste disposal license from Kobe City (detoxification of photographic effluent containing harmful substances)	
1978	Registers as an environmental measurement certification office	
1990	Starts the environmental preservation business other than waste photographic fluid	
1992		Act on Promotion of Development of Specified Facilities for the Disposal of Industrial Waste
1993		Basic Act on the Environment
2000		Basic Act on Establishing a Sound Material-Cycle Society
2007	Asahi Pretec establishes the Kitakyushu Office	
2008	Establishes Japan Waste	
2010	Japan Waste opens the Yokohama Office	
2020	Integrates the environmental preservation business of Asahi Pretec and Japan Waste	
2021	Asahi Pretec and Japan Waste merge Ministry of the Environment adopts hydrogen business as a subsidized project Establishes DXE, which promotes environmental DX	
2023	Changes name to Japan Waste	
2024	Share exchange of Japan Waste and Renatus	Act on Promotion of Hydrogen Society

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33 Formation of a foundation for both resource recycling and decarbonization



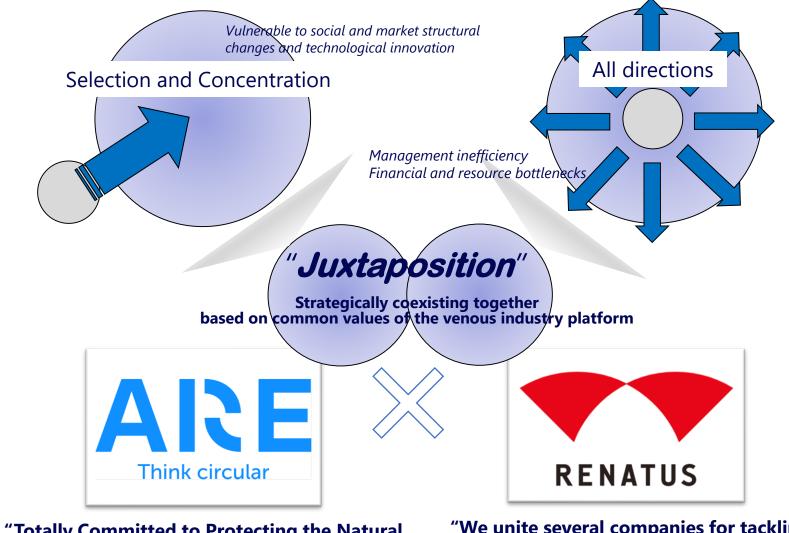
- Cabinet Decision on the "Draft Law on the Promotion of Recycling Enterprises for the Promotion of Resource Recycling"
- Industry restructuring in the huge venous industry is slow
- Aiming for a management base and presence that evolves the venous market



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Source: "Report on the Market Size and Employment of the Environmental Industry 2021" released by the Ministry of the Environment, Japan



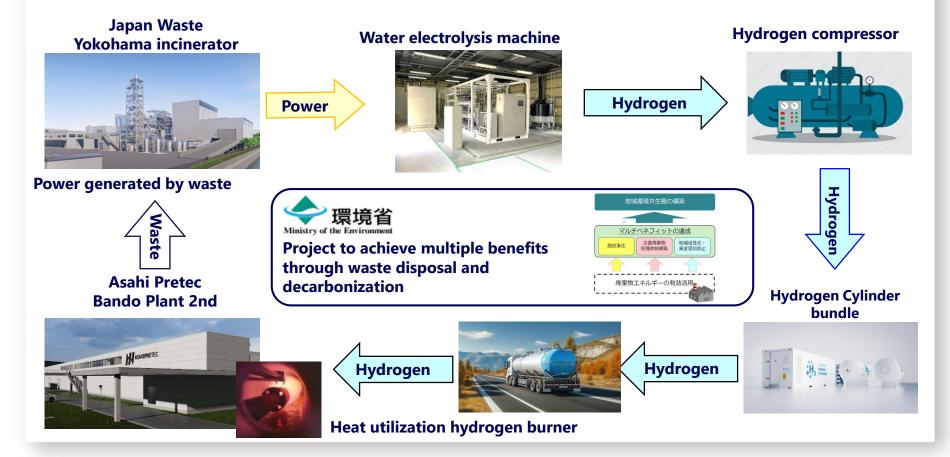


"Totally Committed to Protecting the Natural Environment and Preserving Resources" "We unite several companies for tackling global environment problems"

35 Industry-leading collaboration: (1) Hydrogen business

The Yokohama Plant (Japan Waste) will install equipment to establish a supply chain in 2025. This initiative has been certified as a subsidized project by the Ministry of the Environment. After this system is established, we plan to start external sales to approximately 3,000 incinerators throughout Japan as potential customers.

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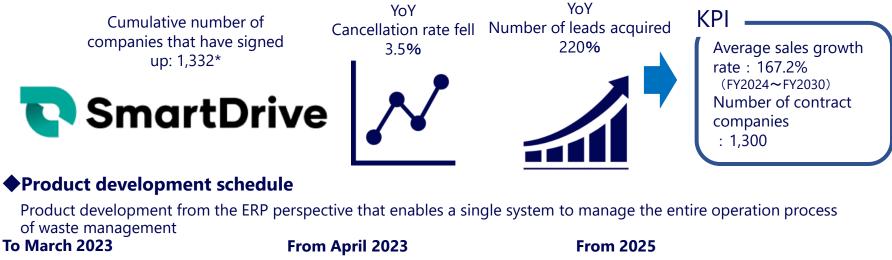


36 Industry-leading collaboration: (2) DX promotion projects



- Agency agreement with SmartDrive on April 3, 2024. Accelerating agency development
- Expand product functionality to broaden customer target
- Increase customer success 4x by 2030 to maximize customer LTV

Build a sales and marketing structure





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*Excerpt from the July-Sept 2024 quarter financial results briefing by SmartDrive Inc.

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ESG

38 ESG Initiatives (Achievements)

ltem	Initiatives/Approach		
E	 Disclosures based on TCFD Has set a target of reducing energy-derived CO₂ by 50% from the FY2015 level by 2030		
(Environmental)	FY2022 reduction was 27% compared to FY2015 Implemented a third-party verification of our Scope 1, 2 and 3 CO₂ emissions in FY2022 CDP Climate Change Rating : A-		
S	 Disclosure of human rights policy and sustainability procurement policy Responsible management of precious metals Promoting workplace diversity including "three-day weekend` model Enhancement to the engagement survey		
(Social)	(to conduct a survey once a year instead of once every three years as in the past)		
G (Governance)	 Company with audit and Supervisory Committee Among the six directors, four are external directors, including two women. Responded the request "Action to Implement Management That is Conscious of Cost of Capital and Stock Price" of TSE [Introduction of TSR-linked stock compensation plan etc 		

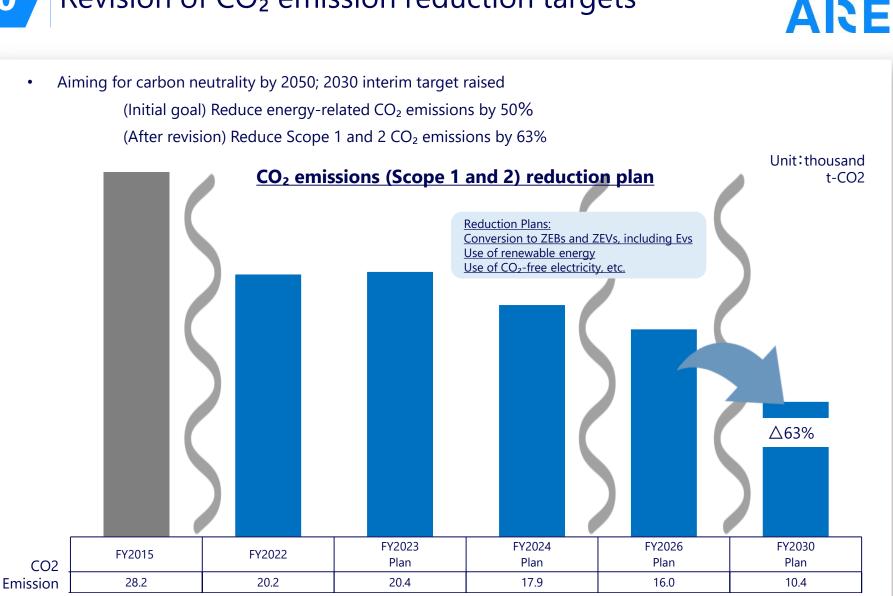
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39 ESG Initiatives (Future Initiatives and Approaches)



ltem	Future initiatives and approaches
E (Environment)	 Raise CO₂ emission reduction target for 2030 (vs FY2015) Before: Reduce CO₂ emissions from energy sources by 50% After: Reduce Scope 1 and 2 CO₂ emissions by 63% Commit ourselves to acquire SBT certification within two years Aim to achieve carbon neutrality (Scope 1 and 2) in 2050
S (Social)	 Secure human resources that reflect changes in the businesses (especially nurturing of global human resources) Strategically strengthen human resources for potential executive candidates Personnel strategy with focus on personnel composition in 2030 Further pursuit of diversity (appointing local staff members to management of local subsidiaries, and participation of women and people with disabilities)
G (Governance)	 Development of risk management structure that reflects changes in the business environment and strikes a good balance between offensive and defensive approaches

40 Revision of CO₂ emission reduction targets



X Consolidated subsidiaries as of March 31, 2024 are included. Companies that have been deconsolidated by the end of March 2024 (including Japan Waste) are retroactively treated up to FY2015.



