

TRE HOLDINGS CORPORATION

(Code: 9247, Prime Market, Tokyo Stock Exchange)

Supplemental materials for the Fiscal Year ended March 31, 2022

Table of Contents



•	Summary of Consolidated Results	P3
•	TRE HOLDINGS CORPORATION	P4
	 Establishment of TRE HOLDINGS CORPORATION 	
	✓ Company Profile	
	✓ Resource Circulation Business Scheme (1), (2)	
	✓ Business Description	
•	FY03/22 Results	P9
	✓ Market Environment	
	 Net Sales and Operating Profit by Segment 	
	✓ Consolidated Cash Flow Trends	
	✓ Capital expenditures, Depreciation	
	✓ FY03/23 Earnings Forecast	
•	Medium-term Business Plan	P16
	✓ Progress of Medium-term Business Plan	
	 Movement in Results and Plans (by Segment) 	
	✓ Progress in Integration Synergies	
	 At End of First Year after Business Integration 	
•	Topics	P23
	✓ Construction Progress at Monzen Clean Park Co., Ltd.	

- ✓ Accelerating Studies of Building a Business Scheme based on The Plastic Resource Circulation Act (enacted April 2022)
- ✓ Circular Economy Initiatives
- Recent Status of Renewable Energy Power Stations and Repair Plans for FY2022
- ✓ Activities Targeting Glass Recycling



Summary of Consolidated Cumulative FY03/22 Results

In the waste treatment and recycling businesses, increased added value and commercialization of transported materials were successful, and in the Resource Recycling business, higher recovery volumes of valuable materials resulting from enhanced sorting and higher market prices for resources helped as well. These factors made substantial contributions to overall earnings, so operating profit reached JPY7.6bn.

	FY03/22		
	Full-year Results	Full-year Forecast	Progress
Net sales	68,234	67,400	101.2%
Operating profit	7,659	7,430	103.1%
Ordinary profit	7,547	7,220	104.5%
Profit attributable to owners of parent	4,742	4,420	107.3%

Dividends		FY03/22
Dividend per share	Ordinary dividend	JPY20.0
	Commemorative dividend	JPY5.0
	Total	JPY25.0

Payout ratio: Over 30%

* Calculating based on dividends of JPY25 per share for results from October 2021- March 2022, plus TAKEEI's interim dividend of 15 yen for Q2 of the fiscal year. The payout ratio is more than 36.1%.

	FY03/22
Earnings per share	JPY110.79

^{*} TRE HOLDINGS CORPORATION was established as a joint holding company on October 1, 2021, and for accounting purposes, TAKEEI CORPORATION is the acquiring company and REVER HOLDINGS CORPORATION is the acquired company. As a result, the consolidated financial results for the current fiscal year (April 1, 2021 to March 31, 2022) reflects the consolidated financial results for April 1, 2021 to March 31, 2022 for REVER HOLDINGS CORPORATION.

^{*} YoY comparisons are not provided as this is the first fiscal year since the establishment of the Company.

^{*} Earnings forecast shows figures revised upward on February 14, 2022.

Establishment of TRE HOLDINGS CORPORATION



Challenges in the macro environment

Earth Global warming

Resource depletion

Plastic pollution

Japan Population decline

Market contraction

Aging infrastructure

Industry Inefficient management
Low reliability
Succession issues

Social needs

Realization of a highly advanced and sound material-cycle society

Realization of a zero-carbon society

Our response

Two companies sharing the same passion for the global environment decided to come together to jointly invest capital and boost efficiency.

On October 1, 2021, TAKEEI CORPORATION and REVER HOLDINGS CORPORATION established a joint holding company with the aim of leveraging all economic resources to create synergies.





Company Profile

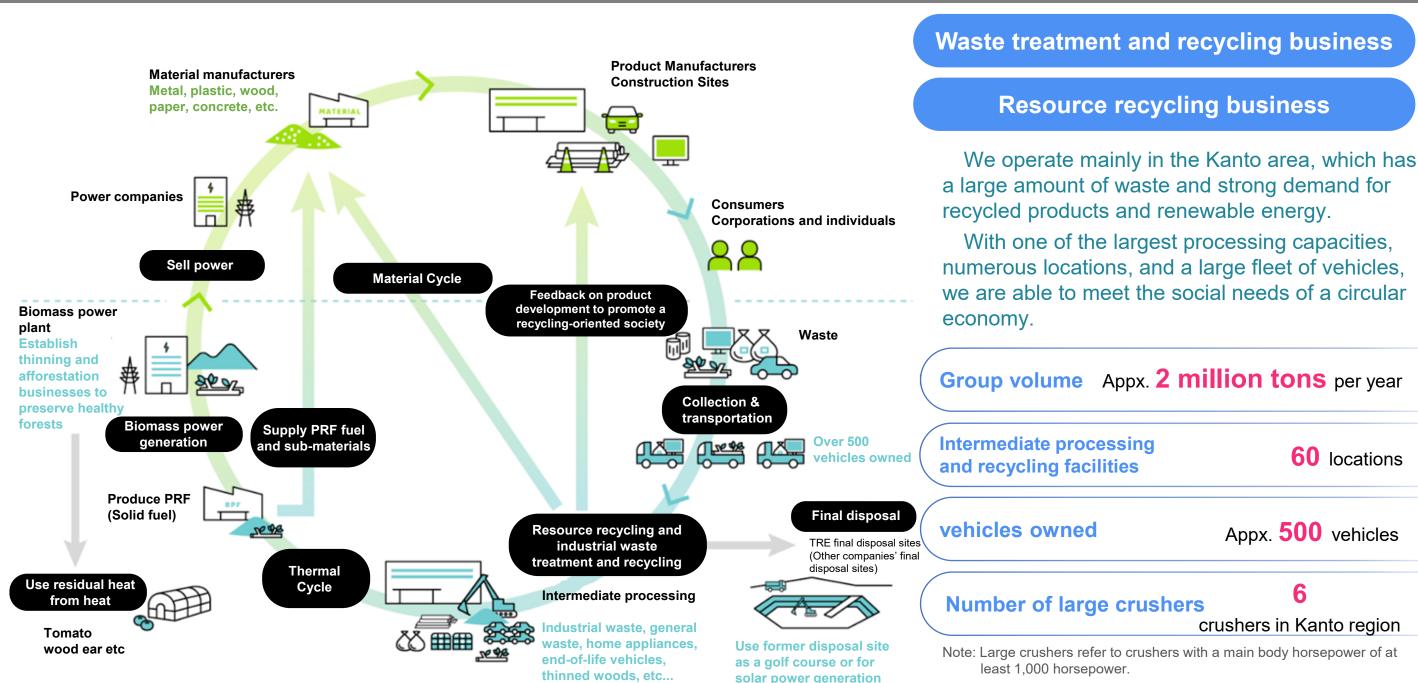


Corporate Philosophy	To contribute to the preservation of the global environment.
Establishment	October 1, 2021
Headquarters	Chiyoda-ku, Tokyo
Representative Directors	Naoto Matsuoka, Chairman and CEO Mitsuo Abe, President and COO
Capital stock	JPY10.0 billion
Number of employees	2,103 employees (on a consolidated basis)
Group Businesses	Waste treatment and recycling, resource recycling, renewable energy, environmental engineering, environmental consulting
Subsidiaries, etc.	39 subsidiaries, 6 equity-method affiliates
Number of locations	60 locations in Tokyo metropolitan area as well as Tohoku, Hokuriku, Koshin and Kansai regions, 1 overseas location in Thailand
Key customers	Major construction companies, home builders, major steel companies, trading companies, etc.

As of End-December 2021

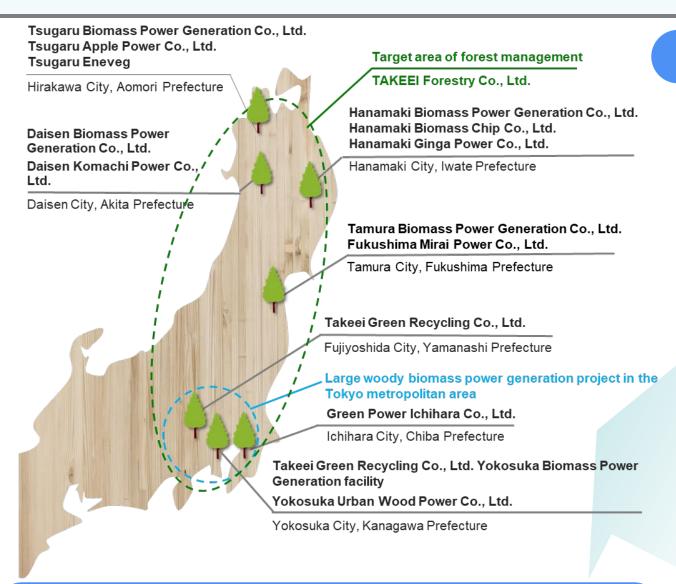
Resource Circulation Business Scheme (1)





Resource Circulation Business Scheme (2)





Environmental Engineering & Environmental Consulting businesses

As for other business segments, we operate an environmental engineering business that plans, manufactures, and sells environmental equipment, and an environmental consulting business that conducts measurement certification operations, environmental protection work and investigates, and analyzes hazardous waste.

Renewable Energy business

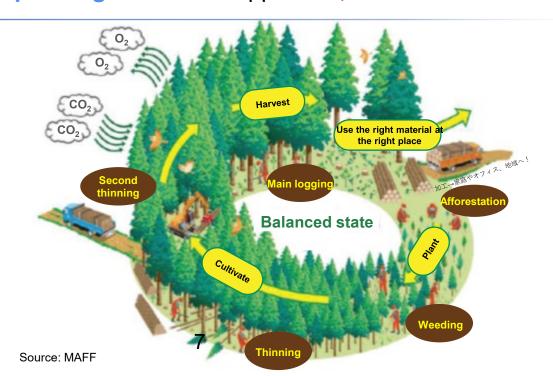
RPF: A solid fuel made mainly from waste paper and plastics. It is high in calories and emits less CO2 than fossil fuels.

We operate four woody biomass power plants centered on eastern Japan, mainly in the Tohoku region using unused forest resources such as thinned wood and logged wood as fuel, and two plants in the Kanto region using scrap wood and some RPF as fuel.

In addition, we are strengthening our efforts in forest management (planning, staged logging, and afforestation) and promoting the expansion of our renewable energy business where resource circulation is viable.

Annual woody biomass volume: 600,000 tons RPF: 50,000 tons

Annual power generated: Appx. 661,320 MWh



Business Description



Waste treatment and recycling

We collect and transport industrial waste from construction sites, and crush, sort, remove foreign matter, and compress it at recycling plants.

In particular, we are strengthening our efforts to commercialize construction materials and gypsum board through intermediate processing, as well as to convert paper waste and waste plastic into solid fuel (RPF), and to manufacture steel sub materials (Eco-Foam) using dust.

In addition, we carry out intermediate processing and recycling of liquid waste, scrap, ash, etc., and final landfill disposal of residues and other materials that cannot be recycled.

Collection & Transportation

Waste treatment (construction-related)

Recycling

Landfill (final disposal)

Metal

Scrap

Collection &

Transportation

Sell products and valuable resources

Final disposal

Resource recycling

We purchase rebar and steel frames from demolition sites, scrap wood from production plants, and end-of-life vehicles, and shear, compress, and crush them. We also accept waste home appliances (air conditioners, TVs, refrigerators, washing machines), small home appliances, and used furniture and fixtures from home improvement stores and convenience stores for manual dismantling, crushing, and sorting.

Metal recycling

Automobile recycling

Home appliance recycling

Waste treatment (metal)

Shearing & Compression

(Note 1)

Crushing (Large crusher)

RPF(Note 2)

Recycling

Sell valuable resources

Renewable energy

We generate woody biomass power using unused wood from thinned forests and branches as fuel, and produce fuel for power generation.

We are also strengthening our efforts in forest management (planning, staged logging, and afforestation).

Forest Management

Woody biomass power generation, etc.

Power retailing

Thinned wood & branches

Wood chip production

Sorting

Sorting &

Crushing

RPF (Note 2)

raw material

Power Generation

Heat utilization

Sell power

8

Other

We provide measurement certification services, environmental protection work, and investigation and analysis of hazardous waste. We also develop, manufacture, and sell environmental equipment, plants, and special-purpose vehicles.

Environmental Consulting

Environmental Engineering

Research & Analysis

Planning, manufacturing & sales Environmental protection work

Note 1: Use former disposal site as a golf course or for solar power generation

Note 2: RPF is a solid fuel made mainly from recycled paper and waste plastics. It is high in calories and emits less CO2 than fossil fuels.

FY03/22 Results

Market Environment

Net Sales and Operate Profit by Segment

Consolidated Cash Flow Trends

Capital expenditures, Depreciation

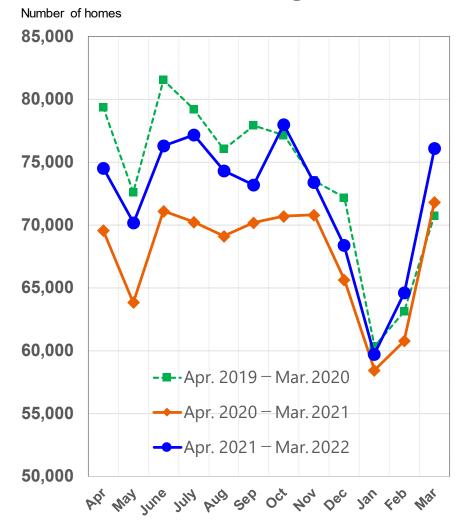
FY03/23 Earnings Forecast

FY03/22 Results



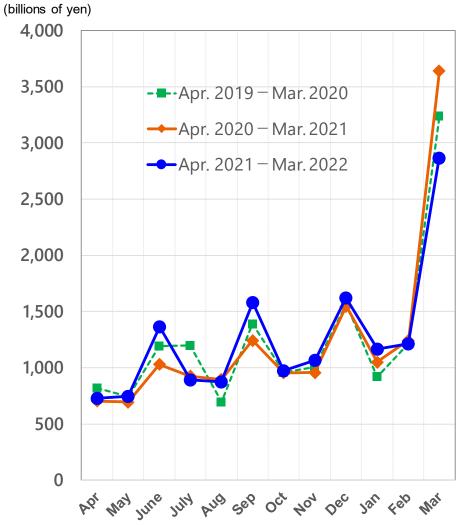
Market Environment

■Number of New housing starts



The market has continued recovering, each month saw YoY increases, aided by consumers' high interest in the living environment resulting from the COVID-19 pandemic.

■ Construction orders (50 largest companies)



Amid strong movement, but orders fell YoY from February onward, and dropped 21.2% YoY in March.

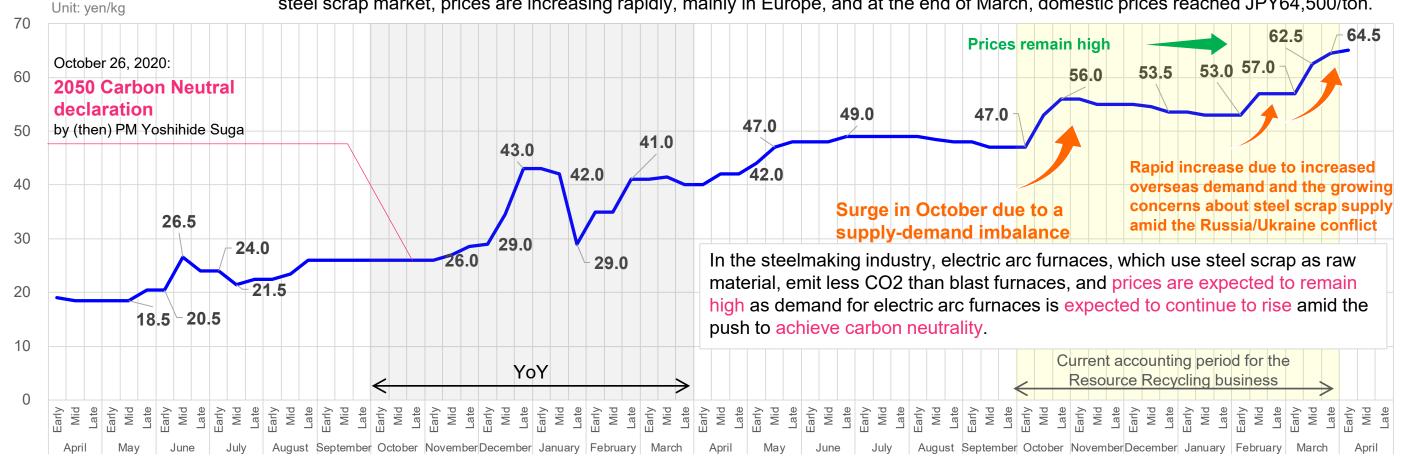
There are concerns about the effects of rapidly increasing material prices and other factors.



Market Environment

■Steel Scrap Market

Steel scrap prices were at JPY47,000/ton (Tokyo Steel Utsunomiya Plant high grade price) at the beginning of October 2021, but skyrocketed to JPY56,000/ton by the end of the month due to a combination of sluggish steel scrap collection volume and higher demand from steelmakers. After that, prices fell gradually, adjusting the gap between domestic and export prices, but since February of 2022, in addition to increasing domestic prices driven by the rapid increase in export prices due to growing overseas demand, the conflict between Russia and Ukraine has led to increasing concerns about supply of iron and steel products from both countries. In the steel scrap market, prices are increasing rapidly, mainly in Europe, and at the end of March, domestic prices reached JPY64,500/ton.



2020 2021 2022



Cumulative Net Sales and Operating Profit by Segment

(millions of yen)

	FY03/22 Full-year results		
	Net sales	Operating profit	Operating profit margin
Consolidated	68,234	7,659	11.2%
Waste treatment and recycling (Note 1)	25,146	5,113	20.3%
Resource recycling (Note 2, 3)	24,068	2,787	11.6%
Renewable energy (Note 4)	12,617	(305)	_
Other businesses (Note 1, 5)	7,102	441	6.2%
Adjustments (Note 6)	(700)	(376)	_

- Note 1: The Accounting Standard for Revenue Recognition, etc. has been applied from the beginning of Q1 FY03/22.
- Note 2: For the resource recycling business, the consolidated results of REVER HOLDINGS CORPORATION, which is the acquired company for accounting purposes in the business integration, reflect only the results for the six-month period from October 1, 2021 to March 31, 2022.
- Note 3: The resource recycling business includes JPY90 million of goodwill related to the business integration for the six months from October 1, 2021 to March 31, 2022.
- Note 4: The renewable energy business includes JPY376 million of goodwill associated with the acquisition of Green Power Ichihara Co., Ltd.
- Note 5: Other businesses consist of the environmental consulting business and the environmental engineering business.
- Note 6: Adjustments to segment income and loss of -JPY376 million include -JPY383 million in companywide expenses that are not allocated to any reportable segment. Companywide expenses are general and administrative expenses that do not fall under any reportable segment.

Waste treatment and recycling

- Profitability initiatives were successful; e.g., Enhanced sorting of valuable materials, and higher added value and commercialization of transported materials.
- In the gypsum board recycling business, transported volumes increased due to growth in new construction and demolition projects.

Resource recycling

 Gains on sales of metals processed and sorted from waste increased due to continued high market prices and the growing spread (profit margin) amid rapidly increasing steel scrap market prices.

Renewable energy

- Despite a steady trend in stable operation systems, some operating rates declined due to temporary repair works and an earthquake in March.
- Five electric power retailers were affected by high prices of LNG and other resources as well as increased purchase prices during the cold winter, but worked to mitigate the decline in profits in part by sales of electricity from power sources not subject to the Feed-in Tariff scheme.

FY03/22 Results



Consolidated Cash Flow Trends

millions of yen)

	FY03/22
Cash flows from operating activities	11,017
Cash flows from investing activities	(2,149)
Cash flows from financing activities	(3,700)
Net increase (decrease) in cash and cash equivalents	5,167
Cash and cash equivalents at beginning of period	10,282
Increase in cash and cash equivalents resulting from stock transfer	8,564
Cash and cash equivalents at end of period	24,014

■ Main Breakdown

Cash flows from operating activities	FY03/22
Profit before income taxes	7,662
Depreciation	5,016
Amortization of goodwill	476
Income taxes paid	(2,657)
Cash flows from investing activities	FY03/22
Income from national subsidies	1,459
Purchase of property, plant and equipment	(4,395)
Cash flows from financing activities	FY03/22
Increase (decrease) in short-term borrowings	(3,866)
Proceeds from issuance of bonds	6,963
Redemption of convertible bonds	(596)
Proceeds from long-term borrowings	38
Repayments of long-term borrowings	(5,208)
Dividends paid	(839)

FY03/22 Results



Capital expenditures and Depreciation

	(millions of yen)		
	FY03/22 Full-year results (Note 1)	FY03/23 Full-year Forecast	
Capital expenditures	4,395	12,547	
Depreciation	5,016	6,189	

Note 1: Consolidated results of REVER HOLDINGS CORPORATION, which is the acquired company for accounting purposes in the business integration, reflect only the results for the six-month period from October 1, 2021 to March 31, 2022.

Main	canital	expenditures
IVIAIII	Capital	expenditures

		Full-year	Plan
	Renewal of equipment and vehicles,		
TAKEEI CORPORATION	expansion of disposal sites, etc.	¥1.17 billion	2.1 billion
Monzen Clean Park Co., Ltd.	Disposal site development work	¥390 million	1.4 billion
	Newly installed dedicated line for		
REVER CORPORATION	electronic waste.	¥250 million	250 million
EQUAL ZERO Inc.	Renewal of equipment and vehicles	¥180 million	300 million
Takeei Green Recycling Co., Ltd.	Renewal of equipment and vehicles	¥110 million	300 million
	Installation of intermediate		
Hanamaki Biomass Chip Co., Ltd.	processing facilities, etc.	¥190 million	300 million

TRE Group Basic Policies on New Investments

- We will actively promote capital investment on facility improvements to implement advanced sorting and recycling technologies at each Group company, as well as to secure new locations, which will contribute to the realization of a circular economy. We will build a recycling business scheme targeting scrap plastic recycling and scrap solar panel recycling in particular.
- We will promote capital investment to increase the amount of renewable energy generation from non-fossil fuels, as well as research and development to build a recycling scheme that takes CCUS (Note 2) into consideration, in order to contribute more directly to a carbon-free society.
- We will promote DX to increase visibility of CO2 emissions in business activities, and strengthen proposal capabilities that tie into customers' contributions to a carbon-free society.

■ Main capital expenditures (plan)

		Plan
Monzen Clean Park Co., Ltd.	Disposal site construction etc.	3.68 billion
TAKEEI CORPORATION	Facility/vehicle upgrades, disposal site	3.5 billion
Shinshu Takeei Corporation	Facility/vehicle upgrades	490 million
REVER CORPORATION	Sorting line enhancements, etc.	410 million
Green Power Ichihara Co., Ltd.	Machinery parts replacement, etc.	310 million
Fuji Car Manufacturing Co., Ltd.	Facilities/software upgrades	300 million

Note 2:
CCUS is a generic term for carbon capture and storage (CCS), a technology that separates and captures CO2 to be injected and stored in underground, and carbon capture Utilization (CCU), a technology that reuses the captured CO2 for fuel production and chemical products.

FY03/23 Earnings Forecast



FY03/23 Earnings Forecast

(millions of yen)

	FY03/22			FY03/23		
	(Note 1)				1H	2H
	(Full-year results)	(Full-year Forecast)	vs. sales	YoY	(Forecast)	(Forecast)
Net sales	68,234	94,200	_	+38.1%	45,500	48,700
Operating profit	7,659	9,300	9.9%	+21.4%	3,800	5,500
Ordinary profit	7,547	9,300	9.9%	+23.2%	3,800	5,500
Profit attributable to owners of parent	4,742	5,900	6.3%	+24.4%	2,400	3,500

Note 1: The consolidated financial results reflect the consolidated financial results for April 1, 2021 to March 31, 2021 for TAKEEI CORPORATION and the consolidated financial results for October 1, 2021 to March 31, 2022 (Q2 and Q3) for REVER HOLDINGS CORPORATION.

Waste treatment and recycling

- Expect continued impact from profitability improvement initiatives; e.g., enhanced sorting of valuable materials, etc.
- Expect cost-reduction impact from capital investments in added value and commercialization of waste materials

Resource recycling

- Expect a decline in resources received due to sluggish automotive production amid the semiconductor shortage, and a decline in waste home appliances because demand for replacement appliances has been moved up as more people stay at home.
- Expect a decline in sales and profit due to limited operations in building reconstruction at REVER CORPORATION Fujisawa Office.
- Planned selling unit price is JPY55,000/ton.
 Expect a temporary increase due to Russia/Ukraine conflict.

Renewable energy

- Expect a decline in operating days due to statutory inspections at Green Power Ichihara Co., Ltd., Hanamaki Biomass Power Generation Co., Ltd., Daisen Biomass Power Generation Co., Ltd., and Tamura Biomass Power Generation Co., Ltd.
- At Takeei Green Recycling Co., Ltd., expect an increase in electricity sales unit prices due to increase in biomass ratio.

Progress of Medium-term Business Plan (Review of 2nd and 3rd year numerical targets)

Progress of Financial Targets

Movement in Results and Plans (by Segment)

Progress in Integration Synergies

At End of First Year after Business Integration



Progress of Medium-term Business Plan (Review of 2nd and 3rd year numerical targets)

	Results				Plan						
	FY03/21	First year	r of Medium	Medium-term plan (FY03/22)			Second year of Medium-term plan (FY03/23) Third year of Medium-term plan (
	Full-year results	Full-year results	YoY	First year of Medium-term plan		- Second year of		Change	Third year of Medium-term plan	Third year after review	Change
	(Note 1)	(Note 1, 2)		(Note 4)	Progress	Medium-term plan	forecast (Note 2)				
Net sales	73,470	90,584	+23.3%	89,700	101.0%	90,000	94,200	+4.7%	92,000	98,000	+6.5%
Operating profit	6,727	10,326	+53.5%	10,100	102.2%	8,400	9,300	+10.7%	9,000	10,150	+12.8%
Operating profit margin	9.2%	11.4%	+24.5%	11.3%	101.25%	9.3%	9.9%	+5.8%	9.8%	10.4%	+5.9%
Profit attributable to owners of parent	4,084	7,248	+77.5%	6,930	104.6%	5,460	5,900	+8.1%	5,890	6,440	+9.3%
Earnings per share (Note 3)	_	¥141.1	-	¥131.7	107.1%	¥106.3	¥114.8	+8.0%	¥114.6	¥125.3	+9.3%

As we presented earnings that far exceeded the medium-term plan announced in October 2021, we made an upward adjustment in the plan's first year forecast in February 2022, but we deferred reviews of the second and third year forecasts, because it was only the first year since the integration, and because of uncertainties around the pandemic.

Here, we have reviewed numerical targets for the second and third years, taking into account the current conditions, including rapidly increasing material market prices.

- Note 1: Results for the merged companies, TAKEEI CORPORATION and REVER HOLDINGS CORPORATION, for the period from April to March of the following year, have been combined to make YoY comparisons.
- Note 2: Forecasts for operating profit include impact from goodwill related to the business integration (JPY90 million for FY03/22, and JPY180 million for FY03/23 onward).
- Note 3: Earnings per share is calculated based on 51,362,030 shares, which is the number of issued shares at the end of FY03/22 minus the number of treasury shares at the end of the same year, to facilitate understanding of the actual progress of the medium-term business plan.
- Note 4: Forecasts for the first year of the medium-term management plan have also been adjusted upward based on the full-year consolidated earnings forecast disclosed on February 14, 2022.



Progress of Financial Targets



^{*1.} Calculated for the period of FY03/22. (April 1, 2021 to March 31, 2022 for TAKEEI CORPORATION; October 1, 2021 to March 31, 2022 for REVER HOLDINGS CORPORATION)

^{*2.} Calculated for the 1st year of the Medium-term Business Plan. (April 1, 2021 to March 31, 2022 for both TAKEEI CORPORATION and REVER HOLDINGS CORPORATION)



Movement in Results and Plans (by Segment)

		FY03/21 FY03/22 FY03/23					FY03/24		
		(Actual) (Note 1)	(Actual) (Not		(Forecas		Third year of Mediun		
		Apr. 2020-Mar. 2021	Apr. 2021-Mar. 2022	YoY	Apr. 2022-Mar. 2023	YoY	Apr. 2023-Mar. 2024	YoY	
Consolidated	Net sales	73,470	90,584	+23.3%	94,200	+4.0%	98,000	+4.0%	
	Operating profit	6,727	10,326	+53.5%	9,300	- 9.9%	10,150	+9.1%	
	Operating profit margin	9.2%	11.4%	+24.5%	9.9%	—13.4%	10.4%	+4.9%	
Waste treatment and	Net sales	24,738	25,146	+1.6%	25,829	+2.7%	27,028	+4.6%	
ecycling	Operating profit	3,468	5,113	+47.4%	4,786	- 6.4%	4,836	+1.0%	
	Operating profit margin	14.0%	20.3%	+45.0%	18.5%	— 8.9%	17.9%	— 3.4%	
Resource recycling	Net sales	31,408	46,418	+47.8%	47,100	+1.5%	49,500	+5.1%	
(Note 1, 2)	Operating profit	2,660	5,454	+105.0%	4,361	— 20.0%	4,791	+9.9%	
	Operating profit margin	8.5%	11.7%	+38.7%	9.3%	— 21.2%	9.7%	+4.5%	
Renewable energy	Net sales	11,457	12,617	+10.1%	14,088	+11.7%	15,151	+7.5%	
	Operating profit	325	(305)	_	388	_	865	+122.9%	
	Operating profit margin	2.8%	_	_	2.8%	_	5.7%	+107.3%	
Other businesses	Net sales	6,828	7,102	+4.0%	7,893	+11.1%	8,841	+12.0%	
	Operating profit	349	441	+26.4%	420	- 4.8%	753	+79.3%	
	Operating profit margin	5.1%	6.2%	+21.5%	5.3%	— 14.3%	8.5%	+60.1%	
Adjustments	Net sales	(962)	(700)		(710)		(2,520)		
	Operating profit	(76)	(376)		(655)		(1,095)		

- Note 1: Results of REVER HOLDINGS
 COPORRATION for the period from
 April to March of the following year
 are included in the resource
 recycling business, using the same
 method as the medium-term
 business plan targets, to facilitate
 understanding of the actual progress
 of the medium-term business plan
 and YoY comparisons.
- Note 2: Figures for the Resource Recycling business include impact from goodwill related to the business integration (JPY90 million for FY03/22, and JPY180 million for FY03/23 onward).
- Note 3: The renewable energy business includes JPY376 million in goodwill associated with the acquisition of Green Power Ichihara Co., Ltd.

19



Other businesses

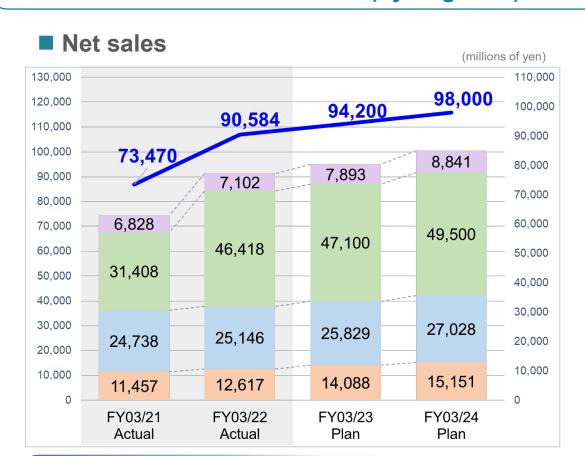
Resource recycling

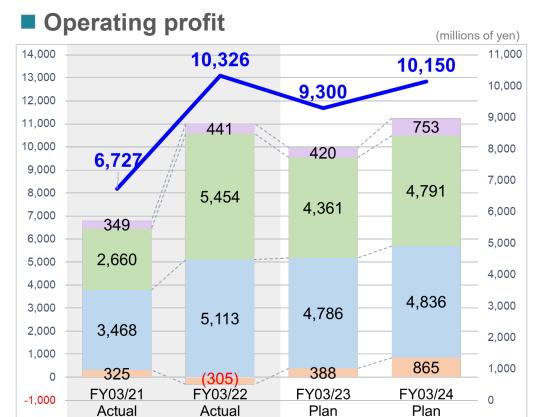
Renewable energy

Consolidated

Waste treatment and recycling

Movement in Results and Plans (by Segment) *FY03/21 and FY03/22: "Results"; FY03/23 and FY03/24: "Plan"





Renewable energy

- FY03/23: Expect establishment of stable operation systems at six biomass power plants.
- Expect change in biomass ratio at Takeei Green Recycling Co., Ltd..
- FY03/24: Expect improved profitability through review of maintenance systems at electric power retailers and power plants.

Waste treatment and recycling

- FY03/23: Expect decline in profits due to the end of disaster waste treatment support business in Fukushima and Nagano. TAKEEI CORPORATION to continue enhancing RPF and other manufacturing structures at recycling plants.
- FY03/24: Expect start of Monzen Clean
 Park Co., Ltd. to contribute to results.

Resource recycling

- Planned selling unit price is JPY55,000/ton.
- FY03/23: Expect slowdown in automobile production, decline in waste home appliances, limitations on operations at REVER CORPORATION Fujisawa Office, and increased depreciation from capital investments.
- FY03/24: Regular operations at REVER CORPORATION Fujisawa Office.



Progress in Integration Synergies

Reviewed figures in Plan, but continued to promote basic strategies.

Expand recycling business

- Promote creation of solar panel and automotive glass recycling business, where recycling needs are growing.
- Promote facilities improvements, and implement concepts for advanced sorting facilities.
- Add value to and commercialize unused resources (RPF, steelmaking submaterials, etc.)

Promote energy business

- Strengthen efforts to create forest management business that is open and useful to surrounding communities. Promote use of residual heat in agriculture.
- Expand supply of renewable power, including from our own power sources
- Promote plans for thermal waste utilization facilities in the Tokyo metropolitan area.

Develop technologies (establish business models)

- Establish a waste plastic recycling business scheme
- Explore new recycling business plans centered on technological development

Sustainability Management

- Promote transparency of CO2 emissions from business activities and risk response scenario analysis.
- All directors work together in contributing to achieving SDGs.

<Image of growth based on Medium-term Business Plan>

TRE Group

Promote waste power generation

Recycle unused resources

Collaboration

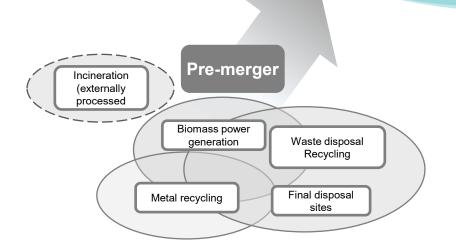
with RE100

companies

Technology development Rare metal collection Solar panel recycling Cross-selling New business

Boost RPF production

Establishment of new controlled waste disposal facilities Contribute to achieving the SDGs





At End of First Year after Business Integration

Formed a project team for disclosure of the integrated report

The TRE Group formed a cross-functional project team for the disclosure of the integrated report, in keeping with a proposal from the Task Force on Climate-related Financial Disclosures (TCFD). We have identified "materialities" for contributing to ESG management and to achieving SDG targets, identified medium and long-term risks and opportunities, and identified items for key sustainability activities. At the same time, we are preparing various types of data for disclosure.

Activities of the TAKEEI Foundation for SDGs Promotion and change of name to "TRE HOLDINGS Foundation for SDGs Promotion"

Through the TAKEEI Foundation for SDGs Promotion, in FY03/22, we participated in the "Minato Ward Cleanup Campaign" hosted by Minato Ward, Tokyo, and also contributed to the Humanitarian Crisis Relief Fund for Ukraine via the Japan Red Cross Society.

The name of this Foundation will be changed to the "TRE Foundation for SDGs Promotion," so that the TRE Group can carry on and expand these activities. We will continue to contribute to achieving SDG targets, and conduct activities that will tie into increased awareness of the environment and human rights among all TRE Group employees.

The TRE Group's disaster support

The TRE Group was involved in business supporting the treatment of waste and refuse arising from Typhoon No.19, which struck in October 2019, mainly through EQUAL ZERO Inc. During FY03/23, we will continue to contribute to the Great East Japan Earthquake Fukushima Recovery Project, and to leverage the experience that we have accumulated in various regions.

Membership in Japan Disaster Treatment Systems (http://jdts.or.jp/) will be switched from TAKEEI to TRE HOLDINGS, as the TRE Group actively undertakes disaster support activities.

Topics

Construction Progress at Monzen Clean Park Co., Ltd.

Accelerating Studies of Building a Business Scheme based on The Plastic Resource Circulation Act (enacted April 2022)

Circular Economy Initiatives

Recent Status of Renewable Energy Power Stations and Repair Plans for FY2022

Activities Targeting Glass Recycling

23

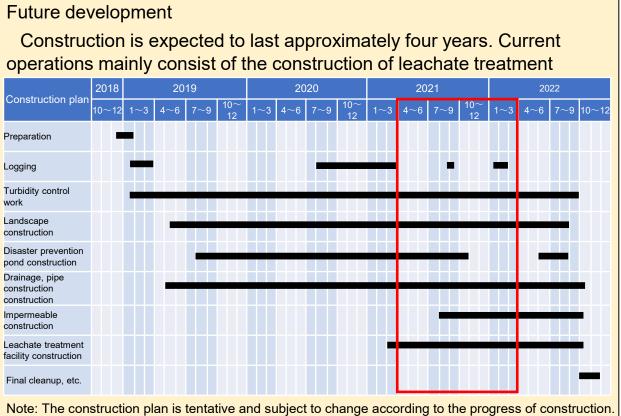


Construction Progress at Monzen Clean Park Co., Ltd.



	Phase 1	Phase 2	Phase 3	Total
Landfill area	5.16ha	8.46ha	5.75ha	17.26ha
Landfill capacity	836,000 m3	1,731,000 m3	864,000 m3	3,431,000 m3
Landfill period	11 years, 7 months	24 years, 6 months	11 years, 9 months	47 years, 10 months

(Note) The sum of the landfill areas for phase 1 through phase 3 do not match as some areas overlap.



We will continue to carry out construction safely with the environment in mind. Phase 1 construction is scheduled to be completed in November 2022.

Topics



Accelerating Studies of Building a Business Scheme based on The Plastic Resource Circulation Act (enacted April 2022)

The TRE Group uses large-scale facilities and various types of sorting equipment to respond to a wide range of recycling needs in the waste plastic recycling field. Especially, we are promoting the development of technology to improve sorting functions (materialization of the Sorting Center concept), and high-efficiency power generation, while building a new cooperative scheme with a view toward collaborations involving industry, academia, and government.

Acceleration of sorting technology and process development

We are working to materialize the concept of a facility that aims to strengthen the sorting process function through extensive demonstration opportunities, cooperation between engineering departments at arterial industry and the TRE Group (e.g., Fuji Car Manufacturing Co., Ltd.), and technological development through industry academia collaboration.

Optimizing exit strategies

With a view to collaborating with arterial industry, we are looking into providing products that match the needs of consumers in order to implement new recycling technologies (discussions are underway with several trading companies and manufacturers under a non-disclosure agreement).

Establishing a business scheme for recycling plastic resources

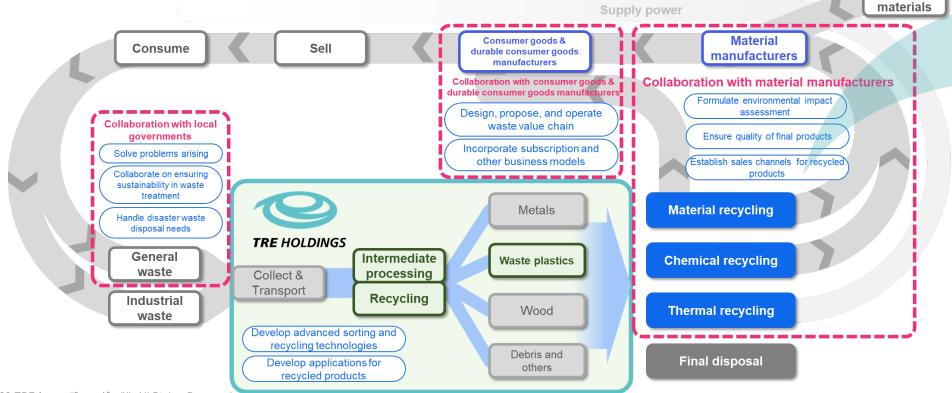
We will establish recycling bases with a view toward accepting general waste and applying optimal recycling methods according to quality (currently exchanging opinions with universities, local governments, major companies.)

Studies of tie-up with Sumitomo Chemical

We are investigating and analyzing waste plastics processed at the TRE Group's crushing and sorting plants, targeting the reuse of waste plastics from end-of-use vehicles. We also calculated environmental impact evaluations for recycled plastic products from manufacturing to recycling and compared them existing products made from virgin materials, and found that figures for recycled plastic products using waste plastics were superior from the perspective of CO2 reductions in LCA*1).

Moving forward, we will refine data and enhance selection using resin sorting lines at NNY Corp., and promote waste plastic material recycling to reduce environmental impact.

*1 LCA: Life Cycle Assessment. A process for clarifying the environmental impact of products from material procurement to manufacturing and disposal.



25



Circular Economy Initiatives

Newly installed E-waste line at the Higashimatsuyama, REVER COORPORATION



Newly installed a dedicated E-waste (crusher) line in response to the global increase in E-waste.

We will collaborate with the manual dismantling line for ATMs and other electronic devices containing confidential information operating at the Kumagaya Plant of Nakadaya Corp., and strengthen our efforts to add value by crushing and removing foreign substances from the circuit boards after dismantling. By crushing electronic scrap, we sort out iron and aluminum, then ship the gold, silver, and copper to major refining companies in Japan.

Expected treatment volume: 700t/mon.

*Electronic scrap / circuit boards

Solar panels have been installed, and 26% of the electricity used to operate the facility will be provided by renewable energy sources



Newly installed resin sorting line at Nasu Plant, NNY Corp.



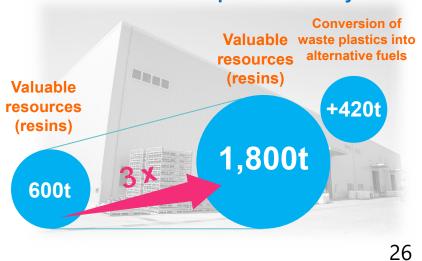
Newly installed a dedicated sorting line to strengthen resin sorting in an effort to promote plastic recycling.

At the Nasu Plant of NNY Corp., we are currently sorting 600 tons of resin and other materials per year from the dust (residue) that remains after sorting mixed metals (Note 1) for recycling. By introducing a new resin sorting line, we will boost our material recycling volume to 1,800 tons per year and contribute even more to recycling. In addition, we expect to be able to sort 420 tons of dust for use as alternative fuels such as RPF (Note 2).

Note 1. Mixed metals: A mixture of non-ferrous metals such as aluminum, copper, stainless steel, etc., and plastics.

Note 2. RPF: A solid fuel made mainly from waste paper and plastics. It is high in calories and emits less CO2 than fossil fuels.

Scheduled to start operation in July 2022





Recent Status of Renewable Energy Power Stations and Repair Plans for FY2022

Recent status (at end of FY2021)

Green Power Ichihara Co., Ltd.
Takeei Green Recycling Co., Ltd.
Tamura Biomass Power Generation Co., Ltd.

Five electric power retailers

- : Stable operations continue despite the impact of facility repairs and additional construction work in Q1.
- : Stable operations gradually being established, as the outlook for changes in the biomass ratio becomes clear.
- : Undertook in-house operation and maintenance of power generation facilities, and established a stable operation system.
- : The business environment was impacted by rapidly increasing market prices during the cold winter when electricity demand to come under pressure, so purchase prices increased temporarily. Nevertheless, these retailers are working to alleviate the decline in profits, for example through market sales of electric power generated using solid RPF (not subject to FIT) at Green Power Ichihara Co., Ltd.

Regular repairs planned for FY2022

Company name	Description of repairs (E.g., regular repairs., facility enhancements)	Q1	Q2	Q3	Q4
Tsugaru Biomass Power Generation Co., Ltd.	Parts replacement, etc.	0		0	
Hanamaki Biomass Power Generation Co., Ltd.	Boilers	0		0	
Daisen Biomass Power Generation Co., Ltd.	Boilers, turbines			0	
Takeei Green Recycling Co., Ltd.	Parts replacement, etc.		0		0
Green Power Ichihara Co., Ltd.	Boilers, turbines			0	
Tamura Biomass Power Generation Co., Ltd.	Boilers				0

^{○ :} Statutory inspections, regular repairs (boilers: every 2 yrs.; turbines: every 4 yrs.)
○ : Regular inspections, regular repairs



Activities Targeting Glass Recycling

JW Glass Recycling Co., Ltd. joins TRE Group

In the recycling business, JW Glass Co., Ltd. collects sheet and bottle glass and sorts, removes foreign materials, and crushes the glass, and then sells this "cullet" to sheet and bottle glass manufacturers and glass wool manufacturers as raw materials.

	FY03/19	FY03/20	FY03/21
Net sales	1,174	1,236	1,194
Operating profit	149	210	178

		Operates 4 plants
Company name	JW Glass Recycling Co., Ltd.	
Establishment	5 October, 2004	ShinKiba P
Headquarters	ShinKiba, Koto-ku, Tokyo	Namporo P
Representative Director	Hidekazu Yukimori	
Capital	JPY30 million	Tatebayas Plant
Main areas of business	Collection, recycling, and sales of glass was	Oigawa Pl

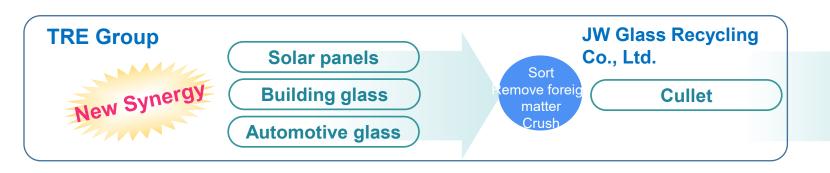
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(ShinKiba Plant	Tokyo
	Namporo Plant	Hokkaido
	Tatebayashi Plant	Gunma
ر (Oigawa Plant	Shizuoka

*JW Glass Recycling Co., Ltd. earnings are not included in FY03/23 earnings forecast.

What glass recycling means to TRE

Based on the corporate philosophy of "contributing to the preservation of the global environment," the TRE Group strives to be a Comprehensive Environment Enterprise that contributes to a highly advanced and sound material-cycle society and a carbon-free society, by expanding and diversifying its business fields.

Going forward, we will take on the challenge of recycling waste glass, including glass from buildings and end-of-use vehicles, as well as solar panels, where demand for disposal is expected to grow in the future. By recycling waste glass, we will reduce the consumption of natural resources, and contribute to reducing CO2 emissions at manufacturing plants, as well as reducing final landfill disposals of residues.



Glass & glass wool manufacturers

Sheet glass

Bottles

Glass wool

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