

President Asakura will now begin the presentation.

Asakura: Good morning. This is Asakura, President of NAGASE.

I would like to thank you all for joining us for this web-based meeting.

First, I will give an overview of the H1 results and the outlook for the full year, followed by a brief explanation of the medium-term management plan. After that, Ikemoto, who is in charge of Prinova Group, will report on the current status of the company.

■ Medium-Term Management Plan ACE 2.0 P19~P2	Contents	▲NAGAS
■ Medium-Term Management Plan ACE 2.0 P19~P2		
■ Medium-Term Management Plan ACE 2.0 P19~P2		
	■ FYE March 2023 Second Quarter Results and FYE March 2023 Earnings Projection	P3~P18
■ Prinova Group: Business Overview and Growth Strategy P23~P30	■ Medium-Term Management Plan ACE 2.0	P19~P22
	■ Prinova Group: Business Overview and Growth Strategy	P23~P39
■ Appendix P40~P4	■ Appendix	P40~P42
	yright © 2022 NAGASE & CO., LTD.	

FYE March 2023 Second Quarter Results and FYE March 2023 Earnings Projection

Copyright © 2022 NAGASE & CO., LTD.

Consolidated statements income

Gross profit

- · Overall profit increased, despite lower gross profit margin due to lower profitability at certain manufacturing subsidiaries, etc.
- Operating income

• Selling, general and administrative expenses increased due to higher logistics costs and increased activities; however, the increase in gross profit exceeded this increase in expenses, resulting in higher operating income

- Profit attributable to owners of the parent
- Recorded record-high operating income for a first half and a Q2 profit that is a record high for any quarter

						100 millions of yer
	21/09	22/09	Change	Vs.PY	Forecast (Full year)	Achievement
Sales	3,737	4,555	+ 817	122%	_	—
Gross profit	687	793	+ 106	115%	1,590	50%
<gp ratio=""></gp>	18.4%	17.4%	(1.0pt)	-	_	-
SG&A expenses	492	594	+ 102	121%	1,210	-
Operating income	194	198	+ 3	102%	380	52%
Ordinary income	204	202	(1)	99%	390	52%
Profit Attributable to owners of the parent	146	155	+ 9	107%	285	55%
US\$ Exchange rate (period average)	@ 109.8	@ 134.0	@ 24.2	Weak yen	@120.0	
RMB Exchange rate (period average)	@ 17.0	@ 19.9	@ 2.9	Weak yen	@18.5	

% Offset to sales and cost of sales from revenue recognition standards: September 2021, -¥117.1 billion; September 2022, -¥133 billion % Impact from foreign exchange: Gross profit, +¥6 billion; Operating income, +¥1.9 billion

Copyright © 2022 NAGASE & CO., LTD.

This page describes the consolidated income statement for H1 of this fiscal year.

Gross profit was JPY79.3 billion, which was 115% of the previous year's figure. Operating income was JPY19.8 billion, 102% of the previous year's level. Profit was JPY15.5 billion, up 7% from the previous year. These profits are record highs.

Last year, all segments performed well throughout the year. However, this year, we have seen mixed trends in each segment and in the business units within each segment. Later today, I will explain this point again.

I have already mentioned the sharp rise in distribution costs and other selling expenses. In H1 of this fiscal year, these selling expenses surpassed our expectations and increased by JPY2.6 billion over the previous year.

In addition, domestic and international activities are returning to normal. As a result, various expenses are higher than in the previous year.

On the other hand, we have recorded gains due to the yen's depreciation, which has made a significant contribution to our performance. We estimate that Operating income from the depreciation of the yen was about JPY1.9 billion.

Gross Profit By Region

ANAGASE

Higher profit both domestic and overseas

- ▶ Profit increased in Japan and overseas due to increased raw materials sales to the semiconductor industry
- ▶ Significant increase in profits in the Americas and Europe due to strong Prinova Group performance
- Despite the impact of lockdowns in Greater China, profits rose due to the effect of the weaker yen



This page shows gross profit by region.

By geographic region, both domestic and international profit increased.

Both the Americas and Europe posted large increases in gross profit, due in part to the strong performance of Prinova Group. In China, while the lockdown has delayed some shipments, strong sales of semiconductor-related products and the depreciation of the yen have allowed us to somehow exceed the previous year's level.

Gross Profit By Business & Segment

Functional Materials: Sales increased for semiconductor-related products and other areas of the electronics industry

- Profit decreased in part due to lower profitability in Advanced Materials & Processing, despite the positive impact of the weak yen, as sales volume of resins declined and the segment experienced a reactionary decline stemming from increased profit ratios in connection with soaring market conditions in the year-ago period
- Electronics & Energy: Sales increased for materials used in semiconductor applications
- Life & Healthcare: Sales were strong for food ingredients and manufacturing and processing in the Prinova Group



I would like to skip this page about gross profit by business and segment and move on to an explanation of operating income starting from the next page onward.

Operating Income by Business & Segment

Selling, general and administrative expenses increased due to higher logistics costs and increased activities; however, the increase in gross profit exceeded this increase in expenses

- Advanced Materials & Processing recorded lower profit, partly due to a reactionary decline from the stemming from increased profit ratios in connection with soaring market conditions in the year-ago period, as well as higher selling, general and administrative expenses
- Life & Healthcare business recorded a significant increase in profit due to strong sales of food ingredients by the Prinova Group
- \blacktriangleright We continue to invest for sustainable future growth, including in DX-related areas



This page shows a YoY comparison of operating income.

As you can see, the situation differs from one segment to another. I will explain the status of each segment in more detail on the following pages.

ANAGASE & AGASE & AGASE & AGASE & AGASE & Functional Materials Segment Operating Income Overview

- Overall increase in profit due to soaring market prices and the weakening of the yen
- ▶ Increased sales of coating and urethane raw materials to the automobile and other industries
- Increased sales of raw materials for the semiconductor-related products and other areas in the electronics industry, as well as sales related to industrial oil solutions and epoxy resins



First, I will explain the status of the Functional Materials segment.

As a result of several price hikes, unit prices of items handled have remained at a high level, and the weak yen has also had a positive impact, resulting in a significant increase in operating income over the previous year.

We were concerned about the impact of the lockdown in China and automobile production volume, but the volume remained almost flat. This segment handles many upstream materials, that is, the source of various materials used in electronic components, including semiconductors. These materials are performing well, including in terms of volume.



Next, I will explain the status of the Advanced Material & Processing segment.

Resin raw materials are the main products in this segment. Profitability of resin raw materials has declined significantly in the current fiscal year, as a reaction to the high market prices in the previous year, due to stagnant markets for office automation and games, as well as the negative impact of the lockdown in China.

In addition, the company's own color former product line has continued to experience sluggish demand and increased competition, and the color former business remains weak. These factors have been a cause of concern for the segment as a whole.



Next, I will explain the status of the Electronics & Energy segment.

In the period under review, sales of materials related to semiconductors have remained strong both in Japan and overseas.

On the other hand, sales of epoxy-related materials, which are our products used in electronic components, especially for smartphones, remained very sluggish. Sales of LCD-related materials were also significantly lower than the previous year.

As a result, operating income was slightly lower than the previous year. Both the smartphone and LCD markets remain sluggish at the moment, but we expect them to start recovering in the spring of next year.



Next, I will explain the status of the Mobility segment.

Despite negative factors such as the shortage of semiconductors and lockdowns in China, the mobility segment performed well, thanks to an upward trend in automobile production itself and the positive impact of the yen's depreciation.

At present, our main sales are resin-related products. However, we are very pleased to see that the sales of materials and parts for EVs, on which we have been focusing our efforts for the past few years, have already increased to a large number. We intend to continue to focus on these materials and components.

Life & Healthcare Segment Operating Income Overview

Prinova Group sales of food ingredients were particularly strong in the first quarter due to increased demand and sales of high-margin products in response to supply chain disruptions; performance remained strong overall through the second quarter, despite certain supply-demand adjustments performance remained

- ► Hayashibara sales of food ingredients (mainly TREHATM) and pharmaceutical raw materials increased; however, sales of cosmetics materials (mainly AA2GTM) decreased due to lower demand
- In addition, Pharmaceutical product-related business performance was also strong, contributing to higher profit year on year



Next, I will explain the status of the Life & Healthcare segment.

This segment is the core of our bio & food related business, which we have identified as a focus area in our medium-term management plan. Although performance has been mixed, this segment has generally been performing well.

Prinova Group, which I will explain in more detail later, is steadily increasing its market share and performed well in H1.

Hayashibara also saw an increase in sales of functional carbohydrates, such as TREHA[™], to the food industry. In addition, sales of imported raw materials for pharmaceuticals and other products were strong during this period, resulting in a significant increase in operating income for the segment as a whole.

State of Major Manufacturing Subsidiaries

• Nagase ChemteX: Lower profit, despite strong semiconductor-related sales, due to weak sales of formulated epoxy resins for use in mobile devices

- ► Hayashibara: Lower profit due to lower sales of cosmetic material AA2GTM and lower profitability of food material TREHATM, stemming from higher raw materials and energy prices
- Prinova Group: Higher profit due to higher sales of nutrition-related materials stemming from increased demand, as well as improved profitability

		21/09	22/09	Change	Vs.PY
	Sales	146	135	(10)	93%
Nagase ChemteX Corporation	Gross profit	47	38	(9)	80%
corporation	Operating income	23	11	(12)	49%
	Sales	130	138	8	107%
	Gross profit	54	53	(0)	989
Hayashibara Co.,Ltd.	Operating income	23	20	(2)	879
	Goodwill amortization etc.	15	15	-	1009
	Operating income after amortization burden	7	4	(2)	629
	Sales	557	950	392	170%
	Gross profit	106	166	60	157%
Prinova Group	Operating income	37	57	20	1539
	Goodwill amortization etc.	9	11	1	1149
	Operating income after amortization burden	27	46	18	1679

Copyright © 2022 NAGASE & CO., LTD.

This page shows the status of our major manufacturing subsidiaries.

As for NAGASE ChemteX, operating income was 49% of the previous year's level due to a significant slump in epoxy resins for electronic components used in smartphones as I mentioned earlier. However, other product groups are generally performing well and we are waiting for the smartphone market to recover.

Hayashibara has raised prices several times, but due to the high cost of starch and other raw materials and rising energy costs, this has not been enough to absorb the increased costs, resulting in a decline in operating income compared to the previous year.

Prinova Group achieved solid results in H1, but we have to keep a close eye on cost increases due to selling expenses and labor costs.

In addition, the company had increased its total inventory of vitamins and other products in order to secure supply volume due to logistical disruptions, but is now reducing inventory as product delivery times have stabilized.

Consolidated Balance Sheets



Current assets: Increase in working capital due to overall strong performance

Net assets: Increase, despite dividend payments and share buyback, due to profit for the period and an increase in foreign currency translation adjustments due to the weaker yen

• NET D/E ratio: Increased to 0.41 times due to an increase in interest-bearing debt resulting from higher demand for cash in connection with an increase in working capital

	22/03	22/09	Change	Detailes
Total Current Assets	5,142	5,677	534	
(Cash&deposits)	542	461	(80)	
(Trade account receivbable)	2,898	3,164	266	
(Inventories)	1,575	1,864	289	
Total non-current assets	2,254	2,341	87	
(Investments in security)	756	724	(31)	
Total assets	7,397	8,019	622	
Current Liab.	3,078	3,285	207	Short-term loans/CP+310, Current Portion of Bonds(100)
(Trade account payable)	1,490	1,523	33	
Non-current Liab.	767	897	129	Corporate Bonds+100
Total Liab.	3,846	4,182	336	
Shareholders' equity	2,988	3,073	85	
Accum. Other Comprehensive Income	454	652	197	Translation adjustment+218, Appraisal Loss on Investment Securities(25)
Non-controlling interest	108	111	2	
Total net assets	3,550	3,836	285	
Working capital	2,983	3,505	522	-
Shareholders' equity ratio	46.5%	46.5%	(0.0%)	
NET D/E ratio	0.33	0.41	0.09	

Copyright © 2022 NAGASE & CO., LTD.

This is an overview of our balance sheet.

Inventory has increased compared to the end of March, resulting in an increase in working capital.

We have strategically increased inventories to maintain our supply chain, not only in Prinova Group, but also in other areas. We are monitoring inventory levels closely in each region and in each organization, and we are seeing a steady downward trend.

Consolidated Cash Flows

ANAGASE

• Operating CF : Net cash used of ¥17.9 billion as working capital increased due to strong business performance

- Investing CF : Net cash used of ¥5.9 billion due to purchases of property, plant and equipment, etc., offset in part by proceeds from sales of investments in securities
- Financing CF : Net cash provided of ¥11.5 billion, mainly due to an increase in interest-bearing debt in connection with an increase in working capital, offset in part by payments of dividends and purchases of treasury stock

	21/09	22/09
Operating CF	(136)	(179
Investing CF	(49)	(59
Free CF	(185)	(239
Financing CF	144	115
Effects of exchange rate changes on cash and cash equivalents	3	4'
Net change in cash and cash equivalents	(38)	(76
Depreciation and amortization of tangible and intangible assets	68	7
	(75)	(83
Fixed asset investment		

Copyright © 2022 NAGASE & CO., LTD.

This is an overview of our operating, investing, and financing cash flow. There are no special items to be mentioned here.

FYE March 2023 Earnings Projection

Although the yen weakened compared to our initial forecast, we maintain our full-year earnings forecast

- unchanged, reflecting following circumstances (we expect to record record-high earnings for a second consecutive year)
- We expect to see continued growth, with semiconductor-related products and automobile-related businesses performing solidly, even as we forecast food-related product to slow down compared to the first half due to economic sluggishness
- ▶ In addition to crude oil prices and related chemical market conditions, we expect utility costs such as electricity and gas to remain high
- The sales decrease for formulated epoxy resins-related products caused by lower demand for mobile devices is not expected to recover in full-year results

			100 mi	llions of ye
	22/03 Actual	23/03 Forecast	Change	Vs.PY
Gross profit	1,394	1,590	195	114%
SG&A expenses	1,042	1,210	167	116%
Operating income	352	380	27	108%
Ordinary income	364	390	25	107%
Profit attributable to owners of the parent	259	285	25	110%
US\$ Exchange rate (period average)	@ 112.4	@ 140.0	(@120.0 ⇒ @140.0)	
RMB Exchange rate (period average)	@ 17.5	@ 20.0	(@18.5 ⇒ @20.0)	

※Impact on operating income of 1 yen change in exchange rate: US\$ approx. 100 million yen, RMB approx. 400 million yen Copyright © 2022 NAGASE & CO., LTD.

I would now like to explain our outlook for the full-year financial results.

In the individual business segments, we are seeing a variety of favorable and unfavorable conditions. However, we have not changed our initial forecasts for an operating income of JPY38 billion and profit of JPY28.5 billion for the full year.

Regarding foreign exchange rates, we have revised our forecast to JPY140 to the US dollar for the full year.

ANAGASE

FYE March 2023 Earnings Projection By segment

• We revised our forecast for Functional Materials upward, mainly due to strong sales of electronics chemicals for semiconductor-related industries and improved profitability resulting from market conditions and foreign exchange rate fluctuations

- We revised our forecast downward for Advanced Materials & Processing, mainly due to weaker-than-expected performance in the resins business, which was affected by the Shanghai lockdowns, etc.
- We revised our forecast downward for Electronics & Energy, which should see firm performance for semiconductor-related products, but weak sales of formulated epoxy resins, mainly due to a decline in demand for mobile devices
- We revised our forecast upward for Mobility, mainly due to improved profitability in response to market conditions and foreign exchange rates, as well as an increase in market share of Functional Materials and components for EVs
- We revised our forecast for Life & Healthcare upward, mainly due to the Prinova Group nutrition-related business performing better than expected in the first half, including an increase in market share

		22/03 Actual	23/03 Previous forecast	23/03 Revised forecast	Change	Percentage change
Functional Materials	Gross profit	198	221	229	8	3.6%
Functional Materials	Operating income	78	83	95	12	14.5%
Advanced Materials	Gross profit	323	343	330	(13)	(3.8%)
& Processing	Operating income	108	117	105	(12)	(10.3%)
Electronics & Energy	Gross profit	297	325	310	(15)	(4.6%)
	Operating income	102	115	103	(12)	(10.4%)
Mobility	Gross profit	127	142	149	7	4.9%
	Operating income	41	44	55	11	25.0%
Life & Healthcare	Gross profit	447	557	571	14	2.5%
	Operating income	94	112	117	5	4.5%
	Gross profit	1	2	1	(1)	(50.0%)
Corporate & Others	Operating income	(72)	(91)	(95)	(4)	-
Tatal	Gross profit	1,394	1,590	1,590	_	_
Total	Operating income	352	380	380	_	_

I would like to explain our full-year outlook by segment.

Although we have made slight revisions based on the H1 performance of each segment, we expect that the H1 trends will generally continue.

In the Advanced Materials & Processing and Electronics & Energy segments, we expect a YoY decline in gross profit and operating income.



Here we show our shareholder returns for the past 10 years.

As originally announced, we plan to pay an interim dividend of JPY30 per share and a year-end dividend of JPY30 per share, for an annual dividend of JPY60 per share for the current fiscal year. This will be the 13th consecutive year of dividend increases.

Medium-Term Management Plan ACE 2.0

Copyright © 2022 NAGASE & CO., LTD.

Next, I will report on the progress of our medium-term management plan, **ACE 2.0**.



Under the **ACE 2.0** plan, we have set two non-financial goals for the current fiscal year.

First, to improve employee engagement, we have set the survey implementation rate & the score as KPIs and are conducting surveys on a group-wide basis.

Second, to realize carbon neutrality, we have set Scope 1 and Scope 2 GHG reductions as KPIs and are working to achieve this in both our manufacturing and trading divisions.

We are also actively participating in government-sponsored GX leagues and other third-party organizations.



Copyright © 2022 NAGASE & CO., LTD.

On this page, we report on some of our activities related to sustainability.

We are actively promoting the development of a greenhouse gas emissions visualization service called zeroboard not only in Japan but also in Southeast Asia.

Our activities in this area have been recognized, and we have been selected as a constituent of the FTSE Blossom Japan Index and other indexes.

Medium-Term Management Plan ACE 2.0 Numerical Targets

Our Policy to Pursuit of Quality Remains Unchanged as We Review Our KGIs and KPIs

Increase profitability

•We expect to record two consecutive years of record-high profits in FY2021 and FY2022

•Despite certain external factors, businesses in focus areas (food, semiconductors, etc.) are growing faster than expected

Improve capital efficiency

•We expect ROE to be close to the target level for the second consecutive fiscal year

(ACE 2.0 KGI)				
Measures	Indicators	FY2021 Actual	FY2022 Forecast	FY2025 Plan
Increased profitability	Operating income	35.2 billion yen	38.0 billion yen	35.0 billion yen
Improvement in capital efficiency	ROE	7.7%	Approximately 8.0%	8.0% or Greater

At the same time, we are still in the process of portfolio replacement and creating businesses that solve social and environmental issues are still



Finally, this page shows our numerical targets under **ACE 2.0**, which we are currently reviewing.

First of all, we are reviewing whether we are making steady progress in transforming our portfolio and corporate culture in pursuit of quality.

In addition, we are carefully analyzing environmental factors and trends in our focus areas. We are also carefully estimating costs and other aspects of our activities and business structure that will contribute to sustainability, and we plan to finalize our report by the end of the fiscal year. We would appreciate your understanding on this point.

In this rapidly changing environment, there are of course some businesses, such as smartphone-related businesses, that are stagnant. However, overall, we believe that each segment is steadily responding to changes and increasing its market share.

This concludes my explanation. Next, Ikemoto will explain the current status of Prinova Group.

Prinova Group: Business Overview and Growth Strategy

Copyright © 2022 NAGASE & CO., LTD.

Ikemoto: Good morning. This is Ikemoto, Director of NAGASE. I would like to take some time today to explain about Prinova Group, three years after its acquisition, in light of its position in our food business growth strategy.

ANAGASE

Contents

Prinova Group's Position Within the ACE 2.0 Medium-Term Management Plan	P25
Significance of Food-related Businesses for us	P26
Prinova Group Corporate Overview	P27
Prinova Group Strengths	P28
Prinova Group Business Model	P29
Prinova Group Business Overview	P30
What is the Sports Nutrition Market?	P31
Sports Nutrition Market	P32
Manufacturing and Processing The Armada Business	P33
Growth Strategy Expand Manufacturing and Processing Businesses	
The Armada Business	P34
Manufacturing and Processing Solutions Business	P35
Growth Strategies Expanding Manufacturing and Processing Businesses	
Solutions Business	P36
Growth Strategies Create Group Synergies (1)	P37
Growth Strategies Create Group Synergies (2)	P38
ACE 2.0 Prinova Group Numerical Results and Plans	P39

Copyright © 2022 NAGASE & CO., LTD.

24



We have positioned the food related business as one of our focus areas in our medium-term plan, and Prinova Group is a key player in driving the growth of the food business. We have set ambitious goals for 2025, and we expect Prinova Group to continue to meet or exceed our expectations as it gains market share in the food industry, especially in health-related products.



We recognize that our food-related business is in a crucial position to contribute to the resolution of social issues.

As the Group's materiality, we have identified the resolution of social and environmental issues and globalization. Through foodrelated businesses, we provide products and technologies to address food shortages. We also strive to ensure food safety through the use of biotechnology and AI. Furthermore, we aim to meet the health demands of an aging population. Through these efforts, we believe we can solve social issues.

Through the growth and development of core NAGASE Group companies such as Prinova Group, NAGASE ChemteX, and Hayashibara, we aim to contribute to solving social issues on a global scale, thereby achieving both economic and social value.

Today, I would like to explain Prinova Group's business situation and our activities through our sports nutrition initiatives.

Prinova Gr	oup Corporate Overview		▲ NAGASE <i>></i> Prinova
Name	Prinova Group LLC	Vertically I Comp	
Head Office	Illinois, USA	Trading	
Founded	1978	Indding	Manaractaring
Scope	Sales :120.9 billion yen Operating income:6.9 billion yen 1US\$=109.9yen (Exchange rate : December 2021)		1
Employees	1,032 (as of December 2021)		Prinova
Manufacturing Locations	U.S. (6), U.K. (1), China (1)		ANGASE Group
Sales Offices	U.S., U.K., and 9 other countries		
Products	Food ingredients (vitamins, amino acids, etc.) Flavored ingredients, premixes and contract manufacturing (sports nutrition)		
Business Lines	Sales of food ingredients and flavors, production and processing of premixed products, contract manufacturing		
Copyright © 2022 NAGASE & CO.,	LTD.		27

As I have already explained several times during briefing meetings in the past, I would like to once again give you a brief overview of Prinova Group.

Prinova Group is headquartered in the suburbs of Chicago, Illinois, US. Prinova Group is engaged in the sales of food ingredients, blends of food ingredients commonly known as premixes, and the contract processing of dietary supplements in the form of OEM and ODM. The company is a hybrid manufacturing and sales company with offices in the US, UK, Europe, and China.

Prinova Group currently employs over 1,000 people and operates worldwide.

Prinova Group has six manufacturing facilities in the US, one in the UK, and one in China. The company has sales offices in 11 countries, including Europe and the US. It is also expanding sales in Asia and especially China using NAGASE Group's bases.

In the fiscal year ended December 31, 2021, Prinova Group posted operating income of JPY6.9 billion on sales of JPY120.9 billion.

Compared to the sales of about JPY80 billion prior to our acquisition in 2019, Prinova Group has achieved significant growth.

Prinova Group Strengths

Gain Customer Trust by Handling Everything from Procurement to Manufacturing and Processing on a Global Basis



Copyright © 2022 NAGASE & CO., LTD.

Prinova Group's strength lies in its ability to vertically integrate formulation and commercialization technologies, from material sourcing to processing and finished products. This differentiates them from competitors throughout the US.

In addition to these advantages, Prinova Group 's manufacturing facilities in Europe, the US, and China enable them to provide the same quality products to customers. In this way, the company has formed a global warranty and supply system.

We are confident that Prinova Group's expected expansion in Asia and Japan as part of the NAGASE Group will further strengthen its position.



Let me explain Prinova Group 's business model in a little more detail compared to the industry supply chain.

This slide shows the supply chain of the food ingredients industry. It is a horizontal image from material production to sales.

In general, the food ingredients supply chain is divided into different stages, with each stage having different players.

In the case of Prinova Group, the first of its strengths is its ability to procure and handle more than 2,000 food ingredients. We also have many items with the world's largest transaction volume. This procurement and sales capability is one of the company's strengths.

Second, the company possesses a wide variety of compounding technologies, enabling it to offer a wide range of compounded products to its customers.

A third strength is the company's one-stop service, especially in the sports nutrition market. In general, there are many customers in this industry who do not have factories. Some customers, even if they are the main players, do not have factories or production functions. For these customers, Prinova Group offers a one-stop service, from material sourcing and formulation to the finishing of the final product. At times, the company responds to customer needs as an ODM manufacturer while imparting its own technology.

Similar companies differentiated by such strengths are rare in the Western market. We believe that Prinova Group is competitive in the beverage, food, sports nutrition, pet food, and general nutrition markets, which are shown on the right side of this page.



The Prinova Group is composed of a trading division and a manufacturing and processing division.

As I mentioned earlier, the trading division handles more than 2,000 items and supplies materials to various sectors of the manufacturing and processing industry.

The manufacturing division, backed by the trading company function, provides products to various markets while receiving an abundance of materials.

In particular, we consider the Armada business to be the core of the manufacturing division. As shown in the pie chart on the right, the company is aiming to achieve an operating income level of more than 50% by 2025 by combining the Solutions, Armada, and Flavors businesses.



In this context, I would like to explain a little about sports nutrition.

In Japan, the term sports nutrition is still unfamiliar to the Japanese market. Generally speaking, sports supplements or protein foods may be easier to understand.

In recent years, sales of protein products have been increasing in Japan. I am sure that you are aware of the remarkable growth in this area. The sports nutrition industry is divided into three main markets.

There is the pre-workout market, which provides the body with the proper nutrients prior to training.

Then there is the intra-workout market, which gives the body the proper nutrients during training so that it does not lack energy.

Lastly, the post-workout market consists of proteins, which is a supplement taken after training to help restore muscle tone and strength. These are the three markets in the sports nutrition industry.

As for the user base, some people may imagine that sports nutritional supplements, or so-called nutrients, are generally only for athletes. However, it is obvious that they play an important role in extending healthy life spans for a wide range of people, young and old, male and female. Improving people's lives through more effective and sustainable sports and exercise plays a significant role in realizing a sustainable society. Therefore, we aim to contribute to society through our sports nutrition products.



The market size is JPY2.6 trillion globally. Expected CAGR of 9% from 2016 to 2027.

The US accounts for more than half of that market share, at around JPY1.5 trillion, and some estimates put the market size at around JPY2 trillion.

The size of the Asian market is estimated to be approximately JPY600 billion, with Japan accounting for about one-third of that. Compared to the US market, there is still room for growth.



As I just mentioned, the sports nutrition market is growing rapidly, but many brand owners do not have their own manufacturing facilities.

For such brand owners, there are OEM and ODM manufacturers, including us, who provide the brand owners with a manufacturing function. The reason for this is that manufacturing the products requires a wide variety of ingredients, blending techniques, and flavoring technologies.

Among these OEMs and ODMs, Prinova Group is developing its business under the name of Armada. The Tennessee plant on the right is a traditional plant with an area of about 35,000 square meters, a little smaller than Tokyo Dome. The photo on the left shows the Utah Plant, which is a newly built plant that was completed in September this year.

Based on these two manufacturing bases, Prinova Group is handling the production of sports nutrition products.



Regarding the expansion of Armada's manufacturing business, Prinova Group has two bases in the US, one in Tennessee and the other in Utah.

The Utah plant, in particular, is equipped with total production control using DX. The Utah plant is equipped with state-of-the-art facilities with higher productivity, and has achieved the production capacity as shown on the right.

We believe that this kind of productivity and factory management will contribute to the reduction of CO2 emissions, and that Prinova Group will continue to grow in the US as an OEM and ODM manufacturer.



The area of manufacturing and processing other than the Armada business explained earlier is what we call the Solutions business.

In this business, we offer a technology called premix, which is a multi-ingredient blending technology.

In addition, we provide technology for fine-tuning and particle size adjustment for large and small materials. We also offer a repacking technology that changes the size of the packing, including the shipping form, to match the input size of the compounded product.

Prinova Group has manufacturing facilities in the US, UK, and China for its Solutions business, providing global customers with a consistent quality commitment and product supply.



In the Solutions business, we made a business acquisition last year. In order to gain capacity with higher technology, we acquired Lakeshore Technologies, a company based in Michigan, US.

This company has unique and detailed technology. I would like to introduce three technologies.

The company's basic technologies include mixing, granulation, and micronizing. Especially in the granulation technology, we are planning to invest in more facilities to expand the production system.

Since this company is located in Michigan, a state right next to Illinois, where Prinova Group's headquarters is located, we believe that we will be able to integrate their technology with Prinova Group's existing technologies and coordinate the production system.

<text><section-header><section-header><section-header><section-header><table-container><table-container><table-container>

- culture and customer needs in North America
- \cdot Establish a base to utilize Hayashibara's ability to propose solutions

Copyright © 2022 NAGASE & CO., LTD.

Now that I have discussed Prinova Group's strengths, I would like to explain the Group synergies as part of our growth strategy.

The NAGASE Group has a biotech company named Hayashibara, which manufactures and supplies highly functional products. In order to strengthen our ability to make stronger and better proposals to our customers, Hayashibara is currently developing application labs in Japan.

These application labs are located in cities such as Tokyo and Okayama, and the Group is also pushing for the development of these labs in Singapore and China. We are also preparing to expand these application labs to the US in the future.

These applications labs have already had a lot of success in Japan in terms of getting customers to understand and experience the functionality of our products. We expect to see similar results in Asia as a whole, China, and the US.



Through these application labs, we are developing more functional products for the American market, with a particular focus on the sports nutrition market.

Hayashibara has a lineup of pre-workout, intra-workout, and postworkout products. We will continue to develop and offer products that will be more accessible to American customers through our application labs.



Prinova Group has grown steadily since we acquired it in August 2019. We expect the current fiscal year to be another year of strong growth, exceeding our initial targets. We are particularly excited about the growth of the sports nutrition market, and are determined to make company-wide efforts to achieve even greater growth than before.

In the chart you are looking at now, the outlook for the sports nutrition market is shown in a thin red sloping line. We are committed to achieving further growth by 2025, and we will continue to work hard to achieve this goal.

This concludes my explanation of the status of operations at Prinova Group. Thank you very much.

Appendix

Copyright © 2022 NAGASE & CO., LTD.



Quantitative Goals

"Pursuit of Quality" Key Goal Indicators (KGIs)

Measures	Indicators	FY2020	FY2025*
Improvement in capital efficiency	ROE	5.9%	8.0% or greater
Increased profitability	Operating Income	21.9 billion yen	35.0 billion yen

* FY2025 assumptions: 1 US\$= 108.7 yen, 1 RMB = 15.6 yen

Key Performance Indicators (KPIs) for achieving the "Pursuit of Quality"

Measures	Measures	Indicators	FY2020	FY2025
	O	Growth investments*1	_	150.0 billion yen or more* ²
Reform of Profit	Company-wide asset replacement and reallocation of resources	Secure 10% of company-wide invested capital and reinvest in focus and develop areas	-	10% or more
Structure	Create "N-Sustainable businesses"	Operating Income	-	5.0 billion yen or more* ³
	Improve productivity of manufacturing and expand value-added through technical innovation	Manufacturing business operating income*4	13.8 billion yen*5	20.0 billion yen or more
Reform of Corporate	Improve productivity of core operations	Ratio of gross profit to general administrative expenses* ⁶	57.1 %* ⁷	52.1%
Culture	Deepen awareness of capital efficiency	Net DE ratio	0.23 times	0.5 times or less
Functions supporting reforms	Accelerate DX further	Invested capital (including expenses)*8	2.4 billion yen	10.0 billion yen*2
 *1 N-Sustainable investment, new business investment, DX-related investment, R&D expense, working capital *2 5-year cumulative figure *3 Figure based on internal management *3 Simple sum calculation *5 Manufacturing casifications were reviewed, and Prinova Group reclassified as a manufacturing 				. .

*1 N-Sustainable investment, new business investment, DA-related investment, not expense, working capital
 *2 5-year cumulative figure
 *3 Figure based on internal management
 *4 Simple sum calculation
 *5 Manufacturing classifications were reviewed, and Prinova Group reclassified as a manufacturing business from FY2021; FY2020 results shown are also based on that reclassification.

Copyright © 2022 NAGASE & CO., LTD.

42

