

# Investors' Guide 2023



GS Yuasa Corporation (TSE : 6674)





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## 1. About GS Yuasa



### **Corporate Profile**



Corporate name	GS Yuasa Corporation	
Establishment	<b>April 1, 2004</b> *Japan Storage Battery (from 1917) and Yuasa Corporation (from 1918) had a corporate merger	
Head office	1, Inobanba-cho, Nishinosho, Kisshoin, Minami-ku, Kyoto	
Capital stock	52.8 billion yen	
Net sales	562.9 billion yen (FY2023)	Presi
Number of employee	Group Consolidated 12,892 (as of March 31,2024)	<ul> <li>Osamu Murao joir Yuasa) in April 19 Technology, Indus business unit as a</li> <li>experience in Man</li> </ul>
Listed-Financial Instruments Exchange	Prime Market of the Tokyo Stock Exchange (TSE : 6674)	Departments. Afte Company in June Group as CEO and directing the form and demonstrating



#### President Osamu Murao

Osamu Murao joined Japan Storage Battery (currently GS Yuasa) in April 1982. He was in charge of Quality Control, Technology, Industrial Batteries and Power Supplies business unit as a director in addition to his business experience in Manufacturing and Production Technology Departments. After being appointed as President of the Company in June 2015, he has been supervising the Group as CEO and guiding the business management, by directing the formulation of Mid-Term Management Plans and demonstrating leadership for accomplishing them.



### Innovation and Growth

We are committed to people, society and the global environment through innovation and growth of our employees and business entities.



Creating the Future of Energy

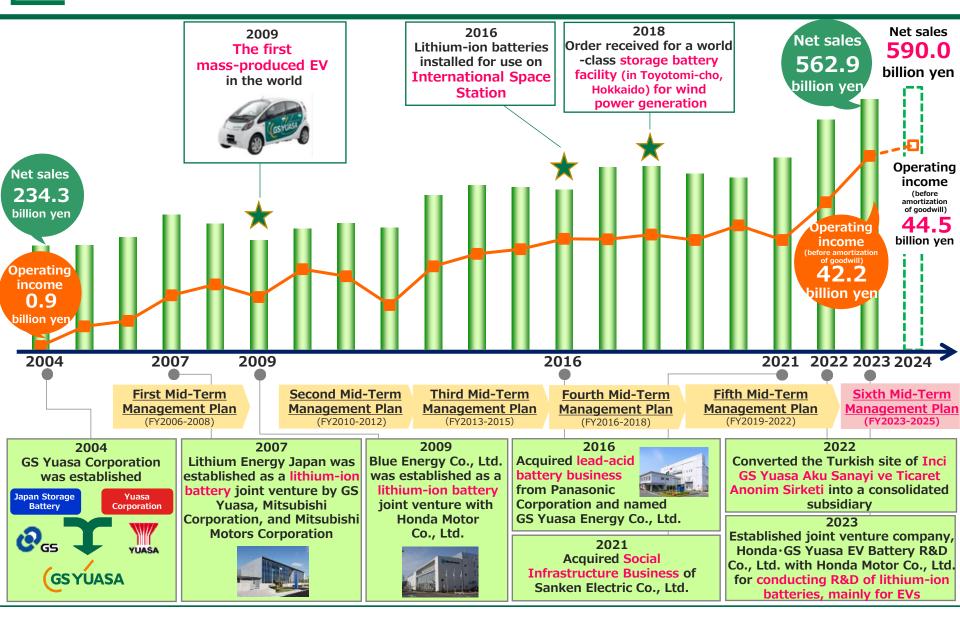


### Our Policy on Sustainability Management

We are committed to utilizing advanced technologies developed in the field of stored energy solutions to deliver security and comfort to our customers around the globe, to make a real contribution to the global effort toward sustainability, and to grow corporate value.

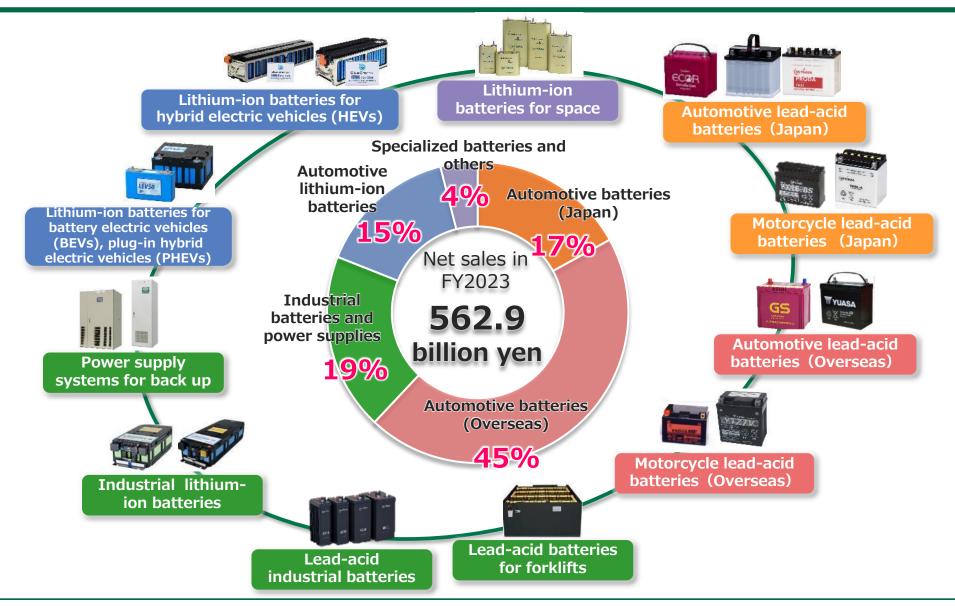
### Mistory after Corporate Merger





### Sales Composition by Business Segment and Main Products







### Sales Composition by Region and List of Locations





We have business in **19**countries **37**sites mainly in Southeast Asia.

(as of March 2023)





# **Technology and Development**

Develop various products used for deep sea to space

✓ Provide products with high performance such as batteries for ISS vehicles

✓ Researched and developed lithium-ion batteries from 1980s and massproduced lithium-ion batteries for EVs in the world for the first time in 2009





# **Brand Strength**

- $\checkmark$  GS Yuasa brand boasts top-class domestic and global market share
- $\checkmark$  Customer base built by history of the company for over 100 years



✓ More than 100 service locations throughout Japan (Industrial batteries and power supplies business)

✓ More than 4,000 dealers throughout Japan offer optimal battery solutions (Automotive batteries business)

✓ Global locations with a focus on Southeast Asia



# Vision 2035 (Long Term Vision)





### Contribute to solving social issues

## Sixth Mid-Term Management Plan (FY2023-2025)



Positioning this period as one for laying the foundation for reform to realize the vision envisioned **Policy** in Vision 2035, we will implement a variety of measures to reform our business structure. Development of a high-capacity, high-output lithium-ion batteries by utilizing Development ioint venture company with Honda of batteries Establishment of production and supply systems of batteries for BEVs to for BEVs expand mobility and public infrastructure business Thorough value-added creation and improvement in profitability **Reinforcement of**  $\geq$ Maximization of profits due to unparalleled superiority in Industrial Batteries and Power Measures 2 earning capacity in Supplies Business in Japan Transformation of regional strategy, including review of business in China, maximization existing business of profits by concentrating resources at main sites DX promotion to enable business structure transformation DX / New 3 Create new business that contribute to solving social issues business

### Sixth Mid-Term Management Plan Target (FY2025)

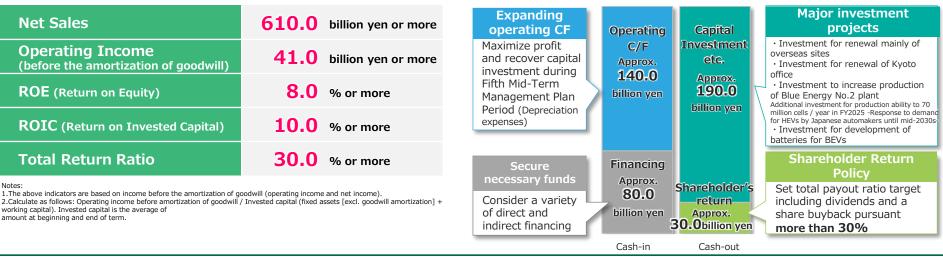
Net Sales	610.0	billion yen or more
<b>Operating Income</b> (before the amortization of goodwill)	41.0	billion yen or more
ROE (Return on Equity)	8.0	% or more
<b>ROIC</b> (Return on Invested Capital)	10.0	% or more
Total Return Ratio	30.0	% or more
Notes:		

1. The above indicators are based on income before the amortization of goodwill (operating income and net income).

working capital). Invested capital is the average of

amount at beginning and end of term.

### **Capital Allocation**

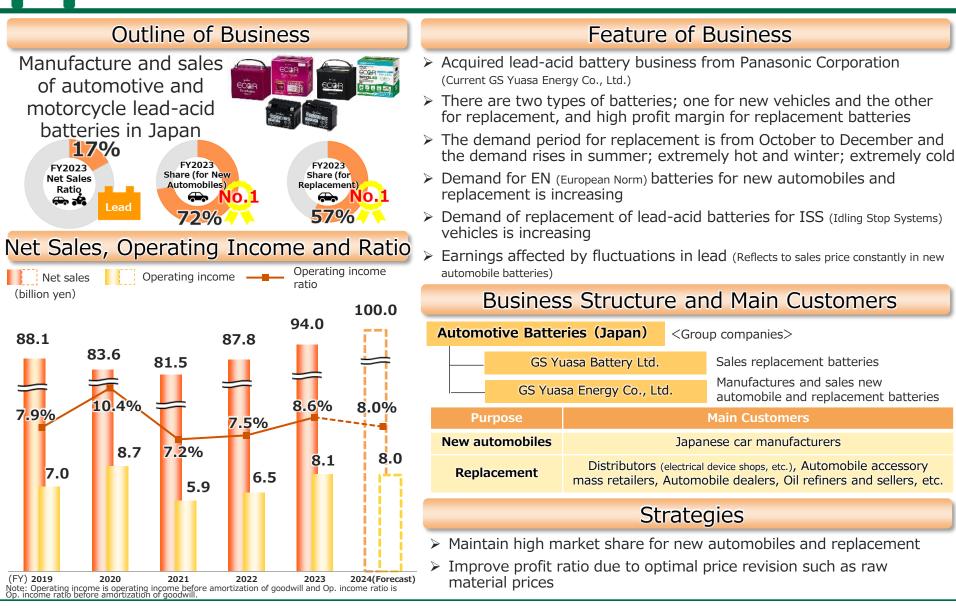




# 2. About Our Business

# Overview of Automotive Batteries (Japan)





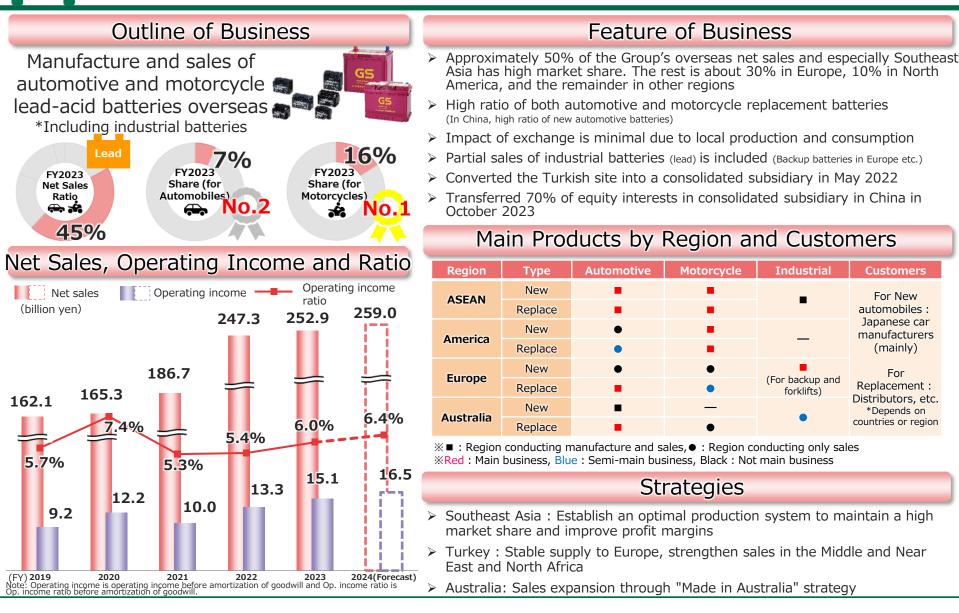
# **Overview of Automotive Batteries (Overseas)**



For New

(mainly)

For



**Overview of Industrial Batteries and Power Supplies** 

to-order basis



### **Outline of Business**

Manufacture and sales of electric backup batteries or power supplies of public infrastructure, lead-acid batteries for forklifts and ESS for renewable energy





(((**n**)))

#### No.1 share in Japan (Lead-acid batteries for backup power supplies and forklifts)

#### High operating margin for backup applications because of one-stop service from design and manufacturing to construction and maintenance on a build-

Sales and profits tend to be concentrated in the 4Q (January-March) due to the large number of projects for national and local government offices

Feature of Business

- Batteries for forklifts increase due to transition from engine types
- Acquired Social Infrastructure Business from Sanken Electric Co., Ltd. in May  $\geq$ 2021
- > Sales of regular field (For renewable energy) are increasing

### Main Products by Region and Customers

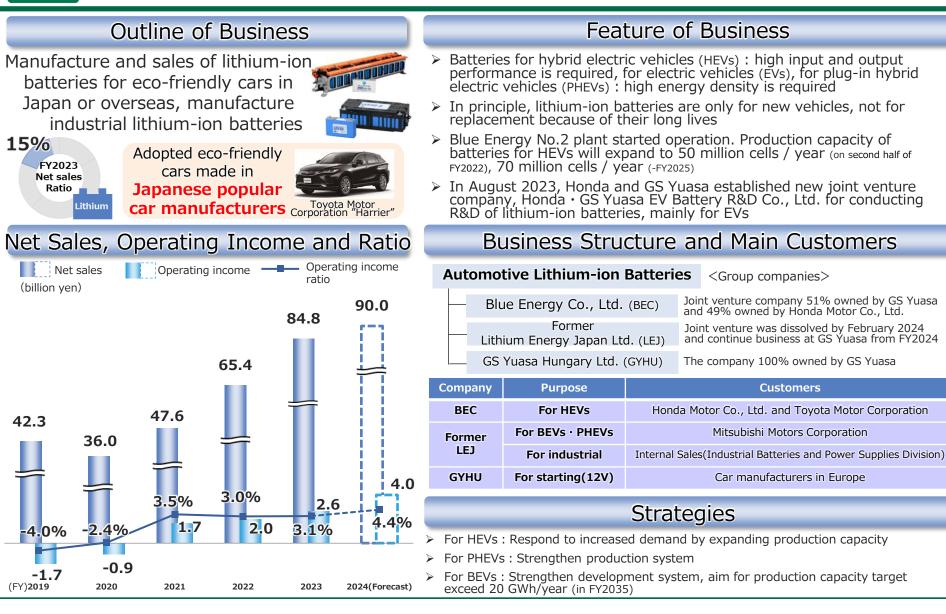
Net Sales, Operating Inco	me and Ratio	Main Froducts by Region and Customers						
		Purpose	Туре	Customers				
Net sales       Operating income       Operating income         (billion yen)       120.0         99.5       97.6		Emergency Field (For backup)	Mobile phone base stations, power generation systems, public infrastructure equipment such as railways	Lead-acid Lithium Power supplies	Railway companies, electric companies, government administration office, telecommunication centers, etc.			
84.6 84.0	12.0%	Regular Field (For renewable energy)	Peak shift / peak cut of business office, ESS for solar / wind power generation	Lithium	*There are some cases we supply through retail stores, electric or communication equipment manufacturers, etc.			
10.8%8.8%	13.2 13.0	For forklifts	Forklift using batteries, electric wheelchairs, etc.	Lead-acid	Forklift manufacturers, retail stores, etc.			
		Countries/Re	gion For backup		For forklifts			
9.2 8.2% 5.8% 8.1	5	Thailand China			•			
	6.9 5.8	America			_			
5.8		<ul> <li>Strategies</li> <li>Emergency field (Japan) : Expand remote monitoring services and improve profitability</li> </ul>						
		<ul> <li>Regular field : Respond to growing demand for renewable energy and develop a pillar of the business</li> </ul>						
(FY) 2019 2020 2021 2022		t) > Emergency field (Overseas) :Enhance competitiveness by expanding product lineup						

Note: Some consolidated subsidiaries in the "Industrial Batteries and Power Supplies" segment were transferred to the "Specialized Batteries and Others" segment from fiscal 2023. In conjunction with this change, figures for fiscal 2022 were restated according to the modified segments.

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### **Overview of Automotive Lithium-ion Batteries**

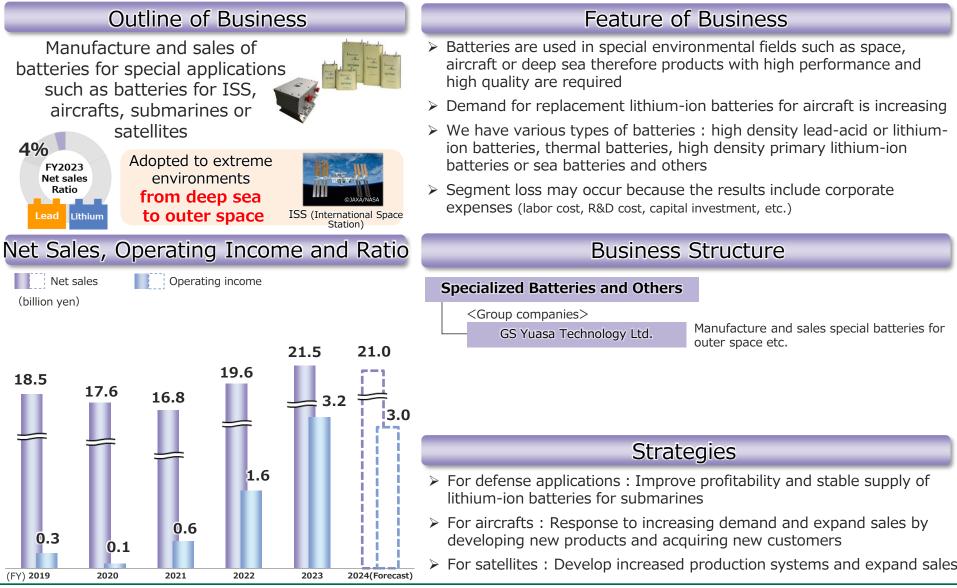






### **Overview of Specialized Batteries and Others**





Note: Some consolidated subsidiaries in the "Industrial Batteries and Power Supplies" segment were transferred to the "Specialized Batteries and Others" segment from fiscal 2023. In conjunction with this change, figures for fiscal 2022 were restated according to the modified segments.



### **Research & Development** -Initiatives for Next-Generation Batteries-



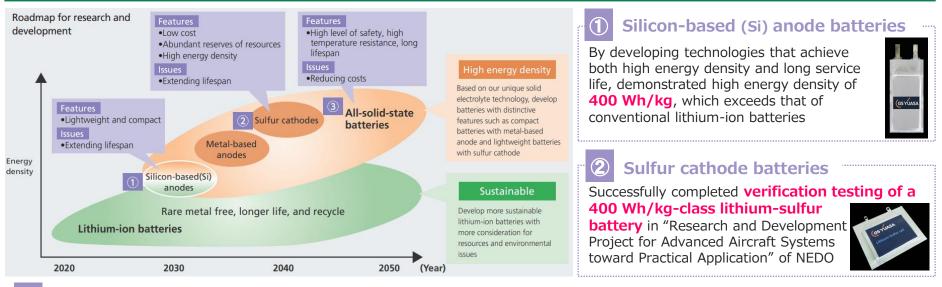
#### <Issues regarding current lithium-ion batteries>



Current lithium-ion batteries have various issues :

Since rare metals such as cobalt and lithium are used as raw materials, there is a possibility that supply shortages will occur if demand rises sharply in the future; Since the electrolytes used in current lithium-ion batteries are flammable, flame-retardant or non-combustible electrolytes are being sought.

### GS Yuasa's Initiatives



### ③ All-solid-state batteries

• Developed a **nitrogen-containing sulfide solid electrolyte** with boosted ionic conductivity and water-resistance as a key material for the commercialization of all-solid-state batteries • Conducting joint research with Osaka Metropolitan University on development of **next-generation storage batteries and next-generation motors, a technology proposal for the NEDO Green Innovation** 

**Fund** (the selected research topic: "Next-Generation Storage Battery and Motor Development")

#### Advanced solid-state battery development items

Development of a solid electrolyte that combines high ionic conductivity with superior water resistance

Development of high-capacity cathode with low cobalt content

Development of anode with high capacity and long-life performance

 $\blacksquare$  Development of cell design and manufacturing processes that facilitate mass production

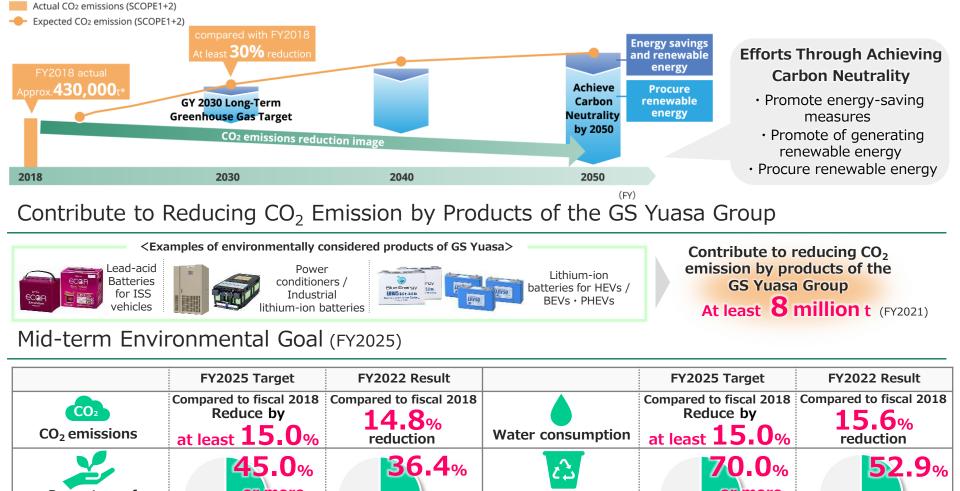


## 3. ESG Initiatives





### GY 2050 Carbon Neutrality Target



<sup>\*</sup>Since the medium-term environmental goals within our Fifth Mid-Term Management Plan which ended in fiscal 2022 had been set under the scope of application before this review (old standards), the calculation results found through the old standards were used to evaluate the goal achievement status.





### Human Capital Strategies

**Promotion of DE&I** (Diversity Equity & Inclusion)

Building of flexible and robust human resources and organization

### Initiatives to Promote DE&I

#### Linkage with management strategy

Switch to HR portfolio in line with business division policies

#### Building of setup toward optimization of corporate value

- Enhancement of employee engagement
- > Fostering of autonomous-minded HR
- Introduction of in-house recruitment schemes

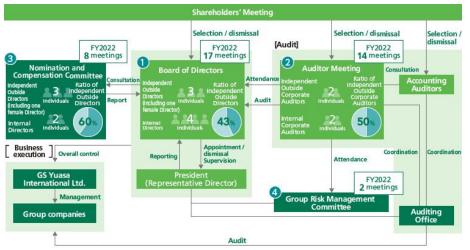
### Key indicator concerning the promoting women's empowerment Employment rate of people with disabilities

	FY2025 Target	FY2022 Result		FY2025 Ta	arget F	Y2022 Result	
Ratio of women among new graduates recruited for career-track positions	At least 30.0% each year	21.2%	Employment rate of people with disabilities* *As of April 1st, 2023		.67% more	2.52%	
Percentage of women among workers	17.0% or more	14.7%	<ul> <li>Initiatives to improve engagement</li> <li>In fiscal 2021, the Group introduced mentality management diagnosis to measure employees' mental health and engagement         <ul> <li>(enthusiasm for work and for the organization)</li> <li>Measure the conditions of employees and the organization once a year, promoting the PDCA cycle for organizational improvement activities</li> </ul> </li> </ul>				
	100.0		Important management index management diagnosis (de		FY2025 Target	FY2022 Result	
Men's rate	100.0%	45.4%	Employee engagement		53.9	49.0	
of taking childcare			Stress response		53.0	49.7	
leave		Work engagement		53.9	50.0		
		Mental toughness level		54.0	50.4		
			*1 Results for GS Yuasa International L employees seconded from other compa companies with 3,000 or more employee	td., including employees nies.*2 Target figures a ees). *3 This index corre	s seconded to other comp ire the top levels in the in elates both stress respons	anies and excluding dustry (manufacturing a and engagement.	

# **ESG** Initiatives <Governance>



### Corporate Governance Structure (FY2023)



#### <Skills matrix of directors and auditors>

			Knowledge	e and experie	nce expected	by GS Y	'uasa Corporati	on		Nomination
Name	Position or responsibility	Corporate / business management	Financial accounting	Legal affairs Risk management	IT Digitalization	Global	Manufacturing Development	Marketing Sales	ESG	and Compensation Committee
Osamu Murao	President Chief executive officer (CEO)	•		•			•		•	
Masahiro Shibutani	Vice President	•	•			•		•		
Kazuhiro Fukuoka	Director	•		•	•				•	
Hiroaki Matsushima	Director Chief financial officer (CFO)	•	•		•				•	
lkuo Otani	Director Outside Independent	•	•	•					•	(Chairperson)
Takayoshi Matsunaga	Director Outside Independent	•				•	•		•	
Yoshiko Nonogaki	Director Outside Independent	•				•		•	•	
Akio Furukawa	Corporate Auditor (Full-time)	•				•		•		
Masaya Nakagawa	Corporate Auditor (Full-time)	•				•		•		
Tsukasa Fujii	Director Outside Independent		•	•					•	
Akira Tsujiuchi	Director Outside Independent		•	•					•	

### Efforts to Strengthen Corporate Governance

■ Implement of **training for executives** for fostering of nextgeneration management

<Theme of training in FY2022>Purpose-driven management and implementation of sustainable management

Reinforcement of structures for reporting by internal auditing divisions

Appoint **female outside director** and enhance diversity

### Remuneration of Directors

<Composition of GS Yuasa Corporation's director remuneration>

Internal Directors	Basic remuneration 80%	short-term performance- linked remuneration 10%	Medium- to long-term performance- linked remuneration 10%
Outside Directors	Basic remuneration 100%		
Corporate Auditors	Basic remuneration 100%		

\*The figure is hypothetical with percentages calculated based on results for fiscal 2022 and may change due to variations in consolidated performance and other factors.

### Cross-shareholding

Possession of the shares of business partners and others can be expected to help maintain medium- to long-term relations, expand business, and promote synergy.

Accordingly, every year the Board of Directors examines the rationale behind the holdings of specific shares. If it is decided that there is no rationale for holding them, efforts are made to reduce them. In fiscal 2022, the Company sold a portion of its cross-shareholdings in accordance with these policies.



Q1.	<automotive batteries=""> Please tell us the quantity ratio of new automotive batteries and replacement batteries.</automotive>
A1.	In Japan, the quantity ratio is approximately 1:1 (It depends on fiscal year). We don't disclose the overseas ratio because it depends on region.
Q <b>2</b> .	<automotive batteries=""> Is there possibility that lead-acid batteries will not be used due to electrification?</automotive>
A2.	Lead-acid battery is definitely installed one per one electric vehicle such as EV or HEV. The use is for memory backup of car navigation while parking. Another use is for auxiliary equipment such as applying small current for door opening and closing and starting systems. We consider that lead-acid batteries will be used for starting systems because lithium-ion battery has extremely high voltage and it may be dangerous to stand by constantly.
Q3.	<automotive (overseas)="" batteries=""> Please tell us the sales ratio by region.</automotive>
A3.	Approximately, ASEAN : 50%, Europe : 30%, North America : 5%, Australia : 15%, the rest : other region (FY2023 result, it depends on fiscal year).
Q4.	<industrial and="" batteries="" power="" supplies=""> Please tell us the composition of net sales by product type.</industrial>
A4.	Approximately the use for backup (Emergency field) : 60%, for ESS (Regular field) : 10%, for forklifts : 20%, overseas : 10% (FY2023 result, it depends on fiscal year).
Q5.	<automotive batteries="" lithium-ion=""> Please tell us the strategy toward electrification from now on.</automotive>
A5.	We predict that HEVs will be the mainstream of electrification through the mid-2030s, and that EVs will come into the mainstream after that. Going forward, we expect to expand our annual production capacity of lithium-ion batteries for HEVs to 70 million cells in FY2025 to steadily meet demand from new car manufacturers. Regarding lithium-ion batteries for BEVs, we establish joint venture company, Honda • GS Yuasa EV Battery R&D Co., Ltd. with Honda for conducting R&D on high-capacity, high-output lithium-ion batteries with the aim of strengthening R&D and establishing an efficient production system.
Q6.	<automotive batteries="" lithium-ion=""> Please tell us net sales and operating income of LEJ and BEC.</automotive>
<b>A6</b> .	LEJ : Net sales was 21.1 billion yen and operating income was 1.6 billion yen, BEC : Net sales was 43.5 billion yen and operating income was 3.6 billion yen (FY2022 result).
Q7.	<others>What is the policy of shareholders return?</others>
A7.	We recognize the most important issue of management is return to shareholders, therefore, our target of total return ratio remains more than 30%.



Although this document has been prepared with information believed to be correct, GS Yuasa Corporation does not guarantee the accuracy or the completeness of such information. Also, the information herein contains forward-looking statements regarding the Company's plans, outlooks, strategies and results for the future. All the forward-looking statements are based on judgments derived from information available to the Company at the time of release. Certain risks and uncertainties could cause the Company's actual results to differ materially from any projections presented herein.



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