

# CSR Policy and Code of Conduct

Our Group has formulated a policy on responsible corporate conduct as guidelines for initiatives to achieve sustainability management. We are committed to the sustainable development of society and business through the promotion of business activities founded on the CSR Policy and Code of Conduct formulated in May 2017 as the President's Policy.

## CSR Policy

Besides legal compliance, we respect international norms, guidelines, and initiatives related to social responsibility, work on sustainable development of our business through developing energy storage technologies, and contribute to people, society, and global environment.

### 1. Developing Fair, Transparent, and Sound Business, and Anti-Corruption

GS YUASA conducts a transparent business policy which aims to earn the trust of customers, business partners, shareholders, and of local communities as a top priority. And to adhere to laws and regulations of each country and region. Furthermore, we address to prevent any kind of corruption, will not tolerate any illegal political contribution, bribery of public officials, and will not have relationships with personnel or organizations of organized crime.

### 2. Respect for Human Rights

GS YUASA will respect all human rights and fundamental labor rights, and will not tolerate any forced labor or child labor. We will also respect diversity, without any discrimination being tolerated.

### 3. Conservation and Improvement of Adequate Working Environment

GS YUASA will provide safe and comfortable working environments for employees. Proper management will be provided in order to promote mid to long-term development of human resources.

### 4. Fulfillment of Our Responsibilities to Provide Safe and Secure Products and Services

GS YUASA ensures the safety and quality of products/services to the end of their lifecycle throughout manufacturing. Furthermore, GS YUASA honest provides clear safety information for all products/services.

### 5. Global Environmental Conservation

GS YUASA addresses to prevent pollution, and to mitigate climate change, and to establish a sound material-cycle society through using sustainable resources.

### 6. Building Better Relationships with Local Communities

GS YUASA will contribute to sound and sustainable development of local communities through building better relationships with their local communities.

### 7. Ensuring Social Responsibility within Our Supply Chain

GS YUASA will promote actions to ensure social responsibility within our supply chain.

Date : May 1, 2017  
GS Yuasa Corporation

President **Takashi Abe**

## CSR Code of conduct

### 1. Developing Fair, Transparent, and Sound Business, and Anti-Corruption

#### 1-1. Compliance

- (1) We respect international and regional norms, guidelines, and initiatives, and also strictly comply with the laws and regulations in each country and region in which we operate.
- (2) As a member of the international community, we will comply with the export control laws and regulations of each country in order to maintain international peace and security, and we will not export in a manner to spread materials which could lead to the proliferation of weapons of mass destruction.

#### 1-2. Elimination of mixing up official business with personal affairs

We will never conduct to bring damage to the company, through misappropriation of corporate assets and corporate expenses only for one's personal ends or else with misfeasance allowing one's personal advantage.

#### 1-3. Fair, Transparent and free competition and trade

- (1) We will not engage horizontal agreements (cartel) through meeting and participation to trade association's activities, i.e. price and quantity fixing as well as exclusivity in distribution of products and services. Upon receipt of such proposal, we decline clearly without leaving no doubt to be misunderstood. To this extent, we will never act in collusion with other contractors, nor to fix the winning bidder and/or contract price.
- (2) We never act in abuse of dominant position, to take advantage of subcontractors, i.e., withholding the amount of subcontract payments without reasons attributable to the subcontractor or failing to make payment after the lapse of the due date of payment, or obtaining undue or improper advantage. Also, upon issuing our order to subcontractors, we will retain the written offer on paper or electronic record.
- (3) We will not obtain or use trade secret or data of other companies or firms in an unauthorized way.
- (4) We will not leave product labelling or service information inexact or unclear in a manner to cause customers misunderstanding.

#### 1-4. Management of confidential information

- (1) We observe the protection of confidential information and its appropriate use; then, at the event of disclosure to the third parties, we will disclose only after concluding confidentiality agreement.
- (2) We will observe the protection and appropriate use of confidential information received from our business partners and co-researchers or co-developers; We will not disclose to the third parties without the prior consent of the disclosing party.
- (3) Before assembling personal information, we will at first notify the purpose of use, and then collect in an appropriate way. The purpose of using personal information is to be limited and specified.
- (4) We will conserve personal information data in safety and control its use, then monitor in a suitable way the employees and subcontractors using/handling these data.
- (5) We always respect the individual privacy, so need to pay the most attention in handling their confidential information, learned from one's business relations or in the course of business, and at last, not to inform or leak to anyone without authority.
- (6) We will not commit so-called "insider trading", act of making max profit in stock and security exchanges transaction thanks to privileged acknowledgement of internal information, within our group and received from business partners.

#### 1-5. Respect for intellectual property

- (1) We will research sufficiently third parties' patents, industrial designs, trademarks and other intellectual property rights, prior to development, production, commercialization and delivery of, or providing our products and services.
- (2) We will not use intellectual property of a third party without authorization of intellectual property holder, unless we have a justifiable reason.
- (3) We will not unlawfully duplicate any software and other copyrighted works, i.e., Literature and images, Journalistic articles, Paintings, Music.

#### 1-6. Separation from organized crime

- (1) We will not provide any form of benefit in excess of the normal shareholder's right to any person or company associated with organized crime.
- (2) We will cut off business or any other relationships with individuals and organizations having an indication of support for organized crime.

#### 1-7. Transparency of information disclosure

We will disclose, within a specific time limit and with appropriate method, any information required by laws and regulations of each country and region in which we operate, as well as specific information to maintain good communication with other stakeholders and local communities.

**1-8. Legal compliance for political funds control**

We will not contribute for political funds, requesting some business advantage in return, such as acquisition or maintenance of trading, or access to nondisclosure information. Also, we will comply with the conditions stipulated by the laws and regulations of each country and region in which we operate before making political contributions.

**1-9. Prohibition to offer entertainment or gifts to public employees**

We will not offer money, entertainment, gifts, or other economic benefits, nor provide advantages to public employees or equivalent persons perceived as a conflict of interest.

**1-10. Sound relationship with business partners**

We will endeavor to maintain sound business relationships with our business partners; therefore we will not receive money, gift or entertainment offered from business partners exceeding commonly accepted limits.

**2. Respect for Human Rights**

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**2-1. Prohibition of discrimination and respect for diversity**

We will respect and honor diversity and will not discriminate anyone for any reason, including race, gender, sexual identity, nationality, national origin, disability, and religious or political opinions.

**2-2. Respect for individual personality**

We will not condone the removal of human rights of any individual person, including sexual harassment and power harassment, nor the reduction of personal dignity of others.

**2-3. Respect for labor rights**

We will respect labor rights including freedom of association and collective bargaining rights, in accordance with the laws of each country and region in which we operate.

**2-4. Prohibition of forced labor and child labor**

We will neither force labor, nor employ children under the legal working age. Furthermore, we will not tolerate forced labor or child labor in any way.

**2-5. Avoidance of complicity in human rights abuses**

Directly or indirectly, we will not be complicit in human rights abuse.

**3. Conservation and Improvement of Adequate Working Environment**

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**3-1. Conservation and improvement of safety and health in working environments**

We will maintain and improve working environments from the perspective of health and safety in accordance with laws and regulations of each country or region in which we operate.

**3-2. Ensuring appropriate working hours, securing minimum wages and prohibiting unreasonable wage reduction**

- (1) We will provide management in order to maintain appropriate working hours and will make every effort to take measures to prevent mental and physical health disorders caused by overwork.
- (2) We ensure that the salaries we pay are over the minimum wage of each country or region in which we operate, and that there will be no unreasonable reduction.

**3-3. Mid to long-term human resources development and appropriate ability assessment**

We will make every effort to proactively support career development in accordance with each employee's abilities and aptitudes. Performance of each employee will be assessed adequately.

**3-4. Respect for individual work-life balance**

We will make every effort to respect diverse working styles, so as to ensure work-life balance and to maintain physical and mental health of employees.

**3-5. Offer of equal employment and working opportunities**

We will offer equal opportunities in recruitment and promotion, as well as forbid any arbitrary or discriminatory treatments.

**4. Fulfillment of Our Responsibilities to Provide Safe and Secure Products and Services**

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**4-1. Focus on safety and quality**

We will address to prioritize safety and quality throughout our business. For this purpose, we will strive to provide safe products and services to maintain and improve satisfied quality for customers, through all our business activities which are research & development, design, procurement, production, sales and after-sales service.

#### 4-2. Making safety Information accessible

We clarify Safety Information on our products and services. Safety Information includes Instruction manuals supplied with products, Labelling of products, Web portal communication, etc. We will make Safety Information accessible for customers as well as for any other stakeholders involved in commercialization of our products and services.

#### 4-3. Solutions in case of product accidents

We address to prevent spin-off effects on the extent of damages of accidents as well as swiftly react in case a serious accident occurs on our product or service. And also, we investigate and collate the relative facts, research of causalities, make a necessary report on these inside and outside our company group, and then we disclose information so as to take preventive steps.

### 5. Global Environmental Conservation

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#### 5-1. Promoting environmental protection

- (1) We will evaluate environmental impact resulting from our business activities, products and services; strive for environmental protection (including prevention of pollution) through energy saving, greenhouse gas reduction, efficient use of raw materials and water as well as waste reduction and recycling; and aim to increase our environmental performance through continuous improvement of these aspects.
- (2) We will address to reduce the environmental burden resulting from the activities conducted at each stage of the life cycle of products and services, from acquisition of raw materials, development and design/conception, production, transportation, use, until end-of-life treatment and final disposal.
- (3) We will satisfy environmental needs corresponding to comply with environmental laws and regulations. In addition, if necessary, we address to develop our environmental risk management with operational control by voluntary management standards and for preventing accidents likely to lead to environmental pollution.

#### 5-2. Providing environmentally conscious products

We will contribute to the environmentally conscious society through the provision of products and services corresponding to the environmental requirements.

### 6. Building Better Relationships with Local Communities

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#### 6-1. Contribution to the sustainable development of communities

We recognize that we are member of the community and we aim to work together in cooperation with the local community which is our foundation. We will respect local culture and customs.

#### 6-2. Adoption of local human resources

We will actively adopt local human resources in the business activities of our overseas affiliates and contribute to the development of local communities through our business activities.

### 7. Ensuring Social Responsibility within Our Supply Chain

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#### 7-1. Responsible procurement promotion

We will share responsible procurement guideline among our suppliers, then address to promote Responsible Procurement upon interactive cooperation, aiming to ensure our social responsibilities across overall supply chain.

Date : May 1, 2017  
GS Yuasa Corporation

President **Takashi Abe**

## Materiality Response Plans (FY 2025)

Materiality	Activity outline	Scope of application	FY 2025		FY 2024	FY 2023	Category	Remarks
			KPI	Target Value / Reference Value	Result	Result		
Ensuring compliance	Provision of legal information and promotion of compliance training	Global	Number of significant compliance violations	None	None	None	Maintain	
		Domestic	Number of times compliance education information disseminated annually	16 times	16 times	16 times	Maintain	
		Overseas	Achievement rate of compliance training plan	100%	100%	100%	Maintain	
			Achievement rate for the significant compliance risk response plan	100%	100%	100%	Maintain	
Respect and protection for intellectual property	Promotion of the use of company intellectual property rights	Global	Achievement ratio of plan for acquisition of patents that contribute to business growth and new business creation	100%	100%	100%	Improve	
	Thorough avoidance of infringement third party intellectual property rights	Domestic	Number of incidents of third-party intellectual property rights infringements	None	None	---	Maintain	Established a new maintenance and management plan in FY 2024 and later
	Elimination of counterfeit products	Overseas	Number of websites shut down for selling counterfeit products	1,000	1,000	( 2 )	Improve	KPI changed starting in FY 2024 (Previous KPI: Number of investigations into infringing product manufacturing routes)
		Global	Number of civil lawsuits filed against makers and sellers of counterfeit products	100	---	---	Improve	Established a new maintenance and management plan in FY 2025 and later
Strict management of confidential information	Promotion of security measures and strengthening of illegal /inappropriate access monitoring	Global	Cyberattack response ratio at time of detecting high security alerts	100%	100%	100%	Maintain	
		Domestic	Information leak confirmation and response ratio at time of large data output	100%	100%	100%	Maintain	
	Promotion of information security training	Domestic	Ratio of employees passing information security proficiency test	95% or more	96%	96%	Maintain	
Respect for individuality	Promotion of human rights education	Domestic	Achievement rate of human rights training plan	100%	100%	100%	Maintain	
		Overseas	Achievement rate of harassment education plan	100%	100%	100%	Maintain	
	Thorough management of human rights risks	Domestic	Harassment incident response ratio	100%	100%	100%	Maintain	
Respect for Diversity	Women's empowerment	Domestic	Ratio of women in managerial positions	6.0% or more	4.6%	3.7%	Improve	
			Ratio of women in new graduates hired for career-track positions	30.0% or more	27.0%	25.4%	Improve, Maintain	
			Ratio of women in the workforce	17.0% or more	15.6%	14.7%	Improve	
			Achievement rate of training plan for female senior managers	100%	100%	100%	Maintain	
	Promotion of the employment of persons with disabilities	Domestic	Employment ratio of persons with disabilities (average over the fiscal year)	2.70% or more	2.83%	2.65%	Improve	
Human resources development	Promotion of human resource development programs	Domestic	Achievement rate of training plan for development of autonomous-minded human resources	100%	100%	100%	Maintain	
			Achievement rate of next-generation manager education plan	100%	100%	100%	Maintain	
Enhancement of work environments and occupational health and safety	Promotion of the thorough management of employees' working hours and prevention of the recurrence of long working hours	Domestic	Response ratio to prevent the recurrence of long working hours	100%	100%	100%	Maintain	
			Annual frequency of labor-management consultations relating to working hours	12 times	12 times	12 times	Maintain	
			Operational achievement rate of standard for number of days of paid leave taken annually	100%	99.4%	99.9%	Improve	
		Overseas	Number of instances of overtime work in excess of the statutory limit	None	( 67% )	( 68% )	Improve	KPI changed starting in FY 2024 (Achievement rate of overtime work reduction target)
	Thorough implementation of appropriate employment management	Domestic	Number of corrective recommendations from the Labor Standards Inspection Office based on spot inspections	None	None	None	Maintain	
	Promotion of a work-life balance	Domestic	Job turnover of full-time employee	2.3% Less than	2.1%	2.3%	Maintain	
	Promotion of health management	Domestic	Rate of high stress individuals	10% or less	9%	10%	Maintain	
	Promotion of occupational health and safety risk management	Global	Number of serious occupational accidents	None	None	None	Maintain	
			Number of workers not meeting internal blood lead concentration management standards	None	420	328	Improve	
Number of accidents resulting in missed work			28 or less	41	35	Improve		

## Materiality Response Plans (FY 2025)

Materiality	Activity outline	Scope of application	FY 2025		FY 2024	FY 2023	Category	Remarks
			KPI	Target Value / Reference Value	Result	Result		
Provision of high-quality products	Promotion of quality improvement and strengthening of quality communication	Global	Achievement rate of targets for claims and in-process defects	100%	105%	92%	Improve	
	Reinforcement of product safety management	Global	Number of serious product accidents	None	None	None	Maintain	
			Achievement rate of product safety-related incident reduction target	100%	37%	65%	Maintain	
			Achievement rate of product safety education plan	100%	70%	50%	Maintain	
Reinforcement of service provision	Domestic	Achievement rate of service promotion project plan	100%	100%	100%	Improve		
Promoting environmental protection	Promotion of effective use of water resources	Global	Ratio of reduction of water use (compared with FY 2018)	15.0% or more	14.8%	15.3%	Improve	
	Contribution to realization of low-carbon society	Global	Ratio of reduction of CO <sub>2</sub> emissions (compared with FY 2018)	15.0% or more	16.9%	13.7%	Improve	
	Prevention of environmental pollution	Global	Number of major environmental accidents	None	None	None	Maintain	
	Improvement in ratio of use of recycled materials in products provided to markets	Global	Ratio of recycled lead used as lead raw materials in lead-acid batteries	70.0% or more	72.4%	65.7%	Improve	
Developing and popularizing environmentally considered products	Expansion of market for GS Yuasa products contained in products contributing to the curbing of global warming	Global	Ratio of environmentally considered products in total sales of all products	45.0% or more	36.7%	38.7%	Improve	
Responsible procurement promotion	Responses to responsible mineral procurement	Global	Achievement rate of responsible mineral survey plan	100%	100%	100%	Maintain	
	Management of supply chain CSR risks	Global	Achievement rate of supplier CSR issues improvement plan	100%	100%	100%	Maintain	
			Achievement rate of internal education plan concerning responsible procurement	100%	100%	---	Maintain	Established a new maintenance and management plan in FY 2024 and later
			Achievement rate of internal education plan concerning responsible procurement	100%	100%	---	Maintain	

\* The scope of application may not cover all Group companies.

\* This plan is periodically reviewed, and as a result, there may be differences from the details of the plan disclosed last time.

\* Items in the "Improve" category indicate improvement plans with set targets (indicators and target values).

\* Items in the "Maintain" category indicate maintenance and management plans with set operational management standards (indicators and reference values).

# Response to Environment and Climate Change (TCFD)

The GS Yuasa Group recognizes that climate-related issues are one of our important management issues. In December 2019 we announced our support for the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), and we are working on climate-related information disclosure based on the TCFD framework.



In FY2021, we launched a project to examine climate-related risks and opportunities in accordance with the TCFD framework. The major scenarios adopted for our analysis of risks and opportunities were the 1.5°C scenario and the stated policies scenario (equivalent to the 3°C scenario). We devised strategies based on the short-term (FY2025), medium-term (FY2030), and long-term (FY2040 and FY2050) time axes.

In FY2023 we disclosed quantitative financial impact assessments for each business for some climate-related risks and opportunities.

## Governance

GS Yuasa International Ltd., our core operating company, plans and implements responses to climate change in the Group. The company's Board of Directors supervises the entire Group, receiving regular progress reports from GS Yuasa International Ltd. and providing guidance as necessary.

Policies, targets, and important topics related to the environment are formulated and deliberated upon by the Sustainability Promotion Committee\*1 and reported to the Corporate Executive Management Meeting and the Executive Briefing which is headed by the president.

### Governance structures relating to climate issues



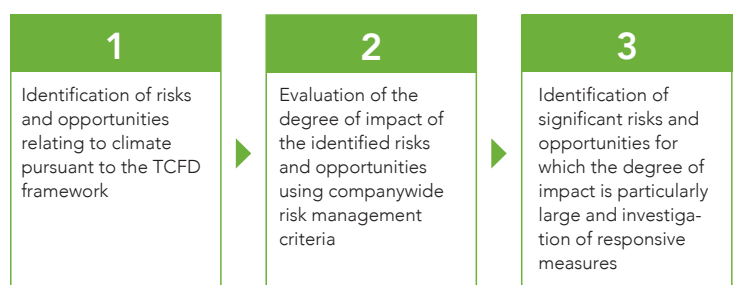
### Examples of past reports and agenda items related to climate change (FY2019–2024)

Meeting entity	Topics reported and discussed
Board of Directors	<ul style="list-style-type: none"> <li>Formulation of the Fundamental Environmental Policy</li> <li>Establishment of the GY 2030 Long-Term Greenhouse Gas Targets</li> <li>Disclosure of business strategies based on the TCFD</li> <li>Renewable energy procurement policy</li> <li>Setting of carbon neutrality targets</li> </ul>
Corporate Executive Management Meeting, Executive Briefing, Sustainability Committee, Sustainability Promotion Committee	<ul style="list-style-type: none"> <li>Endorsement of TCFD recommendations and membership of the TCFD Consortium</li> <li>Launch of the Energy Saving and Renewable Energy Project to reduce CO<sub>2</sub> emissions</li> <li>Progress report on the Energy Saving and Renewable Energy Project</li> <li>Introduction of internal carbon pricing (ICP)</li> <li>Introduction of in-house solar power generation</li> <li>Formulation of environmental targets in the Sixth Mid-Term Management Plan</li> </ul>

## Risk Management

Risks and opportunities are identified and evaluated through the process described below. Identified risks and opportunities, and the responses to them, are managed under our governance structures including the Sustainability Promotion Committee.

In FY2021, each business division and management division established a project team to conduct companywide analysis of scenarios and examine countermeasures.



# Strategy

## Assumed conditions / main scenarios

### Main scenarios used in scenario analysis\*1

Temperature increase	Main scenarios used	Overview
1.5°C	IEA*2 Net Zero Emissions by 2050 Scenario (NZE Scenario)	A scenario indicating what the world (policies, technologies, markets, etc.) needs to look like in order to achieve net zero global greenhouse gas (GHG) emissions by 2050 (assumed through a backcasting method)
	IPCC*3 RCP*4 2.6 Scenario and SSP*5 1-2.6 Scenario	RCP 2.6: A scenario that assumes future temperature rise to be limited to less than 2°C used in the IPCC Fifth Assessment Report SSP 1-2.6: A scenario for the introduction of climate policies to limit future temperature increases to less than 2°C under sustainable development used in the IPCC Sixth Assessment Report
3°C	IEA Stated Policies Scenario (STEPS)	A scenario based on energy and climate policies previously implemented and individual policies that are currently being implemented by individual governments
	IPCC RCP 8.5 Scenario and SSP 5-8.5 Scenario	RCP 8.5: A scenario with maximum GHG emissions used in the IPCC Fifth Assessment Report SSP 5-8.5: A scenario with no climate policies used in the IPCC Sixth Assessment Report

\*1 Scenario analysis uses the scenarios of public agencies and may differ from actual future social conditions. \*2 International Energy Agency  
\*3 Intergovernmental Panel on Climate Change \*4 Representative Concentration Pathways \*5 Shared Socioeconomic Pathways

## Time axis

	Short term	Medium term	Long term
End year	2025	2030	2050
Reason for adoption	Fifth (FY2019–2022) and sixth (FY2023–2025) mid-term management plan periods	Achievement period of the GY 2030 Long-Term Greenhouse Gas Targets and SDGs	Achievement period of the GY 2050 Carbon Neutrality Target

## Assumed social conditions based on scenario analysis

		Through 2025 (short term)	Through 2030 (medium term)	Through 2050 (long term)	
1.5°C scenario	Operations	Social demand for emissions reduction	-20%	-40%	
		Carbon price	\$75 / t-CO <sub>2</sub>	\$130 / t-CO <sub>2</sub>	
	Automotive related business	Changes in the automobile market	<ul style="list-style-type: none"> <li>Expansion of automobile electrification</li> <li>Structural changes in the automobile industry in conjunction with electrification</li> </ul>	Passenger cars (Global)	
				Number of vehicles (compared to present) •Sales: 1.3 times •Ownership: 1.6 times Percentage of EVs, PHEVs, and FCVs*6 •Sales: 64% •Ownership: 20%	Number of vehicles (compared to present) •Ownership: 2.1 times Percentage of EVs, PHEVs, and FCVs*6 •Sales: 100% •Ownership: 86%
		Development of alternative technologies to replace lead-acid batteries	<ul style="list-style-type: none"> <li>In conjunction with increasing demand for batteries for applications relating to transportation and electric power, prices will decline for alternative technologies, such as lithium-ion batteries, to take the place of lead-acid batteries</li> </ul>		
	Industrial battery and power supply related business	Changes in energy-related markets	<ul style="list-style-type: none"> <li>In conjunction with the rapid expansion of solar and wind power generation, demand for batteries used for electric power will expand</li> <li>Batteries for storing excess power from renewable energy sources will increasingly be converted to use for backup applications</li> </ul>	Motorcycles and three-wheel vehicles (global)	
Percentage of EVs •Sales: 85% •Ownership: 54%				Percentage of EVs •Sales: 100% •Ownership: 100%	
	Development of alternative technologies to replace lead-acid batteries	<ul style="list-style-type: none"> <li>In conjunction with increasing demand for batteries for applications relating to transportation and electric power, prices will decline for alternative technologies, such as lithium-ion batteries, to take the place of lead-acid batteries</li> </ul>			
Supply chains R&D	Raw materials	<ul style="list-style-type: none"> <li>Demand for lithium, nickel, and other resources will increase rapidly as demand for lithium batteries increases for use with energy storage technologies and renewable energy</li> <li>Competition to sustainably secure raw materials will intensify</li> </ul>			
	Acceleration of the circular economy*7	<ul style="list-style-type: none"> <li>Needs for products adapted to a recycling-oriented society will increase year-by-year</li> </ul>			
	Emergence and spread of alternative technologies to replace lithium-ion batteries	<ul style="list-style-type: none"> <li>As battery demand for transportation and electric power related applications expands, the development and spread of battery technologies with higher added value in terms of safety, energy density, cost, charging speed, and life span will progress</li> </ul>			
3°C scenario	Operations	Storm and flood damage, storm surges	<ul style="list-style-type: none"> <li>The frequency of flooding will more than double compared to now in Japan and other regions</li> <li>Sea levels will rise approximately 0.3 m</li> <li>The frequency of intense storms in the vicinity of Japan will increase</li> </ul>		
	Industrial battery and power supply related business	Storm and flood damage, storm surges	<ul style="list-style-type: none"> <li>Expansion of business relating to disaster countermeasures</li> </ul>		

\*6 EV: Electric Vehicle; PHEV: Plug-in Hybrid Electric Vehicle; FCV: Fuel Cell Vehicle

\*7 An economic mechanism for the circulation of resources without waste. Positioned as a medium- to long-term economic growth policy, particularly in European countries.

# Response to Environment and Climate Change (TCFD)

## Risks and opportunities

1.5°C scenario	Operations	● Introduction of carbon tax and renewable energy			
		<b>Risk</b>	Increased costs for energy saving and renewable energy to reduce CO <sub>2</sub> emissions		
		<b>Risk</b>	Increased carbon costs for the company's emissions in conjunction with the introduction of a carbon tax		
	Automotive related business	<b>Risk</b>	Increased carbon costs for emissions in upstream segments of supply chains	In the case of the 1.5°C scenario, targets for a major reduction of CO <sub>2</sub> will be required and carbon taxes will be introduced to achieve carbon neutrality. On the other hand, by implementing CO <sub>2</sub> reduction measures through the introduction of energy-saving equipment and renewable energy, it will be possible to reduce the carbon tax burden to a certain extent. Results of a scenario-based estimate of the financial impact indicated a risk that the introduction of a carbon tax will increase costs by about 3-4 billion yen over the medium to long term. By thorough energy saving and the planned introduction of renewables, however, the cost increase could be reduced to about 2 billion yen.	
		<b>Opportunity</b>	Higher demand for batteries in conjunction with increased sales and ownership of passenger vehicles		
		● Starting batteries and batteries for auxiliary equipment			
		<b>Opportunity</b>	Higher demand for batteries for auxiliary equipment used in EVs and PHEVs	In conjunction with expansion of the market for EVs, PHEVs, and other such vehicles, demand for starting batteries used in internal combustion engine vehicles is expected to decline, but demand for batteries for auxiliary equipment is expected to increase. Also, the shift from a certain number of lead-acid batteries to lithium-ion batteries is expected to advance.	
		<b>Opportunity</b>	<b>Risk</b>	Replacement of lead-acid batteries with lithium-ion batteries	As a result of our estimate of the financial impact, based on the establishment of certain conditions with reference to a scenario-based market, we concluded that while sales of starting batteries will decline sharply, overall sales could increase by 35-55 billion yen over the medium to long term due to a substantial increase in the demand for batteries for auxiliary machinery.
		<b>Risk</b>	Declining demand for starting batteries used in internal combustion engine vehicles		
	Industrial battery and power supply related business	● Batteries for HEVs* <sup>8</sup> , PHEVs, and EVs			
<b>Opportunity</b>		Higher demand for batteries used in EVs and PHEVs			
<b>Opportunity</b>		<b>Risk</b>	Fluctuations in HEV and PHEV demand (expansion in the short to mid-term, contraction in the long-term)	It is expected that over the short to medium term, sales of HEVs and PHEVs will increase, but in the long term, as sales of EVs increase substantially and account for approximately 100% of sales in 2050, the battery market will change.	
● Lead-acid batteries for backup applications and forklifts					
Supply chains R&D	<b>Opportunity</b>	Higher demand for batteries	Demand for batteries used in transportation and electric power related applications is expected to increase, but as technological innovation progresses, it is expected that prices for lithium-ion batteries and other such products will fall and that a certain number of lead-acid batteries will be replaced by lithium-ion batteries.		
	<b>Risk</b>	Replacement of lead-acid batteries with lithium-ion batteries			
	● Energy storage systems (ESS) for renewable energy				
	<b>Opportunity</b>	Higher demand for batteries and peripheral systems and devices	It is expected that in conjunction with the increased introduction of solar, wind, and other renewable energy generation, demand for batteries and peripheral systems and devices for electricity load leveling and the like will increase. As a result of our estimate of the financial impact, setting certain conditions with reference to a scenario-based market, we concluded that sales could increase by 7-22 billion yen over the medium to long term due to an expansion of the market for energy storage systems for renewable energy in Japan.		
Operations	● Raw materials procurement and circular economy				
	<b>Opportunity</b>	Improvement in the superiority of recyclable lead in a recycling-oriented society	Risks such as rising resource prices and difficulties in securing resources are expected over the short to medium term. On the other hand, with the development of alternative technologies, it is expected that tight supply and demand situations will be alleviated over the long term. It is also expected that competition relating to sustainable procurement of raw materials will intensify in terms of the environment and society.		
	<b>Risk</b>	Difficulty procuring and rising price for metal resources			
	<b>Risk</b>	Difficulty sustainably procuring and rising price for sustainable raw materials			
Industrial battery and power supply related business	● Technological innovation				
	<b>Opportunity</b>	<b>Risk</b>	Increased business opportunities as a result of leading development of next-generation batteries technologies (all-solid-state batteries, etc.)	It is expected that the development and spread of higher added value battery technologies (all-solid-state batteries, metal-air batteries, sulfur batteries, etc.) for transportation and electric power related applications will advance. In cases where the company can lead the development of new technologies, business opportunities will arise.	
	● Natural disasters and temperature rise				
	<b>Risk</b>	Increased damage to facilities due to storm and flooding disasters and increased loss of profit due to business suspension	There is a risk of greater impact due to increased storm and flooding damage, including property damage to facilities and machinery at the company's plants, loss of profits from business suspension, and the inability of workers to report to work. The interruption of supply chains is also anticipated. As a result of an examination of flood and storm surge risks based on future climate change impacts using natural disaster simulations, five sites and subsidiaries (two in Japan and three overseas) were evaluated as high-risk. In the event of a 100-year disaster at the Kyoto Plant, where the estimated scale of damage would be large, there could be a potential loss in sales of 9-13 billion yen over the medium to long term.		
Operations	<b>Risk</b>	Business suspension due to damage to supply chains			
	<b>Risk</b>	Increased costs for air conditioning and cooling processes			
	● Emergency power supplies				
Industrial battery and power supply related business	<b>Opportunity</b>	Increased demand for emergency power supplies as countermeasures against severe disaster	It is expected that demand for emergency power supplies will increase out of concern regarding intensification of natural disasters due to climate change.		





Note: Those items that were determined in the risk assessment to be of particular importance in the short to long term are listed. \*<sup>8</sup> HEV: Hybrid Electric Vehicle

## Direction of business strategies


		Now	2050
1.5°C scenario	Operations	Reduce CO <sub>2</sub> emissions by at least 30% by 2030 Implement measures for energy conservation and use of renewable energy	Further accelerate measures for achieving carbon neutrality Further implement measures for energy conservation and procurement of renewable energy
	Automotive related business	<b>Securing profits from lead-acid batteries for internal combustion engine vehicles</b> Introduce differentiated products, strengthen our sales capabilities, and increase sales of high-value-added products with a focus on regions where internal combustion engine business remains such as ASEAN	
		<b>Capture demand for batteries for auxiliary equipment used in electric vehicles</b> Capture demand for 12 V lead-acid or lithium-ion batteries for auxiliary equipment used in electric vehicles as well (for new automobiles and for replacement)	
		<b>Capture demand for redundant batteries used in electric vehicles</b> Capture demand for lithium-ion batteries used for backup of self-driving vehicles	
	<b>Expand production of lithium-ion batteries for HEVs and PHEVs</b> Production will increase, particularly for Japanese automakers, but will decline in the future		
<b>Full-scale entry into EV lithium-ion battery market</b> Invest development resources to enter the market for lithium-ion batteries used in EVs, which are used under demanding environments and must be highly reliably			
Industrial battery and power supply related business	<b>Apply automotive lithium-ion battery know-how to industrial applications</b> Establish a lineup that includes both lead-acid batteries and lithium-ion batteries for industrial applications according to market needs		
	<b>Focus on the renewable energy and energy management fields</b> <ul style="list-style-type: none"> <li>Strengthen operation, maintenance and inspection services</li> <li>Develop more price-competitive batteries</li> <li>Introduce products and services aligned with customer needs to capture demand for renewable energy</li> <li>Capture demand for peak cutting, peak shifting, and other energy management services for business sites</li> </ul>		
Supply chains R&D	<b>Develop the market for lead-acid batteries with high recycling rates</b> Commercialize lead-acid batteries compatible with the needs of a recycling-oriented society	<b>Conduct R&amp;D of and commercialize rare metal-free batteries</b> Promote R&D on and commercialize rare metal-free batteries such as sulfur cathode batteries	
	<b>Conduct R&amp;D of and commercialize post-lithium-ion batteries</b> Promote R&D of all-solid-state batteries and put them into practical application, promote R&D of and commercialize Si anode batteries, Li metal anode batteries, and sulfur cathode batteries		
3°C scenario	Operations	<b>Countermeasures against intensifying disasters</b> <ul style="list-style-type: none"> <li>Evaluate future risks including climate risks and implement countermeasures as necessary</li> <li>Undertake BCP including supply chains</li> </ul>	
	Industrial battery and power supply related business	<b>Contribute to countermeasures against intensifying disasters using backup power supplies</b> Focus on market expansion conditions and respond to needs	

## Metrics and targets


Sixth Mid-Term Management Plan (FY2023-2025)

 <p><b>CO<sub>2</sub> emissions</b> (compared with FY2018) At least <b>15%</b> reduction</p>	 <p><b>Water consumption</b> (compared with FY2018) At least <b>15%</b> reduction</p>
 <p><b>Percentage of environmentally considered products in total sales of all products</b> <b>45%</b> or more</p>	 <p><b>Ratio of recycled lead used as lead raw materials in lead-acid batteries</b> <b>70%</b> or more</p>

Target for reduction of CO<sub>2</sub> emissions (Scope 1 and 2)

 <p><b>2030</b> (compared with FY2018) At least <b>30%</b> reduction</p>	<p><b>2050</b> <b>Carbon neutrality</b></p>
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ICP (Internal Carbon Pricing)

 <p>The price will be set at <b>¥15,000</b> / t-CO<sub>2</sub> Use as reference information when making investment decisions regarding energy-saving and renewable energy measures</p>
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Contribution to Achieving SDGs through Materiality Response (FY 2025)

Materiality	Response Plans		Corresponding Social Issues	Supplement	Relevant SDGs										Scope of impact		
	Activity outline	KPI			3	4	5	6	7	8	9	12	13	16			
Respect and protection for intellectual property	Promotion of the use of company intellectual property rights	Achievement ratio of plan for acquisition of patents that contribute to business growth and new business creation	Promotion of high value-added technological innovations							8.2							Pos
Respect for individuality	Promotion of human rights education	1. Achievement ratio of human rights training plan 2. Achievement ratio of harassment education plan	Raising of awareness of respect for human rights			4.7											Pos
	Thorough management of human rights risks	Harassment incident response ratio	Promotion of safe and secure working environment	Protecting workers' rights by responding appropriately to harassment						8.8							Neg
Respect for Diversity	Women's empowerment	1. Ratio of women in managerial positions 2. Ratio of women in new graduates hired for career-track positions 3. Ratio of women in the workforce 4. Achievement ratio of training plan for female senior managers	Realization of rewarding workplaces	Promotion of enhanced work motivation among female employees						8.5							Pos
		Participation of women in decision making		Ensuring opportunities for women to train as candidates for senior positions			5.5										Pos
	Promotion of the employment of persons with disabilities	Employment rate of persons with disabilities	Promotion of full employment	Providing employment opportunities to persons who have the will and ability to work are able to work						8.5							Pos
Human resources development	Promotion of human resource development programs	1. Achievement ratio of training plan for development of autonomous-minded human resources 2. Achievement ratio of next-generation manager education plan	Promotion of skill development for young people			4.4											Pos
Enhancement of work environments and occupational health and safety	Promotion of the thorough management of employees' working hours and prevention of the recurrence of long working hours	1. Response ratio to prevent the recurrence of long working hours 2. Annual frequency of labor-management consultations relating to working hours 3. Operational achievement rate of standard for number of days of paid leave taken annually 4. Number of instances of overtime work in excess of the statutory limit	Realization of rewarding workplaces	Building of pleasant workplaces by ensuring safe and secure working environments						8.5							Neg
	Thorough implementation of appropriate employment management	Number of corrective recommendations from the Labor Standards Inspection Office based on spot inspections	Realization of rewarding workplaces	Building of pleasant workplaces by ensuring safe and secure working environments						8.5							Neg
	Promotion of a work-life balance	Job turnover of full-time employee	Realization of rewarding workplaces	Promotion of flexible work formats						8.5							Neg
	Promotion of health management	Rate of high stress individuals	Realization of rewarding workplaces	Maintenance and improvement of employee health						8.5							Neg
	Promotion of occupational health and safety risk management	Number of workers not meeting internal blood lead concentration management standards	Prevention of health damage	Prevention of deaths and illnesses due to exposure to harmful substances	3.9												Neg
Provision of high-quality products	Promotion of quality improvement and strengthening of quality communication	Achievement ratio of targets for claims and in-process defects	Improvement in energy efficiency	Reduction of needless energy consumption by curbing the occurrence of defective products					7.3								Neg
			Responses to natural resource depletion	Reduction of needless energy resource consumption by curbing the occurrence of defective products						9.4							Neg
			Reduce waste generation	Reduction of needless material consumption by curbing the occurrence of defective products								12.2					Neg
			Reduce waste generation	Reduction of needless waste by curbing the occurrence of defective products									12.5				Neg
	Reinforcement of service provision	Achievement ratio of service promotion project plan	Creation of highly reliable and robust infrastructure	Maintain public infrastructure by providing electric power infrastructure support services							9.1						Pos



## Contribution to Achieving SDGs through Materiality Response (FY 2025)

## ■ Content of Relevant Sustainable Development Goals and Targets

Goals		Targets	
No	Content	No	Content
	ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES	3.9	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination
	ENSURE INCLUSIVE AND EQUITABLE QUALITY EDUCATION AND PROMOTE LIFELONG LEARNING OPPORTUNITIES FOR ALL	4.4	By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship
		4.7	By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development
	ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS	5.5	Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life
	ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL	6.3	By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
		6.4	By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity
	ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL	7.3	By 2030, double the global rate of improvement in energy efficiency
	PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL	8.2	Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high value added and labour-intensive sectors
		8.5	By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value
		8.8	Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment
	BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION	9.1	Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all
		9.4	By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities
	ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS	12.2	By 2030, achieve the sustainable management and efficient use of natural resources
		12.4	By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment
		12.5	By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse
		12.7	Promote public procurement practices that are sustainable, in accordance with national policies and priorities
	TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS	13.3	Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
	PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS	16.4	By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime

## Contributing to the SDGs through products and services (GS Yuasa Corporation)

Business	Products and Services	Contributing to a sustainable society	Corresponding Social Issues	Relevant SDGs										
				3	6	7	8	9	11	12	13			
Automotive Batteries	Lithium-ion Batteries for Hybrid Electric Vehicle, Storage Batteries for Vehicles with Start-Stop Systems	Diffusion of automobiles with improved fuel consumption	Improvement in energy efficiency			7.3								
		Diffusion of automobiles with reduced fossil fuel consumption during driving	Responses to natural resource depletion							12.2				
		Diffusion of automobiles curbing greenhouse gas emissions thanks to reduced fossil fuel consumption during driving	Climate change mitigation									13.3		
	Lithium-ion Batteries for Electric Vehicle	Diffusion of non-fossil-fuel transport infrastructure to contribute to the realization of a low-carbon society	Resilient social infrastructure						9.4					
		Diffusion of automobiles with no fossil fuel consumption during driving	Responses to natural resource depletion								12.2			
		Diffusion of automobiles with no greenhouse gas emissions during driving	Climate change mitigation									13.3		
	Storage Batteries That Make Possible the Supply of Electric Power to Vehicles Equipped with Driving Safety Functions	Diffusion of automobiles providing advanced means of traffic safety	Halving the number of deaths and injuries from road traffic accidents		3.6									
			Improvement in traffic safety							11.2				
	Lead-acid Battery	Promotion of the reuse of resources through the supply of highly recyclable products	Realization of a recycling-oriented society									12.5		
	Recycling Used Products (Lead-acid Batteries)	Promotion of the reuse of resources through the supply of proper recycle schemes	Realization of a recycling-oriented society									12.5		
Industrial Batteries	Storage Batteries for Battery-powered Forklifts, Storage Batteries for Automatic Guided Vehicles, Storage Batteries for Battery-powered Vessel	Diffusion of non-fossil-fuel logistics and transportation infrastructure to contribute to the realization of a low-carbon society	Resilient social infrastructure						9.4					
		Diffusion of on-premise transport vehicles and ships with reduced fossil fuel consumption during operation	Responses to natural resource depletion								12.2			
		Diffusion of on-premise transport vehicles and ships with no greenhouse gas emissions during operation	Climate change mitigation									13.3		
	Storage Batteries for Hybrid Transfer Cranes, Hybrid Carrier Batteries	Diffusion of special vehicles with improved fuel consumption during driving	Improvement in energy efficiency			7.3								
		Diffusion of special vehicles with reduced fossil fuel consumption during driving	Responses to natural resource depletion									12.2		
		Diffusion of special vehicles curbing greenhouse gas emissions thanks to reduced fossil fuel consumption	Climate change mitigation									13.3		
	Storage Batteries for Battery-powered Trains, Storage Batteries for Hybrid Railcars	Diffusion of highly energy-efficient trains through the effective utilization of regenerated energy	Improvement in energy efficiency			7.3								
		Diffusion of trains curbing greenhouse gas emissions through the utilization of regenerated energy	Climate change mitigation									13.3		
	Storage Battery Facilities for Photovoltaic Power Generation, Storage Battery Facilities for Wind Power Generation	Diffusion of electric power systems with stable supplies of renewable energy	Increased use of renewable energy				7.2							
		Diffusion of electric power systems realizing the effective utilization of renewable energy	Improvement in energy efficiency				7.3							
		Diffusion of sustainable electric power systems	Resilient social infrastructure							9.4				
		Diffusion of electric power systems curbing greenhouse gas emissions through the utilization of renewable energy	Climate change mitigation										13.3	
	Storage Batteries for Virtual Power Plants (storage battery facilities used with electric power systems that comprehensively control energy resources according to supply and demand conditions)	Diffusion of electric power systems effectively utilizing renewable energy	Increased use of renewable energy				7.2							
		Diffusion of electric power systems optimizing the electricity supply-demand balance	Improvement in energy efficiency				7.3							
		Diffusion of energy infrastructure facilitating the stable supply of electricity	Resilient social infrastructure							9.4				
		Diffusion of electric power systems supporting long-term urban development plans	Sustainable urbanization								11.3			
		Diffusion of electric power systems curbing greenhouse gas emissions through the utilization of renewable energy	Climate change mitigation										13.3	
	Lead-acid Battery	Promotion of the reuse of resources through the supply of highly recyclable products	Realization of a recycling-oriented society									12.5		
Recycling Used Products	Promotion of the reuse of resources through the supply of proper recycle schemes	Realization of a recycling-oriented society									12.5			

## Contributing to the SDGs through products and services (GS Yuasa Corporation)






Business	Products and Services	Contributing to a sustainable society	Corresponding Social Issues	Relevant SDGs									
				3	6	7	8	9	11	12	13		
Power Supply Systems	DC Power Supply, Uninterruptible Power Supply	Stable electricity supplies to important facilities at times of power failure or other electricity trouble	Resilient social infrastructure					9.1					
	Photovoltaic Power Generating Systems	Realization of sustainable energy infrastructure through the supply of power generation systems using natural energy	Increased use of renewable energy			7.2							
		Stable electricity supplies to electrical load at times of power failure or other electricity trouble	Resilient social infrastructure					9.1					
		Diffusion of electric power systems supporting long-term urban development plans (purchased electric power peak reduction using photovoltaic power generation)	Sustainable urbanization						11.3				
		Diffusion of power generation systems curbing greenhouse gas emissions through the utilization of natural energy	Climate change mitigation									13.3	
	Electricity Storage System for Railway (E3 Solution System)	Diffusion of railway systems realizing high energy efficiency through the effective utilization of regenerated energy	Improvement in energy efficiency			7.3							
		Supply of electric power to trains at times of power failure or other electricity trouble	Resilient social infrastructure					9.1					
		Diffusion of railway systems curbing greenhouse gas emissions through the utilization of regenerated energy	Climate change mitigation									13.3	
	Charging and Discharging Devices for Vehicle-to-Everything (V2X) Systems That Supply Electric Power from Electric Vehicle Storage Batteries	Stable electricity supplies to facilities and housing at times of power failure or other electricity trouble	Resilient social infrastructure					9.1					
		Diffusion of electric power systems supporting long-term urban development plans (purchased electric power peak reduction using automotive batteries)	Sustainable urbanization						11.3				
Maintenance Service		Early restoration of energy infrastructure damaged at times of natural disaster (flooding, earthquake, etc.)	Decreased damage caused by disasters						11.5				
		Adaptation to climate change									13.1		
Industrial Membrane Products	Membrane Sheets and Wastewater Treatment Units for Sewage, Waste, Combined Septic Tanks, and Industrial Wastewater	Diffusion of wastewater treatment systems hygienically eliminating dirty water	Improvement in water quality		6.3								
	Membrane Devices for Recycling	Promotion of the reuse of resources by membrane devices to retrieve rare metals, etc. contained in liquid waste	Realization of a recycling-oriented society							12.5			
	Drinking Water Filter Membranes, Tap Water Purification Processing Filter Modules	Diffusion of water purifying systems to realize appropriate water quality	Safe water supply		6.1								
	Electrolytic Membranes for Electroplating	Reduction of plating defect ratio by using microporous membrane so that the sludge and gas occurring on electrodes during electroplating processing does not touch the substrate	Reducing waste generation								12.5		
Reduction of additive consumption through the use of membranes to curb the proliferation of plating additives		Improvement in resource efficiency				8.4							
Lighting Equipment and Ultraviolet Irradiation Device	LED Lighting Equipment, UV-LED Equipment (light sources that use technologies to cure plastics by irradiation with ultraviolet light)	Reduction of health hazard risks through the supply of lighting equipment that does not include harmful substances (mercury)	Ensuring healthy lives	3.9									
		Reduction of electricity consumption through the use of highly energy-efficient lighting equipment	Improvement in energy efficiency			7.3							
		Diffusion of lighting equipment curbing greenhouse gas emissions by means of low electricity consumption	Climate change mitigation								13.3		
	UV Lighting Equipment (equipment for curing plastics by irradiation with ultraviolet light)	Diffusion of UV curable technology that does not emit volatile organic compounds (reduction of health hazard risks due to chemical substances)	Ensuring healthy lives	3.9									
		Reduction of electricity consumption through the use of UV curable technology to realize high energy efficiency	Improvement in energy efficiency			7.3							
		Diffusion of UV curable technology to curb greenhouse gas emissions through low electricity consumption	Climate change mitigation								13.3		
	LED Lamps for Street Lighting	Securing a good visual environment so that road conditions and traffic conditions can accurately be determined at night	Halving the number of deaths and injuries from road traffic accidents		3.6								
			Improvement in traffic safety						11.2				
		Reduction of waste by enabling use of existing lighting equipment when replacing lamps with LED	Improvement in resource efficiency					8.4					
			Reducing waste generation									12.5	
Disaster Prevention Rechargeable LED Solar Lights	Reduction of electricity consumption through the use of highly energy-efficient lighting equipment	Improvement in energy efficiency			7.3								

Contributing to the SDGs through products and services (GS Yuasa Corporation)

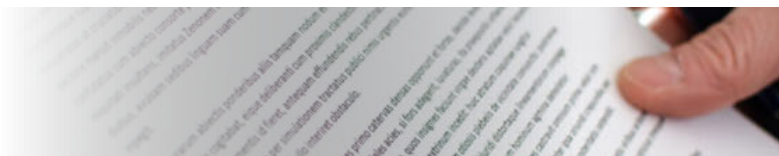
Business	Products and Services	Contributing to a sustainable society	Corresponding Social Issues	Relevant SDGs								
				3	6	7	8	9	11	12	13	
		Realization of energy infrastructure capable of responding at times when power supplies are disrupted due to natural disasters caused by climate change (flooding, earthquake, etc.)	Decreased damage caused by disasters							11.5		
		Diffusion of lighting equipment curbing greenhouse gas emissions through low electricity consumption	Adaptation to climate change									13.1
		Development of location-based services making advanced use of geospatial information (autonomous driving, disaster information transmission, smart farming, etc.)	Climate change mitigation									13.3
Lithium-ion Batteries for Special Applications, High Capacity Primary Lithium Batteries	Lithium-ion Batteries for Positioning System Satellites That Provide High-precision Positioning Services	Development of location-based services making advanced use of geospatial information (autonomous driving, disaster information transmission, smart farming, etc.)	Resilient social infrastructure					9.1				
	Lithium-ion Batteries for the Greenhouse Gases Observing Satellite	Promotion of international measures to counter global warming through the utilization of artificial satellites to supply highly accurate greenhouse gases observation data	Climate change mitigation									13.3
	Primary Lithium Batteries for Marine Observation Buoys	Promotion of international measures to counter global warming through the utilization of maritime observation data that plays an important role in medium- to long-term climate change forecasts	Climate change mitigation									13.3

\* The figures above indicate the numbers of the SDG targets related to each product and service.

■ Content of Relevant Sustainable Development Goals and Targets

Goals		Targets	
No.	Content	No.	Content
	ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES	3.6	By 2020, halve the number of global deaths and injuries from road traffic accidents
		3.9	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination
	ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL	6.1	By 2030, achieve universal and equitable access to safe and affordable drinking water for all
		6.3	By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
	ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL	7.2	By 2030, increase substantially the share of renewable energy in the global energy mix
		7.3	By 2030, double the global rate of improvement in energy efficiency
	PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL	8.4	Improve progressively, through 2030, global resource efficiency in consumption and production and endeavor to decouple economic growth from environmental degradation, in accordance with the 10-year framework of programmers on sustainable consumption and production, with developed countries taking the lead
	BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION	9.1	Develop quality, reliable, sustainable and resilient infrastructure, including regional and trans-border infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all
		9.4	By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities
	MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE	11.2	By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons
		11.3	By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries
		11.5	By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations
	ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS	12.2	By 2030, achieve the sustainable management and efficient use of natural resources
		12.5	By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse
	TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS	13.1	Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries
		13.3	Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

# GRI Content Index



## GRI Content Index

On this CSR website, we have referenced that the GRI (Global Reporting Initiative) standards 2016, an international guideline for companies' sustainability reports.

GRI Standards	Disclosure Title		References
General Disclosures			
The organization and its reporting practices	2-1	Organizational details	<a href="#">Corporate Profile</a> <a href="#">Stock Data</a> <a href="#">Investors' Guide (PDF)</a>
	2-2	Entities included in the organization's sustainability reporting	<a href="#">GS Yuasa's Offices &amp; Group Companies</a>
	2-3	Reporting period, frequency and contact point	<a href="#">Editorial Policy</a> [ Period covered, Final update, Inquiries ]
	2-4	Restatements of information	<a href="#">Editorial Policy</a> [ Material changes ]
	2-5	External assurance	<a href="#">Appropriate Environmental Information Disclosure</a> (GS Yuasa Corporation has not obtained third-party assurance for the report as a whole, but obtained only for Greenhouse gas emission data.)
Activities and workers	2-6	Activities, value chain and other business relationships	<a href="#">Investors' Guide (PDF)</a> <a href="#">News Release</a>
	2-7	Employees	<a href="#">Responses to Human Capital and Diversity</a>
	2-8	Workers who are not employees	
2 Governance	2-9	Governance structure and composition	<a href="#">Corporate Governance</a> [ Approach and Governance System ] <a href="#">Corporate Governance</a> [ CORPORATE GOVERNANCE Report(PDF) > Matters Relating to Organizational Structure and Operation / Matters Relating to Business Execution, Auditing/Oversight, Nomination, and Remuneration Decision-Making Functions ]
	2-10	Nomination and selection of the highest governance body	<a href="#">Corporate Governance</a> [ CORPORATE GOVERNANCE Report(PDF) > Policies and procedures for the appointment and dismissal of senior management and nomination of director and auditor candidates / Principle 4.9: Independent outside director independence standards and qualities ]
	2-11	Chair of the highest governance body	<a href="#">Corporate Governance</a> [ CORPORATE GOVERNANCE Report(PDF) > Matters Relating to Organizational Structure and Operation ]
	2-12	Role of the highest governance body in overseeing the management of impacts	<a href="#">Sustainability Promotion Process</a>
	2-13	Delegation of responsibility for managing impacts	<a href="#">Sustainability Promotion Process</a>
	2-14	Role of the highest governance body in sustainability reporting	<a href="#">Sustainability Promotion Process</a>
	2-15	Conflicts of interest	<a href="#">Corporate Governance</a> [ CORPORATE GOVERNANCE Report(PDF) > Principle 1.7: Related party transactions / Principle 1.4: Cross-shareholdings / Matters Relating to Organizational Structure and Operation ]
	2-16	Communication of critical concerns	<a href="#">Corporate Governance</a> [ Approach and Governance System ]
	2-17	Collective knowledge of the highest governance body	<a href="#">Corporate Governance</a> [ Corporate Governance Report(PDF) > Supplementary Principle 4.14.2: Training of directors and auditors]
	2-18	Evaluation of the performance of the highest governance body	<a href="#">Evaluating the effectiveness of the Board of Directors</a>
	2-19	Remuneration policies	<a href="#">Determination process and composition of remuneration</a>
	2-20	Process to determine remuneration	<a href="#">Corporate Governance</a> [ Corporate Governance Report(PDF) > Disclosed Details of Policy for Determining Amount or Calculation Method of Compensation > Status of Establishment of Non-Statutory Committee, Composition of Members, Affiliations of Head of Committee ]
	2-21	Annual total compensation ratio	

GRI Standards		Disclosure Title		References
General Disclosures				
	Strategy, policies and practices	2-22	Statement on sustainable development strategy	<a href="#">President's Message</a>
		2-23	Policy commitments	<a href="#">CSR Policy and Code of Conduct Sustainability Promotion Process</a>
		2-24	Embedding policy commitments	<a href="#">Sustainability Promotion Framework Sustainability Promotion Process Promotion of Responsible Procurement</a>
		2-25	Processes to remediate negative impacts	<a href="#">Internal Whistleblower Program Measures to Prevent Harassment</a>
		2-26	Mechanisms for seeking advice and raising concerns	<a href="#">Internal Whistleblower Program</a>
		2-27	Compliance with laws and regulations	No serious compliance violations have occurred
	Stakeholder engagement	2-28	Membership associations	UN Global Compact Keidanren Charter of Corporate Behavior Task Force on Climate-related Financial Disclosures
		2-29	Approach to stakeholder engagement	<a href="#">Communication with stakeholders</a>
3	Material topics	2-30	Collective bargaining agreements	<a href="#">Creating a Pleasant Workplace through Labor and Management Working as One</a>
		3-1	Process to determine material topics	<a href="#">Materiality Specification Process</a>
		3-2	List of material topics	<a href="#">Materiality and Response Plan</a>
		3-3	Management of material topics	<a href="#">Materiality and Response Plan</a>
Economic				
201	Economic Performance	103	Management Approach	<a href="#">Materiality-Related Initiatives</a>
		201-1	Direct economic value generated and distributed	<a href="#">Earnings Report</a> [ Earnings Report(PDF) > Statements of Income(Cost of sales, Selling, general and administrative expenses, Non-operating expenses, Extraordinary loss, Profit) ] <a href="#">Shareholders Return</a>
		201-2	Financial implications and other risks and opportunities due to climate change	<a href="#">Response to Climate Change (TCFD)</a>
		201-3	Defined benefit plan obligations and other retirement plans	<a href="#">Annual Securities Report</a> [ Annual Securities Report(PDF) ] (Japanese only)
		201-4	Financial assistance received from government	-
202	Market Presence	103	Management Approach	-
		202-1	Ratios of standard entry level wage by gender compared to local minimum wage	<a href="#">Securing the Minimum Wage</a>
		202-2	Proportion of senior management hired from the local community	-
203	Indirect Economic Impacts	103	Management Approach	<a href="#">Contribution to the SDGs through our business activities</a>
		203-1	Infrastructure investments and services supported	-
		203-2	Significant indirect economic impacts	<a href="#">Contribution to the SDGs through our business activities</a>
204	Procurement Practices	103	Management Approach	<a href="#">Building Better Partnerships</a>
		204-1	Proportion of spending on local suppliers	-
205	Anti-corruption	103	Management Approach	<a href="#">Anti-Corruption</a>
		205-1	Operations assessed for risks related to corruption	-
		205-2	Communication and training about anti-corruption policies and procedures	<a href="#">Education on Anti-corruption</a>
		205-3	Confirmed incidents of corruption and actions taken	<a href="#">Group Anti-Corruption Rules and Their Operational Framework</a>
206	Anti-competitive Behavior	103	Management Approach	-
		206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	No cases
207	Tax	207-1	Approach to tax	-
		207-2	Tax governance, control, and risk management	-
		207-3	Stakeholder engagement and management of concerns related to tax	-
		207-4	Country-by-country reporting	-

GRI Standards		Disclosure Title		References
General Disclosures				
Environmental				
301	Materials	103	Management Approach	<a href="#">Waste Management</a> <a href="#">Resource Recycling of Used Product</a>
		301-1	Materials used by weight or volume	<a href="#">Environmental performance data</a> [ Amount of main materials consumption ]
		301-2	Recycled input materials used	<a href="#">Environmental performance data</a> [ Amount of main materials consumption ]
		301-3	Reclaimed products and their packaging materials	<a href="#">Environmental performance data</a> [ Volume of used products recycling ]
302	Energy	103	Management Approach	<a href="#">Reduction of CO2 Emissions by Promoting Group-wide Energy Management</a> <a href="#">Energy conservation activities for logistics</a>
		302-1	Energy consumption within the organization	<a href="#">Environmental performance data</a> [ Amount of energy consumption (Production) ]
		302-2	Energy consumption outside of the organization	<a href="#">Environmental performance data</a> [ Amount of energy consumption (Physical distribution) ]
		302-3	Energy intensity	-
		302-4	Reduction of energy consumption	<a href="#">Effect of environmental conservation</a> [ Amount of energy saved ]
		302-5	Reductions in energy requirements of products and services	-
303	Water and Effluents	303-1	Interactions with water as a shared resource	<a href="#">Initiatives for Water Security</a>
		303-2	Management of water discharge-related impacts	<a href="#">Initiatives for Water Security</a>
		303-3	Water withdrawal	<a href="#">Changes in the water intake by the Group</a>
		303-4	Water discharge	<a href="#">Changes in the amount of wastewater</a> <a href="#">Status of violations of permits, standards, and regulations related to water quality and quantity</a>
		303-5	Water consumption	-
304	Biodiversity	103	Management Approach	-
		304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	-
		304-2	Significant impacts of activities, products, and services on biodiversity	-
		304-3	Habitats protected or restored	-
		304-4	IUCN Red List species and national conservation list species with habitats in areas affected by operations	-
305	Emissions	103	Management Approach	<a href="#">Reduction of CO2 Emissions by Promoting Group-wide Energy Management</a> <a href="#">Preventing Atmospheric Pollution</a>
		305-1	Direct (Scope 1) GHG emissions	<a href="#">Changes in Scope 1 and 2 emissions</a>
		305-2	Energy indirect (Scope 2) GHG emissions	<a href="#">Changes in Scope 1 and 2 emissions</a>
		305-3	Other indirect (Scope 3) GHG emissions	<a href="#">Our calculated Scope 3 emissions</a>
		305-4	GHG emissions intensity	<a href="#">Reduction of CO2 Emissions by Promoting Group-wide Energy Management</a>
		305-5	Reduction of GHG emissions	<a href="#">Environmental Mid- to Long-term Plans</a> [ CO2 emissions ]
		305-6	Emissions of ozone-depleting substances (ODS)	No cases
305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	<a href="#">Status of release and transfer of substances subject to the PRTR Law (Released into the air)</a>		
306	Waste	306-1	Waste generation and significant waste-related impacts	<a href="#">Contribution to Creating a Recycling-Oriented Society</a>
		306-2	Management of significant waste-related impacts	<a href="#">Contribution to Creating a Recycling-Oriented Society</a>
		306-3	Waste generated	<a href="#">Environmental performance data</a> [ Amount of waste discharged ]
		306-4	Waste diverted from disposal	<a href="#">Environmental performance data</a> [ Amount of recycling ]
		306-5	Waste directed to disposal	<a href="#">Environmental performance data</a> [ Amount of final disposal ]
308	Supplier Environmental Assessment	103	Management Approach	<a href="#">Specific Initiatives to Promote Responsible Procurement &gt; 2. Green Procurement</a>
		308-1	New suppliers that were screened using environmental criteria	<a href="#">Specific Initiatives to Promote Responsible Procurement &gt; 2. Green Procurement</a>
		308-2	Negative environmental impacts in the supply chain and actions taken	<a href="#">Specific Initiatives to Promote Responsible Procurement &gt; 4. Initiatives for Carbon Neutrality and Reduction in Water Consumption</a>

GRI Standards		Disclosure Title		References
General Disclosures				
Social				
401	Employment	103	Management Approach	<a href="#">Responses to Human Capital and Diversity</a> <a href="#">Ensuring Appropriate Working Hours</a> <a href="#">Respect for Individual Work-Life Balance</a>
		401-1	New employee hires and employee turnover	<a href="#">Responses to Human Capital and Diversity</a>
		401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	-
		401-3	Parental leave	<a href="#">Supporting Work Alongside Childcare/Nursing Care</a>
402	Labor/Management Relations	103	Management Approach	<a href="#">Respect for Labor Rights</a>
		402-1	Minimum notice periods regarding operational changes	<a href="#">Creating a Pleasant Workplace through Labor and Management Working as One</a>
403	Occupational Health and Safety	403-1	Occupational health and safety management system	<a href="#">Promoting Occupational Health and Safety</a>
		403-2	Hazard identification, risk assessment, and incident investigation	<a href="#">Reducing Occupational Accident Risk</a> <a href="#">Promoting Occupational Health and Safety</a>
		403-3	Occupational health services	<a href="#">Reducing Occupational Accident Risk</a> <a href="#">Health Management</a>
		403-4	Worker participation, consultation, and communication on occupational health and safety	<a href="#">Promoting Occupational Health and Safety</a> <a href="#">Creating a Pleasant Workplace through Labor and Management Working as One</a>
		403-5	Worker training on occupational health and safety	<a href="#">Raising Worker Awareness Concerning Safety</a>
		403-6	Promotion of worker health	<a href="#">Health Management Initiatives</a>
		403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	<a href="#">Specific Initiatives to Promote Responsible Procurement &gt; 1. Ensuring Quality and Safety</a>
		403-8	Workers covered by an occupational health and safety management system	<a href="#">Promoting Occupational Health and Safety</a>
		403-9	Work-related injuries	<a href="#">Materiality [ Enhancement of work environments and occupational health and safety ]</a> <a href="#">Reducing Occupational Accident Risk</a> <a href="#">Optimizing Work Hours</a>
		403-10	Work-related ill health	<a href="#">Materiality [ Enhancement of work environments and occupational health and safety ]</a>
404	Training and Education	103	Management Approach	<a href="#">Mid to Long-term Human Resources Development</a>
		404-1	Average hours of training per year per employee	<a href="#">Fostering Autonomous-minded Human Resources</a>
		404-2	Programs for upgrading employee skills and transition assistance programs	<a href="#">Fostering Autonomous-minded Human Resources</a>
		404-3	Percentage of employees receiving regular performance and career development reviews	<a href="#">Fostering Autonomous-minded Human Resources</a>
405	Diversity and Equal Opportunity	103	Management Approach	<a href="#">Respect for Individual Work-Life Balance</a>
		405-1	Diversity of governance bodies and employees	<a href="#">Promoting Women's Empowerment</a> <a href="#">Employment of People with Disabilities</a>
		405-2	Ratio of basic salary and remuneration of women to men	<a href="#">Annual Securities Report [ Annual Securities Report(PDF) ]</a> (Japanese only)
406	Non-discrimination	103	Management Approach	<a href="#">Prohibition of Discrimination and Respect for Diversity</a>
		406-1	Incidents of discrimination and corrective actions taken	No cases
407	Freedom of Association and Collective Bargaining	103	Management Approach	<a href="#">Respect for Labor Rights</a>
		407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	-
408	Child Labor	103	Management Approach	<a href="#">Strict Enforcement of Rules on Forced Labor and Child Labor</a>
		408-1	Operations and suppliers at significant risk for incidents of child labor	-
409	Forced or Compulsory Labor	103	Management Approach	<a href="#">Strict Enforcement of Rules on Forced Labor and Child Labor</a>
		409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	-
410	Security Practices	103	Management Approach	-
		410-1	Security personnel trained in human rights policies or procedures	-
411	Rights of Indigenous Peoples	103	Management Approach	-
		411-1	Incidents of violations involving rights of indigenous peoples	-

GRI Standards		Disclosure Title		References
General Disclosures				
413	Local Communities	103	Management Approach	<a href="#">Building Better Relationships with Local Communities</a>
		413-1	Operations with local community engagement, impact assessments, and development programs	-
		413-2	Operations with significant actual and potential negative impacts on local communities	-
414	Supplier Social Assessment	103	Management Approach	<a href="#">Responsible Procurement</a>
		414-1	New suppliers that were screened using social criteria	<a href="#">Promotion of Responsible Procurement</a>
		414-2	Negative social impacts in the supply chain and actions taken	<a href="#">Responsible Procurement Survey of Suppliers</a>
415	Public Policy	103	Management Approach	-
		415-1	Political contributions	<a href="#">Responsible Political Participation</a>
416	Customer Health and Safety	103	Management Approach	<a href="#">Quality Management</a>
		416-1	Assessment of the health and safety impacts of product and service categories	<a href="#">Initiatives for Product Safety</a>
		416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	<a href="#">Important announcement regarding products</a>
417	Marketing and Labeling	103	Management Approach	-
		417-1	Requirements for product and service information and labeling	<a href="#">Automotive/Motorcycle Batteries &amp; Chargers</a> <a href="#">Traction Batteries &amp; Chargers</a> <a href="#">Lighting Equipment (Japanese only)</a> <a href="#">Industrial Batteries/Power Supply Systems</a> <a href="#">Lithium-ion Batteries</a> <a href="#">Export Handling Product (Japanese only)</a>
		417-2	Incidents of non-compliance concerning product and service information and labeling	No cases
		417-3	Incidents of non-compliance concerning marketing communications	No cases
418	Customer Privacy	103	Management Approach	<a href="#">Information Security</a>
		418-1	Substantiated complaints regarding concerning breaches of customer privacy and losses of customer data	No cases