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	

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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					

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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		
			Adaptation to climate change								13.1
		Diffusion of lighting equipment curbing greenhouse gas emissions through low electricity consumption	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
3	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
6	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
7	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
8	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
9	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
11	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
12	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
13	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