1. Capturing Increased Demand Driven by Green

(1) Copper Mining Business

To ensure a stable supply of copper, for which demand is expected to grow due to the widespread adoption of electric vehicles (EVs) and renewable energy as part of the green transition, we will increase production capacity by expanding existing operations, developing new copper deposits, among other measures.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Contributing to the widespread adoption of electric vehicles and renewable energy by ensuring the stable supply of copper	Other land transport	Emissions of GHG	M
	Fossil fuels energy production	Emissions of GHG	VH

Note: Copper is an essential resource for the widespread adoption of EVs and renewable energy, and any supply shortfall could slow the pace of this adoption. By advancing our copper mining business and ensuring a stable supply of copper, Marubeni will contribute to the steady decarbonization of the automotive industry and the power industry, which are classified under the ISIC industrial classification as “Other land transport” and “Fossil fuels energy production.”

(2) Handling Renewable Energy in the Wholesale and Retail Power Business

Marubeni sells electricity utilizing renewable energy and expands provision of non-fossil certificates and renewable certificates.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing thermal power generation that uses fossil fuels	Fossil fuels energy production	Emissions of GHG	VH
		Emissions of non-GHG air pollutants	VH

1. Capturing Increased Demand Driven by Green

(3) Ocean Container and Pallet Materials Circulation

Marubeni Group company has established mechanisms (Container Round Use and Pallet Round Use) to share ocean containers and pallets materials used internationally among different shippers. These initiatives contribute to reducing environmental impact in the logistics sector for building sustainable supply chains.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing disposal of one way pallets	Treatment and disposal of non-hazardous waste	Generation and release of solid waste	M
	Silviculture and other forestry activities	Biomass provisioning	VH
Reducing environmental impact through the round use of containers and pallets (reducing empty transport)	Freight transport by road	Emissions of GHG	M

(4) Fleet Management Services for Corporate EVs

This new company has been established to provide fleet management services for corporate EVs, supporting corporate clients from adoption and operation to secondary use.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing GHG emissions during transportation through the shift to EVs	Other land transport	Emissions of GHG	M

Note: Promoting the shift to EVs will lead to the replacement of internal combustion engine vehicles (e.g., gasoline car) that use fossil fuels, thereby contributing to reductions in GHG emissions from the use of fossil fuels. Under the ISIC industrial classification, transport using internal combustion engine vehicles is included in “Other land transport,” which is why this sector was selected.

1. Capturing Increased Demand Driven by Green

(5) Aviation Aftermarket and Asset Trading Business

By capturing the ongoing expansion of demand for used aircraft and used aircraft parts driven by strong demand for air travel and the stagnant supply of new aircraft, Marubeni will leverage various functions for used parts procurement and sales, maintenance, tear-down and asset trading to provide optimum solutions to customers around the world, thereby contributing to the development of a circular economy.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing environmental impact at the raw material production stage through the reuse of used aircraft and used aircraft parts	Mining of iron ores	Emissions of water pollutants	H
		Emissions of soil pollutants	H
		Generation and release of solid waste	VH
	Mining of non-ferrous metal ores	Emissions of water pollutants	VH
		Emissions of soil pollutants	VH
		Disturbances	VH

(6) End-of-Life Tire Recycling Business

Marubeni aims to build a tire recycling supply chain ranging from the collection of End-of-Life tires(ELT) to the production and sale of recycled raw materials for tires, by leveraging recycling technologies to turn ELT into raw materials for tire production.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Supplying recycled materials for tire manufacturing and reducing the use of virgin materials	Growing of other non-perennial crops	Area of land use	H
		Volume of water use	H
Reducing environmental impact such as soil pollution and water pollution associated with the treatment and disposal of ELT	Treatment and disposal of non-hazardous waste	Emissions of soil pollutants	H
		Emissions of water pollutants	H

2. Initiatives Aimed at Forming New Markets Through Green

(1) Air Mobility Business

Marubeni will contribute to climate change mitigation and social issue resolution through the introduction of flying cars (electric vertical take-off and landing aircraft), which are gaining attention as a once-in-a-century revolution in mobility.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing traffic congestion through widespread adoption of air mobility, and reducing the use of internal combustion engine vehicles through modal shift	Other land transport	Emissions of GHG	M

(2) Forest Value Creation Business

Leveraging the expertise it has developed through its plantation project management, Marubeni will aim to maximize the value of forest resources and contribute to climate change mitigation, including the launch of a new afforestation business.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Preventing forests from being converted to other land uses by enhancing the value of forest	Silviculture and other forestry activities	Area of land use	VH
Avoiding the logging of natural forests by thinning operations	Silviculture and other forestry activities	Biomass provisioning	VH

2. Initiatives Aimed at Forming New Markets Through Green

(3) Battery Business Utilizing Second Life Batteries

Marubeni contributes to climate change mitigation and helps build a circular economy through the development of a grid-scale battery business utilizing second life automotive batteries.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing the use of virgin materials through the second life use of storage batteries	Mining of non-ferrous metal ores	Emissions of soil pollutants	VH
		Emissions of water pollutants	VH
		Ocean and seabed use	VH
		Generation and release of solid waste	H

Note: Reducing the production of new storage batteries contribute to reducing the use of virgin raw materials. The mining of key materials such as lithium and cobalt is classified under the ISIC industrial classification as “Mining of non-ferrous metal ores.” In this sector, key impact drivers at the extraction stage include soil and water pollution and ocean and seabed use (including undersea mining), and this initiative contributes to mitigating these impacts.

(4) Reuse and Recycling Business for Used Solar Panels

Marubeni contributes to the development of a circular economy through the reuse and recycling services for used solar panels.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing waste through reuse of solar panels	Treatment and disposal of hazardous waste	Generation and release of solid waste	M

3. Switching to Green Business Models

(1) Policy on Coal-Fired Power Projects and Thermal Coal Equity Interests, Approach to Renewable Energy Business

Marubeni has formulated a policy on coal-fired power projects and thermal coal equity interests, and contributes to climate change mitigation by actively pursuing initiatives aimed at renewable energy business.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Scaling down coal-fired power projects	Fossil fuels energy production	Emissions of GHG	VH
		Emissions of non-GHG air pollutants	VH

(2) New Energy Business

Marubeni contributes to climate change mitigation by driving initiatives in the field of new energy, including low-carbon ammonia, sustainable aviation fuel (SAF)/synthetic fuel, and CCS/CCUS businesses.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing fossil fuel use through substitution with low-carbon ammonia and other measures, and capturing and storing greenhouse gases (GHGs)	Fossil fuels energy production	Emissions of GHG	VH
		Emissions of non-GHG air pollutants	VH
	Air transport	Emissions of GHG	H
		Emissions of non-GHG air pollutants	M

Note: Low-carbon ammonia is mainly expected to be used as a fuel in thermal power plants. Therefore, widespread adoption of low-carbon ammonia contributes to the decarbonization of ammonia production and to reducing GHG emissions from fossil fuel use in thermal power generation.

3. Switching to Green Business Models

(3) Land-Based Recirculating Aquaculture Business

Marubeni contributes to the stable supply of marine products in ways that take the environment and ecosystems into account. For instance, it conducts sales through its participation in the Land-Based Recirculating Aquaculture Business, which is able to reduce impacts on the surrounding area and ecosystems, such as water pollution and fish escape.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Suppression of impact on ecosystems	Marine fishing	Biomass provisioning	VH
		Other biotic/abiotic resource extraction	H
Reducing environmental impacts such as marine water pollution	Marine aquaculture	Emissions of water pollutants	H

4. Greening Business Domains

(1) Finance, Leasing and Real Estate-Related Businesses

Investment corporations managed by the Marubeni Group are actively promoting the acquisition of environmental certifications for their real estate portfolios, from the perspective of reducing their environmental impact. They are also engaged in sustainability finance, utilizing the Sustainability Finance Framework (which received the highest rating of SU1(F)), they continuously raise funds through green loans and issue sustainability bonds.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Reducing energy consumption and improving energy efficiency through ZEB/ZEH	Fossil fuels energy production	Emissions of GHG	VH

(2) Respect for Human Rights, Expanding the Handling of Certified Products, Formulating Policies for Individual Procurement Commodities

Marubeni pursues efforts to build robust and sustainable supply chains which incorporate respect for human rights. We work to foster stakeholder confidence in Marubeni, enhance our competitiveness, achieve differentiation, and expand business opportunities.

Key contributions (green effect)	Representative sectors affected by the green effect, key impact drivers/dependencies, and materiality ratings		
	Sector	Impact driver / Dependency	Materiality ratings
Expanding certified materials and responsible commodity procurement	Growing of other non-perennial crops	Emissions of water pollutants	H
		Emissions of soil pollutants	H
	Manufacture of wearing apparel, except fur apparel	Emissions of water pollutants	M
	Tanning and dressing of leather; dressing and dyeing of fur	Emissions of water pollutants	H
	Silviculture and other forestry activities	Area of land use	VH
		Biomass provisioning	VH

Marubeni's Sustainability

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