Degree of impact.Medium impact:100 million JPY to 1 billion JPY;Large impact:1 billion JPY or more Occurrence period.Medium-term:Through about 2030;Long-term:Through about 2050

Sco	nario	Category	Driver	Impact	Degree	Occurrence	Related Initiatives
500					of impact	period	
1.5°C scenario	Transition risks	Policies/legal regulations	Increase in carbon pricing/Tighter regulations	 Costs increase when new carbon-related taxes are introduced Costs increase due to the installation of renewable energy and energy-saving equipment Energy procurement costs increase when purchasing renewable energy Costs increase due to energy transition 	Large	Medium to long term	 Introduction of renewable energy power generation facilities and energy-saving equipment for self-consumption using the ICP system Substantial shift to renewable energy through the use of FIT Non-Fossil Certificates with tracking Promoting carbon offset initiatives through forest absorption in company-owned forests Gathering information on fuel conversion and electrification of heavy machinery
		Technology	Development of new technologies	Demand for limestone decreases when alternative materials and technologies are developed	Large	Medium to long term	Developing new demand for limestone and promoting overseas exports
		Market	Expansion of Electrification Demand	Investment costs increase due to intensified competition for copper mine development projects	Large	Medium to long term	Continuous information gathering and risk management
	Opportunities	Technology	Development of new technologies	Demand for low-GHG emission products increases	Large	Medium to long term	Developing new manufacturing methods and products for POLYTETSU Promoting research and development that helps reduce GHG emissions
		Market	Expansion of Electrification Demand	Demand for copper used in power transmission lines and other applications increases Profitability of copper mines improves due to expanding copper demand	Large	Medium to long term	 Development of the Arqueros Copper Mine Exploring and entering in new development projects Increasing ore reserves through exploration around existing mines
			Expansion of Renewable Energy Demand	Greater possibilities for new development in geothermal power generation, solar power generation, and other areas	Large	Medium to long term	 Promoting geothermal development in Shiramizugoe Promoting the introduction of solar, wind, and small hydroelectric power generation facilities (including for self-consumption)
4°C scenario	Physical risks	Acute	Intensification of meteorological disasters (e.g. typhoons, floods)	Costs increase as we undertake disaster control measures and disaster recovery at production locations Sales decrease due to supply chain interruptions	Medium	Medium to long term	 Strengthening and continuously reviewing the Business Continuity Plan (BCP) Sustaining our stable supply system through decentralization of limestone mines Promoting and continuing to use recycled water Automating and improving efficiency of high-intensity work using AI and IT
nario		Chronic	Increase in mean temperatures	Risk of flood damage at coastal locations due to sea level rise Operations impacted by the increased risk of drought Productivity declines due to negative impacts on worker health	Medium	Long term	

[Reference scenarios]

1.5℃ scenario

4℃ scenario

• IEA,NZE scenario

• IPCC,RCP 8.5 scenario