

Heatmaps of Dependencies and Impacts on Natural Capital

The Rengo Group uses ENCORE to assess the degrees of dependencies and impacts on natural capital for each business in the Group, looking at all supply chains that include Rengo. Based on these assessment results, we create heatmaps indicating the degrees of these dependencies and impacts.

■ Paperboard and Packaging-Related Business (dependencies)

Supply chain stages		Corresponding businesses	Regulation & maintenance services																						
			Provisioning services				Production processes				Mitigation of direct impacts				Protection from disruptions										
			Animal-based energy	Wood and other materials	Genetic materials	Ground water	Surface water	Growing environment	Pollination	Soil quality	Ventilation	Water flow maintenance	Water quality	Bio-remediation	Dilution by atmosphere and water	Pollutants	People and the environment	Mass flows	Climate regulation	Disease control	Flood and storm protection	Erosion control	Pest control		
Upstream	Raw material procurement	Wood chip and pulp manufacturing																							
		Starch manufacturing																							
		Paperboard manufacturing																							
Rengo	Product manufacturing	Pulp manufacturing																							
		Paperboard manufacturing																							
		Corrugated packaging and folding carton manufacturing																							
	Product transportation																								

■ Paperboard and Packaging-Related Business (impacts)

Supply chain stages		Corresponding businesses	Inputs					Outputs									
			Terrestrial ecosystems	Freshwater ecosystems	Marine ecosystems	Other	Water	GHG	Air pollutants	Water pollutants	Soil pollutants	Solid waste	Biological interference and change	Noise and light pollution			
Upstream	Raw material procurement	Wood chip and pulp manufacturing															
		Starch manufacturing															
		Paperboard manufacturing															
Rengo	Product manufacturing	Pulp manufacturing															
		Paperboard manufacturing															
		Corrugated packaging and folding carton manufacturing															
	Product transportation																

■ Flexible Packaging-Related Business (dependencies)

Supply chain stages		Corresponding businesses	Regulation & maintenance services																				
			Provisioning services					Production processes				Mitigation of direct impacts			Protection from disruptions								
			Animal-based energy	Wood and other materials	Genetic materials	Ground water	Surface water	Growing environment	Pollination	Soil quality	Ventilation	Water flow maintenance	Water quality	Bio-remediation	Dilution by atmosphere and water	Pollutants	People and the environment	Mass flows	Climate regulation	Disease control	Flood and storm protection	Erosion control	Past control
Upstream	Raw material procurement	Petroleum and gas manufacturing																					
		Resin and film manufacturing																					
		Wood chip and pulp manufacturing																					
Rengo	Product manufacturing	Film manufacturing																					
		Film packaging manufacturing																					
		Cellophane manufacturing																					
	Product transportation																						

■ Flexible Packaging-Related Business (impacts)

Supply chain stages		Corresponding businesses	Inputs					Outputs								
			Terrestrial ecosystems	Freshwater ecosystems	Marine ecosystems	Other	Water	GHG	Air pollutants	Water pollutants	Soil pollutants	Solid waste	Biological interference and change	Noise and light pollution		
Upstream	Raw material procurement	Petroleum and gas manufacturing														
		Resin and film manufacturing														
		Wood chip and pulp manufacturing														
Rengo	Product manufacturing	Film manufacturing														
		Film packaging manufacturing														
		Cellophane manufacturing														
	Product transportation															

■ Heavy Duty Packaging-Related Business (dependencies)

Supply chain stages		Corresponding businesses	Regulation & maintenance services																					
			Provisioning services					Production processes				Mitigation of direct impacts			Protection from disruptions									
			Animal-based energy	Wood and other materials	Genetic materials	Ground water	Surface water	Growing environment	Pollination	Soil quality	Ventilation	Water flow maintenance	Water quality	Bio-remediation	Dilution by atmosphere and water	Pollutants	People and the environment	Mass flows	Climate regulation	Disease control	Flood and storm protection	Erosion control	Pest control	
Upstream	Raw material procurement	Petroleum and gas manufacturing																						
		Resin manufacturing																						
		Kraft paper manufacturing																						
		Wood chip and pulp manufacturing																						
		Paperboard manufacturing																						
Rengo	Product manufacturing	Film manufacturing																						
		Film packaging manufacturing																						
		Heavy duty packaging manufacturing																						
		Pulp manufacturing																						
	Product transportation																							

■ Heavy Duty Packaging-Related Business (impacts)

Supply chain stages		Corresponding businesses	Inputs					Outputs									
			Terrestrial ecosystems	Freshwater ecosystems	Marine ecosystems	Other	Water	GHG	Air pollutants	Water pollutants	Soil pollutants	Solid waste	Biological interference and change	Noise and light pollution			
Upstream	Raw material procurement	Petroleum and gas manufacturing															
		Resin manufacturing															
		Kraft paper manufacturing															
		Wood chip and pulp manufacturing															
		Paperboard manufacturing															
Rengo	Product manufacturing	Film manufacturing															
		Film packaging manufacturing															
		Heavy duty packaging manufacturing															
		Pulp manufacturing															
	Product transportation																

■ Other businesses (dependencies)

Supply chain stages		Corresponding businesses	Regulation & maintenance services																					
			Provisioning services					Production processes				Mitigation of direct impacts			Protection from disruptions									
			Animal-based energy	Wood and other materials	Genetic materials	Ground water	Surface water	Growing environment	Pollination	Soil quality	Ventilation	Water flow maintenance	Water quality	Bio-remediation	Dilution by atmosphere and water	Pollutants	People and the environment	Mass flows	Climate regulation	Disease control	Flood and storm protection	Erosion control	Pest control	
Upstream	Raw material procurement	Petroleum and gas manufacturing																						
		Coal manufacturing																						
		Resin and fiber manufacturing																						
		Aluminum manufacturing																						
		Metal and mineral manufacturing																						
		Precious metal and mineral manufacturing																						
		Steel manufacturing																						
Rengo	Product manufacturing	Nonwoven product manufacturing																						
		Packaging machinery manufacturing																						
	Product transportation																							

■ Other businesses (impacts)

Supply chain stages		Corresponding businesses	Inputs					Outputs									
			Terrestrial ecosystems	Freshwater ecosystems	Marine ecosystems	Other	Water	GHG	Air pollutants	Water pollutants	Soil pollutants	Solid waste	Biological interference and change	Noise and light pollution			
Upstream	Raw material procurement	Petroleum and gas manufacturing															
		Coal manufacturing															
		Resin and fiber manufacturing															
		Aluminum manufacturing															
		Metal and mineral manufacturing															
		Precious metal and mineral manufacturing															
		Steel manufacturing															
Rengo	Product manufacturing	Nonwoven product manufacturing															
		Packaging machinery manufacturing															
	Product transportation																