Task Force for Climate-Related Financial Disclosures, TCFD

According to the WEF's "Global Risk Report 2022", the "Climate action failure risk" has surpassed the "Extreme weather risk" to become the No.1 risk in the world, showing that the climate crisis is a material issue that enterprises have to actively respond to without delay. For a complete assessment of climate-related risks and opportunities, SYSTEX refers to the Task Force on Climate-related Financial Disclosures (TCFD) as an analysis framework.

Recommended Disclosure Details [Governance] Disclose the organization's governance around climate-related risks and opportunities. ■ SYSTEX has incorporated climate-related risks and opportunities into risk management. The Chief Sustainability Officer (a) Describe the board's oversight of climate (CSO) reports annually to the Chairman of the Board on climate-related management processes, including strategic related risks and goals, action plans and performance. opportunities. ■ The Board holds a meeting every two months on average to discuss business strategy issues and major events, such as governance, environment, social, risks and opportunities, etc. ■ In order to monitor and oversee progress against goals and targets for addressing climate-related issues, the Board has established the Audit Committee to monitor existential or potential risks. The Crisis Management Group, as the primary responsible unit for risk management, is fully responsible for risk management strategy, developing risk management guiding principles and reporting directly to the Group President. (b) Describe management's ■ The Sustainability Group is assigned climate-related responsibilities: SYSTEX has set up the "Sustainability Group" in role in assessing and 2020 with the highest governance level as the Chairman of the Board. The Chairman assigned the CSO as the Group managing climate related leader to coordinate climate-related risk assessment, formulate relevant strategies, goals and action plans, and risks and opportunities. regularly monitor the performance of ESG projects. The "Environment Team" under the "Sustainability Group" is responsible for the planning and implementation of climate change issues and environmental-related projects. ■ The associated organizational structure: (1) For more details on "SYSTEX ESG Governance Structure", please refer to https://tw.systex.com/en/corporate-

[Strategy] Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning where such information is material.

(a) Describe the climate related risks and opportunities the organization has identified over the short, medium, and long term.

■ The short-, medium- and long-term climate-related risks and opportunities:

	Туре	Short-term	Mid-term	Long-term
		Changing customer behavior	 Increased pricing of GHG 	Substitution of existing
	Transition Risks	Changes in cost of low-emission	emissions	products and services with
72.0	Transition Nisks	energy	 Costs to transition to lower 	lower emissions options
		 Increased stakeholder concern 	emissions technology	
	Physical Risks	Extreme weather events occur	 Changes in precipitation patterns 	Rising mean temperatures
	Resource Efficiency	Reduced water usage and	 Use of more efficient service 	Move to more efficient
	Resource Efficiency	consumption	processes	buildings
	Energy Course	Use of lower-emission sources of	 Use of new technologies 	
į.	Energy Source	energy	 Participation in carbon market 	
o tici trocad		• Development and/or expansion of	 Development of climate 	
3	Products & Services	low emission goods and services	adaptation and insurance risk	
d			solutions	
	Markets		Use of public-sector incentives	Access to new markets
	Resilience	Adoption of energy efficiency	 Resource diversification 	Participation in renewable
	Residence	measures		energy programs

SYSTEX Recommended Disclosure Details ■ The specific time horizon description: the short-term is within 1-2 years, the medium-term is 3-10 years, and the longterm is more than 10 years. ■ Financial impacts due to risks and opportunities: **Financial Impact** Risk Type **Opportunity Type Our Response** (Positive: +; Negative: -) Use of more efficient Changing (-) Increased cost of innovation due • Establish a one-stop "SYSTEX Green customer behavior service processes to changes in customer service Technology Carbon Reduction Roadmap" Use of new technologies to achieve common green benefits Increased processes stakeholder Increased lower-emission (+) Returns on investment in low-Set up an operation center in the Shalun Smart Green Energy Science City as a services emission technology concern Development of climate (+) Reputational benefits from Substitution of demonstration base existing products adaptation and insurance improved service processes and Innovate green and low-carbon services, and services with risk solutions efficiencies and continue to develop ESG solutions, (+) Increased customer demand such as E-solutions to reduce paper lower emissions Access to new markets and revenues due to shift in options **Transition Risks** usage customer preferences Net Zero Use of lower-emission (-) Increased operating costs due to • Participate in global initiatives (e.g., CDP) Commitment sources of energy replaced office energy-saving Set up the goal of "Net Zero by 2050"

Participation in carbon

Resource diversification

energy programs

market

equipment

emissions

Participation in renewable (+) Reputational benefits and

(+) Reduced operating costs due to

improved energy efficiency

increased customer demand

(+) Reduced exposure to GHG

Introduce environmental-related ISO

Promote internal energy efficiency

Strengthen internal energy-saving

projects, such as energy conservation,

water conservation, and waste reduction

promotion and conduct relevant training

Set up the goal of "100 Renewable Energy

certifications

courses

Usage by 2050"

R	Recommended Disclosure Details					
						Evaluate green building programs
			• Changes in cost of	Participation in carbon	(-) Increased costs of t-REC due to	Sing the "Corporate renewable power
			low-emission	market	insufficient renewable energy	purchase agreement, CPPA" with
			energy	 Development of climate 	supply	renewable energy suppliers
			 Increased pricing 	adaptation and insurance	(-) Increased operating costs due to	 Innovate green and low-carbon services,
			of GHG emissions	risk solution	higher carbon prices for	and continue to develop environmental
				 Use of public-sector 	compliance	solutions
				incentives	(+) Reduced operating costs due to	Evaluate the establishment of renewable
					use of lowest cost abatement	energy related equipment
					(+) Reduced exposure to GHG	
					emissions and therefore less	
					sensitivity to changes in cost of	
					carbon	
			Extreme weather	 Move to more efficient 	(-) Increased capital costs (e.g.,	Introduce ISO 45001 Occupational Health
			events occur,	buildings	damage to facilities)	and Safety System Certification
			including floods,	·	(-) Reduced revenues due to	Set up a Disaster Response Team and
			droughts and	adaptation and insurance	business interruption	develop the "Disaster Resolution
			typhoons	risk solution	(-) Reduced revenue and higher	Procedures", "Disaster Response and
		ks		 Reduced water usage and 	costs from negative impacts on	Tracking Processes", and personal safety
		Physical Risks		consumption	workforce (e.g., health, safety,	related tracking procedures
		ical			absenteeism)	Conduct regular crisis drills
		hys			(+) Increased value of fixed assets	
		1			(e.g., highly rated energy efficient	
					buildings)	
					(+) Protect against potential losses	
					from business interruptions	
					through enhancing climate	
					resilience	

Re	ommended Disclosure Details		
		 Rising mean temperatures Adoption of energy efficiency measures Move to more efficient buildings Development of climate adaptation and insurance risk solution (-) Increased operating costs and carbon emissions due to increasing electricity consumption (-) Increased operating costs and carbon emissions due to increasing electricity consumption (+) Improved energy efficiency due to energy-saving measures (+) Improved energy efficiency due to energy-saving measures (+) Increased value of fixed assets (e.g., highly rated energy efficient buildings) 	
(b)		 For more details on "SYSTEX Risk Assessment", please refer to https://tw.systex.com/en/risk_management/ For more details on climate-related risks and opportunities for business, strategic and financial plans, please see "Our Response" in the table of "Financial impacts due to risks and opportunities" above. 	
(c)	Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	■ Climate-related Scenarios: analysis of transition risks and physical risks for two climate-related scenarios of "IEA NZE 2050" and "RCP8.5" (1) IEA NZE 2050: According to the "2050 Net Zero Emission scenario" of the International Energy Agency, the global warming will be controlled with 1.5°C, and the energy transition will be promoted by replacing fossil fuels with low-emission electricity. It is expected that the carbon price will double in 2050 compared to 2030, and energy intensity will be reduced by 1% per year. Therefore, with an estimated 20% reduction in electricity consumption and a doubling of energy costs, the electricity costs are expected to increase by 60%.	

Recommended Disclosure		Details		
		■ (2) RCP8.5: According to the RCP8.5 scenario, it is estimated that the global mean temperature will increase by about 1.62°C in 2030, which is expected to increase electricity consumption by 9.7%. Therefore, in the case of a 25% increase in electricity prices in 2030, the electricity costs are expected to increase by 37%. Meanwhile, it is estimated that the global mean temperature will increase by about 2.59°C in 2050, which is expected to increase electricity consumption by 15.5%. Therefore, in the case of a 100% increase in electricity prices in 2030, the electricity costs are expected to increase by 131%.		
[Ri	[Risk Management] Disclose how the organization identifies, assesses, and manages climate-related risks.			
(a)	Describe the Organization's processes for identifying and assessing climate related risks.	■ Processes for identifying and assessing climate-related risks: The "Sustainability Group" reassesses climate-related risks every two year, assessing the impacts of transition risks and physical risks, so as to formulate corresponding strategies, goals and plans. The "Environment Team" affiliated to the "Sustainability Group" is responsible for the promotion, planning and implementation of environmental-related projects, and then its leader, the CSO, reports the progress of climate-related projects to the Chairman on from time to time.		
(b)	Describe the Organization's processes for managing climate related risks.	 Processes for managing climate-related risks: SYSTEX has incorporated climate-related risks and opportunities into risk management, and the CSO regularly reports to the Chairman on the management progress of climate-related projects, including strategies, goals and performance. Meanwhile, through conducting environmental-related ISO certifications, SYSTEX reviews the performance and effectiveness of climate mitigation-related projects, and then regularly discloses the results of implementation. Major risks identified through climate-related risk assessment: carbon price mechanism, changing customer behavior, and Net Zero Commitment 		

Red	commended Disclosure	Details		
	Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	■ Integrating climate-related risks with organization's overall risk management: (1) SYSTEX has incorporated climate-related risks and opportunities into risk management. The "Sustainability Group" reassesses climate-related risks every two year, assessing the impacts of transition risks and physical risks, so as to formulate corresponding strategies, goals and plans. The highest governance level of the "Sustainability Group" is the Chairman, who has assigned the CSO as the Group leader to coordinate climate-related risk assessment, formulating relevant strategies, goals and practice plans, and regularly monitoring the implementation of ESG plans. (2) The "Environment Team" affiliated to the "Sustainability Group" is responsible for the planning and implementation of climate crisis mitigation and environment-related projects, including conducting ISO certifications and carrying out other energy-saving and carbon-reduction measures. (3) As the leader of the "Sustainability Group", the CSO reports annually to the Chairman on progress and performance of ESG projects.		
_	[Metrics and Targets] Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material.			
(a)	Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	 Key metrics: (1) Resource conservation and waste reduction: water conservation, energy conservation and waste reduction (2) Continuously conduct ISO certifications (3) Renewable energy consumption 		
(b)	Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG)	■ Greenhouse gas emissions: According to the guidelines of "ISO 14064-1: 2018", SYSTEX collects and discloses emissions sources covering "Direct GHG Emissions (Category 1)", "Indirect GHG Emissions from Imported Energy (Category 2)", and "Other Indirect GHG		

Recommended Disclosure		Details
	emissions, and the related risks.	Emissions (Category 3-6)", and has been verified by an independent 3-party. The boundary of GHG inventory is the headquarters building.
(c)	Describe the targets used by the organization to manage climate related	■ SYSTEX sets climate-related short-term, medium-term and long-term goals, and promotes various projects to achieve the goals through the internal management mechanisms. For more details on "SYSTEX Environment Goals, Target of Net Zero Emissions and Performance", please refer to https://tw.systex.com/en/sustainable-environmental-policy/
	risks and opportunities and performance against targets.	