

Information Disclosure Based on the Recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) (Update)

Issue: March 18, 2022 Update: March 17, 2023

PIOLAX, INC.



Major updates

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- Section1 Governance
- Section2 Strategy
- Section3 Risk Management
- Section4 Indicators and Targets (KPI)
- Section5 Statement of Support for the TCFD Recommendations



1. Analysis of risks and opportunities based on the TCFD in our bases in North America and China · · · P12 to 14

Subject bases

U.S.: PIOLAX CORPORATION (Sales and Design Office, Michigan) (Head Office and Plant, Georgia) Mexico: PIOLAX MEXICANA S.A. de C.V. (Nuevo Leon) China: PIOLAX (CHINA) CO., LTD. (Shanghai) , DONGGUAN PIOLAX CO., LTD. (Dongguan), WUHAN PIOLAX CO., LTD. (Wuhan)

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Introduction



Piolax discloses information on climate change-related risks and opportunities based on the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), as the information can be incorporated into the management strategies for sustainable growth and medium- to long-term development and also be effectively utilized in stakeholder engagement.



Requirements of TCFD Recommendations					
Governance Strategy		Risk Management	Indicators and Targets (KPI)		
Board's oversight	Risks and opportunities identified over short/medium/long terms	Corporate processes for identification and assessment	Criteria used for evaluation		
Management's role in assessment and management	Impact on business, strategy and financial planning	Explanation of risk management	GHG Protocol Scope1 to 3 emissions and related risks		
	Resilience of organization's strategy under different climate change scenarios, including 1.5°C scenario	Integration of climate- related risk management into overall risk management	Management targets and performance		

• Source: Final Report, Recommendations of the Task Force on Climate-related Financial Disclosures (TCFD)

• GHG Protocol: Greenhouse gas accounting standards

Section 1

PIOL/X

Governance

[Recommended disclosures]

- Board's oversight
- Management's role in assessment and management



Governance on Climate Change

In December 2021, we established Sustainability Committee to deliberate sustainability issues including climate change measures. The committee is chaired by the representative director and consists of directors and other members, and meets four times a year.

To respond to risks and opportunities posed by climate change, company-wide policies and targets and specific measures are deliberated at Sustainability Committee, then discussed at the Management Meeting about the relationship and consistency with management strategies, and finally determined by the Board of Directors. The representative director participates in discussions at the Management Meeting and executes measures determined by the Board of Directors across the group.

Governance Related to Climate Change	Overview of Sustainability Committee			
Shareholders	Committee	Chairperson: Representative Director		
Appoint/Dismiss Appoint/Dismiss r Board of Directors Directors		Members: Elected from among directors an appointed by the chairperson		
(Business execution) Audit/Supervise Its members	Secretariat	Corporate Planning Group, Management and Planning Dept.		
Entrust Management Meeting Representative Director	Frequency	Meeting: Four times/year (whenever necessary) Report to the Board of Directors: Twice a year		
(Executive Officers) Report	agenda	Respond to TCFD. Identify all company-wide risks and opportunities through committee and project activities. Review materiality and portfolio. Discuss sustainable management targets.		
SBU* depts / Non-SBU depts Group companies				
* SBU: Strategic Business Unit	Other	Subcommittees are established for individual themes.		





Strategy

[Recommended disclosures]

- Risks and opportunities identified over short, medium and long terms
- Impact on business, strategy and financial planning
- Resilience of the organization's strategy under different climate change scenarios, including 1.5°C scenario



Progress in Strategy Implementation

To deal with CASE (Connected, Autonomous, Shared, Electric), once-in-a-hundred-years transformation of the automotive industry, and global warming by climate change, we have identified risks and opportunities for our mainstay automobile-related business with a time frame up to 2050 focusing on the domestic business. At the same time, we announce our targets in the domestic business areas to achieve carbon neutrality by 2050. In FY2022, we began analysis at our bases in North American (U.S. and Mexico) and China. We will promote group-wide initiatives including analysis of other overseas bases and non-automotive businesses.

Business Environment

1.5°C scenario	Efforts for carbon neutrality and resource circulation are requested by stakeholders including customers, and carbon tax and regulations on fuel efficiency and exhaust emissions are tightened. In the automobile-related business, the transition to CASE, notably electrification, is accelerated and response to it becomes urgent.
4ºC scenario	Since disasters (wind and flood damage) occur frequently due to extreme weather posed by temperature rise and coasts erode with the rising sea level, implementing a business continuity plan including the supply chain becomes urgently necessary while actions for carbon neutrality, resource circulation and automobile structural reform are

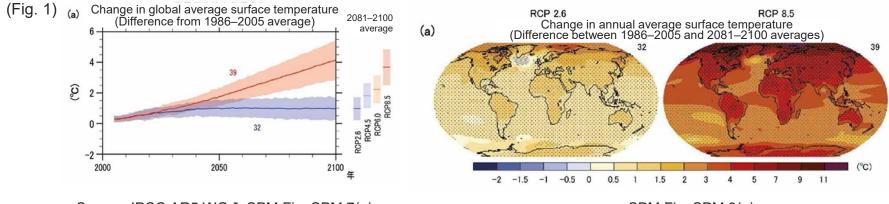
taken in a limited manner.

1. Progress in Strategy Implementation / Business Environment



Scenario Settings and Time Frame

- Climate change-related analysis (Fig. 1) is based on RCP2.6 and RCP8.5 scenarios*² in the "Fifth Assessment Report" of IPCC*¹ as well as impacts of 1.5°C and 2°C shown in the IPCC "Special Report on Global Warming of 1.5°C" with reference to the IEA WEO 2021 Report.
- The trend of electrification, a typical example of CASE, is surveyed. (Fig. 2 on the next page)
- Time frame: The time when impacts of risks and opportunities come to the surface is defined in three stages.
 - Short term: 2024 [Three years from 2022]
 - Medium term: 2030 [Achievement of SDGs (Sustainable Development Goals)]
 - Long term: 2050 [Goal of limiting global average temperature rise to 1.5°C]



Source: IPCC AR5 WG I SPM Fig. SPM.7(a)

SPM Fig. SPM.8(a)

- ^{*1} IPCC: Intergovernmental Panel on Climate Change
- ^{*2} RCP2.6 scenario: Global average temperature rise at the end of 21st century is suppressed to less than 2°C compared to before Industrial Revolution

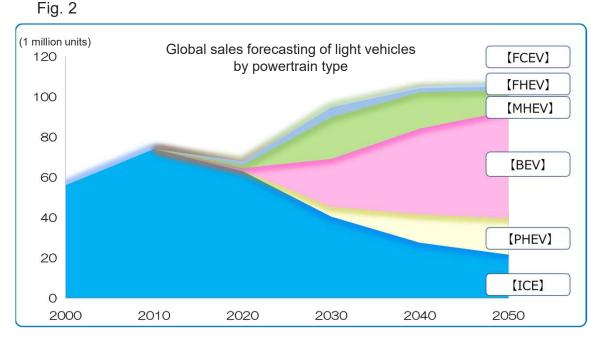
RCP8.5 scenario: Rise of around 4°C compared to before the Industrial Revolution

RCP: Representative Concentration Pathways



Prediction of Automobile Electrification

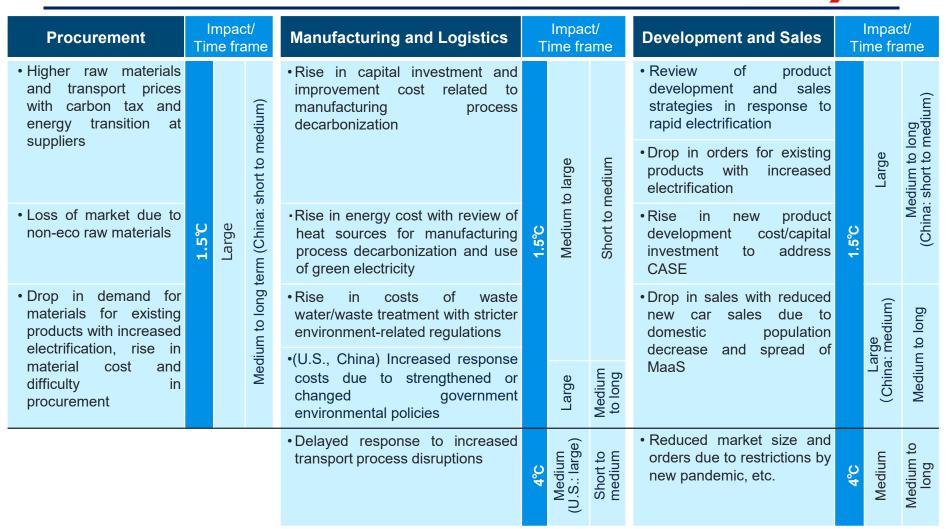
The proportion of production volume by powertrain type was calculated on a medium- to long-term basis and used to identify risks and opportunities for the transition of our automobile-related business unit (fasteners, powertrain parts, fuel system parts, opening and closing mechanism parts).



FCEV: Fuel cell electric vehicle FHEV: Hybrid-Full MHEV: Hybrid-Mild PHEV: Plug-in hybrid electric vehicle BEV: Battery electric vehicle ICE: Internal combustion engine

Footnote #1: This graph is based on the update of March 2022, IHS Markit Global Engine Forecast. Footnote #2: PHEV data is created by Piolax, based on IHS Markit data. Footnote #3: Numbers from 2033 onwards is created by Piolax, based on IHS Markit data.

2. Risks and Opportunities (Transition Risks and Opportunities -1) [Transition risks]



Degree of impact

Large: A failure to respond has a great impact on the survival and growth of the company and its businesses.

Medium: A failure to respond poses a limited impact and does not affect the survival and growth of the company and its businesses.

2. Risks and Opportunities (Transition Risks and Opportunities -2) [Opportunities and Measures]

	Procurement	Manufacturing and Logistics	Development and Sales		
Opportunity	 Review raw materials (conversion to eco- friendly or recycled ones), suppliers, product designs, etc. to promote actions for decarbonization and resource recirculation, and differentiate us from competitors. (U.S., China) Increase local procurement of raw materials to strengthen competitiveness. (Realize cost reduction and stable procurement.) 	 Accelerate efforts to improve productivity through factory automation and decarbonize domestic facilities. 	 Promote and accelerate co-creation activities with customers to increase sales of products for CASE. (U.S., China) Strengthen sales expansion to non-Japanese OEMs and increase market share focusing on fastener parts, etc., which are less affected by electrification 		
Measure	 Resin material: Use of bioplastics Metal material: Replacement with low-CO2 materials Cost reduction through procurement of locally produced goods Reduction of energy used for transport Purchase of decarbonized energy sources 	 Moka Plant renewal to improve productivity Thorough energy conservation Reduction of energy consumption by replacing utility system Improvement of thermal efficiency of injection molding machine Gas replacement in heat treatment furnace (LPG → LNG) 	 Development and sales of new products for CASE Increase of existing market share mainly in fuel and drive system components (Short-term response to demand for ICE vehicles) 		
		[Reference] • P16: Moka Plant renewal plan •P20: Roadmap for carbon neutrality by 2050	[Reference] • P15: Actions for CASE		

2. Risks and Opportunities (Physical Risks and Opportunities -1) [Risks and Measures]



	Chronic Risk	Imp Time		Acute Risk	Т	Impact/ ime frar	
	• Rise in air conditioning cost with temperature rise and health hazards to employees	(0020	(a) (c)	 Impact on plant operations due to supply chain disruptions caused by increased natural disasters 		Medium J.S.: large)	dium
	 Degradation of raw material and product quality with temperature and humidity rise 	ium to	L Me			E)	Short to medium
~	• Shutdown of operations and vessels due to inundation of coastal sites by rising sea levels	Med		 Decrease in orders due to delay in responding to changes in performance requirements from automakers as a result of rising temperatures 		Medium	Short
Physical risk	 Suspension of operations due to decrease in 	ပ	4 °C (Chii	 Delay in reviewing procured materials in response to performance requirements from automakers due to rising temperatures 	4 °C	large	
Phys	available water resources caused by rapid drop (or depletion) of groundwater level	of operations due to decrease in the part of operations due to decrease in the part of the part	thort)	 Increased procurement/logistics costs due to increased natural disasters 		Medium to large n to long	o long
			 Shutdown of plant and warehouse due to abnormal weather and increase in repair cost 		_	Medium to long	
			Medium (I	Medium (f	 Destabilization of energy supply due to abnormal weather 		Medium to large (China: large)
Measure	 Infrastructure development to strengthen plant and warehouse resilience Improvement of work and material storage environment through thermal management (room temperature and humidity) Introduction of water circulation system through water management Review of risk assessment with BCP database including supply chain Review of risk assessment with BCP database including supply chain Review of risk assessment with BCP database including supply chain Review of risk assessment with BCP database including supply chain 		locally on and r arehouse nd enha	e ance			



Initiatives for CASE Response: Strengthen Co-creation Activities with Customers



We foresee a risk of decline or loss of orders for existing products as the electrification of vehicles advances and the need for internal combustion engines decreases.

On the other hand, this major change also provides new business opportunities, so we set up e-Products Development Department dedicated to developing and expanding sales of CASE products in April 2022. Products that we are focusing on are as follows.

- Battery-related products for electrification
- ADAS-related sensor/camera peripherals for autonomous driving
- Products related to e-Axle (EV drive motor system) which accelerates EV shift
- Vibration control products to secure quietness inside vehicles

3. Measures to address risks and opportunities



Construction of new Moka Plant

•Moka Plant (Moka City, Tochigi Prefecture), our core plant in Japan, will be renewed by FY2025.

It aims to improve productivity and enhance resilience through the introduction of factory automation (addressing physical risks).

• Promote infrastructure development toward carbon neutrality by 2050 (response to transition risks). (See P20.)

<u>Schedule</u>		
■Phase I		■Phase II
Dec. 2022	Start of construction	FY2024 Start of construction
FY2023	Operation	FY2025 Operation







Risk Management

[Recommended disclosures]

- Corporate processes for identification and assessment
- Explanation of risk management
- Integration of climate-related risk management into overall risk management



Identification, Assessment and Management of Risks

- Sustainability Committee will handle company-wide integrated management of various risks and opportunities, including climate change. We will identify risks and opportunities that could affect our group's business activities, develop an action plan based on the assessment of their importance, and monitor the progress.
- The risks and opportunities related to climate change are considered to have a particularly large impact on our group's business activities. Therefore, we will consider a medium- to long-term action plan, also continuously review it based on external evaluations, and strive to manage it appropriately. In FY2022, subcommittees were set up under Sustainability Committee to work on individual themes. We will enhance our organizational response to sustainability-related risks, including climate change risks.





Indicators and Targets

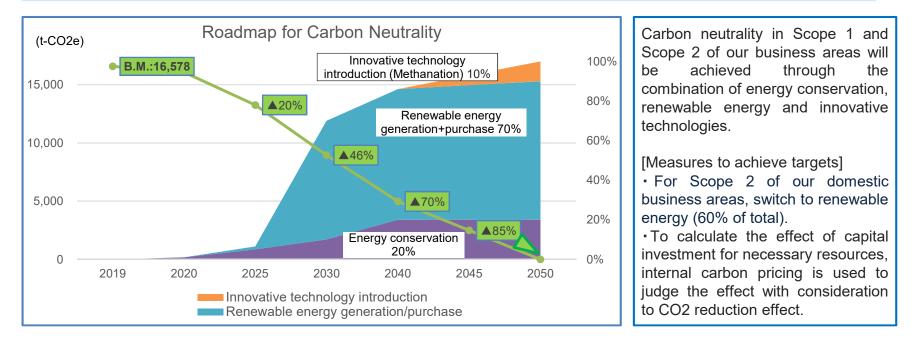
[Recommended disclosures]

- Indicators used for assessment
- GHG Protocol Scope 1 to 3 emissions and related risks: citing data from the Sustainability Report
- Management targets and performance



Efforts to Achieve Carbon Neutrality

- To achieve carbon neutrality in our business areas of Scope 1 and Scope 2 based on the GHG Protocol, Piolax and its group companies in Japan set the amount in 2019 as the benchmark and aim to achieve a 46% reduction by 2030 and a 100% reduction by 2050.
- Regarding Scope 3 of the domestic supply chain area, we will continue to consider efforts for reduction.



* For carbon neutrality in the overseas group companies, we will continue analysis and group-wide discussions.

Section 5



Statement of Support for the TCFD Recommendations

Our declaration that we will disclose information on our response to climate change in accordance with the guidelines of the TCFD recommendations.



Support for the Recommendations of the Task Force on Climate-related Financial Disclosures (TCFD)

PIOLAX, INC. supports the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) established by the Financial Stability Board (FSB) at the request of the G20.

We believe that the analysis of risks and opportunities posed by climate change and the achievement of set goals will be effective in solving issues on the ongoing global warming, and thus express our support for the recommendations of the TCFD.

We will reduce greenhouse gas emissions in our own business areas as well as in the supply chain area to contribute to the realization of sustainable society. Based on the TCFD declaration, we will continue to analyze and address risks and opportunities that climate change poses to our business, and strive to improve information disclosure.

March 18, 2022 Yukihiko Shimazu President PIOLAX, INC.



The future outlook described in this document is based on the information currently available. Due to various factors, actual results may be different from the expectations.