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Appendix

# 1. Introduction

# 1.1 About This Report<sup>1</sup>

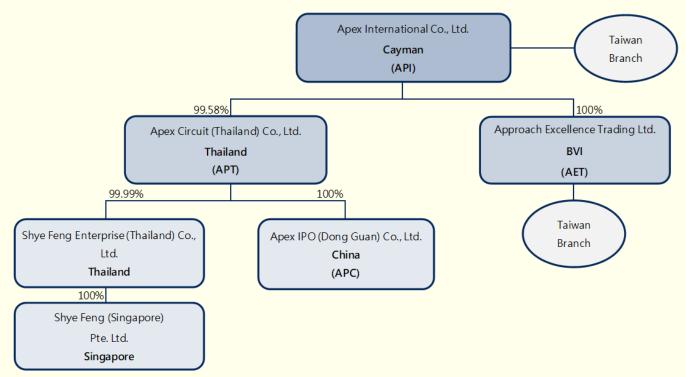
## **Reporting Period**

Apex International Co., Ltd. (hereinafter referred to as "Apex") has been publishing its seventh Environmental, Social and Governance (ESG) Report from 2016 to 2023, which will be published annually in both Chinese and English versions. The report will be disclosed on the company's official website. The previous edition was published in June 2022, and the next report for 2023 is scheduled to be published in June 2024. The data and content disclosed in this report primarily cover the year 2022 (from January 1, 2022, to December 31, 2022). For the sake of information completeness and comparability, certain performance data will be traced back to the year 2020 (from January 1, 2020, to December 31, 2020).

#### **Reporting Scope and Boundary**

The boundaries and scope of this report include Apex International Co., Ltd. and its subsidiaries, comprising a total of six operational locations. The operational regions encompass Taiwan, Thailand, mainland China, and Singapore. In 2022, the company's consolidated paid-in capital amounted to 1.899 billion NT dollars, and as of December 31, 2022, the company employed 7,417 individuals. During the reporting period, there were no significant changes, such as mergers or business transformations.

The information and statistical data presented in this report are derived from self-gathered statistics and surveys. The performance data in this report are compiled by relevant departments through the aggregation of operational management data, educational training, issue discussions, and unit interviews in accordance with the guidelines and indicators of the Global Reporting Initiative (GRI). The report adopts commonly used numerical descriptions to present



the boundary selection principles, taking into account the nature of the business, industry relevance, and control.

Regarding financial data, it is obtained from the audited consolidated financial statements of Apex by KPMG, a joint accounting firm. The consolidated financial statements encompass six companies. The environmental and social data also correspond to the same consolidated financial statements and cover a total of six companies. Please refer to the diagram below or consult the 2022 consolidated financial report for more details.

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<sup>&</sup>lt;sup>1</sup> Based on the regulation of industry type and paid-in capital announced by Taiwan Stock Exchange Corporation (TWSE), Apex does not need to prepare ESG report, such report is voluntarily prepared by Apex.

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#### **Report Writing Guidelines**

This report follows the Global Reporting Initiative (GRI) standards, using the Core option for disclosure principles. It also references the Task Force on Climate-Related Financial Disclosures (TCFD) framework established by the Financial Stability Board (FSB), as well as the Sustainability Accounting Standards Board (SASB) guidelines, as reporting principles.

#### **Assurance Statement**

This report has been subject to a limited assurance engagement by Crowe by the Accounting Research and Development Foundation in Taiwan. The engagement is based on the International Standard on Assurance Engagements 3000 (Revised): Assurance Engagement Other than Auditing and Reviews of Historical Financial Information. The scope of assurance covers specific disclosures in the report and is indicated in the accountant's limited assurance report, which is included in the report.

#### **Contact Information**

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# 1.2 Letter from The Sustainable Development Committee Chairperson

Industry and lifestyle are constantly changing, and change is sought for long-term development. What remains unchanged is that Apex always believes that in addition to focusing on its core business and pursuing revenue and shareholder returns maximization, companies must also consider their impact on the environment and social responsibility and become a force in society's positive cycle.

ESG importance has become a global consensus, and Apex is committed to bringing positive impacts to society. Since 2015, Apex has based its operations on sustainable management and formulated a sustainable management policy, which incorporates three major goals: "Corporate Governance," "Sustainable Environment," and "Social Welfare" into daily operations. To understand the major issues of concern to stakeholders, information is collected through internal units, strategies are developed, specific actions are taken, and information disclosure on sustainable management is strengthened.

Facing global climate change and responding to international trends, the company has launched the "Apex GREEN Project" to strengthen ESG development through the three main pillars of "renewable energy," "wastewater recycling," and "improving energy efficiency." The "renewable energy" development began in December 2021 and aims to increase the company's renewable energy substitution rate through the "Apex Solar Energy Program" to meet future factory electricity demand. "Wastewater recycling" introduces a new generation of wastewater treatment and recycling systems through the "Apex Wastewater Recycling Project" to increase the proportion of wastewater recycling. The GREEN Project is not only being constructed within the company's scope, but Apex is also taking resources to remote areas in northern Thailand to help local rural areas install solar panels and improve their water supply systems. Apex adheres to the business philosophy of putting people first and deeply cultivates Thailand. This project not only unilaterally brings clean energy and sustainable concepts to remote areas in northern Thailand but also reinforces the centripetal force of the Apex family by giving back to employees' hometowns, rooting deeply in local communities in Thailand, and establishing a mutually beneficial relationship with society.

Social engagement and employee welfare are two major areas on which Apex places great emphasis. Apex International is like a big family, and employees are our greatest asset. Therefore, the physical and mental well-being of employees and the workplace

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1.3 Promoting and Managing Sustainability

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environment are highly valued. In addition to ensuring the safety and hygiene of the work environment through various inspections and certifications, Apex also provides a large number of job opportunities and offers highly competitive salaries, diverse training courses, and various work-life balance measures to provide employees with a better present and a promising future.

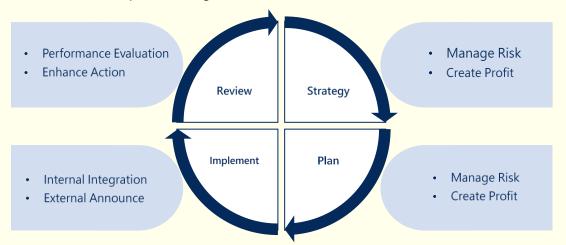
In terms of corporate governance, Apex has been ranked among the top 6% to 20% of listed companies in corporate governance evaluations for eight consecutive years, and we are constantly striving for progress. We actively promote business integrity and management execution and fulfil our responsibilities through the operation of functional committees, ensuring that the company's operations comply with relevant laws and regulations and arranging relevant courses to ensure that directors, managers, internal personnel, and employees understand business integrity. More than one-third of the board of directors are independent directors, and in 2022, a female director was added to the board. All directors are outstanding figures in their respective fields, demonstrating the diversity of the Apex board of directors and leading Apex's sustainable business development together.

In 2023, Apex will continue to take the firmest steps towards sustainable development and strive to fulfil our responsibilities for sustainability.





#### Sustainable Development Management Process



Appendix

### **Strategic Objectives**

Corporate sustainable development covers three major categories: economic, social, and environmental. In an era of drastic global economic and environmental changes, fulfilling the responsibilities of sustainable development helps accumulate operational expertise, effectively manage and mitigate risks, and share sustainable values with stakeholders.

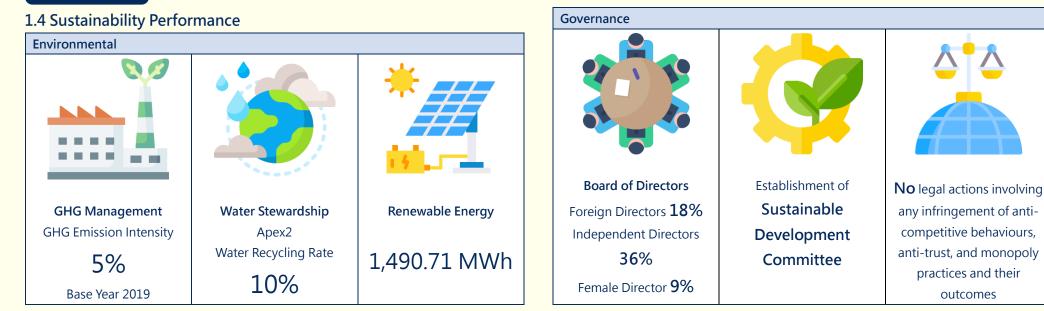


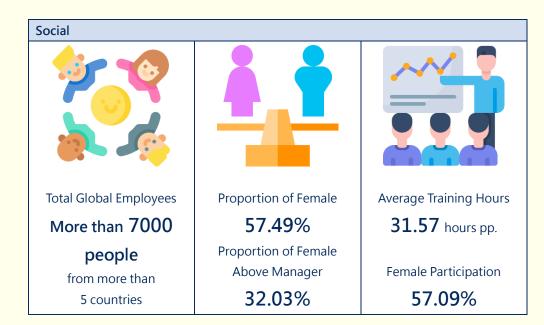
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# 2. Material Topics

Apex follows the GRI standards and stakeholder engagement standards to establish a materiality analysis process, in addition to regular communication with stakeholders. Through data collection, review, sorting, identification, and confirmation procedures, combined with TCFD, the Financial Supervisory Commission's risk management practices for listed and OTC companies released in August 2022, and COSO's "Enterprise Risk Management - Applying to ESG-related Risks," the company identifies and discloses significant themes with high attention and impact, corresponding to specific topics in the GRI standards, in its sustainability report and website. This ensures that the content of the report is consistent with the principles of inclusivity, materiality, and completeness for stakeholders and reflects the company's position and sustainability impact in the value chain, serving as an important basis for an overall review and continuous improvement of sustainability management.

# 2.1 Process for Analysing Significance

	Step	Content	Description				
1	Understanding the organisational context.	Identification of stakeholders and establishment of a list of sustainable issues.	<ul> <li>(1) Stakeholder Identification: We follow the GRI 2021 Guidelines and AA1000 SES Stakeholder Engagement Standards to comprehensively assess the material topics impacting future sustainable development. Through engagement with various units within our company and evaluating five factors (dependency, responsibility, concern, influence, and diverse perspectives) based on their business functions, we have identified six categories of stakeholders highly relevant to our operations. We track the concerns of stakeholders in a comprehensive and timely manner and have established effective communication and engagement channels to respond to their expectations.</li> <li>(2) Sources of Material Topics List: The guidelines referenced during the execution include the GRI Standards, SASB Industry Standards, FSC's Risk Management Practices for Listed and OTC Companies announced in August 2022, TCFD recommendations for climate-related financial disclosures, COSO risk management factors, as well as our own business model, operational content, PESTEL and SWOT analysis conducted when understanding the company, and opinions obtained from regular communication with stakeholders by various units. From these references, 37 potential impactful issues were identified, covering four dimensions: governance, social, economic, and environmental.</li> </ul>				
2	and potential impacts.	Impact assessment is jointly conducted by internal management and external stakeholders.	governance, social, economic, and environmental.(3) Evaluation of Impact Level and Probability of Occurrence of Company's Operations (Table 1)For the issues that may have actual or potential impacts on governance, social, economic, and environmental aspects, assessments were conducted based on the opinions of department managers. The evaluation includes the assessment of the actual and potential impacts, the categorisation of positive and negative impacts, and the probability of occurrence.(4) The survey period for stakeholder concerns assessment was the fourth quarter of 2022. A total of 83 valid questionnaires were collected, including 29 from suppliers, 18 from employees, 10 from customers, 2 from representatives of financial institutions, 1 from an investor, and 23 from other or unspecified respondents. The stakeholder concerns assessment was conducted using a questionnaire survey mode to establish the level of stakeholder concerns.				
3	-	Assessing the significance of impacts.	<ul> <li>(5) Based on the assessment of the significance of impacts, significant themes were selected:</li> <li>Following the evaluation of operational impact by the management, the scale and probability of impacts, as well as their influence on operations, finance, and strategy in 2022, were identified. After listing 37 potentially significant impacts/issues, to ensure a diverse perspective, we also considered expert opinions and stakeholder surveys regarding their concerns. After merging certain issues, a total of 11 significant themes were finally chosen for management. They are as follows: <ol> <li>Supply chain disruption and cost fluctuation</li> <li>Rising price of GHG emission</li> </ol> </li> </ul>				

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Step	Content		Description			
	Content	<ol> <li>Uncertainty of market information</li> <li>Product quality management</li> <li>Customer behaviour changes</li> <li>Hazard of occupational safety and hea</li> <li>Effectiveness of Board and corporate g</li> <li>(6) Material Topics Matrix (Table 2): Each perperience, professional knowledge, and other risk impact, and opportunity impact. After scand determine the risk ranking. After r qualitative/quantitative indicators, a risk toler risk impact (Y-axis). Risks with a product score themes reported in the ESG report, while risks</li> </ol>	Ith overnance participant considers the c er factors to assess the risk f oring, the product of risk li eviewing the actual sco ance threshold of 4.25 is pr e greater than 4.25 are cons	9. Ha 10. Ch en 11. Ca urrent statu factors. The kelihood ar oring result oposed bas sidered risks	re are three evaluation indicators: ris nd risk impact is multiplied to priorit ts and considering the financial sed on the product of risk likelihood s of significant importance, defined a	k likeliho tise the r impact (X-axis) a as the ma
4 Determining the significant themes to be reported.	indicators based on significant themes	<ul> <li>assessment of impact level is also completed if</li> <li>assessment of impact level is also completed if</li> <li>t (7) Determined Significant Themes for Report</li> <li>Establishment of Management Indicators: In</li> <li>negative impacts and conducting due diligend</li> <li>t significant themes in comparison to 2021.</li> <li>1. Supply chain disruption and cost fluctu</li> <li>2. Uncertainty of market information</li> <li>3. Product quality management</li> <li>4. Customer behaviour changes</li> <li>5. Hazard of occupational safety and heal</li> <li>6. Effectiveness of Board and corporate g</li> </ul>	through this process. ing and Management Polic comparison to the significa- ce investigations for the upon nation 7. Rising p 8. Energy n 9. Harmed 10. Change 11. Capital n	ies and Indi ant themes dated versic price of GHG managemen I reputation	icators selected in 2021, after reassessing on, we have identified the following 1 Gemission nt and social environment	positive a
		<ul> <li>(8) We have compared these 11 significant to management indicators. In the end, we have so SDG 3 : Good Health and Well-being SDG 5 : Gender Equality</li> <li>SDG 6 : Clean Water and Sanitation</li> </ul>	hemes with the United Na	s: ities sumption ar	nd Production	to estab

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# 2.2 Identification and Analysis

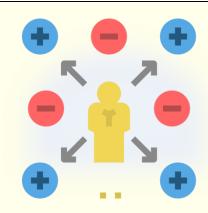
# Table 1. Evaluation of Impact Level and Probability of Occurrence of Company's Operations

No.	Risk Factor	Identification	n of Positive ar	and Negative Impact					
INO.	RISK Factor	Impact	Possibility	Risk Description					
14	Supply chain disruption and cost fluctuation	2.73	2.55	<b>Negative:</b> (1) Unstable plans and implementation of material preparation.; (2) Trends of fragmentation of the global market, pandemic disease, carbon cost and climate change make regional supply unstable. In addition, metal and material prices are affected by political and economic situations, resulting in significant fluctuations in both the range and frequency of material prices. The purchase department faces the significant challenge of cost control. <b>Positive:</b> The irreversible change of international politics has pushed the industry to move to south-east Asia which indirectly					
				induces joint of suppliers.					
13	Uncertainty of market information	2.45	2.82	<b>Negative:</b> Increasing uncertainty of market information would possibly lead to mistakes in planning of balancing production and sales which indirectly increase the risk of stock and cash flow.					
				<b>Positive:</b> We have a scale advantage on the quantity of purchase and amount of financing, therefore if we could plan and utilize the scale advantage effectively, it could increase negotiation room.					
31	Product quality management	2.64	2.27	<b>Negative:</b> Potential impacts are (1) difficulty in introducing a new product, which blocks business development; (2) present orders could drain.					
				Positive: Catch the trend of movement of industry and then introduce more orders from European and American areas.					
12	Customer behaviour changes	2.09	2.82	Negative: Loss of business orders					
				<b>Positive:</b> Apex' s existing ESG foundation is good. We could take advantage of the trend of industry movement and then increase orders accordingly.					
26	Hazards of occupational safety and health	2.27	2.18	<b>Negative:</b> Work safety accidents or occupational hazardous events, the impact could unlimitedly raise such as a closed factory, shut down, damage to the life or health of employees, difficulty to recruit etc.					
				<b>Positive:</b> We have a scale advantage, if we provide a good occupational environment, it could generate a magnet effect being advantageous to attract talents contributing to the operation.					
1	Effectiveness of Board and Corporate Governance	4	1.18	<b>Negative:</b> The potential impact of declining governance effectiveness is significant, which may result in strategic mistakes, major operation loss or compromised viability.					
				Positive: Good governance effectiveness could increase scale, continuously growing profit and shareholder value.					

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Nia	Diele Feator	Identificatio	on of Positive ar	nd Negative Impact			
No.	Risk Factor	Impact	mpact Possibility Risk Description				
7	Rising price of GHG emission	2.45	1.91	<b>Negative:</b> Carbon fee could be reflected in energy cost, material costs, management costs, regulation fee costs and transportation costs etc. which may increase operation costs gradually.			
				Positive: Speed up innovation by reducing cost or increasing efficiency.			
22	Energy management	2.27					
				<b>Positive:</b> Speed up innovation by reducing costs or increasing efficiency; think of the possibility of a self-owned power plant in the future.			
15	Harmed reputation	2.18	2	Negative: Possibly lead shut down, losing talents, losing capital.			
				Positive: Based on the existing scale and goodwill advantage, keep input ESG relative improvement to enlarge operating			
5	Change of political and social environment	1.91	2.27	advantage in the ASEAN area and inject momentum of growth. Negative: The rising uncertainty level of market demand will control the ability of orders to decline; population structure and social environment change will make recruiting harder, which affects integral competitiveness.			
				Positive: Based on the existing scale advantage, strengthen linkage to society and counterparties, keep a competitive advantage, and inject new blood of orders and talents.			
34	Capital management	2.36	1.82	Negative: Insufficient working capital will disrupt operations.			
				Positive: The good management of capital can expand operation leverage and create room for business upgrades.			

Impact Assessment Scores: 1 = No impact, 2 = Minor impact, 3 = Moderate impact, 4 = High impact.

Probability Assessment Scores: 1 = Highly unlikely to occur, 2 = Occasional occurrence, 3 = Frequent occurrence, 4 = Always occur/Confirmed occurrence.



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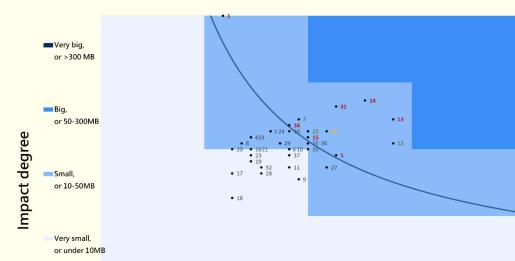
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# 2.3 Impact Level Identification

Upon reviewing the actual scoring results and considering the magnitude of financial impact in both qualitative and quantitative indicators, it is proposed to set a risk acceptance threshold of 4.25 as the product of risk probability and impact. Risks with a product score greater than 4.25 are considered to be of significant importance and defined as major topics to be reported in the ESG report. Risks with a product score equal to or less than 4.25 are considered to be of general importance. This process also helps identify the level of impact.

Table 2. Material Topics Matrix



Imr	pact List		-4.25 Very small		Small	Big	Very big
					Possibility		
1	Effectiveness of Board and Corporate Governance	<ul><li>A higher standard of present government</li><li>9 supervisory and supply chain management ability</li></ul>	17 Rising sea level	24	Violation of pollution emission	3	Product quality 1 management
2	Integrity	10 Research development and innovation	18 Fail of digital transformation	25	Sustainability management of supplier	3. s	Product labelling management
3	Remuneration and appraisal system	Cost from investment failure on new technology or transformation	19 Invalid control of information safety	/ 26	Hazards of occupational safety and health	3	Against laws and regulations
4	Vision and core value positioning	12 Customer behaviour changes	Inappropriate management of 20 patent and intelligent property and customer privacy	27	Employee development and attraction to talents	34	4 Capital management
5	Change of political and social environment	13 Uncertainty of market information	21 Water resource management	28	Labour rights, diversity and equality	3	Exchange rate management
6	Sustainability risk	14 Supply chain disruption and cost fluctuation	22 Energy management	29	Social communication	3	6 Credit management
7	Rising price of GHG emission	15 Harmed reputation	23 Violation of waste management	30	Customer relationship management	3	7 Tax management
8	Strengthening of the reporting obligation	16 Change of climate pattern	Environmental Sustainability		Social Sustainability		Corporate Governance

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# Changes in the list of material topics selected for 2022 compared to 2021 (GRI 3-2)

In 2022, a questionnaire was used to identify material topics for the first time. The analysis considered the probability of occurrence and the level of impact, and a risk threshold was set to select the material topics for 2022

	Material Topics Before 2021	Material Topics Before 2022	Correspondence of GRI
1	Supply Chain Management	Supply chain disruption and cost fluctuation	2-6, 204-1, 308-1, 308-2
2	Waste Water Treatment	Uncertainty of market information	2-6
3	Green Product	Product quality management	2-6, 204-1
4	Customer Service	Customer behaviour changes	2-6
5	Occupational Safety and Health	Hazards to occupational safety and health	403-1, 403-2, 403-3, 403-4, 403-5, 403-6, 403-7, 403-8, 403-9
6	Corporate Governance	Effectiveness of Board and Corporate Governance	2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-17, 2-18, 2-22, 2-23, 2-24, 2-25, 2-26, 2-27
7	Environmental Protection	Rising price of GHG emission	302-1, 302-2, 302-3, 302-4, 302-5, 305-1, 305-2, 305-3, 305-4, 305-5
8	Employees' Welfare	Energy management	302-1, 302-2, 302-3, 302-4, 302-5
9	Regulation Compliance	Harmed reputation	2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-17, 2-18, 2-22, 2-23, 2-24, 2-25, 2-26, 2-27
10	Competitive Advantage	Change of political and social environment	2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-17, 2-18, 2-22, 2-23, 2-24, 2-25, 2-26, 2-27
11		Capital management	2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-17, 2-18, 2-22, 2-23, 2-24, 2-25, 2-26, 2-27



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# 2.4 Management of Material Topics

Material Topics and their Correspondence to SDGs, GRI, and Management Indicators

	Correspondence of GRI				Impact Range				
Material Topics				Correspondence of SDG	Employee	Customer	Society	Supplier	
Supply chain disruption and cost fluctuation	2-6	204-1	308-1	SDG9					
			308-2	SDG12	$\checkmark$	$\checkmark$		$\checkmark$	
				SDG17					
Uncertain-ty of market information	2-6			SDG8	<	$\checkmark$			
				SDG17	v	v		v	
Product quality management	2-6	204-1		SDG9					
				SDG12	$\checkmark$	$\checkmark$		$\checkmark$	
				SDG17					
Customer behaviour changes	2-6			SDG9					
				SDG12	$\checkmark$	$\checkmark$		$\checkmark$	
				SDG17					
Hazards of occupational safety and health	403-1	403-4	403-7	SDG3					
	403-2	403-5	403-8	SDG4					
	403-3	403-6	403-9	SDG8	V		v		
				SDG16					
Effectiveness of Board and Corporate	2-9	2-14	2-24	SDG3					
Governance	2-10	2-17	2-25	SDG4					
	2-11	2-18	2-26	SDG8	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
	2-12	2-22	2-27	SDG16					
	2-13	2-23		SDG17					
Rising price of GHG emission	302-1	302-5	305-3	SDG13					
	302-2	305-1	305-4						
	302-3	305-2	305-5		v	v	v	v	
	302-4								
Energy management	302-1	302-3	302-5	SDG7					
	302-2	302-4		SDG13	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	

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Meterial Taxias		Composed on		Company damage of CDC	Impact Range					
Material Topics		Corresponden	ce of GRI	Correspondence of SDG	Employee	Customer	Society	Supplier		
Harmed reputation	2-9	2-14	2-24	SDG3						
	2-10	2-17	2-25	SDG4						
	2-11	2-18	2-26	SDG8	$\checkmark$					
	2-12	2-22	2-27	SDG16						
	2-13	2-23		SDG17						
Change of political and social environment	2-9	2-14	2-24	SDG4						
	2-10	2-17	2-25	SDG8						
	2-11	2-18	2-26		$\checkmark$		$\checkmark$			
	2-12	2-22	2-27							
	2-13	2-23								
Capital management	2-9	2-14	2-24	SDG8						
	2-10	2-17	2-25	SDG16						
	2-11	2-18	2-26		$\checkmark$					
	2-12	2-22	2-27							
	2-13	2-23								

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# 2.5 Stakeholder Communication

Stakeholder	Concerned topic	Response department	Way of communication and interaction	Frequency	Communication in 2022
Society	Compliance level; water resource management; pollution and waste management; social communication; occupational safety and health; labour rights; diversity and equality	HR	Compliance with relative laws; social contribution activities; communication and interaction with local government	Irregular	Support social give-back activities; comply with environmental protection laws and regulations; promote solar solutions as a green energy-saving project to the community.
Customer		R&D,PUR	Telephone calls; emails; meetings; visit and interview; internal and external audit; customer satisfactory investigation; CO2 emission investigation	Daily frequent communication of routine affairs; customers execute audit plan, CO2 emission investigation and relative management policy; annual customer satisfactory investigation and conflict minerals questionnaire investigation per internal policy	Keep satisfying customers' expectations and improve satisfaction levels through managing quality and problem-solving processes; keep collaborating with vendors closely to reach customers' traceability requirements.
Employee	employee development and	welfare committee, ADM, HR	Email notices; Facebook announcements; announcements on the intranet; welfare committee meetings; complaint box; internal irregular meetings.	In quarterly welfare committee meetings, usual announcements, promotions, and interactions were frequently communicated through routine work.	Annual appraisal inspection of the employee; quarterly welfare committee meeting; no significant complaints from the employee; annual physical health check for employees; regular and irregular training.
Government	Board and corporate governance; integrity; patent and intelligence	(corporate governance),	Official letters with government and external institutions; media; website; emails; MOPS	Disclose public information by following the legislative schedule; communicate, if necessary, as usual and routine work.	Attend seminar held by TWSE; obtained AREA award of 2022; irregularly and proactively attended a seminar held by security supervisory; the result of Taiwan Corporate Governance Evaluation System was in the level of 6%~20%.
Shareholder	Board and corporate governance; integrity; remuneration and performance; reporting obligation; CO2 emission and energy management.		Shareholders' meeting; investor conferences; spokesman window; MOPS; company website.	times investor conference; disclose	Shareholders' meeting; In 2022, we' ve attended 6 investor conferences and issued the material information at MOPS; publish announcements and information by laws and regulations.
Supplier	Supply chain sustainable management; CO2 emission and energy management; quality management.		Supplier audit; incoming inspection; telephone calls; emails; meetings.	We follow an internal audit plan to audit suppliers every year; we communicate irregularly and often with suppliers about price, source of minerals, collaborative agreement, integrity, etc.	Contact suppliers frequently at least monthly through phone calls or email to ensure supply stability and status; request suppliers to follow CSR policy and framework of RBA (Responsible Business Alliance); execute supplier audit plan.

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# 2.6 Risks and Opportunities Arising from Climate Change

Global warming is a serious environmental issue that everyone must address. As temperatures rise, abnormal weather patterns will worsen, resulting in stronger storms, irregular rainfall, and more frequent and severe droughts and floods. Bangkok, which was once a swampy area about 1.5 metres above sea level, is expected to become one of the world's most severely affected urban areas, prompting the Thai government to prioritise environmental issues in recent years.

Thailand has three seasons: the rainy season, the cool season, and the hot season. The rainy season receives the most rainfall, resulting in frequent flooding, whereas the cool and hot seasons can cause water shortages. According to a World Bank report, extreme rainfall and changes in weather patterns could cause up to "40%" of Bangkok to be submerged by 2030. Greenpeace's Tara Buakamsri also stated that Bangkok is sinking slowly, while sea levels in the nearby Gulf of Thailand are rising slowly but faster than the global average, potentially leading to large-scale flooding in the near future.

Apex has been operating in Thailand for over a decade and experienced the worst flooding in nearly ten years in 2011. Apex understands the risks and opportunities climate change brings and has begun to pay greater attention to environmental issues. Apex has identified climate change risks and opportunities and their response measures based on the TCFD<sup>2</sup> and Manufacturing Climate Change Adaptation Guideline<sup>3</sup>, as shown in the table below:

Risk Type	Disclosure	Identify the Risk	Corresponding Measures
	Policy and Regulation Risks	Stricter environmental regulations from the Thai government	Apex's water discharge standards are higher than the regulations, and regular sampling before discharging. Apex has an Aqua Project and plans for the recycling rate of Apex2 wastewater to reach
Transitional Risk		Low-carbon equipment cost	40% in 2024. The Solar Project has started the construction of solar power generation equipment since 2021, and some of the equipment has already been put into use. The solar system construction plan is divided into three phases and is expected to be completed in 2027.
		Flooding in the rainy season	The foundations of the newly built factories have been raised, and the drainage system has been improved.
Physical Risk	Immediate Risk	Water shortage in cool and hot seasons	The risk of water shortage in the area where the production plant is located is not high. Considering the possible impact of water shortage on production stoppage, the company has established a Business Continuity Plan to control the risk of water resource acquisition.
	Long-term Risk	Sea-level rise	The foundations of the newly built factories have been raised, and the drainage system has been improved.

<sup>&</sup>lt;sup>2</sup> Task Force on Climate-related Financial Disclosures (TCFD) is officially published by Financial Stability Board (FSB) on June, 2017.

<sup>&</sup>lt;sup>3</sup> Manufacturing climate change adaptation guideline is established by the Taiwan Green Productivity Foundation, and directed by the Industrial Development Bureau, Ministry of Economic Affairs.

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# 3. Company Overview

# 3.1 About Apex

Apex was established on October 28, 2009, and is registered in the Cayman Islands. The company and subsidiaries are primarily engaged in the manufacturing and sale of single-sided, double-sided, and multi-layer Printed Circuit Boards (PCBs), which are used in applications such as LCD TVs, Set-Top Boxes (STBs), hard drives, printers, satellite communication equipment, and in-car multimedia devices. In addition to joining the Taiwan Printed Circuit Association (TPCA) and participating in its related courses and activities, Apex actively receives information from various sources to serve as policy references for future development and operation. The company has passed multiple verifications, such as ISO, and actively supports sustainable development initiatives and engages with the community to form a virtuous cycle.

# **3.2 Operating Locations**

Туре	Country	Company Name	Acrony m	Address
Headquarter	Taiwan	Apex International Co., Ltd.	API	Rm. 503, 5F., No. 205, Dunhua N. Rd., Songshan Dist., Taipei City 105, Taiwan
Subsidiary	Taiwan	Approach Excellence Trading Ltd.	AET	1F., No. 21, Ln. 1314, Chunri Rd., Taoyuan Dist., Taoyuan City 330, Taiwan
			APT	APEX 1 :
Operating				39/234-236 Moo2, Rama 2 Rd., Bangkrachao, Amphur Muang, Samutsakhon 74000, Thailand
Headquarters	Thailand	Apex Circuit (Thailand) Co., Ltd.		APEX 2 \ APEX3 :
and Plants				30/101,102 Moo 1, Sinsakhon Industrial Estate Chetsadawithi Rd., Khok Kham, Muang, Samutsakhon
				74000, Thailand
Subsidiary	China	Apex IPO (Dong Guan) Ltd.	APC	Room 103, Building 6, No. 5, Er Road, Shuixinwei Industry District, Hanxi, Chashan Town, Dongwan
Subsidially	China	Apex IPO (Doing Guail) Ltd.		City, Guangdong Province
Subsidiary	Thailand	Shye Feng Enterprise (Thailand) Co., Ltd.	APS	88/1 MOO 2,Watphanthuwong Sethakij 1 Rd, Nadee,Amphur Muang, Samutsakhon,74000, Thailand
Subsidiary	Singapore	Shye Feng (Singapore) PTE. LTD.	APSS	18 MANDAI ESTATE #05-07 MULTI-WIDE INDUSTRIAL BUILDING SINGAPORE (729910)

# Main Business Operations of Each Subsidiary

- I. Apex is publicly listed on the Taiwan Stock Exchange Market. Its main function is holding company, and it conducts no actual business activities.
- II. AET is a wholly-owned subsidiary of Apex. A Taiwan branch was set up to be in charge of the procurement of machine equipment and raw materials and shipment in the Taiwan area.
- III. Apex owns 99.58% of APT, which was founded in September 2001. APT is the group's production and operating centre, with three factories: APEX 1, APEX 2, and APEX 3. APT's PCBs are mostly exported to Japan, Korea, and China, where they are used principally in consumer electronic products and office equipment and then in STBs, communications equipment, computer equipment, and auto parts.
- IV. APC is held by APT with 100% of shares, the main operation object is the procurement of supplies.
- V. APS is held by APT with 99.99% of shares, the main operation objective is to produce and trade PCBs. APS has a subsidiary Shye Feng (Singapore) Pte. Ltd. which was set up in

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Singapore and her main operation objective is to explore the PCB business.

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# 3.3 Apex Culture

Apex culture is based on "Oriental thinking, Western-style management". Oriental thinking refers to the belief in treating people with kindness, that is, Human Nature, which is from the oriental idiom "Human Nature, Ethical Reasoning and Legal Principle". "To be kind to people, and to keep gratitude" is the oriental virtue, and is also the soft power that Apex hopes to pursue. The foundation of this culture is people-oriented, convincing people with virtue, and keeping the teams' harmony with benevolence.

Western-style management refers to the belief of not taking things personally, that is Principle, which is a kind of norm, a constraint, and a discipline with a strict boundary and is also one of the indispensable elements and the hard power in the highly competitive electronics industry. Without the principle, the quality will not be good, the speed will not be fast, the cost of the product will not be low and the efficiency will be difficult to perform. The way to strike a balance between human nature and principles is to rely on ethical reasoning. "Ethical Reasoning" refers to truth and judgment. Apex culture pursues righteousness, reasoning, doing the right thing, seeking truth from facts, and no internal friction.

With a management culture that pays equal attention to both sensibility and rationality, Apex often holds activities to strengthen the connection and sense of participation between employees, and to achieve efficiency when conducting effective communication and a harmonious atmosphere in the team. Therefore, through various human resource management measurements, we have created and promoted a happy and safe workplace for our employees with the core idea of being "people-oriented".



# 4. Corporate Governance

#### Management Policies for Material Topics: Effectiveness of Board and corporate

#### governance

governance									
Impact	The major topic category related to the board of directors and corporate								
Assessment	governance is "Board of Directors and Corporate Governance."								
	If the decision-making process of the board of directors is not diverse and open,								
	there may be a risk of decision-making errors.								
Policies and	By establishing internal regulations, the operation of the board of directors and								
Commitments	corporate governance is ensured.								
	(1) Memorandum of Association and Articles of Association								
	(2) Principle of Corporate Governance								
	(3) Compliance with the Establishment of Board of Directors and the Board's								
	Exercise of Powers								
	(4) Ethical Corporate Management Best Practice Principles								
	(5) Code of Ethics for Directors and Officers								
Governance	Corporate Governance Team, Remuneration Committee, Audit Committee and								
Structure	Internal Audit Unit								
Management	Short-term: based on existed good governance environment, introduce external								
Actions	evaluation.								
	Mid-term: observe industry situation and keep upgrading appraisal system, risk								
	management system and build up appropriate nomination system.								
	Long-term: continuously improve the management system								
KPI	ESG rating score								
Evaluation	Disclosure of regular board performance evaluations								
Mechanisms	Individual Director Self-Assessment: Once a year								
	Internal Board Self-Assessment: Once a year								
	Internal Board Evaluation of Functional Committees: Once a year								
	Engagement of External Professional Firm for Comprehensive Board								
	Performance Evaluation: Once every three years								
Engagement	2022 Achievements:								
Outcomes and	2022 Corporate Governance Evaluation Results in Taiwan:								
Effectiveness	Ranked in the range of 6% to 20% among all listed companies.								
with	Ranked in the range of 11% to 20% among electronic companies with a market								
Stakeholders	capitalisation of over 10 billion NT dollars.								
Stakenoluers									

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Appendix

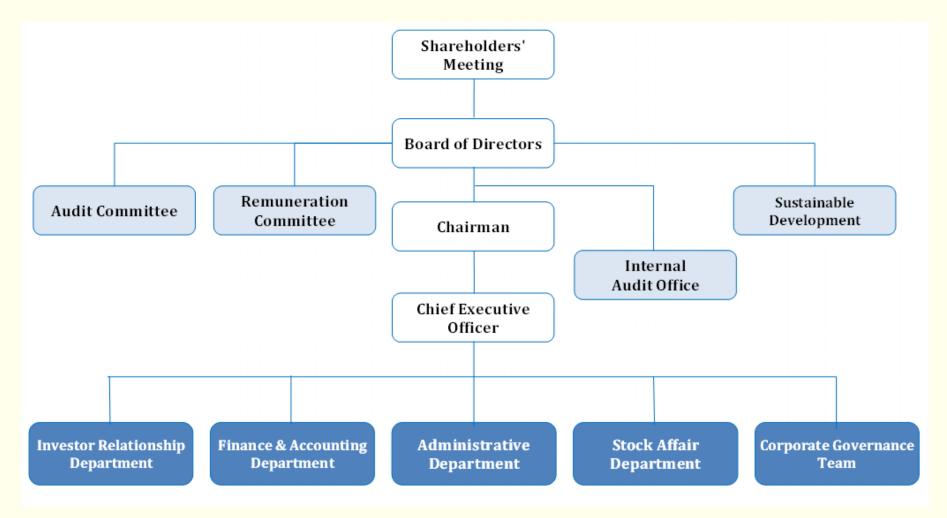
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# 4.1 Corporate Governance Structure

Material Topics

The Board of Directors is the decision-making level that substantially drives corporate governance. To enhance the efficiency of the Board, Apex has set up the Audit Committee, Remuneration Committee, and Sustainable Development Committee under the Board of Directors to assist in fulfilling its supervisory responsibilities, ensuring that all proposals are thoroughly discussed and reported or resolved by the Board. This effectively plays an independent supervisory and balance management mechanism. If a proposal involves the personal interests of a director or their representative legal entity, they should abstain from voting to ensure the maximum benefit of stakeholders.

In 2022, 8 meetings were held, with a 100% actual attendance rate of the entire Board of Directors.



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**Directors Introduction** 

Material Topics

Directors introduction		Basic Re	quirement	c	Profe	essional Back	around	Professio	nal Knowledd	e and Skills
Category /Name	Date Elected	Nationality	Gender	Age	Bank	Securities	Accounting & Finance	Industry Experience	Marketing	Risk Management
<b>Chairman</b> Shu-Mu Wang	2022.05.24	R.O.C.	Male	63			V	V	V	V
Director Jui-Hsiang Chou	2022.05.24	R.O.C.	Male	63			V	V	V	V
<b>Director</b> Yung-Yuan Cheng	2022.05.24	R.O.C.	Male	64				V		V
Director Shun-Chung Lee	2022.05.24	R.O.C.	Male	53				V	V	
<b>Director</b> Sen-Tien Wu	2022.05.24	R.O.C.	Male	54	V		V	V	V	V
Director Somkiat Krajangjaeng	2022.05.24	Thailand	Male	61				V		
<b>Director</b> Tu-Chuan Chen	2022.05.24	R.O.C.	Male	62				V		
Independent Director Chau-Chin Su	2022.05.24	R.O.C.	Male	67				V		
Independent Director Yung-Tsai Chen	2022.05.24	R.O.C.	Male	62	V	v	V	V	V	
Independent Director Jesadavat Priebjrivat	2022.05.24	Thailand	Male	66		v	V	V	V	V
Independent Director Ray-Hua Horng	2022.05.24	R.O.C.	Female	58				V		

#### Independence and Diversity of Board

Apex has established internal rules and procedures for the appointment and exercise of powers of the board of directors, such as the "Compliance with the Establishment of Board of Directors and the Board's Exercise of Powers" and the "Procedures for Election of Directors," to ensure rigorous regulation of the operations and membership of the board. The nomination of board members follows the provisions of the company's articles of incorporation, using a candidate nomination system. In addition to evaluating the qualifications and experience of each candidate, the "Principle of Corporate Governance" is also followed to ensure the diversity and independence of board members. Not only is the distribution of professional experience, gender, age, and educational background considered, but also a diverse perspective is employed to complement each other and enhance the overall functioning of the board.

The company's management objective for diversity policy of board members has appointed four independent directors in the sixth term, including one female independent director, achieving the goal of increasing the number of independent directors and promoting the appointment of female independent directors. The current board of directors consists of 11 members, including four independent directors. Foreign directors account for 18% of the total, independent directors account for 36%, and female directors account for 9%. All directors have no relationship between spouses or second-degree relatives.

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Appendix

#### Impact Management of the Highest Governance Unit

Material Topics

In the spirit of corporate sustainability, Apex has conducted multifaceted impact assessments on major issues and established relevant regulations to address potential negative impacts. Apex has also proposed visions and strategies to respond to these impacts and achieve sustainable development.

In recent years, with the rise of labour law requirements in Taiwan and Thailand, Apex has formulated a "Human Rights Policy Management Procedure" to protect and safeguard basic human rights, promote equal pay for equal work, and provide a safe and healthy workplace. Apex recognises and supports the spirit and fundamental principles of human rights protection outlined in various international human rights conventions, including the International Labour Organization's Declaration on Fundamental Principles and Rights at Work, International Labour Organization conventions, the OECD Guidelines for Multinational Enterprises, the Universal Declaration of Human Rights, and the Ten Principles of the United Nations Global Compact, while fulfilling the responsibility to respect and protect human rights and comply with labour-related laws and regulations in the countries where it operates. Facing the risks of climate change has become an impact that listed companies must face. The development of green technology must be accelerated, and carbon fee regulations and inspections of carbon emissions will be legislated and clarified in the short term. To maintain continuous growth and meet market demands, environmental issues cannot be

Underestimated. In 2022, Apex held a total of 8 board meetings. During this period, the Sustainability Development Committee regularly tracked relevant actions and reported to the board, establishing mechanisms and internal audit systems for compliance and risk management to operate synchronously.

To fulfil the supervisory responsibilities, by the company's articles of association and Article 192-1 of the Company Law, and the board resolution and announcement on March 31, 2022, Apex accepted nominations for directors and independent directors from shareholders holding more than 1% of the total issued shares of the company through written submissions from March 8 to March 18, 2022. During the above-mentioned period, except for the board's nomination of the candidates for the sixth board of directors (including independent directors), no shareholder holding more than 1% of the total issued shares of the company nominated any candidates. The board nominated and decided on a list of 11 director candidates (including 4 independent directors) on March 31, 2022, and the board election was completed at the shareholders' meeting on May 24, 2022. The board of directors is composed of 11 members with professional backgrounds and technical expertise, including 4 independent directors who have considerable qualifications in professional knowledge, technology, and experience, providing the company with specialised advice in operations, technology, and finance with an impartial and independent spirit. They jointly shoulder the responsibility of the company's strategy, operation, and supervision.

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## The Performance Evaluation of the Apex Board of Directors

Material Topics

Apex conducted a comprehensive evaluation of the performance of its board of directors, including individual self-assessment, an internal evaluation of the board of directors, an internal evaluation of functional committees, and an external evaluation from the Taiwan Investor Relations Institute (TIRI) to ensure the proper operation of the board. The internal evaluation showed good performance results and was helpful in further implementing corporate governance and enhancing the functionality of the board. The attendance rate of members in each functional committee of the company was high, and each committee was composed of professionals who contributed relevant suggestions to the company's operations. The external evaluation suggested promoting diversity in board membership, improving the format of board meetings, and planning director training courses, among other things. After receiving the suggestions, Apex proposed measures to gradually improve and continuously strengthen the function of the board of directors.

Evaluation cycle.	<b>Evaluation Period</b>	Evaluation scope	Evaluation method	Evaluation content
Once a year	From: 2021.12.01 To: 2022.11.30	Individual Board	Self-Evaluation of Board Members	<ul> <li>Mastery of company goals and tasks</li> <li>Acknowledged the Directors' responsibilities</li> <li>Participation in the operation of the company</li> <li>Internal relationship management and communication</li> <li>Director's professional and continuing education</li> <li>Internal control</li> </ul>
Once a year	From: 2021.12.01 To: 2022.11.30	The Board of Directors as a Whole	Internal Evaluation	<ul> <li>Participation in the operation of the company</li> <li>Improve the decision-making quality of the board of directors</li> <li>Composition and structure of the board of directors</li> <li>Selection of directors and continuing education</li> <li>Internal control</li> </ul>
Once a year	From: 2021.12.01 To: 2022.11.30	Each Functional Committee	Internal Evaluation	<ul> <li>Participation in the operation of the company</li> <li>Acknowledged the responsibilities of Functional</li> <li>Committee</li> <li>Improve the decision-making quality of the Functional Committee</li> <li>Composition of the Functional Committee and selection of members</li> <li>Internal control</li> </ul>
At least once every three years	From: 2021.10.01 To: 2022.09.30	Engage an external professional firm to conduct an overall assessment of the board's performance.	Appointed TIRI to conduct the overall evaluation of the board's performance.	<ul> <li>Composition and professional development of the board of directors</li> <li>Quality of decision-making by the board of directors</li> <li>Oversight of internal controls and risk management</li> <li>Involvement of the board of directors in corporate social responsibility</li> </ul>

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# Directors professional development

Material Topics

Directors and executives undergo professional development by Taiwan's legal regulations, with a 100% compliance rate. The total training hours for the year 2022 amounted to 76 hours.

Date	Organizer	Course	Hours	Total Hours
2022/12/20	Taiwan Corporate Governance Association	Ethical Business and Corporate Governance: Lessons from Japan	3.0	27
2022/11/10	Taiwan Corporate Governance Association	How to Create Corporate Value and Manage Risks by Implementing ESG Strategy?	3.0	27
2022/10/12	Securities and Futures Institute	Internal Insider Trading Compliance Briefing for the 111th fiscal year	3.0	3
2022/10/06	Securities and Futures Institute	Issuance of Reference Guidelines for the Exercise of Duties by Independent Directors and Audit Committees in 2022, along with Director and Supervisor Education and Promotion	3.0	3
2022/07/22	Taiwan Corporate Governance Association	Audit Committee Advanced Practice Sharing - The Role of Independent Directors in Enterprise Operation and Corporate Governance	3.0	3
2022/05/20	Securities and Futures Institute	2022 Insider Trading Prevention Seminar	3.0	3
2022/05/12	Taiwan Stock Exchange	International Twin Summit	2.0	4
2022/04/22	Taiwan Institute for Sustainable Energy	Taishin 30 Sustainability Net Zero Summit Forum 2030   Transform to Net Zero	3.0	6

# **Functional Committees**

	Audit Committee	Remuneration Committee	Sustainable Development Committee
Chairman Shu-Mu Wang			
Director Jui-Hsiang Chou			V
Director Yung-Yuan Cheng			
Director Shun-Chung Lee			
Director Sen-Tien Wu			
Director Somkiat Krajangjaeng			
Director Tu-Chuan Chen			
Independent Director Chau-Chin Su	V	V	V
Independent Director Yung-Tsai Chen	V		
Independent Director Jesadavat Priebjrivat	V	V	V
Independent Director Ray-Hua Horng	V		
Independent Member Yang-Tzong Tsay		V	

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Functional Committees		Author		ibilities of Functiona	l Committees		The Execution St	tatus in 2022
Audit Committee	The function statements, Company's ir of funds, enc appointment	ns and annual wo auditing company nternal control syst lorsements, or pro- t, dismissal of acco	ork plan of the or y operations and em, evaluating tra vision of guarante puntants and thei	dit Committee conv committee include d accounting polic nsactions of importa ees of a material nat ir remuneration, ap n which a director is	examining the cies and proced ant assets or deriv ure, fundraising c pointment and d	Company's finan ures, reviewing vative products, lo or securities issuar lismissal of finan	the Please click and vi bans company website: nce, <u>Communication o</u>	isit the : of Independent g Officers and tus of the
Remuneration Committee	compensation meetings and Board of Direct I. Regularly re II. Formulatin systems, star III. Regular e goals are cor	on policies and syst nually and may cor ectors for their deci eview the regulation og and regularly rev ndards, and structu evaluations of the	ems for the direct ivene additional m sion-making. The ns of the Compen iewing the annual res for the directo directors' and ex intent and amoun	with its professiona tors and executives neetings as necessal committee's deliber asation Committee a and long-term perfor rs and executives of xecutives' perform t of individual comp	of the Company. ry to provide reco rations and annua nd propose amer ormance goals, co the Company. nance in achievin	It holds at least ommendations to al work focus inclu- ndments if needer ompensation polic g their performa	the The Remuneration two held 2 meetings in the Please click and vi ude: company website: <u>The Execution Stat</u> d. <u>Remuneration Con</u> cies, <u>2022</u>	n Committee n 2022. isit the : tus of the
Sustainable Development Committee	The purpose subsidiaries, I. Set up a II. Instruct report t III. Other m IV. After SE or mem about s	of SDC is to assist t which include: a sustainable develor, monitor and revi o the Board of Dire natters are resolved DC sets up the pred abers of SDC are au	the Board of Direct opment policy. ew the execution ctors. I and assigned by eding matters and uthorized to discu cal executive pla	tors to promote sus performance of su the Board of Directo d reports them to th ss and collaborate v ans. Collaborative p	istainable develo ors. he Board of Direct with the Company	pment activities tors, the Chairper y and its subsidia	Committee was es 2022 and held 1 m and year. Please click and vi company website The Execution States aries Sustainable Develored	stablished in neeting this isit the tus of the lopment



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# 4.2 Financial Performance

## Management Policies for Material Topics: Capital management

	Funds Management falls under the category of financial-related
Impact Accordment	impacts.
Impact Assessment	Potential risks may arise from: 1. Cash flow disruption.; 2.
	Fluctuations in financing costs eroding profitability.
Policies and	(1) Regularly conduct financial and internal systems audits
Commitments	and provide reports.
Governance	Financial & Accounting Department, Audit Committee
Structure	
Management	Periodically review long-term/short-term capital arrangements
Actions	and manage financing channels and financial tools.
КРІ	Financial Ratios
	The independent directors, audit executives, and accountants
	regularly communicate and conduct audit reports to examine
	and evaluate the reliability and completeness of financial and
Evaluation	operational information. They review existing systems to ensure
Mechanisms	compliance with significant policies, plans, procedures, laws,
	and regulations. They also verify the methods of asset
	safeguarding and confirm the existence of assets. Additionally,
	they assess the economic efficiency of resource utilisation.
Engagement	2022 Annual Achievements
Outcomes and	As shown in the consolidated statement of comprehensive
Effectiveness with	income in this chapter.
Stakeholders	

Apex is a professional manufacturer of printed circuit boards (PCBs) with approximately 7,400 employees, the majority of whom are Thai nationals. Apex has two subsidiaries and three factories located in Samut Sakhon, southwest of Bangkok. Following the acquisition of APS in 2020, Apex has focused on the development of traditional rigid PCB products ranging from single-sided to 12-layer boards. As of 2022, the consolidated paid-in capital amounts to 1.899 billion NTD. For detailed financial information, please refer to the consolidated financial statements for the year 2022. The following table presents the consolidated statement of comprehensive income:

Consolidated Statement of Comprehensive Income in the Most Recent Two Years

Unit: Thousands of NTD

		Unit: Thousands of NTD
Year Subject	FY 2021	FY2022
Revenue	14,800,683	14,906,225
Operating cost	11,681,718	12,076,878
Gross profit	3,118,965	2,829,347
Operating expenses		
Marketing expenses	797,226	975,651
Administrative expenses	755,522	742,145
R&D expenses	45,440	53,600
Anticipated impairment loss of credit	43,369	46,627
Total operating expenses	1,641,557	1,818,023
Net profit	1,477,408	1,011,324
Total non-operating income and expenses	(41,380)	(65,685)
Profit before tax	1,436,028	945,639
Less: Tax expense	52,146	67,272
Current Year's Net Profit/Loss	1,383,882	878,367
Current Year's Other		
Comprehensive Income (after-	(1,040,596)	489,070
tax net amount)		
Total Current Year's	343,286	1,367,437
Comprehensive Income	J <del>4</del> J,200	1,507, <del>4</del> 57
Basic earnings per share	7.25	4.60
Diluted earnings per share	7.25	4.60

Material Topics Company Overview

Corporate <u>Go</u>vernance

Unit: square meter, NT\$ thousand

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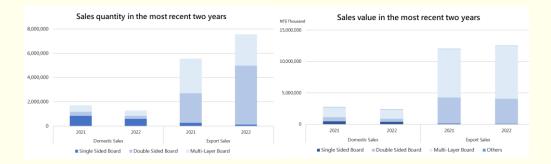
Appendix

APEX

# Quantity and sales in the most recent two years

Year	2021				20	)22		
Sales Value	Domestic Sales		Export Sales		Domestic Sales		Export Sales	
Main Product	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Single Sided Board	836,876	482,135	266,347	128,040	590,383	400,686	122,192	77,426
Double Sided Board	337,873	642,562	2,434,547	4,165,153	240,537	501,758	4,857,307	3,987,960
Multi- Layer Board	525,456	1,618,655	2,848,684	7,700,623	453,168	1,476,331	2,584,541	8,410,608
Others	-	10,000	-	53,515	-	8,285	-	43,171
Total	1,700,205	2,753,352	5,549,578	12,047,331	1,284,088	2,387,060	7,564,040	12,519,165

Note: Others include processing services, including plating and trimming and purchasing moulds for new parts and consumables for customers.



# 4.3 Products and Services

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# Management Policies for Material Topics: Product quality management

	neies for waterial topies. I found quality management		
	Product Quality Management falls under the category of Quality		
	Management.		
	(1) Unclear assignment of quality control authority leads to the risk of		
Impact	quality defects and misplacements.		
Assessment	(2) Insufficient knowledge in quality control results in incomplete		
	decision-making processes.		
	(3) Overemphasis on output indicators increases the risk of losing		
	subsequent orders due to quality issues.		
	(1) Enhance and improve the quality control personnel's quality		
Policies and	management knowledge through employee training and education.		
Commitments	(2) Regularly pursue ISO 9001 certification for quality management		
	systems.		
6	Quality Assurance Department, Manufacturing Department,		
Governance	Management Information System Department   Research &		
Structure	Development Department, Business Department		
	Short-term: promote implementation of quality concept (14Q project)		
Management	Mid-term: improve quality management system and innovate		
Actions	management method (method for handling different quality specs in the		
	same factory).		
KPI	Customer Complaint and Defect Rate, Internal Defect Rate		
	Conduct customer satisfaction surveys twice a year, covering quality,		
Evaluation	transportation, and service. The quality satisfaction score should account		
Mechanisms	for 50% of the total score.		
	Regularly pursue ISO 9001 certification for quality management systems.		
Engagement	2022 Annual Achievements		
Outcomes	All factory locations have successfully obtained ISO 9001:2015		
and	certification.		
Effectiveness	Customer satisfaction with quality ratings:		
with	APT Factory: 45 out of 50		
Stakeholders	APS Factory: 42 Out of 50.		

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#### **Business of Apex and its Subsidiaries**

Apex's business strategy focuses on understanding market demand and providing products with stable quality. It emphasises high standards in production management and forward-looking operational strategies, accompanied by an efficient and harmonious corporate culture, to offer diversified applications at the end consumer electronics market. The main business involves the production and sale of double-sided and multi-layer rigid printed circuit boards. Apex's products are not only manufactured and sold in Thailand but also expanded to become an international consumer electronics brand supplier, exporting to 23 countries worldwide, including North America, Central and South America, Europe, East Asia, Southeast Asia, Central Asia, and North Africa. The company actively expands the scope and scale of product applications and serves as a consumer electronics manufacturer for clients in the group, including Samsung, Arris, Technicolor, HP, Canon, Toshiba, and Western Digital. The printed circuit boards produced by Apex are mainly used in LCD TVs, set-top boxes, hard drives, printers, wireless transmission devices, TFT panels, and automotive multimedia products.

#### **Main Products**

The main application of the product at present, four major applications of the product are home application, computer application, communication application and automobile application.

Applications in End Products						
Electronic Products	Computer Accessories	Communications Equipment	Auto Parts			
DVD, LCD TV, fax machine, air	DVD player, recorder,	phone,	car audio, control			
conditioner, digital camera,	printer, power supply,	communication box,	panel and other			
projector, photocopier, TV	hard drive,	satellite TV receiver,	accessories			
tuner, voltage converter	motherboard, TFT panel,	switch box				
	notebook					

#### Health Safety and Products

Apex is committed to producing products that meet health, safety, and quality requirements. The company strictly adheres to international regulations such as RoHS, REACH, and Halogen Free in inspecting materials, production processes, and emissions. The percentage of product sales complying with RoHS reaches 100%. Apex also incorporates these standards into employee training programs to ensure that employees have a thorough understanding of product ingredients and engineering manufacturing standards. (Please refer to International Certifications and Awards for relevant certifications.)

## New Products and Upcoming Service Offerings

Social Prosperity

The consumer products such as LCD TVs, set-top boxes, and home entertainment continue to experience moderate growth, while almost all Japanese brand manufacturers are facing a shrinking market share. Apex has started developing new products such as automotive components, small-scale WI-FI and RF applications, and PCB transformers. By leveraging its new factories and upgraded production capacity, the company aims to gain an advantage in these product categories and expand its involvement beyond the existing orders for LCD TVs and set-top boxes from Korean customers. In addition to ongoing research and development efforts for new products and technologies, Apex will continue to focus on the traditional market for hardboard PCB to meet customer demands.

On the other hand, Apex will establish a Product traceability system to enhance quality improvement processes and risk management. The company will also develop automated processes to improve quality stability.

#### Technologies and products developed

Year	Development Result
	> 28-inch large-scale production process: Accurate size (accurate 10% uniform
2018	etching) fine line capability
2010	> High-reliability automotive board drilling process: High-reliability drill (less than
	150% of hole head)
	<ul> <li>IOT for drilling process evaluation had been done</li> </ul>
2019	> Auto printing function for solder mask process and faster changing ability
2019	> Lab for reliability ability ready for TCT / CAF / SIR / THB / Material thermal stress
	analysis
	<ul> <li>Gold finger process had been done</li> </ul>
2020	> MES system implement
	<ul> <li>Acquired ISO17025 Lab Certification</li> </ul>
	> Auto Platting line
2021	Micro PAD 160x200um product
	<ul> <li>Zero emission micro etching process</li> </ul>
	<ul> <li>Micro PAD 180x200um function tester development</li> </ul>
2022	<ul> <li>Thicker copper (3-5oz) board process development</li> </ul>
	Microvia (diameter < 0.15mm and aspect ratio 1)



Social Prosperity

#### Intellectual Property Management Plan

To ensure the Company's intellectual property, strengthen its competitive advantages, achieve operational goals, increase profits, and ensure sustainable operations, the Company will actively assist R&D personnel in the right of R&D results and strive to promote internal intellectual property management plans to continue accumulating the Company's intellectual property volume, and promote the Company to use intellectual property as an advantage to its customers.

The Company regularly reports matters related to intellectual property to the board of directors every year, and the latest submission date is December 20, 2022.

## Patent Management:

The Company encourages employees to submit invention applications. R&D personnel conduct technology development. R&D supervisors convene review meetings to review proposals. The company commissions an external patent office to process the patent layout plan and applications and establishes an intellectual property management mechanism to manage patent cases and control procedures.

- Trade Secret Management:
  - Information Security Management:
     The employee's personal account and password identify all of the company's

computer equipment.

II. Access Security Management:

All company employees are equipped with access control magnetic cards. Visitors should register their identity when visiting the Company. The scope of activities is limited in public spaces, and they must be accompanied by company employees throughout the tour.

- III. The Regulation of Employment Contract is as follows:
  - i. Employees are obliged to keep personal business and Company business secrets.
  - ii. Employees shall not divulge any business secrets after taking up or leaving their posts. Otherwise, the Company not only has the right to expel an employee from the Company but also owns the retroactive legal right and compensation right of the Company for losses.
  - iii. Employees of the Company shall not disclose or use the business secrets of their previous employer.

Patents

Sustainable Environment

As of November 30, 2022, the performance of the intellectual property rights of the Company is as follows:

In 2021, a Republic of China invention patent titled "ANODE SLUDGE REMOVAL DEVICE, CLEANING METHOD, ELECTRONIC DEVICE AND CLEANING SYSTEM" has been granted under patent number No. 1738115.

In 2022, a People's Republic of China invention patent titled "ANODE SLUDGE REMOVAL DEVICE, CLEANING METHOD AND CLEANING SYSTEM" was granted under patent number No. 5139485.

#### Certificates

Apex is committed to protecting the rights and interests of customers and labourers and maintaining the safety, hygiene, and quality management of the production process. It has also been recognised by inspection agencies and partners.

Certificates	Valid Period	Range
ISO 14001 : 2015	11 Oct. 2020 - 10 Oct. 2023	Apex 1
	28 Dec. 2022 - 27 Dec. 2025	Apex 2&3
	19 Mar. 2021 - 18 Mar. 2024	Apex S
ISO 9001 : 2015	29 Jul. 2020 - 28 Jul. 2023	Apex 1
	07 Jan. 2021 - 06 Jan. 2024	Apex 2&3
	19 Mar. 2021 - 18 Mar. 2024	Apex S
ISO 45001 : 2018	31 Jan. 2023 - 30 Jan. 2026	Apex 1
	31 Jan. 2023 - 30 Jan. 2026	Apex 2&3
IATF 16949 : 2016	29 Jul. 2020 - 28 Jul. 2023	Apex 1
	07 Jan. 2021 - 06 Jan. 2024	Apex 2&3
TLS 8001 : 2020	15 Feb. 2022 - 14 Feb. 2025	Apex 1
	15 Feb. 2022 - 14 Feb. 2025	Apex 2&3
Fire Drills Certificate	Issue Date: 25 Nov. 2021	Apex 1
	Issue Date: 01 Dec. 2021	Apex 2&3
	Issue Date: 03 Dec. 2021	Apex S
ISO/IEC 17025:2017	18 Nov. 2020 - 17 Nov. 2023	Apex 2&3
Canon Certificate of Supplier Environmental	26 Dec 2022 25 Dec 2024	ADT
Evaluation	26 Dec. 2022 - 25 Dec. 2024	APT
Sony Green Partner Certification	28 Apr. 2022 - 30 Apr. 2025	APT

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APEX

# 4.4 Industry Supply Chain

Management Policies for Material	Topics: Supply chain disruption and cost fluctuation

	Supply chain disruptions and cost fluctuations fall under the category					
	of supply chain sustainability management.					
	The significant impacts of an unstable supply chain on operations					
	include:					
Impact	(1) Fluctuations in energy costs					
Assessment	(2) Fluctuations in raw material costs					
	(3) Unstable supply of raw materials					
	<ul><li>(4) Increasing visible additional carbon costs</li><li>(5) Previous occurrences of industrial cluster relocation.</li></ul>					
	(1) Environmental Regulatory Compliance: Suppliers must comply					
	with local government regulations concerning air pollution					
	control, water pollution control, waste management, and toxic					
	substance management. In the event of non-compliance, they					
	are required to promptly submit improvement plans.					
	(2) Green Products and Prohibition of Hazardous Substances in Raw					
	Materials: Suppliers of process raw materials are required to					
	provide declarations ensuring that their products do not contain					
	internationally banned substances harmful to the environment.					
	This ensures that the products comply with customer					
Policies and	requirements and relevant international laws and regulations,					
Commitments	such as the EU RoHS directive, the prohibition of					
	perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid					
	(PFOA), and the EU chemical regulation directive (REACH).					
	During supplier environmental audits, significant deficiencies					
	found will be addressed by the procurement supervisor					
	requesting supplier improvements.					
	(3) Establishment of Environmental Management System and					
	Environmental Objectives: Suppliers are assessed during audits					
	to determine if they have ISO 14001 or RC14001 certification.					
	(4) Procurement of Conflict-Free Raw Materials: This promotes the					
	humanitarian spirit and upholds social and ethical standards that					

	respect human dignity, fulfilling corporate social responsibilities.
Governance	Management Information System Department, Business Department
Structure	and Sustainable Development Committee
	Short-term: raise management intensity of present process of
	production plan, purchase and business work, logistic management,
Management	adjust management organization to increase flexible options of
Actions	digesting materials corresponding to sales plan.
	Mid & Long-term: observe industry movement status; increase choice
	and audit of local vendors and think of innovative collaboration model.
КРІ	Percentage of Material To Price; Turnover Rate of Each Type of
	Inventory; Efficiency of Production Plan
	The Apex Procurement Department conducts regular assessments,
	audits, and reviews of key suppliers once a year. The evaluation takes
	into account ESG sustainability aspects and refers to norms such as the
	Responsible Business Alliance (RBA) Code of Conduct, ISO 14001, ISO
Evaluation	9001, and ISO 45001 certifications. These certifications ensure both
	parties' commitment to quality, environmental protection, and actions
Mechanisms	taken to eliminate any form of forced or compulsory labour, among
Mechanisms	other social responsibilities.
	For suppliers who do not comply with our company's supplier
	management policies and standards, we provide continuous
	guidance, improvement support, and monitoring. If a supplier still fails
	to meet the requirements, we will assess the specific circumstances
	and consider reducing transaction volume or ceasing transactions.
Engagement	65.01% of the suppliers are local suppliers from Thailand
Outcomes	Accounting for 35.54% of the total annual procurement amount.
and	
Effectiveness	
with Stakeholders	
Stakeholders	

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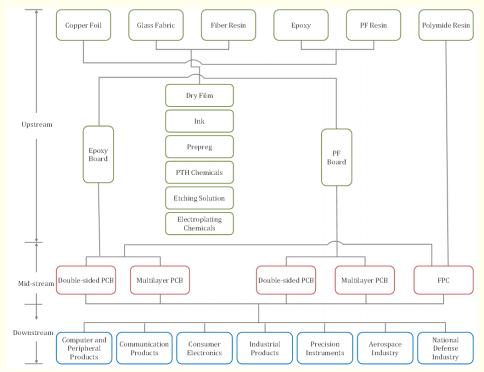
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Appendix

Printed Circuit Boards (PCBs) are the largest value-generating industry in the global electronic components sector and serve as a fundamental industry for the manufacturing of electronic information products. Apex primarily focuses on the production of double-sided and multi-layer PCBs, positioning itself in the midstream of the industry. Upstream, there are related components and materials such as various substrates, copper foils, and films. Downstream industries encompass information technology, communications, consumer electronics, semiconductor products, industrial control equipment, automotive, medical instruments, aerospace, and defence industries. The upstream raw material supply is not excessively concentrated, and there are long-term cooperative relationships with our company and its subsidiaries, ensuring stable and sufficient material sources. The downstream industry has a wide range of applications, and the development of both upstream and downstream sectors is fairly robust.

In recent years, the shipments of electronic terminal products, including smartphones, computers, and televisions, have not grown significantly, actually with a recession, while the overall PCB output value maintains its growth. 5G infrastructure in the early stage is a key point. In the future, as the application of high-end PCB products such as 5G and AI continues to be promising, it is expected that the market competition for high-end products will continue to intensify. In terms of product structure, the current multi-layer PCB market still dominates the market. With the rapid development of electronic circuit industry technology, the integrated functions of components have become more and more extensive. Electronic products such as high multilayer boards, HDI boards, flexible boards, and package substrates have gradually taken over market dominance.

Apex's major products, multi-layer board, are consumer electronic products, and its market will experience moderate growth. Because the Group's current revenue generation in this area is still relatively low. Therefore, if Apex can meet the requirements of the market for products and enhance process capability, there is considerable room for growth. The main competitors of such conventional hardboards are manufacturers located in Mainland China, including Taiwan-funded plants and China-funded plants. In recent years, companies in Mainland China have increasingly strengthened their competitiveness through government support, self-technology upgrading, and the gradual integration of upstream and downstream industries. However, in recent years, the increasingly stringent environmental protection ban in mainland China will lead to an increase in the cost of environmental protection.



Reference: Material and Chemical Research Laboratories, Industrial Technology Research Institute

#### **Market Share**

The Company's and its subsidiaries annual sales in 2022 is NT\$14,906,225,000 (approximately US\$499 million), accounting for a relatively low market share in the global output value of double-layer, 4-layer to 12-layer printed circuit boards. The Company is now ranked No. 1 in the printed circuit board industry for Taiwanese businessmen in Thailand.

## **Competitive Advantages**

I. Excellent Corporate Management

Apex' s management team is dedicated to the company, maintains business stability and growth, endeavours in the sustenance of internal communication channels, and also adheres to five major management concepts.





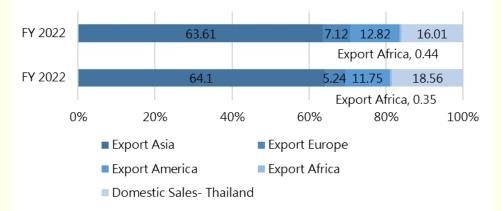


II. Diversity of Client Sources and Product Applications

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Apex' s clients are spread around Japan, Korea, Europe, America and China and major international manufacturers are among the end customers. Diversification of client sources reduces the influence of the economic situation of a single country or region on Apex. In the meantime, diversification of product applications, including electronic products, computer-related, communications and automotive products, enables Apex to stand out as a company capable of meeting the various needs of clients and its product development can also create complementary effects.





## III. Cost Control and Product Price

Complicated production processes and production according to orders are the characteristics of PCB manufacturing. Hence, precise and effective management are the foundation for the maintenance of competitiveness and the creation of profit. Whole production processes of PCB are in-house, so Apex can control the scrap rate of each workstation and thus decrease production costs. At the same time, Apex has centralised sales and procurement so as to reduce time lag. Finally, good cost control has resulted in competitive product prices.

Sustainable Environment

Appendix

## Management Policies for Material Topics: Harmed reputation

5	
Impact Assessment	Damage to reputation falls under the category of reputation impact.
	The potential impacts of reputation damage may include:
	(1) Loss of orders or customers.
	(2) Adverse effects on credit ratings, impacting financing capabilities.
	(3) Negative impact on recruitment and retention of talent.
Policies and Commitments	(1) Enhancing legal compliance and regulatory requirements
	knowledge through professional development courses and
	educational training.
	(2) Regularly obtaining ISO 9001 certification for quality management
	systems.
	(3) Establishing a Sustainable Development Committee to drive
	sustainable development initiatives.
	(4) Adhering to international conventions and standards regarding
	labour working conditions, such as TLS (The Labour Standards),
	Responsible Business Alliance (RBA) Code of Conduct, etc.
Governance	Sustainable Development Committee, Business Department, Quality
Structure	Assurance Department and Administrative Department
	Short-term: keep effectively managing the operations and ESG works.
Management	Mid & Long-term: keep improving risk control system; study schedule
Actions	of introducing international standards.
KPI	ESG rating score, significant violation case and penalty amount.
Evaluation	Regular communication with stakeholders
	Participation in ESG ratings by professional organisations
Mechanisms	The Sustainable Development Committee holds at least one meeting
	per year to assist the Board of Directors in driving sustainability
	initiatives for the company and its subsidiaries.
Engagement	No significant incidents of integrity violations, infringement of
Outcomes and	customer privacy, or violations related to environmental protection or
	human rights occurred. Reporting Channel
Stakeholders	TEL : (02) 2717-0032

**Ethical Corporate Management** 

Social Prosperity

Integrity and honesty have always been the core values of Apex's corporate culture and the foremost principle of our business philosophy. We are committed to conducting all business activities with integrity and strictly prohibit any form of corruption or fraudulent behaviour. The company has established integrity-related policies and regulations through the board of directors and consistently monitors the development of domestic and international corporate governance systems. Based on this, we review and improve the corporate governance framework to enhance its effectiveness.

**Related Internal Policies** 

- Principle of Corporate Governance
- Procedures for Ethical Management • and Guidelines for Conduct
- Principle of Sustainability Development.
- Code of Ethics for Directors and Officers
- **Promote and Implement**

- Ethical Corporate Management Best **Practice Principles**
- Measures to Prevent Insider Trading
- Transaction Procedures for Related Parties, Specific Companies and Group Companies

Our company has incorporated a clear policy to prevent conflicts of interest in our Code of Conduct, emphasising the importance of integrity in our business operations. Independent directors regularly review audit reports and engage with the audit manager to understand any instances of conflicts of interest within the company. We strive to maintain open and effective communication channels with stakeholders. We have established a reporting system to further support our commitment to ethical conduct. The reporting system is overseen by independent directors and the audit manager, and the channels for reporting are as follows:

- Ι. Internal: CEO BOX 
  BROTHER BOX
- П. External: The audit manager's contact information is disclosed on the company's official website. Through the reporting system, no ethical issues were reported in 2022, and regular audit checks did not uncover any abnormal issues related to the following topics:
- The benefits of external providers Private transactions
- commitments to external
- Political donations
- Large-scale donations
- Protection of trade secrets and intellectual property
- Compliance with international regulations
- Insider trading
- Customer/Supplier ethical issues

Apex International Co., Ltd. 33 ESG Report 2022



E-mail : ethics@apex-intl.com.tw

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#### Investigation Procedures and Reporting Channels

Material Topics

The company has established a standard operating procedure for reporting matters, and the process of receiving and investigating reports. All documentation related to the receipt, investigation process, and investigation results should be documented and retained for five years. If the reported matter involves general employees, it should be reported to the department supervisor. If the reported matter involves directors or senior executives, it should be reported to the independent directors.

For substantiated reports, the relevant units must review internal control systems and operational procedures and propose improvement measures to prevent the recurrence of similar incidents. The dedicated unit responsible for handling reports should report the reported matters, the handling process, and the subsequent review and improvement measures to the board of directors.

#### Compliance with regulations

Apex strictly adheres to local laws and actively practices various global initiatives or conventions in areas such as the environment and human rights. We have established multiple internal regulations through the Board of Directors to strictly govern our employees, leaving zero tolerance for any unlawful activities. In the event that any employee or representative of the company engages in suspicious behaviour or potentially violates the company's code of conduct, individuals can anonymously report such misconduct through Apex's official website in both Chinese and English. Reported matters will be directly handled by the company's audit manager.

In 2022, Apex did not experience any significant violations of ethical conduct, nor were there any major incidents related to environmental protection or human rights.



# 4.6 Supplier Management Policy

Social Prosperity

Apex maintains long-term and close relationships with its business entities and suppliers, aiming to achieve mutual trust and mutual benefit. As raw material suppliers have a significant influence on product manufacturing, Apex places great importance on their compliance with environmental protection regulations. Suppliers are required to comply with local government regulations related to air pollution control, water pollution control, waste management, and toxic substance management. In the event of any violations, suppliers must promptly submit improvement plans.

Furthermore, Apex also requests suppliers of processed raw materials to provide statements ensuring that their products do not contain internationally prohibited substances harmful to the environment. This ensures that the products meet customer and international regulatory requirements, such as the EU RoHS directive, the absence of perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA), and compliance with the EU REACH chemical regulation. In the event of significant deficiencies identified during supplier environmental audits, the procurement supervisor requests the supplier to make improvements.

Establishing an environmental management system, setting environmental goals, and assessing suppliers for ISO 14001 or RC14001 certification are also part of Apex's supplier management policies. Apex strictly adheres to the Responsible Business Alliance (RBA) Code of Conduct and encourages suppliers to follow suit. Non-conflict minerals are procured, and the promotion of humanitarian spirit and the practice of human dignity are advocated as social and moral guidelines. Apex fulfils its corporate social responsibility by avoiding the use of raw materials obtained in armed conflicts or human rights violations.

### The Supplier Management Implementation

The procurement department of Apex conducts regular assessments, audits, and reviews of key suppliers once a year. In 2022, following the company's supplier audit mechanism, audits were conducted on major suppliers, and comprehensive performance evaluations were carried out. The evaluations take into account ESG (Environmental, Social, and Governance) sustainability aspects and refer to standards such as the Responsible Business Alliance (RBA) Code of Conduct, ISO 14001, ISO 9001, and ISO 45001 certifications. These assessments ensure that both parties fulfil their responsibilities in terms of quality, environmental protection, and actions to eliminate forced or compulsory labour.

The company provides continuous guidance, improvement support, and monitoring for suppliers who do not comply with Apex's supplier management policy and standards. If a supplier still fails to meet the requirements, Apex will take appropriate measures based on specific circumstances, such as reducing transaction volume or ceasing transactions with the supplier.

Social Prosperity

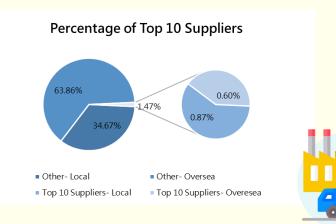
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#### **Local Procurement**

With the formal launch of the ASEAN Economic Community (AEC) and the advantage of zero-tariff border trade, Thailand has been enjoying the benefits of exporting to ASEAN countries. In recent years, Thailand has made significant improvements in its land transportation system. Transporting goods between Thailand and any region in mainland China now takes only 7-10 days. This has not only reduced delivery time but also lowered costs, thereby increasing competitiveness. In terms of local procurement, Apex has established partnerships with local suppliers in Thailand to procure raw materials and services, resulting in effective time savings.

In 2022, The procurement amount from Apex's suppliers in Thailand accounted for 35.54% of the total annual procurement amount, and the number of local suppliers reached 65.01%. Among the top ten suppliers, 40.82% of the procurement amount came from local suppliers.

In recent years, the supply chain in the PCB industry in Thailand has been growing. Considering the shorter transportation distance, reduced supply chain risks, support for local economic development, increased local employment opportunities, and the significant reduction in carbon emissions from using local materials, Apex continues to prioritise increasing the proportion of local procurement. This will be an ongoing procurement goal for the company.



# 4.7 Customer Service

#### Management Policies for Material Topics: Uncertainty of market information

variagement Policies for Material Topics. Oncertainty of market mormation		
Impact Assessment	Market information uncertainty is indeed a part of risk management.	
	5	
	The operational impacts caused by market information uncertainty	
	are as follows:	
	(1) Misalignment of production and sales planning, increasing the	
	risk of finished goods inventory and cash flow.	
	(2) Misalignment of raw material inventory planning, increasing the	
	risk of misaligned raw material planning and higher procurement	
	costs.	
Policies and Commitments	(1) Strengthening negotiation and communication skills, customer	
	relationships, and market analysis through education and training.	
	(2) Regularly engaging in stakeholder communication.	
Governance	Business Department, Manufacturing Department, Administrative	
Structure	Department and Financial & Accounting Department	
	Short-term: raise management intensity on present market analysis,	
	management of customers, agents and logistic vendors in order to	
	strengthen judge ability to market change.	
Management	Mid & Long-term: to supplement training of communication and	
Actions	negotiation, customer relationship management and marketing	
	analysis; to build up channel of summary of political and economic	
	situations.	
	Capacity Utilization Rate, Monthly Production Value, Turnover Rate	
KPI	of Each Type of Inventory	
Evaluation	Regularly conducting statistical evaluations of monthly production	
Mechanisms	value and turnover rate of each type of inventory.	
Engagement	The total production value in 2022 was NT\$17,402,440,000.	
Outcomes and		
Effectiveness with		
Stakeholders		

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Management Pol	icies for Material	<b>Topics: Customer</b>	behaviour changes

Charges in another help in an and of another relationship
Changes in customer behaviour are part of customer relationship management. The inability to meet value chain/sustainable supply chain requirements can pose risks in the following ways: (1) Inability to meet customer requirements for carbon reduction effectiveness (pricing, carbon emissions reduction, low-carbon processes, etc.). (2) Increasing customer audit requirements in various ESG (Environmental, Social, and Governance) aspects. This may include RBA (Responsible Business Alliance) compliance, conflict minerals management, TCFD (Task Force on Climate-related Financial Disclosures) assessment, carbon reduction efforts, energy management capabilities, water resource management, etc. Time pressure to meet these requirements will escalate. (3) Audit scores may affect order acquisition. (4) Legal disputes or damage to corporate reputation in ESG aspects can also impact order acquisition. It is important for the company to address these challenges and align with customer expectations in terms of ESG compliance, carbon reduction, and overall sustainable practices to maintain and enhance customer relationships.
(1) Issuing an ESG annual report and disclosing ESG-related actions
continuously throughout the year.
Business Department, Corp. & Legal Department and Sustainable
Development Committee
<ul> <li>Short-term: proactively exchange ideas with customers and vendors about ESG expectation in order to know schedule of realization in audit activities.</li> <li>Mid &amp; Long-term: to seek opportunities for management innovation and transformation.</li> </ul>
Customer Satisfactory Score, Customer Annual Audit Result, Analysis of Sale Amount of Each Type
Conducting two customer satisfaction surveys per year, including quality, transportation, and service. Quality satisfaction accounts for 50% of the total score, transportation for 30%, and service for 20%. Participating in ESG ratings by professional organisations.

	The Sustainable Development Committee holds at least one meeting	
per year to assist the Board of Directors in promoting sustaina		
	development initiatives for the company and its subsidiaries.	
Engagement	2022 Results:	
Outcomes and	Customer Satisfaction:	
Effectiveness with	APT: 93 points	
Stakeholders	APS: 89 points (out of 100)	

#### **Customer Satisfaction**

Social Prosperity

Apex values customer needs and expectations and continuously strives to improve satisfaction. By addressing and improving internal processes based on customer feedback, Apex maintains its position as a supplier on customers' lists and drives business growth. Apex maintains regular contact with customers through day-to-day operations and conducts customer satisfaction surveys every six months.

These regular surveys cover Apex's top ten printed circuit board (PCB) product customers and assess product quality, delivery speed, and service. The survey results are analysed and reported directly to management, allowing for improvements in internal and external processes based on customer feedback.

A dedicated customer service team is in place to handle customer complaints promptly and provide comprehensive product information. Apex ensures that product labeling complies with relevant regulations and international standards such as RoHS and HF. In 2022, Apex did not experience any significant legal violations, demonstrating its

APT APS 94 94 93 89 90 88 100 100 80 28 28 29 28 28 27 60 19 19 19 50 26 23 19 40 20 0 Ω 2020 2021 2022 2020 2021 2022 Quality Delivery Service ----- Total Quality Delivery Service -Total

Note: APT' s score allocation is 50% for quality, 30% for service, and 20% for delivery. APS' s score allocation is 2019 H1: quality 50%, service 30%, delivery 20%. 2019 H2~2021H1: quality 40%, service 30%, delivery 30%. After 2021 H2: quality 50%, service 30%, delivery 20%.

commitment to compliance and upholding regulations.

APE)

Social Prosperity

# 5. Sustainable Environment

Material Topics

In late 2015, the United Nations Framework Convention on Climate Change (UNFCCC) held its 21st Conference of the Parties (COP 21) in Paris, France, where the "Paris Agreement" was negotiated and adopted. The aim of this agreement is to limit global temperature rise to well below 2 degrees Celsius and to strive for a temperature increase of no more than 1.5 degrees Celsius. The Paris Agreement has significant importance and impact on global efforts to reduce greenhouse gas emissions and address climate change.

The "Science-Based Targets Initiative" (SBTi), launched in 2015 by the United Nations Global Compact and organisations such as the Carbon Disclosure Project (CDP), has become one of the fastest-growing and most reputable climate action initiatives globally. Initially, limiting global warming to 2 degrees Celsius was considered the mainstream view. However, after the Intergovernmental Panel on Climate Change (IPCC) released its "Special Report on Global Warming of 1.5 degrees Celsius" in 2018, it became evident that efforts should be made to limit the temperature increase to well below 2 degrees Celsius and strive for 1.5 degrees Celsius. As a result, the reduction targets submitted to SBTi after July 15, 2022, were limited to 1.5 degrees Celsius.

As a leading printed circuit board (PCB) manufacturer in Thailand, Apex recognises the risks and potential impacts of climate change, as well as the importance of green sustainability for business development. Therefore, the company is committed to environmental protection and energy efficiency, aiming to integrate production with environmental conservation and optimise the use of energy and resources while reducing carbon emissions and waste generation.

Apex has proposed a Green Project with three key elements. Firstly, it plans to adopt ISO 14064-1, develop an internal carbon footprint information collection platform, establish a more comprehensive carbon inventory mechanism, and conduct greenhouse gas inventories. This will pave the way for the development of carbon reduction plans. Secondly, the company actively seeks alternative energy sources, building upon the foundation of the Sandbox Project and solar energy initiatives. It collaborates with energy-saving organisations and equipment suppliers to explore more energy-saving opportunities and expand the breadth of renewable energy programs, thereby strengthening its carbon reduction policies. Thirdly, in response to waste pollution management issues, Apex plans to reduce waste generation through new processes and developments. It will also enhance waste management and water resource management systems through the Apex wastewater recycling project, moving towards resource recycling. In addition to launching various large-scale projects to promote an environmentally friendly environment, the management team is committed to enhancing employees' carbon reduction awareness. Environmental sustainability and corporate social responsibility are integrated into the thinking patterns of employees, leading them to participate in green actions that protect the environment in their daily practices. Apex aims to construct and explore sustainable strategies that align with its corporate culture and fully implement climate change management actions. By fulfilling its corporate social responsibility and striving for sustainable development, Apex believes it can become a driving force in promoting environmental sustainability within the industry.

### 5.1 Management of Water Resources and Wastes

With the increasing global population and the impact of climate change, the supply of water resources has become limited and unstable. Therefore, effective water resource management is necessary to ensure that we can meet current and future water demands. The objective of water resource management is to maximise the utilisation of existing water resources and ensure their proper protection and management. Through scientific, technological, and policy means, reducing waste and losses, increasing water supply, improving water quality, and water efficiency and effectiveness can be maximised. Managing water resources is a crucial issue for human survival and development, requiring global collective



Environment

efforts. In the manufacturing process of Apex's products, wastewater is also generated, so the company attaches great importance to this issue and continuously focuses on reducing wastewater discharge and implementing recycling and treatment measures to ensure sustainable utilization and management of this valuable resource.

In the PCB manufacturing process, a significant amount of water, electricity, and chemicals are used. Due to the complex nature of process wastewater and the sequence of operations, Apex discharges post-use alkaline etching solution, acidic etching solution, and other process wastewater separately into temporary storage tanks. According to the regulations of the industrial zone, it is mandatory for factories to control the parameters of discharged wastewater within standard limits before releasing it to the wastewater treatment plant. Apex follows the designated pathways for wastewater discharge as stipulated by the industrial zone regulations and complies with the relevant industrial laws and standards in Thailand from acquisition to discharge, aiming to achieve environmental protection goals.

- After the alkaline etchant is electrolysed by the RecoCell equipment, the copper in the waste solution is recovered, and the treated alkaline etchant will return to the process for use.
- The acid etchant is processed by a qualified company in the industrial estate. The company uses electrolysis to recover copper in the waste solution and then sells the acid etchant to customers in need.
- Before the wastewater from other processes is filtered by the RO system, about 84% of the wastewater can be recycled to the original process for reuse, and the remaining 16% of the wastewater can be mixed with domestic sewage and precipitated to filter out the sludge. After entering the RO system for further filtration, it can 95% is recycled, and the discharged wastewater accounts for about 5% of the wastewater generated by the original process.



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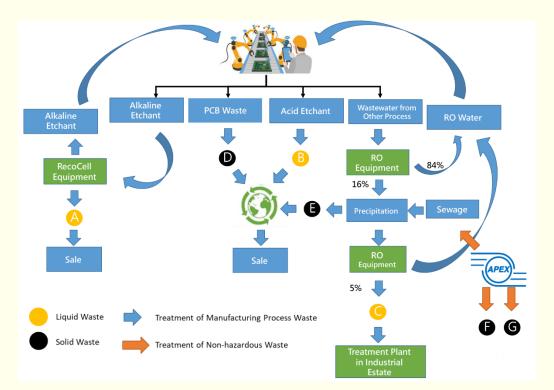
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Environment

In 2022, Apex experienced changes in its products, which decreased copper content in the etching solution. This, in turn, affected the recovery of both acidic and alkaline etching solutions, leading to the temporary shutdown of the alkaline etching solution recovery line. Additionally, due to product variations, we mixed low-copper content waste printed circuit boards with regular copper content waste PCBs, resulting in an increase in PCB waste. Furthermore, in February 2022, we implemented a new wastewater treatment system; however, as the new system was still in the testing phase, it led to a significant increase in the moisture content of the sludge.

Liquid	Treatment Method	Recycled/Trea		
Liquid	freatment Method	FY 2021	FY2022	
Alkaline Etchant	Use RecoCell equipment for electrolytic recycling and reuse	1,022 Tons	684.14 Tons	А
Acid Etchant	Discharged by a qualified company in the industrial estate	10,580 Tons	9,509.90 Tons	В
Wastewater from Other Processes Sewage	Discharge to the wastewater treatment plant in the industrial zone	2.99 million m <sup>3</sup>	2.78 million m <sup>3</sup>	С

Solid	Treatment Method	Recycled/Treatment Amount			
30110	freatment Method	FY 2021	FY 2022		
PCB Waste	Discharged by a qualified company in the industrial estate	155 Tons	196.49 Tons	D	
Precipitation	Discharged by a qualified company in the industrial estate	5,224 Tons	6816.12 Tons	Е	
Rubbish (note)	Garbage cleaning by the government	5,316 Tons	6043.68 Tons	F	
Food Scraps (note)	Waste clearance agency	536 Tons	577.63 Tons	G	
Copper	Sell it, after undertaking the processing procedures	-	123.46 Tons		



Note: Rubbish and Food Scraps in the 2021 ESG report are not included in APS, and APS is included in the statistics in 2022.

According to Sinsakhorn Industrial Estate, Apex is obligated to control wastewater in accordance with standard parameters prior to discharging wastewater to the wastewater treatment system of the Industrial Estate. The standard parameters and the water samples sent by Apex to the Industrial Estate Administration Bureau are shown in the attached table.

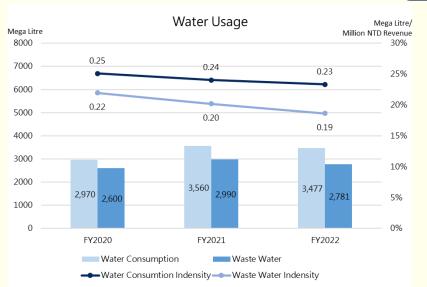
Parameter	Unit	Standard	Result	Detection Method
рН		5.5-9.0	Compliant	Electrometric Method
Total Dissolved Solids (TDS)	Mg/l	3,000	Compliant	Dried at 103-105°C
Suspended Solids (SS)	Mg/l	200	Compliant	Dried at 103-105°C
BOD	Mg/l	500	Compliant	5-Day BOD test, Azide
				Modification

Parameter	Unit	Standard	Result	Detection Method
COD	Mg/l	750	Compliant	Closed Reflux, Colorimetric
				Method
Copper (Cu)	Mg/l	2.0	Compliant	Nitric Acid Digestion and Direct
				Air Acetylene Flame: AAS
Oil & Grease	Mg/l	10	Compliant	Soxhlet Extraction Method

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Note: In the past, the unit for water resources data was million cubic meters. To comply with the GRI guidelines, the unit for the 2022 water resources report has been changed from million cubic meters to million litres (1 million cubic meters is equivalent to 1,000 million litres).

Apex sourced all its water from third-party providers, including the local water company and industrial area treatment plants. The water intake for 2022 was 3,477 million litres, water consumption was 696 million litres, and wastewater generated was 2,781 million litres. In comparison, the water intake for 2021 was 3,560 million litres, water consumption was 570 million litres, and wastewater generated was 2,990 million litres. In 2022, there was a reduction of over 1% in both water consumption and wastewater generation compared to 2021.



### 5.2 Energy Efficiency and Policy

Social Prosperity

Management Policies for Material Topics: Energy management

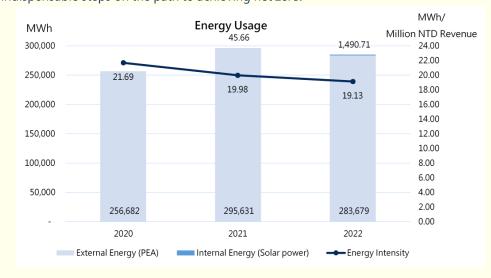
	Material Topics. Energy management				
	Energy management falls under carbon emissions and energy				
	management.				
	Hazards may arise from:				
Import Accession	(1) Power shortages				
Impact Assessment	(2) Increased electricity costs and rising gasoline prices				
	(3) Increased carbon fees				
	(4) Addition of carbon-related regulatory requirements, thereby				
	affecting production costs.				
	(1) The goals of renewable energy usage ratio				
	2025: 5%				
Policies and	2035: 10%				
Commitments	2045: 30%				
	2060: 50%				
	Sustainable Development Committee and Financial &				
Governance Structure	Accounting Department				
	Short-term: set up solar cell equipment to generate electricity				
	by ourselves.				
Management Actions	Mid-term: gradually expand scale of solar cell.				
	Long-term: to study knowledge, type and source of talents and				
	capital of installing a power plant				
	Generated Electricity of Solar Cell, Ratio of Output to Energy				
KPI	Used				
<b>Evaluation Mechanisms</b>	Regular statistics of solar power generation				
Engagement Outcomes					
	Use 1,490 MWh of solar energy and continue to build solar				
Stakeholders	systems				
	- ,				

EnvironmentIn recent years, energy conservation and carbon reduction have become an internationalfocus in order to mitigate the exacerbation of climate change. Our company'sI.

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focus in order to mitigate the exacerbation of climate change. Our company's management team adheres to the concept of sustainable business and has officially launched the mid- to long-term Apex Solar Project. Building upon the initial success of the Apex Sandbox Project in energy usage, the solar energy solution will leverage Thailand's advantage of an average of 200 days of sunlight per year to expand and develop the use of renewable energy within the group, strengthening sustainable operations and addressing important global issues.

In 2022, the Apex Solar Project began construction gradually, and some solar equipment has been put into operation. The usage has increased by 3,164.81% compared to the previous year, amounting to 1,445 megawatt-hours. The proportion of energy usage has also increased by 0.5%. The utilisation rate of solar power will continue to increase in the future, with a short-term goal of solar energy accounting for 5% of total energy consumption by 2025 and reaching 10% by 2035. Apex is striving to produce clean and renewable energy sources. Reducing energy consumption is also imperative. In 2022, energy usage decreased by 3.55% compared to the previous year. Currently, Apex is implementing the FA Goal project internally, actively improving equipment operation efficiency and reducing energy usage through production equipment planning adjustments and component replacements. With only one Earth, proactive energy management, reduced energy consumption, and lowered carbon emissions are indispensable steps on the path to achieving net zero.



Energy-saving implementation in 2022:

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#### I. FA Goal

Apex internally implements plans to improve equipment operational efficiency and reduce energy consumption through the planning adjustments of production equipment and the replacement of components. In 2022, the FA Goal aims to achieve energy savings of over 9,000 kWh per day through the improvement of production equipment planning and component utilization.

II. Lean Project

The implementation of this plan is scheduled from 2022 to 2023. With the guidance of external experts, six measures have been proposed to improve equipment operational efficiency. These measures include:

- i. Utilizing current optimisation technology to reduce power system energy consumption.
- ii. Addressing the unloading issues of the turbine compressor.
- iii. Installing high-efficiency vacuum blowers and implementing control systems.
- iv. Using temperature difference sensors to monitor and control hot water loads.
- v. Modifying the approach to heating hot water.
- vi. Implementing high-efficiency cooling systems and monitoring them.

Through effective system management and improvement, it is expected to achieve

a 10% reduction in energy consumption associated with equipment operation.

### Solar Project

The Solar Project is planned to be implemented in three phases from 2021 to 2027, gradually expanding to various plant sites in Thailand. Upon completion of all phases in 2027, the total installed capacity of our company's solar photovoltaic systems is projected to exceed 20,970 kilowatt-hours. This initiative is expected to reduce annual carbon dioxide emissions by over 15,000 metric tons, compared to the baseline year of 2021 as per the company's greenhouse gas inventory data. This reduction is equivalent to a decrease of more than 8% in carbon emissions.

In addition to our commitment to sustainable development, during the solar panel installation process, we engage professional vendors who prioritise safety and provide guidance through relevant training programs. These programs are open for participation by employees, fostering a sense of collaboration, unity, and pride as part of the Apex Family in our efforts towards energy sustainability and construction.

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				Corpora		Envire	onment
Phase	Solar plant (kWp)	FY2022	FY2023	FY2024	FY2025	FY2026- 2027	5.3 Ma
	Canteen	291.60					In
	CPP + DRILLING	622.08					
	Warehouse	1,536.36					
	Office	321.01					
Phase	New FG		908.60				
1	Water plant		651.75				
	New Water plant		305.80				
	Rooftop Apex 2 (Project building floor 3)		3,200.00				
	New Chemicals & Hazardous waste plants			370.60			
	Rooftop Apex 1 (Canteen)			207.00			
Phase	Rooftop Apex 1 (Plan D)			254.10			
2	Rooftop Apex 1 (Project building floor 3)			3,000.00			
	New AREA (16+12 total 28 rai land)				4,500.00		
	Rooftop Apex 3				1,800.00		
Phase	Rooftop Apex 4 (New					2 000 00	
3	factory)					3,000.00	
Solar C	Capacity (kWp)	2,771.04	5,066.15	3,831.70	6,300.00	3,000.00	
Accum	ulate Solar Capacity (kWp)	2,771.04	7,837.19	11,668.89	17,968.89	20,968.89	
CO2 Re	eduction (Tons)	2,021.70	5,719.28	8,515.86	13,113.94	15,303.51	
Note: CO	2 Reduction 1 000 kWn=729 85 To	n CO2/Vear					E

### 5.3 Mitigating Global Warming

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### Management Policies for Material Topics: Material Rising price of GHG emission

Impact Assessment	The implementation of material rising price of GHG emission s			
impact Assessment	under carbon emissions and energy management. Carbon taxes			
	or regulations can result in increased costs, which can impact			
	various aspects of business such as pricing quotations,			
	procurement choices, freight rates, transportation modes, and			
	accounting information gathering.			
Policies and	(1) Solar Project ( use of renewable energy )			
Commitments	(2) Lean Project (system equipment energy saving, external			
	assistance plan )			
	(3) FA Goal (system equipment energy saving, internal			
	independent plan )			
	(4) Reduce GHG emissions by 5% by 2027 (base year 2022)			
Governance	Sustainable Development Committee and Financial &			
Structure	Accounting Department			
Management	Short-term: we have proceeded GHG inventory count and been			
Actions	installing ISO 14064-1; keep promoting energy-saving projects.			
	Mid & Long-term: study schedule of installing carbon footprint			
	and carbon pricing; adjust carbon strategy during the			
	instalment.			
КРІ	Performance of Energy-Saving, Unit CO2 Emission			
Evaluation	ISO 16064-1 Certified			
Mechanisms				
Engagement	2022 Results			
Outcomes and	Scope 1 + Scope 2 GHG emissions reduced by 29,920 tons			
Effectiveness with	GHG emission intensity 10.41 tons CO2e / Million NTD Revenue			
Stakeholders				

Note: CO2 Reduction 1,000 kWp=729.85 Ton CO2/Year

Average of the Time That Can Receive Solar Radiation In 2022 : 1,000 kWp = 4 Unit SGS Thailand suggested the emission factor for a carbon footprint

for Organization (CFO): 0.4999 kgCO2e

(1,000 x 4 x 365 x 0.4999) / 1,000 = 729.85 tonCO2e



Linit: Tons CO2

Environment

Apex has recognised the global concern for climate change and greenhouse gas (GHG) emissions and the importance of taking action across all departments to reduce GHG emissions. In 2016, the company established a GHG inventory as a list of targets for emission reduction, using 2019 as the baseline year. The plan is to reduce GHG emissions by 5% per million in revenue generated over the next five years (emissions are from Scope 1 and Scope 2 GHG emissions listed in the GHG inventory). By the end of 2022, Apex has successfully achieved this goal, reducing carbon intensity by 5.36%. The new short-term goal is to reduce GHG emissions by 5% based on 2022 over the next five years.

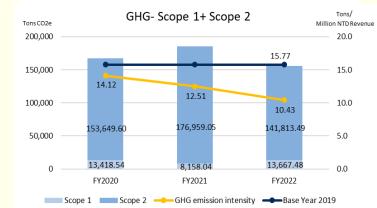
Apex primarily consumes electricity for manufacturing and power supply. Through the implementation of the FA Goal project, energy consumption and GHG emissions have gradually decreased. Additionally, the GREEN Project aims to increase the production and proportion of renewable energy. The first phase of the Solar Project was partially operational in 2022, reducing over 2,000 tons of CO2e. The solar power generation project is divided into three phases, with the first phase still under construction, aiming to effectively reduce purchased electricity and carbon emissions in the coming three years. Apex utilises the TGO-CFO (Thailand Greenhouse Gas Management Organization -Carbon Footprint) program (equivalent to ISO14064-1:2006) as the reporting standard and has established the GHG inventory. This standard covers reporting CO2, CH4, N2O, HFCs, PFCs, SF6, and NF3 emissions, collected regionally. If the company has no factories but only offices in a particular region, only the electricity consumed by the local office is collected, and the carbon emission factors are calculated based on the power carbon coefficients published by the Bureau of Energy, Ministry of Economic Affairs, Taiwan in 2022, the baseline emission factors published by the Ministry of Ecology and Environment of China in 2022 for emission reduction projects in southern China, and the emission factors published by TGO-CFO for Thailand. The global warming potential (GWP) values used are based on IPCC AR5. Other indirect GHG issues mainly come from the supply chain, so Apex has conducted Scope 3 GHG inventories in collaboration with suppliers to control Scope 3 GHG emissions and aims to expand the scope of inventory to further control.

### 5.4 Compliance with Environmental Regulations

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All of our company's facilities comply with government regulations regarding environmental-related operations to ensure full compliance. We also conduct selfassessments based on various international standards. We continuously improve our production processes to reduce pollution sources and actively invest in pollution prevention and control equipment that is in line with environmental strategies. We entrust qualified professional environmental firms to handle and manage waste, aiming to minimise actual or potential environmental pollution in local communities.

In the fiscal year 2022, no major losses (including compensations) or disposals were incurred due to environmental pollution. Apex consistently operates at the highest standards, aiming to mitigate environmental costs during production and foster a harmonious relationship with the environment.



					U	init: Ions CO2e	
Year	· FY2020		FY.	2021	FY2022		
Scope	GHG	Scope ratio	GHG	Scope ratio	GHG	Scope ratio	
Scope 1	13,418.54	7.41%	8,158.04	3.95%	13,667.48	7.86%	
Scope 2	153,649.60	84.89%	176,959.05	85.73%	141,813.49	81.60%	
Scope 3	13,932.89	7.70%	21,288.93	10.32%	18,312.04	10.54%	
Biomass Fuel	5.89	0.00%	4.75	0.00%	4.99	0.00%	
Total	181,006.92	1.00	206,410.77	1.00	173,798.00	100.00%	
GHG emission intensity	14.12 Tons/ Million NTD Revenue			ons/ Million TD Revenue	10.43 Tons/ Million NTD Revenue		

Note : GHG emission intensity = ( Scope1+Scope2 ) Tons CO2e/ Million NTD Revenue

Social Prosperity

# 6. Social Prosperity

### Management Policies for Material Topics: Change of political and social environment

	Changes in political and social environments fall under risk						
	management.						
	The interconnections between political and social changes and						
	operations can have direct impacts on various aspects:						
	(1) The stability of the political environment in a particular country can						
	influence the development of tax policies, investment policies,						
	environmental policies, industrial policies, carbon pricing policies,						
	etc., directly affecting operations.						
	(2) Changes in geopolitical dynamics can affect the migration of						
	industrial clusters, impacting supply chains and influencing choices in						
Impact	procurement, delivery reliability, and stability.						
Assessment	(3) Developments in carbon pricing and carbon tariffs can significantly						
	affect raw material costs and supply chain dynamics, requiring						
	continuous monitoring and appropriate adjustments to procurement						
	strategies.						
	(4) Changes in population structures can potentially impact the						
	stability of the labour force supply at the entry-level.						
	(5) Changes in societal values resulting from shifts in population						
	structures can also impact the stability of the labour force supply at						
	the entry level.						
	(6) Investment developments in different regions of Thailand can lead						
	to displacement effects on labour supply among different provinces.						
	(1) Through the employee welfare committee, advocate for the rights						
Policies and	of employees and ensure stability of personnel.						
Commitments	(2) Implement a fair remuneration policy and enhance training and						
	development opportunities to attract and retain talent.						
Governance	Corp. & Legal Department, Management Information System						
Structure	Department and Administrative Department						
Management	Short-term: through interaction with external parties by PUR, BIZ, and						
Management	F&A, market information is collected, analysed, and compared, and						
Actions	then fed back to the management for planning the management						

	activities.							
	Mid & Long-term: set up channel of summarizing political and							
	economic information; study mature educational operation plan with							
	schools; to improve qualitative system of employee career skills.							
KPI	Recruit Percentage, Qualitative Index of Skill							
Evaluation	Monthly staff turnover rate below 10%.							
Mechanisms	Regular communication with stakeholders.							
Engagement	Achievements in 2022:							
Outcomes	Total of 234,189 hours of education and training for directors,							
and	managers, and employees.							
Effectiveness								
with								
Stakeholders								



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Apex is a big family, where the senior management considers the safety, occupational health, and well-being of all employees and subcontractors working at Apex as a priority. Employees are crucial resources for Apex's successful operation; therefore, achieving zero occupational accidents is a business objective. Apex values its employees' physical and mental health, workplace rights, environmental hygiene, and safety. We are committed to creating a happy and safe work environment, providing employees with diverse and equal opportunities, equal pay for equal work, and fostering a relationship of mutual trust and respect between labour and management.

Apex's employees elect an employee welfare committee. Apex also organises regular donations and charity events to assist vulnerable groups. We have established internal company regulations in accordance with laws and various initiatives to ensure equal and fair treatment in human resource policies, regardless of gender, race, socioeconomic status, age, marital or family status. This also includes ensuring equality and fairness in employment, hiring conditions, compensation, benefits, training, performance evaluation, and promotion opportunities. A harmonious and pleasant working environment is required to reap the benefits of teamwork. To facilitate smooth communication and consensus among the management team and all employees, Apex prioritises reasonable salary levels, a good working environment, and effective communication channels.

Employees can provide suggestions and address issues to the management team through channels such as the CEO BOX and BROTHER BOX. Apex received no significant complaints in 2022. Apex maintains harmonious labour relations and has not experienced any major labour disputes. Apex has established a fair compensation policy, remuneration system, and performance evaluation mechanism. Performance assessments also include achieving sustainable business goals.

Apex has established a safety and occupational committee that conducts regular inspections to ensure that safety rules at work are followed and safety hazards are minimised. Employees are given regular medical check-ups to help them understand their health status and improve their physical and mental well-being. APT, an Apex subsidiary, has also received ISO 45001 certification for creating a good and safe working environment.

During the ongoing COVID-19, Apex actively engaged with hospitals to purchase vaccines, provided free vaccines and masks to all employees, and achieved a 100% vaccination rate among the entire workforce to prioritise their health and safety. Furthermore, Apex

complied with government policies to enhance quarantine areas, provided essential supplies and medical resources to high-risk and confirmed cases among the employees, and offered subsidies to support employees during the most challenging times, working together to overcome difficulties.

#### **Personnel Distribution**

All workforces are under a contractual agreement with Apex and there is no temporary or dispatched worker. The table below shows the number of employees' average seniority, average age and educational level etc. in Apex based on the date of 2022.12.31.

Year		FY 2020	FY 2021	FY 2022
	Manager and above	103	94	124
Number of Employees	Production Departments	4,666	5,722	4,53
Number of Employees	General Employees	2,606	2,850	2,75
	Total	7,375	8,666	7,41
Desition	Manager and above	103 <sup>4</sup>	94 <sup>5</sup>	124
Position	General Employees	7,272	8,572	7,293
Gender	Male	3,254	3,703	3,120
Gender	Female	4,122	4,963	4,29
	Taiwan	9	8	1
Regional	China	3	4	3
	Thailand	7,363	8,654	7,404
	Over 50 years old	97	98	12
Employee structure	30-50 years old	3,005	3,437	1,39
	Under 30 years old	4,272	5,131	5,904
Average Age		29.93	29.60	30.5
Average Seniority		3.97	3.60	4.30
	Master and above	12	14	10
	University	467	544	575
Education Level	Senior High School	4,167	4,816	4,07
	Below Senior High School	2,730	3,292	2,75

Note: The number of personnel distribution in 2020 and 2021 is revised.

APE

<sup>&</sup>lt;sup>4</sup> 63 persons are with Thailand nationality which is 61.17% of Manager and above.

<sup>&</sup>lt;sup>5</sup> 60 persons are with Thailand nationality which is 63.83% of Manager and above.

<sup>&</sup>lt;sup>6</sup> 86 persons are with Thailand nationality which is 69.35% of Manager and above.

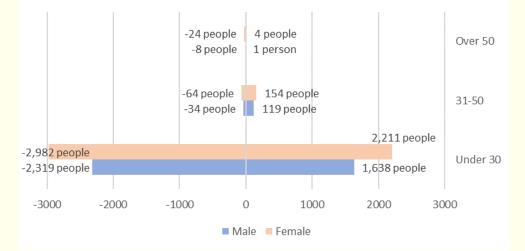
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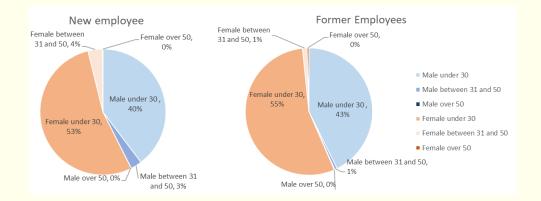
#### New and Former Employees

Social Prosperity

The average age of Apex employees in 2022 was 30.5 years old, with a percentage of 79.6% of employees being below the age of 30. Therefore, the proportion of new hires and departures also primarily consisted of employees below the age of 30.

Number of New and Former Employees





Apex International Co., Ltd.	
ESG Report 2022	_

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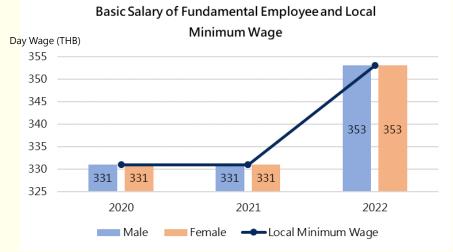
		Y 2022									
Gender/People	Male					Ferr	nale				
(%)	Thai	Chines e	Korean	Others	Thai	Chines e	Korean	Others	Sum		
Manager and above	0.71	0.35	0.03	0.05	0.44	0.08	-	-	1.67		
Engineer	3.49	0.18	-	-	1.43	-	-	-	5.10		
R&D	0.07	-	-	-	0.11	-	-	-	0.18		
IT	0.32	-	-	-	0.13	-	-	-	0.46		
Others	37.01	0.27	0.04	0.01	55.14	0.11	-	0.01	92.60		
Sum	41.61	0.80	0.07	0.07	57.26	0.19	0.00	0.01	100.00		

		Y 2021									
Gender/People (%)	Male				Female				<b>C</b>		
(70)	Thai	Chinese	Korean	Others	Thai	Chinese	Korean	Others	Sum		
Manager and above	0.51	0.37	0.02	0.06	0.30	0.08	-	-	1.34		
Engineer	0.39	-	-	-	0.16	-	-	-	0.55		
R&D	0.16	-	-	-	0.08	-	-	-	0.24		
IT	0.29	-	-	-	0.08	-	-	-	0.37		
Others	40.57	0.32	0.03	0.01	56.37	0.17	-	0.01	97.50		
Sum	41.92	0.69	0.06	0.07	56.99	0.25	-	0.01	100.00		

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#### **Employee Remuneration Policy**

In consideration of the company's profitability, performance evaluation results, and the long-term development of motivating employees, we provide fair and market-competitive compensation to attract, retain, and motivate exceptional talent, as well as reward employees who contribute to performance and long-term success. The company is committed to maintaining a stable employee livelihood through comprehensive compensation packages and creating a friendly work environment, which positively impacts employee morale and operational stability. We also prioritise fulfilling sustainability indicators and practising corporate social responsibility at all levels of the company. Every step we take aims to be environmentally friendly and beneficial to society, laying the foundation for sustainable business practices.



Note: The ratio of the starting salary of entry-level personnel to the local minimum salary is 1.00, which is the same for both male and female

The salary policy embodies the principle of sharing achievements. The company allocates no more than 2% of its profits as employee remuneration. Regular performance evaluations are conducted each year, taking into account individual performance, responsibility, and future development potential as the basis for salary adjustments and bonuses. Apex provides fair compensation based on employees' educational background, professional knowledge and skills, professional experience, and individual performance, without discrimination based on age, gender, race, religion, political stance, marital status, or union membership.

#### **Retirement system and implementation**

The employee retirement system is conducted in accordance to local regulations.

- Thailand area: The Company provides defined benefit retirement welfare to employees by following Section 118, Chapter 11 of the Thai Labour Protection Act. Employees who are qualified to criteria of retirement could get reasonable retirement fund with correspondent service years and salary level. The Company has booked related liability according to actuarial report issued by Thai certificated actuary.
- II. **Taiwan area:** The Taiwan Labour Pension Act applies to employees in Taiwan. The Company allocates 6% of each employee's salary to personal retirement fund under custody of Taiwan Bureau of Labour Insurance.

### **Continuing Education and Training**

Apex recognises that a robust employee development program is essential not only for enhancing employees' skills and competencies but also for attracting top talent. From the first day of employment, Apex provides comprehensive educational training courses and development plans, aiming to foster a sense of belonging and a culture of teamwork among employees through a process of continuous learning. The company encourages employees to actively participate in various project initiatives, empowering them to set high expectations for themselves and contributing to the company's competitive strength.

- I. New employee training is internal training, and the weekly accomplishment rates reached over 95%.
- II. Professional Training including internal training and external training. According to the type of program, it could be divided into Law/Regulation, Quality System, Quality and Efficiency, Attitude Adjustment, Leadership, ESG and courses regulated by the competent authority.

Project		Hours	Amount	Number of Trainees
New Employee Training	Male	40,800		15,300
New Employee Training	Female	54,840	2,379,000	20,565
Drofossional Training	Male	57,702	NTD	10,338
Professional Training	Female	80,739		14,521
Director and Manager	Male	94	34,000	28
Training	Female	14	NTD	5
Total	Male	98,596	2,413,000	25,666
rotal	Female	135,593	NTD	35,091

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Social Prosperity

As an industry that falls under labour-intensive manufacturing, the labour management relationship is crucial in the electronic components sector, and stakeholders within the supply chain also emphasise this issue greatly. Therefore, Apex has publicly disclosed regulations related to labour, which align with international conventions and requirements for working conditions, such as TLS and the Responsible Business Alliance (RBA) Code of Conduct, aiming to achieve zero complaints regarding labour-related matters. Apex ensures fair and equal treatment for all employees, and currently, overtime is voluntary and based on individual applications.

The Human Resources department works in collaboration with department managers to establish annual education and training plans based on departmental goals and competency requirements. Clear promotion assessment criteria for each job level are defined to promote talent development, retention, and utilisation. Apex takes a comprehensive approach to consider employees' compensation, benefits, and communication, enabling employees to not only pursue personal achievements and growth but also maintain a healthy work-life balance and foster their spiritual well-being.

Remuneration System	Welfare Policy	Employee Care and Communication
· Employee compensation	· Multiple shuttle bus routes providing	Multiple
· Seniority Award	transportation for employees to go to work	communication
$\cdot$ The employee retirement	and go home	channels: establish
system is handled in	· Employee uniforms	communication
accordance with the	$\cdot$ Employee cafeterias providing three meals	channels between
relevant laws and	a day	employers and
regulations of the local	· Full attendance rewards	employees through
country	<ul> <li>Sickness and funeral subsidies</li> </ul>	employee welfare
	· Employee loans	committees, weekly
	· Annual employee athletic events and	meetings, of official
	parties	website, CEO BOX,
	$\cdot$ Senior employee citations and awards	BROTHER BOX, etc.
	$\cdot$ Special treatment for pregnant employees	

Apex's labour-management relationship is harmonious, with no major labour disputes occurring. The company prioritises employee welfare and recognises the significance of addressing subjective and objective changes in the workplace by implementing various welfare measures to meet employee needs. Apex does not have a labour union, but it has formed two major committees: the ISO 45001 (formerly OHSAS 18001) Committee and the Safety and Occupational Committee. These committees have 374 members in total, accounting for about 5.04% of the total workforce. Furthermore, the ISO 45001 Committee and the Safety and Occupational Committee are in charge of developing, implementing, and upholding all occupational health and safety regulations and related laws that apply to Apex's operations.

Apex does not have a labour union, but we have an Employee Welfare Committee. This committee allows employees to express their opinions, make suggestions, and advocate for a fair working environment, rights, and development opportunities, all while increasing the company's social engagement. The Employee Welfare Committee is made up of 43 employees from various factory locations. Every employee has the right to run for and vote for a position. The company also offers subsidies to all candidates, demonstrating its commitment to employee participation.

Committee	Safety & Oo Comn	ccupational nittee:	ISO 45001 Committee:		
Member distribution	APT	APS	APT	APS	
Assistant Manager Level or above	64	5	226	-	
Others	67	12	-	-	
Total	131	17	226	-	

#### Human Rights Policy Commitment

To uphold and safeguard basic human rights, Apex acknowledges and supports the principles and rights outlined in various international human rights declarations and conventions, including the International Labour Organization's Declaration on Fundamental Principles and Rights at Work, International Labour Organization conventions, Tripartite Declaration of Principles concerning Multinational Enterprises and Social Policy, OECD Guidelines for Multinational Enterprises, Universal Declaration of Human Rights, and United Nations Guiding Principles on Business and Human Rights. Apex is committed to respecting and protecting human rights, fulfilling its responsibilities in this regard, and complying with labour-related laws and regulations in the countries where it operates. To ensure the implementation of these principles, Apex has established a "Human Rights Policy Management Procedure."

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Introduction	Material Topics	C
	material ropies	<u> </u>

Introduction	Material To	opics	Company Overview	Corporate Governance	Sustainable	e Environment	Social Prosperity	Appendix	) =	, (A
Concern	S	Goal and Practice				Me	Channel			
Providing a safe ar environment	id healthy	prevent	ent workplace safety a ion measures, providir , and hygienic work en	ng employees with a s		health cheo	ing safety and health wor k-ups, and organizing va f the physical and mental	n activities, we	Welfare Committee	
Prohibition of child labour       Strictly prohibits the employment of any child labourers under the age of 18.				Jrers	to the requ are eligible	nce with national regulation irement that only candida to apply for any position orough checks to ensure	The official website "Irregular Business Conduct Reporting", providing outsiders to report or appeal			
Prohibition of Forc	ed Labour	principle local lab	principles of free choice of employment. Also complies with local labour laws and international standards to eliminate				Comply with local government labour laws and regulations. Overtime work is carried out on a voluntary basis, and no form of forced overtime is allowed. In accordance with the law, we provide compensatory time off or overtime pay for employees who work overtime due to job requirements.			The official website "Irregular Business Conduct Reporting", providing outsiders to report or appeal
Prevention from unla discrimination	iwful	place of age, ma mental o membe discrimi employo	less of race, class, lang f origin, place of birth, arriage, appearance, fa disabilities, constellati ership for differential tr ination. In order to ens rees in the workplace, a ace environment.	gender, sexual orienta cial features, physical a on, blood type or unic reatment or any form o sure the human rights	and on of of		Procedures of Human Rigl he human rights of our e ion.			The official website "Irregular Business Conduct Reporting", providing outsiders to report or appeal
mprovem-ent of p and mental health employees	-		ng legitimate diversity e balance	activities to improve e	mployee	<ul> <li>The Welfare Committee organises recreational activities for all employees at least once a year, aiming to enhance their sense of belonging and morale through interactive team-building games. Additionally, monthly care activities are conducted for new colleagues, where department managers are invited to participate, fostering a supportive and engaging work environment.</li> </ul>			Welfare Committee, CEO Box, Brother Box	
Harassment-free V	<i>l</i> orkplace	Ensure a all empl	a working environmen loyees	t free of sexual harass	ment for	it through of employees of workplace information addresses,	tablished a "Sexual Haras communication and publi are aware of their respon ce sexual harassment duri n about reporting channe to create a friendly work e rts those who come forwa	ic announcements to e sibility to help preven ing their job duties. W Is, such as hotlines an environment that enco	ensure that t any occurrence e also provide d email	CEO Box, Brother Box

Appendix

The Responsible Business Alliance (RBA) is the world's largest corporate social responsibility alliance in the global industrial supply chain. Apex adheres to the highest standards of social, environmental, and ethical requirements, following the relevant guidelines from suppliers to internal factories. We take action to demonstrate our commitment to the physical and mental well-being of our employees and hold ourselves accountable to consumers through responsible product production and employee treatment.

In the year 2022, Apex accumulated a total of 1,074 person-hours in internal RBA-related training courses.

			Apex 1		APEX 2		APEX 3	
Course	Hours	People	Female	Male	Female	Male	Female	Male
Responsible Business								
Alliance &TLS Awareness	6	18	3	1	10	4		
&Requirement (TLS 2020)								
RBA:2021&TLS:2020	6	5	2		2	1		
Awareneess&Requirement	0	0	2		2	1		
Internal Audit RBA	6	36	21	13	2			
Internal Audit RBA	6	44	19	24	1			
Internal Audit RBA	6	36	1		22	6		7
Internal Audit RBA	6	40	1		23	8		8



### 6.2 Workplace Health and Safety

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### Management Policies for Material Topics: Hazard of occupational safety and health

Impact	The significant thematic category related to occupational health
Assessment	and safety hazards falls under occupational safety and health.
	The associated hazards may impact:
	(1) Operational disruptions
	(2) Impaired recruitment capabilities
	(3) Impaired financing capabilities
	(4) Fines/suspensions/plant closures
	(5) Contradiction to corporate culture.
Policies and	(1) Regular certification audits for ISO 14001 and ISO 45001.
Commitments	(2) Periodic inspections by the ISO 45001 Committee and Safety
	and Occupational Committee to ensure compliance with safety
	regulations in the work environment.
	(3) Control measures for the entry and exit of personnel in the
	factory premises.
	(4) Regular disaster and emergency response procedure drills.
Governance	Safety & Occupational Committee, ISO 45001 Committee
Structure	and Administrative Department
Management	Short-term: we have good historical record in occupational-
Actions	safety aspect and will keep control it by following present
	management procedures.
	Mid-term: maintain certificated control quality of ISO 14001 and
	ISO 45001; keep interacting and studying from external experts
	and governments.
KPI	Occurrence Rate of Accidents, Recruitment Rate
Evaluation	ISO 14001 and ISO 45001
Mechanisms	Statistics on the Number of Occupational Injuries and
	Occupational Injury Rates
Engagement	Achievements in 2022:
Outcomes and	ISO 45001 Certification
Effectiveness with	ISO 14001 Certification
Stakeholders	No significant occupational accidents occurred.

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Apex has formed an ISO 45001 committee as well as a Safety and Occupational Committee to inspect the workplace for compliance with safety regulations on a regular basis. Following the ISO 45001 standard, the committees identify and classify hazards based on severity, frequency, and scope. Apex provides work guidelines to employees and conducts ongoing daily awareness campaigns for high-risk processes and operations to reduce the likelihood of occupational accidents. Apex has also established an emergency response centre to standardise emergency procedures and holds quarterly disaster drills on the factory grounds to strengthen rescue personnel training.

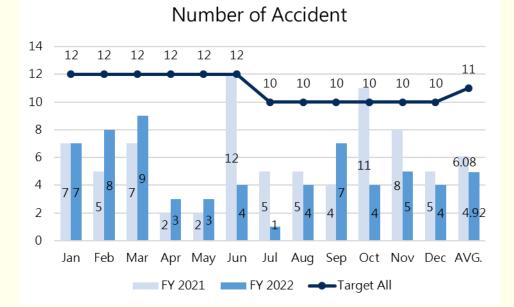
The company provides regular health check-ups to all employees in order to raise health awareness and improve physical and mental well-being. Chemical splashes, cutting injuries caused by edges or operating tools, and crush and pinch injuries are the most common types of work-related accidents in our company. According to our company's criteria, none of the incidents that occurred this year resulted in serious injuries.

Access to the factory grounds is strictly controlled by both company employees and visitors. Employees must swipe their access cards to gain entry, whereas visitors must register at the security office or report to HR through the interviewed department. Incoming and outgoing personnel are subject to stringent screening. This year, there were no records of work-related injuries, accidents, or deaths among our suppliers at our company.

In addition to controlling high-risk operations, managing contractors' access and ensuring construction safety, and implementing chemical safety management and safety auditing systems, we also have proper plans for damage prevention, disaster emergency response procedures, and regular drills. Our goal is to minimise damage and impact on company property, personnel, society, and the environment in the event of a disaster.

The Safety and Occupational Committee holds regular meetings to discuss environmental protection, safety, and health-related matters. They also analyse statistics on occupational accidents and prioritise units and types of accidents with higher occurrence rates or severity, as well as those that span multiple units or have a recurring nature, for educational training and management focus. These efforts aim to establish a safety culture and provide a safe and comfortable working environment.

### **Occupational Injury**



#### Number of Accident

Statistical Indicators	Gender	FY2021	FY2022	Unit
	Male	41	37	case
Working Injury <sup>7</sup>	Female	32	22	case
	Total	73	59	case
Occupational Hazard <sup>8</sup>	Male	0	0	case
	Female	0	0	case
Total Working Injury Leave <sup>9</sup>	Male	451	450	day
Total working injury Leave	Female	295	188	day
Total Absence Days <sup>10</sup>	Male	42,029	42,930	day
, ,	Female	52,929	54,065	day
Total Working Hours <sup>11</sup>	Male	7,488,338.0	7,317,353.5	hour

<sup>10</sup> Total Absence Days: Total Absence Days is the sum of sick leave, working injury leave, and personal leave, excluding annual leave, official leave, marriage leave, funeral leave, maternity leave and paternity leave.

<sup>11</sup> Total Working Hours: Sum of working hours in each year. For daily workers is the total working hours per month,

<sup>&</sup>lt;sup>7</sup> Working Injury: All injuries caused by working are included in the calculation, including traffic accidents.

<sup>&</sup>lt;sup>8</sup> Occupational hazard: Diseases resulting from work.

<sup>&</sup>lt;sup>9</sup> Total Working Injury leave: The number of days employees applies for sick leave due to work-related injuries.

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Statistical Indicators	Gender	FY2021	FY2022	Unit
	Female	9,496,770.5	9,707,517.0	hour
	Male	936,764	921,239	man
Total Working Man Days <sup>12</sup>		950,704	921,239	day
Total working Man Days	Female	1 107 400	1 216 656	man
		1,187,486	1,216,656	day
Death Tall	Male	0	0	person
Death Toll	Female	0	0	person

Statistical Indicators	Gender	200,000 hours <sup>13</sup>			
	Gender	FY2021	FY2022		
Joinne Pata <sup>14</sup>	Male	1.10	1.01		
Injury Rate <sup>14</sup>	Female	0.67	0.45		
Occupational Disease Rate <sup>15</sup>	Male	-	-		
	Female	-	-		
Lost Day Rate <sup>16</sup>	Male	96.36	98.40		
LOST Day Rate	Female	49.70	30.99		
Absentee Rate <sup>17</sup>	Male	4.49%	4.69%		
	Female	4.46%	4.46%		

Resource: Data Source: Apex Administration Department

Note: Revision of total absence days, total working hours, and total working man days for the years 2021 and 2022 to include the attendance records of former employees during their employment tenure.

Social Prosperity

### 6.3 Social Participation

We embrace Eastern values at Apex, which emphasise emotional connections with others and a sense of gratitude. Apex seeks to pursue this Eastern virtue, which represents our soft power. Because our culture is based on putting people first, Apex is committed to making every effort in social activities. Apart from improving our employees' well-being and engagement internally, Apex actively contributes to society in areas such as education, healthcare, charity, and social welfare. Our presence is noticeable in these areas.

Apex has continuously invested resources in providing masks, vaccines, and daily necessities, as well as establishing sandbox programmes to prioritise the health and wellbeing of our employees and their families, since the outbreak of the COVID-19 pandemic. In the year 2022, as the pandemic situation improves, we will allocate more resources to the surrounding communities, assisting local hospitals in setting up quarantine stations and providing vaccines to protect nearby residents.

By combining proactive efforts in employee care and social participation, we aim to contribute to the United Nations Sustainable Development Goals (SDGs) 7 "Affordable and Clean Energy" and SDGs 11 "Sustainable Cities and Communities". Apex completed a solar energy community project in our employees' hometown in northern Thailand in 2022. We worked with residents to install solar panels and repair water facilities, allowing clean energy-powered water supply systems to operate. Simultaneously, we collaborated with schools to educate students on the operation of solar energy systems, promoted the avoidance of burning rice straw and agricultural waste to reduce carbon dioxide emissions, and committed to providing local residents with a rice straw bundling machine. This assistance is intended to assist residents in managing rice straw waste, thereby minimising negative environmental impacts.

Apex has an extensive record of corporate sustainability and strives to make a positive social impact through concrete actions. We aspire to make positive ripples in the vast ocean of society.

<sup>17</sup> Absentee Rate: total absence days \* 8 hours / total working hours

for monthly workers is the total working days\*8hrs\* the number of monthly workers in-service.

<sup>&</sup>lt;sup>12</sup> Total Working Man Days: total working hours/ 11 hours

<sup>&</sup>lt;sup>13</sup> The coefficient of 200,000 is calculated from each 100 employees works 50 weeks a year and 40 hours a week.

<sup>&</sup>lt;sup>14</sup> Injury Rate: Total work injury (cases) / total working hours \*200,000 hours

<sup>&</sup>lt;sup>15</sup> Occupational Disease Rate: total number of occupational diseases (cases) / total working hours \*200,000 hours

<sup>&</sup>lt;sup>16</sup> Lost Day Rate: Working Injury leave days \* 8 hours / total working hours \*200,000 hours

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Program Resource Remark Scholarship Program 40,000 To support the National Children's Day activities, provide scholarships and living resources to support student education. ₿ **Employees' Children** The company provides scholarships to employees' children. In the year 2022, a total of 105 scholarship positions were offered, with each scholarship IR 315,000 Scholarship amounting to 3,000 Thai Baht. By allocating economic resources, we aim to address the issue of teacher recruitment and promote educational development. Temporary Teacher Hiring ₿ 180,000 Program Sponsoring the construction of greenhouses to facilitate school cultivation and trade of crops, using the income generated as a sustainable solution to Support to Solve Student 10,000 ₿ Lunch Problems address the issue of student lunch budgets.. Covid-19 Donating 1300 doses of vaccines to community hospitals for public use and assisting in the establishment of Covid-19 testing stations is a commendable 908,700 **I**R initiative. Responding to the service mission of "donating one bag of blood to save one life," to help address the issue of blood shortages in society. Blood Donation 17 people participated **Red Cross Donation** 5,000 By making donations through the Red Cross, to help the family who is in need. The majority of Thai people adhere to Buddhism, and Apex actively supports the Buddhist faith, working together to promote positive social energy. Support Local Religion IR 72,000 Coastal Areas: Assisting in the restoration of mangrove ecosystems. Tree Planting Program ₿ 117,923 Company Surroundings: Actively planting 320 trees and collaborating with other businesses and schools to increase green spaces In industrial areas. **Charity Event Sponsorship** ₿ 20,000 Collaborating with social security institutions and labour organisations to sponsor activities aimed at enhancing the welfare of relevant groups. Disaster-affected Providing financial assistance and essential supplies to families affected by fires and floods. 3,000 IR Household Support Installing a solar power module with a capacity of approximately 5kW to provide electricity for water pumping equipment, reducing residents' electricity Solar Energy Public Welfare Construction costs by 30%. Repairing water facilities to extend their lifespan. 538,576 A total of 121 households signed an MOU, committing to avoid burning straw and agricultural waste, and supporting the use of renewable energy, covering approximately 1.88 million square meters of farmland. Introducing solar energy systems to local vocational school students and promoting sustainable education practices. In 2022, Apex invested about NT\$1,879,332 in social participation.

Note: The average exchange rate of Thai Baht to the New Taiwan Dollar in 2022 is 0.8503



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# 7. Appendix

## 7.1 GRI Standards Table

Statement of use	Apex International Co., Ltd. has reported the information cited in this GRI content index for the period from 1 January 2022 to 31
	December 2022 with reference to the GRI Standards. •
GRI 1 used	GRI 1 : Foundation 2021
Applicable GRI Sector Standard	N/A

GRI Standard		Disclosure Item	Chapter	Page Number
General Disclosure				
GRI 2 :	2-1	Organizational detail	1.1 About This Report	2
General Disclosure 2021	2-2	Entities included in the organisation's sustainability reporting	1.1 About This Report	2
	2-3	Reporting period, frequency and contact point	1.1 About This Report	2-3
	2-4	Restatements of information	5.1 Management of Water Resources and Wastes	36
			6.2 Workplace Health and Safety	49
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	2-6	Activities, value chain and other business relationships	4.4 Industry Supply Chain	29-31
	2-7	Employees	6.1 Happy Workplace	23-25
	2-8	Workers who are not employees	6.1 Happy Workplace	44-45
	2-9	Governance structure and composition	4.1 Corporate Governance Structure	19
	2-10	Nomination and selection of the highest governance body	4.1 Corporate Governance Structure	19
	2-11	Chair of the highest governance body	4.1 Corporate Governance Structure	19
	2-12	Role of the highest governance body in overseeing the management of impacts	4.1 Corporate Governance Structure	20-21
	2-13	Delegation of responsibility for managing impacts	1.3 Promoting and Managing Sustainability	4
	2-14	Role of the highest governance body in sustainability reporting	1.3 Promoting and Managing Sustainability	4
	2-15	Conflicts of interest	4.5 Ethics and Integrity	32-33
	2-16	Communication of critical concerns	2.5 Stakeholder Communication	15-16
	2-17	The collective knowledge of the highest governance body	4.1 Corporate Governance Structure	19-20
	2-18	Evaluation of the performance of the highest governance body	4.1 Corporate Governance Structure	21-22

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	2-20	Process to determine remuneration	2.5 Stakeholder Communication 4.1 Corporate Governance Structure	15-16 23-24
	2-21	Annual total compensation ratio	6.1 Happy Workplace	46
	2-22	Statement on sustainable development strategy	1.2 Letter from The Sustainable Development Committee Chairperson	3-4
	2-23	Policy commitments	6.1 Happy Workplace	48
	2-24	Embedding policy commitments	4.5 Ethics and Integrity 6.1 Happy Workplace	32-33 48
	2-25	Processes to remediate negative impacts	4.5 Ethics and Integrity	32-33
	2-26	Mechanisms for seeking advice and raising concerns	<ul><li>2.5 Stakeholder Communication</li><li>4.5 Ethics and Integrity</li></ul>	15-16 32-33
	2-27	Compliance with laws and regulations	4.5 Ethics and Integrity	32-33
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	2-29	Approach to stakeholder engagement	2.5 Stakeholder Communication	15-16
	2-30	Collective bargaining agreements	6.1 Happy Workplace	47
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GRI 3 : Material Topics 2021	3-3	Management of material topics	4 Corporate Governance	18
Material Topics: Capital manage	ement			
GRI 3 : Material Topics 2021	3-3	Management of material topics	4-2 Financial Performance	25

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GRI 201 : Economic Performance 2016		201-1 Di	irect economic value gei	nerated and distrik	outed	<ul> <li>3-1 About Apex</li> <li>3-2 Operating Location</li> <li>4-2 Financial Performance</li> <li>4-3 Products and Services</li> <li>4-4 Industry Supply Chain</li> </ul>	17 17 25-26 27-28 30-31
			nancial implications and ot mate change	her risks and opport	unities due to	2-6 Risks and Opportunities Arising from Climate Change	16
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			impacts	directly linked by business relations	ships			
		403-9	Work-rel	ated injuries		6-2 Workplace Health an	nd Safety	50-51
		403-10	Work-rel	ated ill health		6-2 Workplace Health an	nd Safety	50-51
Training and Edu	ication							
GRI 404 : Trainin	ig and	404-1	Average	hours of training per year per emp	loyee	6-1 Happy Workplace		46,49
Education 2016	_	404-2	0	s for upgrading employee ski e programs	lls and transition	6-1 Happy Workplace		46,49
Diversity and Equ	ual Opportur	nity				•		
GRI 405 : Diversi	ity and	405-1	Diversity	of governance bodies and employ	ees	4-1 Corporate Governan	ce Structure	19-20
Equal Opportuni	2					6-1 Happy Workplace		44-45
		405-2	Ratio of	basic salary and remuneration of w	omen to men	6-1 Happy Workplace		46
Non-discriminat	ion							
GRI 406 : Non-		406-1	Incidents	s of discrimination and corrective a	ctions taken	4-5 Ethics and Integrity		32-33
discrimination	2016					6-1 Happy Workplace		47-48
Child labour						I		
GRI 408 : Child L	abour	408-1	Operatio	ons and suppliers at significant ri	sk for incidents of	4-5 Ethics and Integrity		32-33
2016			child lab	our		6-1 Happy Workplace		48
Forced or compu	ulsory labour					<u> </u>		
GRI 409 : Forced	lor	409-1	Operatio	ons and suppliers at significant ri	sk for incidents of	4-5 Ethics and Integrity		32-33
compulsory labo	our 2016		forced o	r compulsory labour		6-1 Happy Workplace		48
Security practice								
GRI 410 : Securit		410-1	Security	personnel trained in human	rights policies or	4-5 Ethics and Integrity		32-33
2016			procedu			6-1 Happy Workplace		48

Introduction	Material Topics	s Comp	oany Overview	Corporate Governance	Sustainable Environment	Social Prosperit	y Appendix			
GRI Standa	lard			Disclosure I	Item		Ch	apter	Page	
Local communitie	es									
GRI 413 : Local		413-1	Operatic	ons with local co	community engager	ment, impact	6-3 Society Participation		51-52	
communities 2016	.6		assessme	ents, and developme	ient programs					
Supplier social ass	sessment									
GRI 414 : Supplier	er Social	414-1	New sup	pliers that were scre	reened using social cr	riteria	4-6 Supplier Managemer	nt Policy	33	
Assessment 201	L6									
Material Topics: Pr	roduct quali	ty manage	ement							
GRI 3 : Material To	opics	3-3	Manager	ment of material top	pics		4-3 Products and Service	es	21	
2021										
Customer Health a	and Safety									
GRI 416 : Custom	her Health	416-2	Incidents	s of non-compliance	ce concerning the hea	alth and safety	4-3 Products and Service	ès	21-23	
and Safety 2016	5		impacts (	of products and serv	vices		4-5 Ethics and Integrity		26-27	
Marketing and lab	beling									
GRI 417 : Marketi	ing and	417-1	Requiren	nents for product ar	nd service informatio	on and labeling	4-3 Products and Service	25	21-23	
labeling 2016	-						4-5 Ethics and Integrity		32-33	_
		417-2		-	ce concerning produ	ct and service	4-3 Products and Service	5	21-23	
			informati	tion and labeling			4-5 Ethics and Integrity		32-33	_
Customer privacy										4
GRI 418 : Custom	ier privacy	418-1			concerning breaches	s of customer	4-5 Ethics and Integrity		32-33	
2016			privacy a	and losses of custom	ner data					

Appendix



# 7.2 Sustainability Disclosure Indicators- Electronics Components Manufacturing

No	. Indicators	Types of Indicators		An	nual Disclosure Statu	JS		Units	
1.	Total energy consumption, percentage of purchased electricity from external sources, and renewable energy utilization rate.		of energy usage, and rer	he total energy consumption in 2022 is 1,026,612.73GJ, of which purchased electricity accounts for 99.48% f energy usage, and renewable energy accounts for 0.52% ° lease refer to 5.2 Energy Efficiency and Policy					
2.	Total water withdrawal and total water consumption.		2022, Apex's water intak and water discharge will meters, water consumpt cubic meters.	ccording to relevant calculations of wastewater treatment in Thailand, it is 80% of the water intake. In D22, Apex's water intake will be 3,477,000 cubic meters, water consumption will be 696,000 cubic meters, nd water discharge will be 2,781,000 cubic meters. In fiscal 2021, water intake will be 3,560 thousand cubic meters, water consumption will be 570 thousand cubic meters, and water discharge will be 2,990 thousand ubic meters. In fiscal sectors, and water discharge will be 2,990 thousand ubic meters.					
3.	Weight and percentage of hazardous waste generated and recycled.		Please refer to 5.1 Mana	gement of Water F	Resources and Wastes	<u>S.</u>		Т %	
4.	Description of occupational accident categories, number of cases, and rates.	Quantification	Please refer to 6.2 Workp	place Health and S	afety			% Number	
5.	Disclosure of product lifecycle management: Including the weight of scrapped products and electronic waste, as well as the percentage of recycling. (Note)	Quantification	Our business model is B2B, so a product-waste recycling policy is not necessary. For details, please refer to <u>5.1 Management of Water Resources and Wastes</u> .					T %	
6.	Description of Risk Management Related to the Use of Key Materials	Qualitative description	The risk of supplier concentration and countermeasures Apex's main products are double-sided and multi-layer PCBs, with copper-clad laminates, prepreg, and copper foil as the primary materials used. Apex has had positive relationships with its main material suppliers for many years. Apex, on the other hand, maintains at least two suppliers for each main material to ensure a consistent supply. There has never been a material shortage or a supply interruption.						
7.	The total amount of monetary losses incurred due to legal disputes related to the Anti- Monopoly Act.		No this situation					Report Currency	
8.	Production volume by product category.	Quantification	Si Bo Do	roducts ingle Sided oard ouble Side oard	FY 2021 1,175,702 3,422,521	FY 2022 755,837 2,890,919		m²	
			Μ	Iulti-layer Board otal	4,071,156 8,669,379	3,471,394 7,118,150			

Note: Including the sale of leftovers or other recycling, relevant instructions should be provided.

Material Topics Company Overview

Corporate Governance Sustainable Environment Social Prosperity

Appendix

Accounting	g Metric	
TC-HW- 230a.1	Description of approach to identifying and addressing data security risks in products	Apex produces PCB as our products, PCB is one of the components of electronic products therefore there is no yet risk related to information of evaluation of the design of electronic products, pattern of use and production process of PCB. For information security management-related, please refer to 4.3 Promoting and Managing Sustainability.
TC-HW- 330a.1	Percentage of gender and racial/ethnic group representation for (1) management, (2) technical staff, and (3) all other employees	For details, please refer to 6.1 Happy Workplace.
TC-HW- 410a.1	Percentage of products by revenue that contain IEC 62474 declarable substances	At present, customers take RoHS as a management standard for controlled and prohibited materials. The percentage of revenues which meet this standard was 100%.
TC-HW- 410a.2	Percentage of eligible products, by revenue, meeting the requirements for EPEAT registration or equivalent	Our product does not fit the specifications of EPEAT.
TC-HW- 410a.3	Percentage of eligible products, by revenue, meeting ENERGY STAR® criteria.	Our product does not fit the specifications of ENERGY STAR® criteria.
TC-HW- 410a.4	Weight of end-of-life products and e-waste recovered, percentage recycled	Our business model is B2B, so a product-waste recycling policy is not necessary. For the disposal of other wastes, please refer to 5.1 Management of Water Resources and Wastes.
TC-HW- 430a.1	Percentage of Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent by (a) all facilities and (b) high-risk facilities	We have a plan for the sustainable audit of suppliers to upgrade our social responsibility shortly.
TC-HW- 430a.2	Tier 1 Suppliers (1) Percentage of Non-Compliance with RBA VAP (or similar audit) (2) Percentage of Corrective Actions by (a) non-compliance for priority level (b) non-compliance for other levels	We have a plan for a sustainable audit of suppliers to upgrade our social responsibility shortly.
TC-HW- 440a.1	Description of approach to identifying and addressing data security risks in products	We have policies and procedures for the management of conflict minerals and hazardous materials to eliminate relative hazardous risks from purchase sources. At present, we use questionnaires to suppliers for confirmation.
Activity Me	etric	•
TC-HW- 000.A	Number of units produced by product category	For details, please refer to <u>Number 8 of Sustainability Disclosure Indicators- Electronics</u> Components Manufacturing.
TC-HW- 000.B	Area of manufacturing facilities	Facilities of APT in Samutsakhon industrial zone are around 35 thousand sqm, and in Sinsakhon industrial zone is around 105 thousand sqm. The facility of APS, single-side PCB, is around 8.5 thousand sqm.
TC-HW- 000.C	Percentage of production from owned facilities	We produce PCB by all processes from owned facilities, there is no outsourced capacity. Self-own productivity is 100%.

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Material Topics Company Overview

Corporate Governance Sustainable Environment

Appendix



國富浩華聯合會計師爭務所 Crowe (TW) CPAs 10541 台北市松山區復興北路 369 號 10 櫻 10F, No. 369, Fusing N. Rd, Songshan Dist, Taipei City 10541, Taiwan Tel +886 2 87705181 Fax +886 2 87705191 www.crowe.tw

#### INDEPENDENT AUDITORS' LIMITED ASSURANCE REPORT

To Apex International Co., Ltd.

We have been engaged by Apex International Co., Ltd. ("the Company") to perform assurance procedures on the sustainability performance information identified by the Company (see Appendix 1) and reported in the 2022 Apex International ESG Report ("the Report"), and have issued a limited assurance report based on the result of our work performed.

#### Management's Responsibilities

Management is responsible for the preparation of the sustainability performance information disclosed in the ESG report in accordance with Taiwan Stock Exchange Corporation Rules Governing the Preparation and Filing of Sustainability Reports by TWSE Listed Companies and the GRI Standards published by the Global Reporting Initiative (GRI), and for such internal control as management determines is necessary to enable the preparation of the sustainability performance information that is free from material misstatement, whether due to fraud or error.

#### **Our Responsibilities**

We planned and conducted our work on the sustainability performance information in the Report in accordance with the International Standard on Assurance Engagement 3000 Assurance Engagements Other Than Audits or Reviews of Historical Financial Information, issued by the International Auditing and Assurance Standards Board to issue a limited assurance report on the preparation, with no material misstatement in all material respects, of the Report. The nature, timing and extent of procedures performed in a limited assurance engagement are different from and more limited than a reasonable assurance engagement and, therefore, a lower assurance level is obtained than a reasonable assurance.

#### Limited Assurance Procedures

We applied professional judgment in the planning and conduct of our work to obtain evidence supporting the limited assurance. Because of the inherent limitations of any internal control, there is an unavoidable risk that even some material misstatements may remain undetected. The procedures we performed include, but not limited to:

- Obtaining and reading the Report in 2022;
- Inquiring management and personnel involved in the preparation of the Report to understand the
  policies and procedures for the preparation of the Report;
- Analyzing and examining, on a test basis, the documents and records supporting the sustainability performance information.

#### Independence and Quality Controls

Social Prosperity

We have complied with the independence and other ethical requirements of the Norm of Professional Ethics for Certified Public Accountant in the Republic of China, which contains integrity, objectivity, professorial competence and due care, confidentiality and professional behavior as the fundamental principles. In addition, the firm applies Statement of Quality Management Standard 1 "Quality Management for Public Accounting Firms" issued by the Accounting Research and Development Foundation of the Republic of China, and accordingly requires the firm to design, implement and operate a system of quality management, including policies or procedures regarding compliance with ethical requirements: professional standards, and applicable legal and regulatory requirements.

#### Inherent Limitations

The subject intonation included non-financial information, which was under more inherent limitations than financial information. The information may involve significant judgment, assumption and interpretations by the management, and the different stakeholders may have different interpretations of such information.

#### Conclusion

Based on the procedures performed and evidence obtained, nothing has come to our attention that causes us to believe that the sustainability performance information in the Report in 2022 is in all material respects, not prepared in accordance with the above mentioned reporting criteria.

#### Other Matters

The maintenance of the Company's website is the responsibility of the management. We shall not be responsible for conducting any further assurance work for any change of the sustainability performance information or the criteria applied after the issuance date of this report.

Crowe (TW) CPAs Taipei, Taiwan Republic of China

June 30, 2023

APE)

Appendix

APPENDIX 1

#### SUMMARY OF SUSTAINABILITY PERFORMANCE INFORMATION

#	Sustainability Performance	Description of	Corresponding	Applicable Criteria
	Information	Indicators	Section	
1	Taiwan Stock Exchange	Total energy	5.2 Energy	Total energy consumption,
	Corporation Rules	consumption,	Efficiency	percentage of purchased
	Governing the Preparation	percentage of		electricity in relation to
	and Filing of Sustainability	purchased electricity,		total energy consumption,
	Reports by TWSE Listed	and renewable energy		and percentage of
	Companies Item 1 of	utilization rate		renewable energy in
	Section 12 in Appendix 1			relation to total energy
	of Article 4			consumption in 2022
2	Taiwan Stock Exchange	Total water withdrawal	5.1	Total water withdrawal
	Corporation Rules	and total water	Management	and total water
	Governing the Preparation	consumption	of Water	consumption in 2022
	and Filing of Sustainability		Resources and	
	Reports by TWSE Listed		Wastes	
	Companies Item 2 of			
	Section 12 in Appendix 1			
	of Article 4			
3	Taiwan Stock Exchange	Total weight of	5.1	The weight of hazardous
	Corporation Rules	hazardous waste	Management	waste generated and the
	Governing the Preparation	generated and the	of Water	percentage of recycling in
	and Filing of Sustainability	percentage of recycling	Resources and	2022
	Reports by TWSE Listed		Wastes	
	Companies Item 3 of			
	Section 12 in Appendix 1			
	of Article 4			
4	Taiwan Stock Exchange	Description of	6.2 Workplace	The categories, number of
	Corporation Rules	occupational accident	Health and	people, and rates of
	Governing the Preparation	categories, number of	Safety	occupational accidents in
	and Filing of Sustainability	people, and rates		2022
	Reports by TWSE Listed			
	Companies Item 4 of			
	Section 12 in Appendix 1			
	of Article 4			

#	Sustainability Performance	Description of	Corresponding	Applicable Criteria
	Information	Indicators	Section	
5	Taiwan Stock Exchange	Disclosure of product	5.1	The Company operates
	Corporation Rules	lifecycle management:	Management	under a B2B model and
	Governing the Preparation	weight of discarded	of Water	does not have any relevant
	and Filing of Sustainability	products and electronic	Resources and	product waste recycling
	Reports by TWSE Listed	waste, and percentage	Wastes	procedures in place.
	Companies Item 5 of	of recycling		
	Section 12 in Appendix 1			
	of Article 4			
6	GRI 305-1:2016	Direct (Scope 1) GHG	5.3 Mitigating	The total greenhouse gas
		emissions	Global	emissions for Scope 1
			Warming	(gasoline, diesel, liquefied
				petroleum gas, and
				refrigerants)
7	GRI 305-2:2016	Energy indirect (Scope	5.3 Mitigating	The total greenhouse gas
		2) GHG emissions	Global	emissions for Scope 2
			Warming	(purchased electricity)
8	GRI 305-3:2016	Other indirect (Scope 3)	5.3 Mitigating	The greenhouse gas
		GHG emissions	Global	emissions for Scope 3
			Warming	(other indirect emissions)
9	GRI 305-4:2016	GHG emissions intensity	5.3 Mitigating	Emission Intensity = (Scope
		82	Global	1 emissions + Scope 2
			Warming	emissions) in tons of CO2e
				/ revenue in million New
				Taiwan Dollars

APEX