

Appendix 1: Financial Supervisory Commission (Taiwan, ROC)'s Request for Sustainability Disclosure for Certain Industries (Sector: Computer and Peripheral Equipment Industry) and SASB (Sector: Hardware)

Aspect	Code	Accounting Metric	Category	Unit of Measure	Disclosure chapter	page number
Environmental	Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 1	Total energy consumption, percentage of purchased electricity, and utilization rate of renewable energy	Quantitative	Gigajoule (GJ), percentage (%)	Chapter 4 GHG Inventory and Energy Resource Management	130
Environmental	Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 2	Total water intake and consumption	Quantitative	Thousand cubic meters (m³)	Chapter 4 GHG Inventory and Energy Resource Management	139-140
Environmental	Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 3	Weight of hazardous waste generated and percentage recycled	Quantitative	Metric ton (t), percentage (%)	Chapter 4 GHG Inventory and Energy Resource Management	140, 142
Environmental	TC-HW-410a.4 Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 5	Weight of end-of-life products and e-waste recovered, percentage recycled	Quantitative	Metric ton (t), percentage (%)	Chapter 4 Eco Design and Sustainability Liability of Product	111
Environmental	TC-HW-410a.1	Product Lifecycle Management Percentage of products by revenue that contain IEC 62474 declarable substances.	Quantitative	Percentage (%)	Chapter 4 Eco Design and Sustainability Liability of Product	109
Environmental	TC-HW-410a.2	Product Lifecycle Management Percentage of eligible products, by revenue, meeting the requirements for EPEAT registration or equivalent	Quantitative	Percentage (%)	Chapter 4 Eco Design and Sustainability Liability of Product	112
Environmental	TC-HW-410a.3	Product Lifecycle Management Percentage of eligible products, by revenue, meeting ENERGY STAR® criteria	Quantitative	Percentage (%)	Chapter 4 Eco Design and Sustainability Liability of Product	112
Social	Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 4	Describe the type of occupational disaster, the number of people involved, and the rate	Quantitative	Rate (%), quantity	Chapter 5 Occupational Health and Safety	195-196
Social	C-HW-330a.1	Percentage of gender and racial/ethnic group representation for (1) management, (2) technical staff, and (3) all other employees	Quantitative	Percentage (%)	Chapter 5 Diversity, Equality and Inclusive Workplace	177-180, 253-255

Aspect	Code	Accounting Metric	Category	Unit of Measure	Disclosure chapter	page number
Governance	TC-HW-440a.1 Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 6	Description of the management of risks associated with the use of critical materials	Discussion and Analysis	Not applicable	Chapter 2 Conflict Minerals Procurement Strategy	62
Governance	Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 7	Total amount of pecuniary losses as a result of legal proceedings related to the anti-competitive behavior-related laws	Quantitative	Currency	Chapter 2 Integrity Management: Compliance with Laws, Anti-Corruption, and Anti-Competitive	37
Governance	TC-HW-000.A Financial Supervisory Commission (Taiwan, ROC)'s Request for Specific Industries to Disclose Sustainability Indicator No. 7	Number of units produced by product category	Quantitative	Number	Chapter 2 Economic Performance and Brand Value	30
Governance	TC-HW-230a.1	Product security Description of approach to identifying and addressing data security risks in products	Qualitative	Not applicable	Chapter 2 Information and Cyber Security Management	46
Governance	TC-HW-430a.1	Supply Chain Management 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 Tier 1 suppliers' (1) non-conformance rate with the RBA Validated Audit Process (VAP) or equivalent, and (2) associated corrective action rate for (a) priority non-conformances and (b) other non- conformances	Quantitative	Percentage (%)	Chapter 2 Sustainable Management of the Supply Chain	58
Governance	TC-HW-430a.2	Supply Chain Management Tier 1 suppliers' (1) non-conformance rate with the RBA Validated Audit Process (VAP) or equivalent, and (2) associated corrective action rate for (a) priority non-conformances and (b) other non- conformances	Quantitative	Rate	Chapter 2 Sustainable Management of the Supply Chain	58

Aspect	Code	Accounting Metric	Category	Unit of Measure	Disclosure chapter	page number
Activity Metric	TC-HW-000.B	Area of manufacturing facilities	Quantitative	Square feet (ft²)	Chapter 2 Economic Performance and Brand Value	30
Activity Metric	TC-HW-000.C	Percentage of production from owned facilities	Quantitative	Percentage (%)	Chapter 2 Economic Performance and Brand Value	30

Appendix 2: GRI and Assurance Indicators Index

Statement of use	Advantech Co., Ltd. has reported its sustainability report with reference to the GRI standards and reported the information quoted in the GRI content index for the period from January 1, 2023 to December 31, 2023.
GRI used	GRI Standards 2021 reference option

Organization and practice reports			
GRI standards code	Disclosure item	Disclosure chapter	Page number
2-1	Organization details	2.1.1 Company Profile	28
2-2	Entities included in the organization's sustainability reporting	Regarding Advantech's 2023 sustainability report	2
2-3	Reporting period, frequency, and contact point	Regarding Advantech's 2023 sustainability report	2
2-5	External assurance	Appendix: Third Party Verification Statement Appendix: Third Party Assurance Report	256-259



Events and workers			
GRI standards code	Disclosure item	Disclosure chapter	Page number
2-6	Events, value chains, and other business relationships	2.1.1. Company Profile	28
		2.3.1 Overview of Advantech's Industrial Value Chain	30
2-7	Employee	5.1.1 Talent Attraction and Retention	149-157
		5.1.2 Employee Development Plan	157-163
		5.2.1 Employee Relations	164-171
		5.2.2 Employee Living Wage	172-173
		5.3 Diversity, Equality and Inclusive Workplace	174-183
		5.4 Human Rights Protection	184-191
		5.5 Occupational Health and Safety (OHS)	192-200
		Appendix 8: Employee Structure	253-255
Governance			
GRI standards code	Disclosure item	Disclosure chapter	Page number
2-9	Governance structure and composition	2.1.2. Corporate Governance	32
2-10	Nomination and selection of the highest governance body	2.1.2. Corporate Governance	32
2-11	Chair of the highest governance body	2.1.2. Corporate Governance	32
2-12	Role of the highest governance body in overseeing impact management	2.1.2. Corporate Governance	32
2-14	Role of the highest governance body in sustainability reporting	1.1.1 ESG Governance Structure	8
2-15	Conflicts of interest	2.1.2. Corporate Governance	32
2-17	Collective knowledge of the highest governance body	2.1.2. Corporate Governance	32

2-18	Evaluation of the performance of the highest governance body	2.1.2. Corporate Governance	34
2-19	Remuneration policies	2.1.2. Corporate Governance	35
2-20	Process to determine remuneration	2.1.2. Corporate Governance	35
2-21	Annual total compensation ratio	2.1.2. Corporate Governance	35

Strategies, policies and practices

GRI standards code	Disclosure item	Disclosure chapter	Page number
2-22	Statement on sustainable development strategy	1.1 ESG Governance Structure	8
		Message from the Executive Management	5
2-23	Policy commitments	1.1 ESG Governance Structure	8
		5.4 Human Rights Protection	184
2-24	Embedding policy commitments	1.1 ESG Governance Structure	8
		5.4 Human Rights Protection	184-191
2-26	Mechanisms for seeking advice and raising concerns	2.4 Risk Foresight and Crisis Management	63
		5.4 Human Rights Protection	184-185
2-27	Compliance with laws and regulations	2.1.2. Corporate Governance	37
2-28	Membership associations	Appendix 5: List of Public Associations Participated and Description of Investing In Resources	241

Stakeholder engagement

GRI standards code	Disclosure item	Disclosure chapter	Page number
2-29	Approach to stakeholder engagement	1.2 Stakeholder Engagement	11
2-30	Collective bargaining agreements	5.4 Human Rights Protection	184-185

GRI 3 materiality 2021

GRI standards code	Disclosure item	Disclosure chapter	Page number
3-1	Process to determine material topics	1.3.1 Identification of Material Topics	16
3-2	List of material topics	1.3.1 Identification of Material Topics	22

Materiality: information and cyber security management			
3-3	Management of material topics	2.2 Information and Cyber Security Management	41
Materiality: sustainable management of the supply chain			
3-3	Management of material topics	2.3 Sustainable Management of the Supply Chain	48
204-1	Proportion of spending on local suppliers	2.3.1 Supplier Management	52
308-1	New suppliers that were screened using environmental criteria	2.3.3 Sustainable Supply Chain Assessment and Management	57-59
Materiality: risk foresight and crisis management			
3-3	Management of material topics	2.4 Risk Foresight and Crisis Management	63
Materiality: sustainable intelligent solutions			
3-3	Management of material topics	3.1 Sustainable Intelligent Solutions	69
Materiality: customers and partners co-creation			
3-3	Management of material topics	3.4 Customers and Partners Co-Creation	86-89
Materiality: eco design and sustainability liability of product			
3-3	Management of material topics	4.1 Green Eco Design and Sustainability Liability of Product	100
Materiality management: climate change strategy and management			
3-3	Management of material topics	4.2 Climate Change Strategy and Management	114-115
201-2	Financial implications and other risks and opportunities due to climate change	4.2.2 Climate-Related Risks and Opportunities and Identification of Financial Impacts	121
		Appendix 4: Explanatory Report on TCFD Financial Quantification	236
302-4	Reduction of energy consumption	4.3.2 Energy Management Actions	131-135
Management of materiality: cultivation and development of industrial talents			
3-3	Management of material topics	5.1. Cultivation and Development of Industrial Talents	147-148
401-1	New employee hires and employee turnover	5.1.1 Talent Attraction and Retention	149-157
404-1	Average hours of training per year per employee	5.1.2 Employee Development Plan	157-163
405-2	Ratio of basic salary and remuneration of women to men	5.1.1 Talent Attraction and Retention	149-157

Management of materiality: diversity, equality and inclusive workplace			
3-3	Materiality management	5.3. Diversity, Equality and Inclusive Workplace	174-175
404-3	Percentage of employees receiving regular performance and career development reviews	5.3 Diversity, Equality and Inclusive Workplace	180-181
405-1	Diversity of governance bodies and employees	2.1.2 Corporate Governance	32
		5.3 Diversity, Equality and Inclusive Workplace	176-180
		Appendix 8: Employee Structure	253-255
Management of materiality: IoT application promotion and education			
3-3	Materiality management	6.1. Neighborhood and Community Care	214-215

Voluntary Disclosure: Social Aspect

GRI standards code	Disclosure item	Disclosure chapter	Page number
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	5.2 Employee Communication and Benefits	166-173
401-3	Parental leave	5.2.1 Employee Relations	167-168
403-1	Occupational health and safety management system	5.5 Occupational Health and Safety (OHS)	192
403-2	Hazard identification, risk assessment, and incident investigation	5.5 Occupational Health and Safety (OHS)	194
403-3	Occupational health service	5.5 Occupational Health and Safety (OHS)	200
403-4	Worker participation, consultation, and communication on occupational health and safety	5.5 Occupational Health and Safety (OHS)	192-200
403-5	Worker training on occupational health and safety	5.5 Occupational Health and Safety (OHS)	192, 197-198
403-6	Promotion of worker health	5.5 Occupational Health and Safety (OHS)	197-199
403-7	Prevention and mitigation of occupational health and safety impacts directly linked to business relationships	5.5 Occupational Health And safety (OHS)	192-197
403-9	Work-related injuries	5.5 Occupational Health and Safety (OHS)	195-196
403-10	Work-related ill health	5.5 Occupational Health and Safety (OHS)	194-195
406-1	Incidents of discrimination and corrective actions taken	5.4 Human Rights Protection	186-187, 190-191

GRI standards code	Disclosure item	Disclosure chapter	Page number
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	5.4 Human Rights Protection	184-185
408-1	Operations and suppliers at significant risk for incidents of child labor	5.4 Human Rights Protection	191
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	5.4 Human Rights Protection	191
412-2	Employee training on human rights policies or procedures	5.4 Human Rights Protection	184, 190
412-3	Significant investment agreements and contracts that contain human rights clauses or that have undergone human rights screening	5.4 Human Rights Protection	191

Voluntary Disclosure: Environmental Aspect

GRI standards code	Disclosure item	Disclosure chapter	Page number
302-1	Energy consumption within the organization	4.3.1 GHG Inventory and Management	126-130
302-2	Energy consumption outside the organization	4.3.1 GHG Inventory and Management	126-130
303-3	Water withdrawal	4.4.2 Energy Resource Use and Waste Management	140
305-1	Direct (Scope 1) GHG emissions	4.3.1 GHG Inventory and Management	127
305-2	Energy indirect (Scope 2) GHG emissions	4.3.1 GHG Inventory and Management	127
305-3	Other indirect (Scope 3) GHG emissions	4.3.1 GHG Inventory and Management	129
305-4	GHG emission intensity	4.3.1 GHG Inventory and Management	128
305-7	Nitrogen oxides (NO _x), sulfur oxides (SO _x), and other significant air emissions	4.3.1 GHG Inventory and Management	142
306-3	Waste generated	4.4.2 Energy Resource Use and Waste Management	140
306-5	Waste directed to disposal	4.4.2 Energy Resource Use and Waste Management	142
307-1	Non-compliance with environmental laws and regulations	4.4.1 Environmental Responsibility	136

Assurance Indicator Index

Assurance Item	Disclosure chapter	Page number
Average training hours per employee	5.1.2 Employee Development Plan	160-162
Types of occupational hazards, number of people involved, and percentage	5.5. Occupational Health and Safety (OHS)	195-196
Total amount of pecuniary losses as a result of legal proceedings related to the anti-competitive behavior-related laws	2.1.2. Corporate Governance	38
Percentage of significant suppliers who have signed the "Supplier Code of Conduct Consent"	2.3.1 Supplier Management	50
Amount of fines imposed for violation of environmental laws and regulations	4.4.1 Environmental Responsibility	136
Total waste disposal outsourcing (metric tons)	4.4.2 Energy Resource Use and Waste Management	139-143

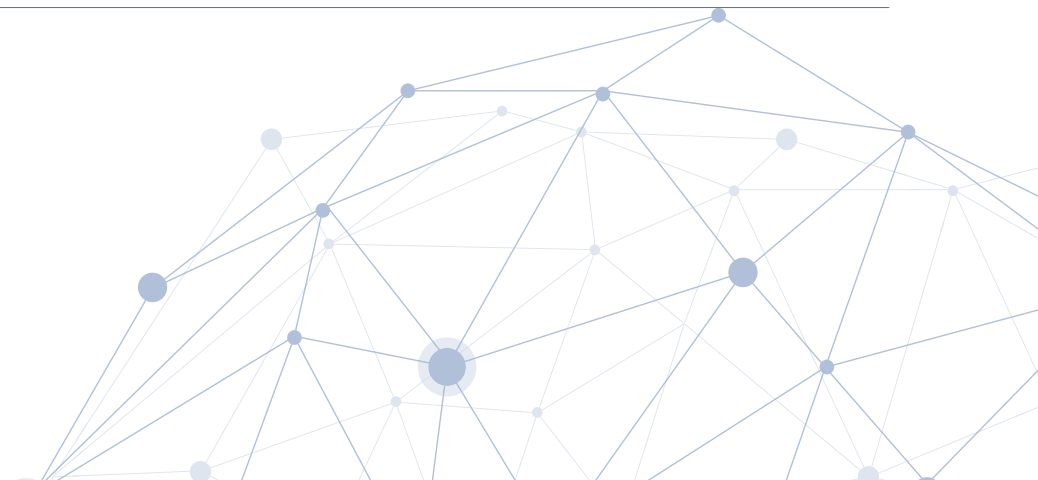
Appendix 3: Basic Information of Affiliates

Country/region	Company name	Principal operating activities
Taiwan	Advantech Co., Ltd.	Manufacturing, processing, and trading of embedded boards, industrial control products, application computers, industrial computers, and IoT hardware and software equipment
	Advantech Intelligent Healthcare Co., Ltd. (AIH)	Information software and data processing services
	Advantech Investment Co., Ltd. (Advantech Investment)	Investment in marketable securities
	Cermate Technologies Inc. (Cermate Taiwan)	Electronic parts manufacturing and computer peripheral equipment manufacturers
	Advantech Intelligent City Services Co., Ltd. (Advantech iCity Services)	Design, R&D, and sale of smart service solutions
	LNC Technology Co., Ltd. (LNC)	Manufacture and trading of controllers
	LNCMac Technology Corp. (LNCMac)	System integration and application, smart system furniture design, production, and sales
	Advanix Corporation (ADVANIXS)	Manufacturing, marketing, and sale of industrial computers
	Huan Yan Water Solution Co., Ltd. (Huan Yan Water Solution)	AIoT application and operation and maintenance management service solution for sewage and wastewater treatment
	Yan Xu Green Electricity Co., Ltd. (Yan Xu Green Electricity)	Renewable energy power plant development

Country/region	Company name	Principal operating activities
China	Beijing Yan Hua Xing Ye Electronic Science & Technology Co., Ltd. (ACN)	Marketing and sale of industrial computers
	Advantech Shanghai Huisheng Intelligent Technology Co., Ltd. (ACI CN)	Manufacturing, marketing, and sale of industrial computers
	Shanghai Yanle Co., Ltd. (AYL)	Smart retail applications and services
	Xi'an Advantech Software Ltd. (AXA)	Software technology development, software product production
	Advantech ServicoIoT (Shanghai) Co., Ltd. (SiIoT (China))	Technology development, consulting, and services in the field of smart technology
	Advantech Technology (China) Company Ltd. (AKMC)	Manufacture and sale of casings, plastic casings, and accessories for interface cards and peripherals
	Shanghai Cermate Technologies Inc. (Cermate Shanghai)	Industrial networked electronic equipment
	Shenzhen Cermate Technologies Inc. (Cermate Shenzhen)	Production of LCD touchscreens, USB cables and industrial computers
	LNC Dong Guan Co., Ltd (LNC Dong Guan)	Manufacture and trading of controllers
	LNCMac DONG GUAN Technology Co Ltd. (LNCMac DONG GUAN)	System integration application
	LNCMac Furniture Co., Ltd. (LNCMac Furniture)	Smart system furniture design, production, and sales
Japan	Advantech Japan Co., Ltd. (AJP)	Marketing and sale of industrial computers
Korea	Advantech KR Co., Ltd. (AKR)	Marketing and sale of industrial computers
Europe	Advantech Czech s.r.o. (ACZ)	Automatic control manufacturing
	Advantech Technology Limited (AIE)	Industrial network communication
	Advantech Europe Holding B.V. (AEUH)	Overseas investment in manufacturing and service sectors
	Advantech Europe B.V. (AEU)	Assembly, marketing, and sale of industrial computers
	Advantech Poland Sp z o.o. (APL)	Assembly, marketing, and sale of industrial computers
	Advantech Europe B.V. – Netherlands PE (ADL)	Provide marketing support services
	Advantech Europe B.V. – Netherlands PE (AES)	Provide marketing support services

Country/region	Company name	Principal operating activities
Europe	Advantech Europe B.V. – Netherlands PE (AFR)	Provide marketing support services
	Advantech Europe B.V. – Netherlands PE (AIT)	Provide marketing support services
	Advantech Europe B.V. – Netherlands PE (ANR)	Provide marketing support services
	Advantech Europe B.V. – Netherlands PE (AUK)	Provide marketing support services
United States	Advantech Corp. (ANA)	Assembly, marketing, and sale of industrial computers
	BitFlow, Inc. (ABO)	Core technology for high-speed image capture in the fields of advanced imaging and AI machine vision technology
Other	Advantech Co., Singapore Pte, Ltd. (ASG)	Marketing and sale of industrial computers
	Advantech Corporation (Thailand) Co., Ltd. (ATH)	Marketing and sale of industrial computers
	Advantech International, PT. (AID)	Marketing and sale of industrial computers
	Advantech Co., Malaysia Sdn. Bhd (AMY)	Marketing and sale of industrial computers
	Advantech Industrial Computing India Private Limited (AIN)	Marketing and sale of industrial computers
	Advantech Raiser India Private Limited (ARI)	Marketing and sale of industrial computers
	Advantech Australia Pty Ltd. (AAU)	Marketing and sale of industrial computers
	Advantech Vietnam Technology Company Limited (AVN)	Marketing and sale of industrial computers
	Advantech Automation Corp. (HK) [AAC (HK)]	Overseas investment in manufacturing and service sectors
	HK Advantech Technology Co., Ltd. (ATC HK)	Overseas investment in manufacturing and service sectors
	Cermate Software Inc. (CSI)	Software development
	Advantech Brazil Ltd (ABR)	Marketing and sale of industrial computers

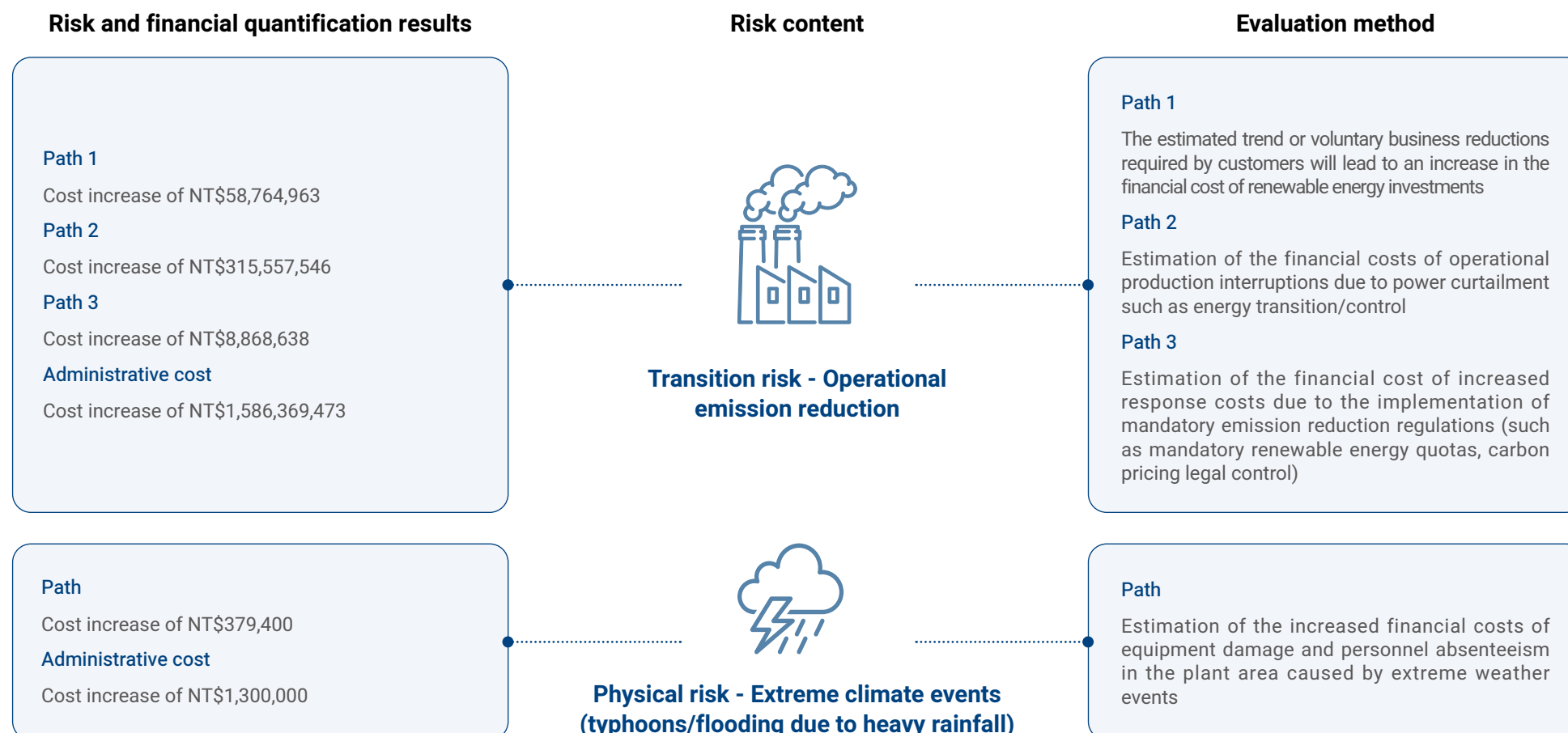
Country/region	Company name	Principal operating activities
Other	Advantech Electronics, S.A.P.I. de C.V. (AMX)	Marketing and sale of industrial computers
	Advantech Technology DMCC (ADB)	Industrial network communication
	Advantech Turkey Teknoloji A.S. (ATR)	Wholesale of computer and peripheral equipment
	ADVANTECH IOT ISRAEL LTD. (AIL)	Industrial network communication
	Advantech Technology Limited Liability Company (ARU)	Marketing and sale of industrial computers
	Advantech Automation Corp. (BVI) [AAC (BVI)]	Overseas investment in manufacturing and service sectors
	Advantech Technology Co., Ltd. (ATC)	Overseas investment in manufacturing and service sectors
	Better Auto Holdings Limited (Better Auto)	Holding company
	Famous Now Limited (Famous Now)	Holding company
	Landmark Co., Ltd. (Landmark)	Investment company
	BEST PLC LTD. (BEST PLC)	Holding company
	BEST SERVO LTD. (BEST SERVO)	Holding company
	Advantech Corporate Investment Ltd. (ACI KY)	Design, R&D, and sales of smart IoT system services
	BEST MACHINE LTD. (BEST MACHINE)	Holding company
	BEST AUTOMATION LTD. (BEST AUTOMATION)	Holding company



Appendix 4: Explanatory Report on TCFD Financial Quantification

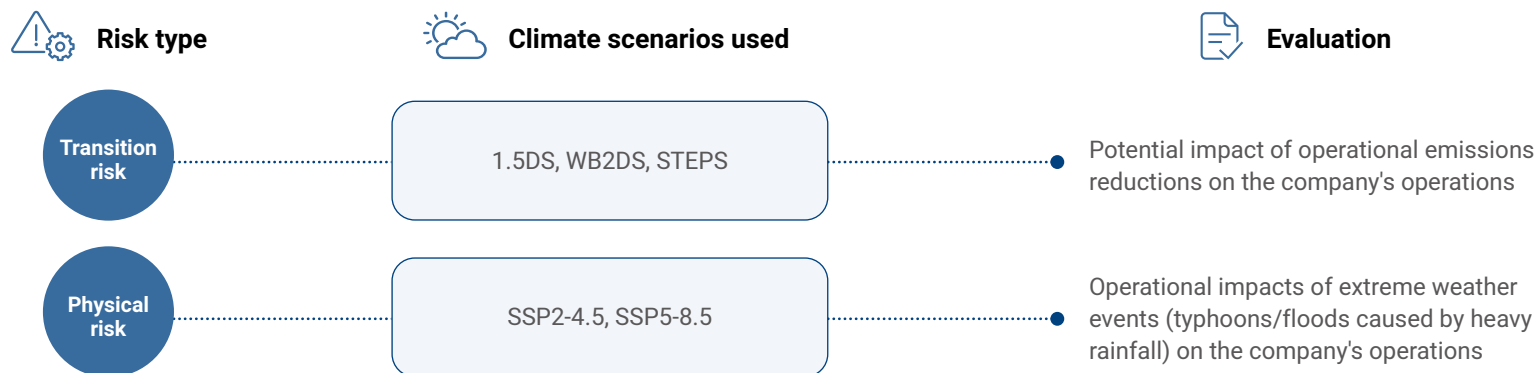
Climate Change Risk and Financial Impact Quantification

Based on the identification of climate risks, Advantech has invited consultants to collaborate on two types of risk issues: "Transition Risk - Operational Emission Reduction" and "Physical Risk - Extreme Weather Events (such as typhoons/heavy rainfall causing flooding)." Considering internal and external environmental changes, and referring to methodologies disclosed by domestic and foreign enterprises, Advantech conducts financial quantitative impact assessment.



Scenario Resilience Analysis

In accordance with the recommended TCFD guidelines, Advantech analyzed and evaluated the impact of different risk scenarios on corporate operations by using various scenarios of transition and physical risk types, and incorporated the analysis results into the strategic resilience assessment.

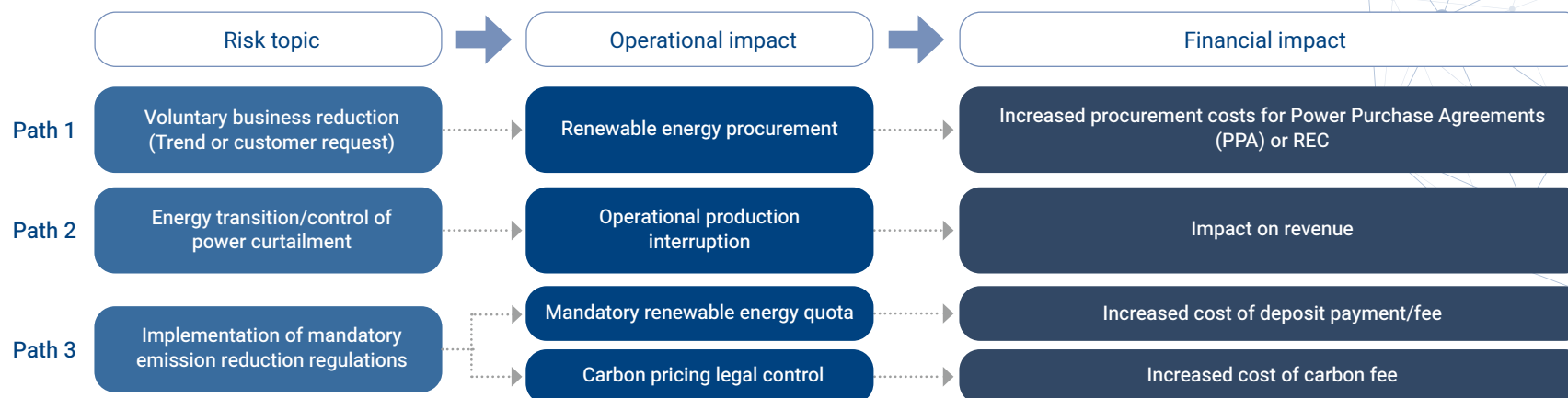


***Note:**

- 1.5DS and WB2DS represent the proactive reduction scenario, where net-zero emissions are achieved around 2050 and 2060, respectively, representing a temperature rise of 1.5°C and 1.7°C, respectively.
- STEPS (Stated Policies Scenario) represents countries in which current emission control policies have achieved net-zero emissions between 2070 and 2080, which represents a temperature rise of 2.7°C.
- In the SSP2-4.5 scenario, radiative forcing is projected to reach approximately 4.5 watts per square meter by the end of the century. This represents a middle-of-the-road scenario where countries aim to achieve greenhouse gas reduction targets based on existing policies. It is estimated that global average temperatures will rise by approximately 2.7°C.
- In the SSP5-8.5 scenario, radiative forcing continues to increase to greater than 8.5 watts per square meter, indicating a high forcing pathway. This scenario represents a situation where countries worldwide take no mitigation actions, resulting in an estimated temperature increase of approximately 4.4°C.

Transition Risk - Impact Identification and Potential Financial Impact

We used three scenarios to analyze the impact of operational emission reductions on future operations.





Path 1: Voluntary business reduction

Year of assessment 2030

Key assumptions

The overall assessment considers the financial impact of carbon reduction through the purchase of all renewable energy sources, regardless of the cost of purchasing carbon credits

Use scenario International Energy Agency (IEA) WB2DS, 1.5DS carbon reduction path

Scenario 1

WB2DS (SBT Voluntary reduction scenario)

Results of impact analysis

NT\$57,706,595 for an increase in the purchase cost of renewable energy transition (PPA) and I-REC

Scenario 2

1.5DS (Net Zero scenario)

Results of impact analysis

NT\$58,764,963 for an increase in the purchase cost of renewable energy transition (PPA) and I-REC



Path 2: Energy transition/control of power blackouts

Year of assessment 2021/per year

Key assumptions

China's power curtailment policy caused the interruption of water supply and power supply, as well as the equipment damage and UPS maintenance increased costs, also disruptions in operations and production, resulting in reduced revenue

Use scenario

Control implementation scenario (referring to historical scenarios)

Results of impact analysis

NT\$315,557,546 in costs increased due to the interruption of operational production



Path 3: Enforcement of mandatory emission reduction regulations

Year of assessment 2025-2030/per year

Key assumptions

Advantech Taiwan may be subject to the government's regulations, including tightening terms for large electricity users, setting a certain percentage of renewable energy, and amendments to the climate change interaction act, resulting in an increase in operating costs

Use scenario

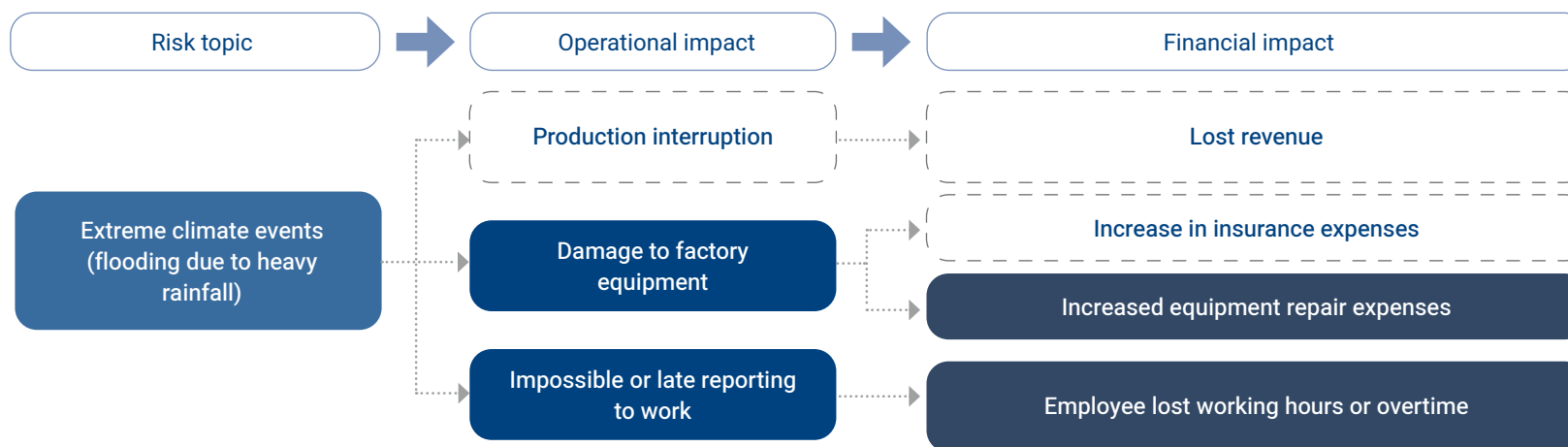
STEPS Existing policy implementation scenario

Results of impact analysis

NT\$8,868,638 of operating cost increased due to renewable energy deposit payment and carbon fee

Physical risk - impact identification and potential financial impact

We used two scenarios to analyze the impact of extreme climate events on future operations.



*Judgment and discussion based on historical occurrence



Path: Extreme climate events

Year of assessment Until the middle of the century (2050)/occurs every 5 or 10 years

Key assumptions

The overall assessment considers the financial impact of operational disruptions caused by extreme weather events (such as flooding due to heavy rainfall), without considering the impact of other physical risks (such as temperature rise, drought)

Use scenario Scenarios SSP5-8.5 and SSP2-4.5 of the Taiwan Climate Change Projection Information and Adaptation Knowledge Platform (TCCIP)

Scenario 1

SSP5-8.5 (high-compulsion-pathing scenario)

Results of impact analysis

NT\$379,400 in operating costs due to damaged equipment and absent or delayed attendance of personnel in the factory

Scenario 2

SSP2-4.5 (Medium path scenario)

Results of impact analysis

NT\$189,700 in operating costs due to damaged equipment and absent or delayed attendance of personnel in the factory

Advantech - Future change rate of heavy rainfall days in Taiwan

- Heavy rainy day: Cumulative rainfall in a single day > 200mm
- Scenario: The Taiwan Climate Change Projection and Information Platform Project (TCCIP) SSP2-4.5, SSP5-8.5

Advantech locations of operation	County/City	Scenario	Base period	Short-term	Medium-term	Long-term
				2021-2040	2041-2060	2081-2100
Ruiguang Headquarters	Taipei City	SSP2-4.5	1.0	+0.1	+0.2	+0.2
Yangguang Building		SSP2-8.5		+0.1	+0.3	+0.6
Donghu Factory	New Taipei City	SSP2-4.5	0.9	+0.2	+0.2	+0.3
		SSP2-8.5		+0.1	+0.3	+0.6
Linkou Industrial Park	Taoyuan City	SSP2-4.5	0.6	+0.1	+0.2	+0.2
				+0.1	+0.2	+0.5

Advantech - Evaluation of future extreme rainfall scenarios in Taiwan

- The rainfall standards for the design of urban rainfall drainage systems:
Current stage: a 5-year return period
Future medium-term goal: a 10-year return period
- Scenario: The Taiwan Climate Change Projection and Information Platform Project (TCCIP) SSP2-4.5, SSP5-8.5

Advantech operating locations	Longitude and latitude	Base period (1976-2005)	Design rainfall change rate	
			Mid century period (2046~2065)	
			SSP2-4.5	SSP5-8.5
Rui-Guang Headquarters	121.583, 25.070	5-year return period 50th percentile	18%	16%
Yang-Guang Building	121.578, 25.073		18%	16%
Donghu Plant	121.623, 25.067		13%	17%
Linkou Industrial Park	121.382, 25.059		19%	14%

Advantech operating locations	Longitude and latitude	Base period (1976-2005)	Design rainfall change rate	
			Mid century period (2046~2065)	
			SSP2-4.5	SSP5-8.5
Rui-Guang Headquarter	121.583, 25.070	10-year return period 50th percentile	23%	20%
Yang-Guang Building	121.578, 25.073		23%	20%
Donghu Plant	121.623, 25.067		17%	16%
Linkou Industrial Park	121.382, 25.059		20%	17%

Appendix 5: List of Public Associations Participated and Description of Investing in Resources

List of Public Associations Participated and Description of Investing in Resources

Significance and importance of association participation

Advantech actively promotes the implementation of various industrial IoT solutions such as smart factory, smart manufacturing, smart healthcare, smart transportation, smart logistics and retail, and intelligent energy management system by participating in governmental and private associations and organizations in Taiwan and abroad. In addition, the company also participates in various IoT technology certification organizations around the world to ensure that the most cutting-edge and advanced IoT technology can be introduced and promoted to the public. Under Advantech's vision as the creator of a smart planet, we have remained true to our core values, persevering in building a complete industrial ecological chain with partners from various industries and creating various solutions for IoT software and hardware.

Performance overview

Participated in more than 40 governmental and private associations and organizations around the world. From different aspects such as industry promotion, deep cultivation of technology, green sustainability, etc., the company participated and invested more than NTD 3 million in actual expenses, and mobilized hundreds of colleagues around the world to participate.



Project highlight 1

Advancing new industrialization through high-quality integration of digital and real, and empowerment with digital intelligence

In 2023, the Alliance of Industrial Internet vigorously promoted the large-scale application of industrial internet under the theme of "Integration of Digital and Real, Empowering with Intelligence - Advancing New Industrialization with High Quality." This initiative aims to facilitate the digital transformation of industries and accelerate the development of new industrialization in Taiwan. Based on Advantech's Industrial IoT cloud platform, Advantech collaborated with the Alliance of Industrial Internet to showcase solutions covering multiple industries and domains including smart factories, metal processing and intelligent machinery, electronics manufacturing, smart cities, energy, and environment. This collaboration aims to accelerate the transformation and upgrade of industries towards digitalization. General Manager of Advantech China, Paul Luo, and the General Manager of IoT business group of Advantech China, Allan Tsay, both personally attended the event. They addressed tens of thousands of industry experts and managers in the audience, explaining how digitalization technologies can be utilized to promote the green and low-carbon transformation of industries, industrial parks, and cities.

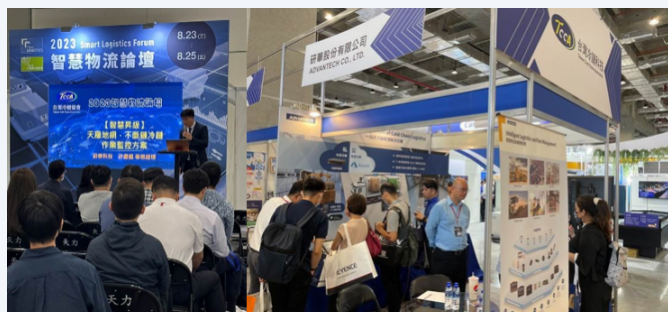




Project highlight 2

Collaborating with Taiwan Cold Chain Association to promote logistics and cold chain intelligence

Advantech and the Cold Chain Association have long been committed to promoting the internet of things and cold chain intelligence. Not only did the joint exhibition at the Logistics and Cold Chain Technology Exhibition in Taiwan last August, but also in new southbound nations such as Malaysia and the Philippines throughout the year roving seminars to form business groups and exhibit various IoT and cold chain solutions.



Project highlight 3

Advocate for IoT cloud platform (ROC-Australia & Australia-Taiwan Business Councils) to accelerate the implementation of smart solutions

Entering the era of the Internet of Things (IoT) poses challenges for many system integrators and small businesses in industries to undergo digital transformation. To accelerate the rapid replication and implementation of industry solutions, Advantech continues to promote the concept of IoT cloud platforms. The aim is to reduce the challenges faced by system integrators in developing industry-specific software and to accelerate the implementation of industry solutions by providing logical and conceptual support.





Project highlight 4

Advantech RE100

Advantech attended the RE100 Taiwan renewable electricity market policy seminar to discuss the RE100 global policy campaign with the official representatives of RE100 headquarters and corporate members in Taiwan, including: discussing the difficulties and solutions of renewable energy purchasers in the Taiwan market, identification and discussion on stakeholder of renewable energy, discussion on the influence path of major policy decision-makers, and communication on the Taiwan renewable energy policy meeting and schedule, etc. Advantech also sponsored the editing and publication of the RE100 annual report this year. The contents include Taiwan's renewable energy market research and Taiwan's renewable energy policy recommendations.

In addition, Advantech fulfills its member obligations by attending the annual general meeting. During the meeting, Advantech shared RE100 plans and the specific RE100 practices of local business units: Renewable electricity direct procurement, REC (Renewable energy certificate) procurement, Fish-electricity symbiosis solar power plant transfer, Self-sustained solar photovoltaic panel installation, and the preparations for the RE100 global working group. During the meeting, Advantech also discussed practical solutions of renewable energy with global leading enterprises. In addition, the company successfully collaborated with RE100 headquarters to organize renewable energy education and training for suppliers, sourcing department, corporate quality and management department, and ESG Office.



Topics of Concern to Advantech's Participation In Public Associations

Issues of concern	Level of support	Advantech positioning and significance of participation	Investment (NTD) in 2023
Smart industry promotion	<ol style="list-style-type: none"> 1. Strong support 2. Join the promotion with practical actions 	Actively participates in exclusive associations of different industries to promote the application and implementation of smart solutions to users in the industry through co-organization of forums, exhibitions, and even symposiums; Advantech plays a pivotal role in driving industry advancement, leading by example, and supporting smaller enterprises, and publishes white papers on digital transformation to empower the industry. Practical cases include: driving a well-known tape group to conduct energy data management, helping them gain insight into carbon emissions and energy risks, and adopting effective energy-saving measures. For a renowned automotive wheel steel structure group, customized digital management solutions were implemented to achieve comprehensive equipment lifecycle management. This included streamlining equipment maintenance workflows, digital performance management, and workshop energy usage monitoring. These measures significantly enhanced production efficiency. Advantech will continue to lead the industry forward through industry alliances.	726,283
In-depth cultivation of IoT technology	<ol style="list-style-type: none"> 1. Strong support 2. Support the R&D, promotion, and application of new technologies 	By supporting the development of the latest technologies with financial support, Advantech introduces related technologies into Advantech's latest IoT solutions or assist or embed it in customers' smart application fields.	1,291,137
Support for the activities regarding climate change and sustainability	<ol style="list-style-type: none"> 1. Strong support 2. Primarily through sponsoring professional research, participating in climate change-related forum events, educational training activities, policy advocacy, and discussions 	Advantech actively participated in the sponsorship and support projects of non-profit organizations related to biodiversity, climate change, and forest protection; regularly attends climate change and renewable energy events organized by RE100, Taiwan Nature Positive Initiative, Business Council for Sustainable Development of the Republic of China, and Taiwan Climate Partnership; furthermore, Advantech engaged in policy seminars, trainings, and seminars. We also actively follow up on the relevant commitments and information disclosure of SBTi, TCFD, and TNFD.	1,061,360

The amount of participation in public associations over the past four years

Item	2020 Investment (NTD)	2021 Investment (NTD)	2022 Investment (NTD)	2023 Investment (NTD)
Lobbying, interest representation or similar	35,000	0	0	0
Local, regional or national political campaigns /organizations / candidates	0	0	0	0
Trade associations or tax-exempt groups (e.g. think tanks)	1,487,865	3,071,628	2,965,615	3,078,780
Other (e.g. spending related to ballot measures or referendums)	0	0	0	0
Total contributions and other spending	1,522,865	3,071,628	2,965,615	3,078,780
Data coverage (as % of denominator, indicating the organizational scope of the reported data)	79.37%	88.86%	90%	88%

***Note:** Logic and method of calculation for 2024: *Number of employees covered/number of Advantech employees worldwide=7713(3,588 ACL+536 ANA+1,223ACN+2,134 AKMC+232 AJP)/8,829

- Number of Advantech employees (global): 8,829
- Number of Advantech Co., Ltd. (ACL) employees: 3,588
- Advantech Corp. (ANA) Number of employees: 536
- Number of employees in Beijing Yan Hua Xing Ye Electronic Science & Technology Co., Ltd. (ACN): 1,223
- Number of employees in Advantech Kunshan Manufacturing Center (AKMC): 2,134
- Advantech Japan Co. LTD. (AJP) Number of employees: 232
































No.	Association or Special Interest Group (SIG)	Investment Type	Investment (NTD)	Investment (Local Currency)	Association Type (A=Industry, B=Technology C=Sustainable)	Membership Type	Strategic Meaning for Joining the Associations or SIG
1	Taipei Computer Association (Taiwan)	2023 annual membership fee	15,000	—	A	Tier 1 membership	Promotion of computer applications, improvement of economic development, and coordination of industry solidarity
2	Taiwan Automation Intelligence and Robotics Association (Taiwan)	2023 annual membership fee	40,000	—	A	Tier 1 membership serving as director	Promotion of smart manufacturing and factory smart automation, and association's course practice lecturers have served as lecturers for many times
3	Taiwan Electrical and Electronic Manufacturers' Association (Taiwan)	2023 membership fee (January - June)	21,000	—	A	Tier 1 membership	Promotion of Internet of Things platform and smart manufacturing development
4	Taiwan Electrical and Electronic Manufacturers' Association (Taiwan)	2023 membership fee (July- December)	21,000	—	A	Tier 1 membership	Promotion of Internet of Things platform and smart manufacturing development
5	Taiwan Electronic Equipment Industry Association(TEEIA) (Taiwan)	2023 annual membership fee	30,000	—	A	Organization membership	Promotion of the construction of the Internet of Things platform, improvement of Taiwan's electronic equipment cooperation ecosystem
6	Taiwan Printed CFircuit Association (Taiwan)	2023 annual membership fee	48,000	—	A	Organization membership	Promotion of Industrial cooperation and marketing
7	Chinese International Economic Cooperation Association (CIECA), Taiwan (Taiwan)	2023 annual membership fee	20,000	—	A	Organization membership	The expansion of substantial relationship between Taiwan's Industrial Internet of Things application and other countries in the world is assisted by participating in the international economic cooperation affairs engaged in by the organization.
8	Taiwan Association of Machinery Industry (Taiwan)	2023 annual membership fee	52,800	—	A	Organization membership	Machine tools and other machinery industries have been assisted to introduce smart machinery applications, and Taiwan's smart machinery cloud ecosystem has been expanded.
9	Taiwan Telematics Industry Association (Taiwan)	2023 annual membership fee	20,000	—	A	Tier 2 membership serving as director	Promotion of the development of Taiwan's Internet of Vehicles industry and enhancement of the industry's international competitiveness
10	Taiwan Cold Chain Association (Taiwan)	2023 annual membership fee	20,000	—	A	Tier 1 membership	Co-organization of the cold chain national team with predecessors in the industry, government and academia within the association to gain a foothold in Taiwan and promote to the Southbound market.
11	Institute for Biotechnology and Medicine Industry (Taiwan)	2023 annual membership fee	20,000	—	A	Organization membership	Jointly promotion of Taiwan's smart medical care with association medical institutions and industrial predecessors by participating in the organization, and jointly promotion of Taiwan's smart medical care to Southeast Asia.
12	Computer Internet of Things for Smart Industry Association (Taiwan)	2023 annual membership fee	50,000	—	A	Tier 1 membership	This is a joint establishment of Taiwan's industrial computer industry to hopefully promote AIoT-related policies together and form a consensus and direction for industrial promotion.
13	Intelligent Transportation Society of Taiwan (Taiwan)	2023 annual membership fee	10,000	—	A	Organization membership	

No.	Association or Special Interest Group (SIG)	Investment Type	Investment (NTD)	Investment (Local Currency)	Association Type (A=Industry, B=Technology C=Sustainable)	Membership Type	Strategic Meaning for Joining the Associations or SIG
14	SEMI Semiconductor Equipment and Materials International Taiwan Branch (U.S) (Taiwan)	2023 membership fee for renew	103,858	US\$ 3,100.00	A	Organization membership	Promotion of the application of IoT solutions in semiconductor-related industries
15	ProfiNet/ Profibus Membership (Taiwan) (Taiwan)	2023 Annual Membership Fee	50,000	—	B		
16	AIA (Association for Advancing Automation) (USA)	2023 Annual Membership Fee	57,258	US\$ 1,800.00	B	Enterprise membership	Deepening of industrial automation technology
17	OPC Foundation (USA)	2023 Annual Membership Fee	572,580	US\$ 18,000.00	B	Enterprise membership	Definition of future technical standards for the Industrial Internet of Things
18	ODVA (Open Device Net Vendors Association) (USA)	2023 Annual Membership Fee	248,118	US\$ 7,800.00	B	Enterprise membership	Promotion of related technologies and standards for industrial automation
19	CSIA (Control System Integrators Association) (USA)	2023 Annual Membership Fee	72,368	US\$ 2,275.00	B	Enterprise membership	Promotion of related technologies and standards for industrial automation
		Sponsor of the conference exhibition	63,620	US\$ 2,000.00	B	Enterprise membership	Promotion of related technologies and standards for industrial automation
20	AHTD (Association for High Technology Distribution) (USA)	2023 Annual Membership Fee	106,564	US\$ 3,350.00	B	Enterprise membership	Promotion of related technologies and standards for industrial automation
		Sponsor of the conference exhibition	31,810	US\$ 1,000.00	B	Enterprise membership	Promotion of related technologies and standards for industrial automation
21	APTA (American Public Transportation Association) (USA)	2023 Annual Membership Fee	43,739	US\$ 1,375.00	A	Enterprise membership	Promotion of related technologies and standards for industrial automation
22	Edgecross Consortium (Japan)	2023 Annual Membership Fee	6,900	JPY 30,000.00	A	Enterprise membership	Realization of the connection and integration of factory automation (FA) and information technology (IT) to quickly start Industry 4.0
23	CC-Link Partner Association (Japan)	2023 Annual Membership Fee	21,680	JPY 100,000.00	A	Enterprise membership	Promote industries related to industrial automation.

No.	Association or Special Interest Group (SIG)	Investment Type	Investment (NTD)	Investment (Local Currency)	Association Type (A=Industry, B=Technology C=Sustainable)	Membership Type	Strategic Meaning for Joining the Associations or SIG
24	Anritsu Fuji Meeting annual membership fee (Japan)	2023 Annual Membership Fee	4,336	JPY 20,000.00	A	Enterprise membership	Promotion of related industries for industrial automation
25	Semiconductor Equipment Association of Japan (Japan)	2023 Annual Membership Fee	78,048	JPY 360,000.00	A	Enterprise membership	Japan Semiconductor Technology Promotion
26	Edge Computing Consortium (China)	2023 Annual Membership Fee	88,820	CNY 20,000.00	B	General membership	Promotion of related technologies and trends for industrial IoT
27	Machine Vision Industry Union (China)	2023 Annual Membership Fee	15,544	CNY 3,500.00	A	General membership	Promotion of related technologies and trends for machine vision
28	Zhongguancun Energy Storage Industry Technology Alliance (China)	2023 Annual Membership Fee	35,528	CNY 8,000.00	A	Enterprise membership	Promote energy storage technology and trends
29	China Electronic Circuit Industry Association (China)	2023 Annual Membership Fee	13,323	CNY 3,000.00	A	General membership	
30	Industrial Internet Industry Alliance (China)	2023 Donation	35,528	CNY 8,000.00	A	Vice chairman	
31	Preparatory Advisory member of GO SMART Global Organization of Smart Cities (Taiwan)	Participation in association forums or related exhibition activities	—	—	A	Preparatory Advisory Committee	Implementation of the application plan to promote smart cities, and overseas export of related applications in Taiwan
32	Taiwan Smart City Solutions Alliance (Taiwan)	Participation in association forums or related exhibition activities	—	—	A	Founding membership	Key role to promote Taiwan Real Site Demo, promote smart city exhibition, and promote Taiwanese manufacturers in smart cities
33	Asia Silicon Valley Development Agency (Taiwan)	Participation in association forums or related exhibition activities	—	—	A	General membership	Establishment of the IoT innovations industry through the promotion of the application of IoT technology,
34	e-F@ctory Alliance (Japan)	Participation in association forums or related exhibition activities	—	—	B	General membership	Promotion of factory automation and application of Industry 4.0
35	Embedded Linux & Android Alliance (ELAA) (Worldwide)	Participation in association forums or related exhibition activities	—	—	B	Founding membership	Promotion of open and standardized Linux and Android software and hardware architectures, and establishment of a complete software and hardware industry ecosystem
36	LoRa Alliance (Worldwide)	Participation in association forums or related exhibition activities	—	—	B	General membership	Layout of low-power wide area wireless network in the development of Internet of Things applications
37	Taiwan High-Tech Facility Association (Taiwan)	Participation in association forums or related exhibition activities	—	—	A	Founding membership	Promotion of WISE- IoT platform and ESG-related solutions to customers such as high-tech factories in Taiwan
38	Business Council for Sustainable Development of the Republic of China (Taiwan)	Participation in association forums or training.	90,000	—	C	Standing membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance

No.	Association or Special Interest Group (SIG)	Investment Type	Investment (NTD)	Investment (Local Currency)	Association Type (A=Industry, B=Technology, C=Sustainable)	Membership Type	Strategic Meaning for Joining the Associations or SIG
39	Taiwan Climate Partnership (Taiwan)	Participation in association forums or related education and training activities	150,000	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
40	Taiwan Nature Positive Initiative (Taiwan)	Participation in association forums or related education and training activities	300,000	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
41	CSR@CommonWealth (Taiwan)	Participation in association forums or related education and training activities	120,000	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
42	RE100 (Global)	Participation in association forums or related education and training activities	190,860	US\$ 6,000.00	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
		Sponsored Taiwan Renewable Energy Market Research	100,000	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
43	RE10 X10 (Taiwan)	Participation in association forums or related education and training activities	—	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
44	Tse-Xin Organic Agriculture Foundation(Taiwan)	Sponsor coastal forest restoration	51,100	—	C	Donation	Support forest conservation and improve corporate sustainability performance
45	Guandu Nature Park (Taiwan)	Sponsor wetland biodiversity conservation activities	51,100	—	C	Donation	Support biodiversity activities and provide employee volunteer opportunities
46	SBTi (Global)	Participation in association forums or related education and training activities	—	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
47	TNFD (Global)	Participation in association forums or related education and training activities	—	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
48	TCFD (Global)	Participation in association forums or related education and training activities	—	—	C	General membership	Absorption of new knowledge on corporate sustainability for improving corporate sustainability performance
49	Taiwan Forestry Restoration Association(Taiwan)	Assisting forest restoration in shallow mountainous areas of Taiwan	110,500	—	C	Donation	Support forest conservation and improve corporate sustainability performance
Total Investment		NTD 3,180,980.50					

Appendix 6: Comparison Table of Advantech's ISO Certification and UN Sustainable Development Goals (SDGs)

ISO certification		Certification scope							Corresponding SDGs
Category	ISO name	HQ	ATMC	AKMC	AJP	AKR	ANA	AEU	
Quality	ISO 9001 Quality management system	✓	✓	✓	✓	✓	✓	✓	   
	ISO 13485 Medical equipment quality management system	✓	✓	✓			✓	✓	 
	ISO 17025 Laboratory quality management system	✓	✓	✓			✓		—
Environmental	ISO14001 Environmental management system	✓	✓	✓	✓	✓	✓		           
	ISO 14064 GHG Inventory check standards	✓	✓	✓					 
	ISO 50001 Energy management system	✓	✓	✓					   
Safety	ISO 45001 Occupational health and safety management system	✓	✓	✓			✓		      
Information	ISO 27001 Information and cyber security management system		✓	✓			✓	✓	—

Appendix 7: Compliance with Product Environmental Regulations and Calculation Standards for Various Environmental Indicators

Compliance with Product Environmental Regulations

Advantech has revised its internal management standards for various environmental policies related to substances management (such as EU RoHS (including EU 2015/863), REACH, POPs, etc.), and introduced the IECQ HSPM QC080000 hazardous substance management system in 2009. Advantech conducts risk management through its supplier management platform and green information management platform for the supply chain. Advantech selects materials for various products according to the product sales region to ensure compliance with the relevant environmental protection regulations of the following countries, as shown below:

1. RoHS Directive
2. Control requirements for substance of very high concern (REACH SVHC)
3. Product recycling regulations
 - 3.1 EU WEEE (Waste Electrical and Electronic Equipment) Directive
 - 3.2 International standard - ISO 11469 (labeling for plastic parts)
4. Battery recycling regulations
5. Waste packaging material regulations
6. Energy saving regulations
 - 6.1 ErP Certifications
 - 6.2 Energy Star certifications



The Company ensures that all products undergo compliance certification during the design and development phase to meet CE/FCC/CCC safety standards. Advantech adheres to international environmental regulations, from the efficient utilization of natural resources to life cycle assessments (LCA) for the prohibition of hazardous substances and proper management of waste. We comply with international standards for green eco design product. The Company promotes green eco design product based on the three aspects of safety, energy saving and environmental protection. Relevant information announced on the Company's website is described in the product catalogue as follows.

TPC-100W

7"/10.1"/15.6" Touch Panel Computer with ARM Cortex™-A53 Processor



Features

- NXP® ARM® Cortex™-A53 i.MX 8M Mini quad-core processor
- 7", 10.1" and 15.6" 16:9 LCD with multi-touch P-CAP and true-flat IP66-rated front panel
- Up to 2 GB DDR4 RAM and 16 GB eMMC storage onboard
- 2 x 10/100/1000 Mbps LANs with optional IEEE 802.3at/af PoE-PD module support (7", 10.1")
- 1 mb FRAM backup memory for unexpected power interruptions
- 2 x Serial port with 120Ω termination resistor that one supports the CAN 2.0B protocol and offers a programmable bit rate of up to 1 Mb/sec
- Embedded browser and for rapid Web App development
- Supports Linux Yocto and Android
- Optional and mPCIe expansion modules
- Compatible with VESA and panel mounting
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)



International Energy Conservation and Eco Label

Energy Star label: Since 2009, Advantech's specific models have met the Energy Star international energy conservation and eco label. The models introduced in the past five years are shown in the table below.

Product model	Product category
ESY152, ESY15i5, ESY22i2, EY22i5	Panel PC Industrial computer equipment with panel
ESY20X2; ESY20X3; ESY20X5; ESY20X7	
ESY15X2; ESY15X3; ESY15X7; ESY17X2; ESY17X3; ESY17X7; ESY15X5	
ESY15i2, ESY15i5, ESY22i2, ESY22i5	
AIM-37AC, AIM8IAC, AIM8I, AIM 10W	
DSDM-055FD-45NE-V, DSDM-155FD-45NE-V	
DSDW-049FD-45NE-V	
GSC-7152W, GSC-7152W-C3AE	
AIM-75	
DS-085	
AIR-150	Edge Computer
ARK-1125C	

Advantech's Representative Model Achieving the Silver Medal for Green Eco Design Products in 2023

Advantech has responded to international trends in carbon reduction and low energy consumption regulations since 2020. Advantech has established the Green Eco Design standard - Advantech Green ECO Design Guideline. By 2023, models that adopted green eco design standard voluntarily are shown in the figure below.



Advantech's 2023 Product Carbon Footprint

Advantech obtained the SPC-815 carbon footprint ISO 14067 certification for the first product in 2023Q2



< SPC-815

15.6" Integrated-Button Panel Computer

- Intel® Core™ i3-6100U 2.3 GHz (dual-core) processor
- Silicone-free enclosure with all-round IP65-rated protection
- Supports the RAFI FS22+ Series pushbuttons
- Supports CP 40 (Rittal) and CS-480 B.Flex (Bernstein) mount standards
- Supports the CP 40 (Rittal) and CS-480 (Bernstein) support arm system standards
- Front-facing USB port and Reset button for easy access and maintenance
- PCAP multi-touch control

Certifications



Calculation Standards for Various Environmental Indicators

New Product Green Eco Design Ratio	
Numerator	The number of models that have passed the four aspects of Green Eco Design in the past two years (2022-2023)
Denominator	Number of new models mass-produced in the past two years (2022-2023)
Percentage of Revenue from Advantech Green Eco Design Products/ Energy Saving Labels	
Numerator	Total revenue from shipment of the models that obtain Advantech's green eco design standard labels or energy-saving labels of the current year
Denominator	The Company's total revenue from shipments of the current year
Percentage of Revenue from Products Compliant with Type I Significant Eco Labels (Energy Star/CE ErP)	
Numerator	The revenue generated from the sales of products compliant with, certified by, or previously certified by ENERGY STAR® and CE ErP in the respective years
Denominator	The Company's total revenue from shipments of the current year
Percentage of halogen-free Mechanical plastic components	
Numerator	Number of halogen-free Mechanical plastic components of all product shipments from 2021 to 2023
Denominator	Number of Mechanical plastic components of all product shipments from 2021 to 2023
Calculation Method of Product Recycling Rate	
Numerator	The weight of recycling in each country, including estimates based on the proportion of recovery fees, and calculations of global recycling rates based on the Global Transboundary E-waste Flows Monitor.
Denominator	Annual total weight of products shipped
Calculation Method of Product Recyclability Rate (Note: The recyclability rate is estimated using the WEEE calculation tool).	
Average Value	Based on the count by product category, calculate the average for proportion of recyclability for the product
Calculation of product recycling financial benefit	
Unit price	European recyclers offer the Finland reward estimation method and the reward is 51 Euros/ton.
Multiple	Annual total weight of products shipped from Finland (metric tons)

Appendix 8: Employee Structure

2023 Number of Employees

Region	Taiwan	China		Japan	Korea	Europe	United States	Other regions	Global total
		ACN	AKMC (Kunshan)						
Number of employees	3,588	1,223	2,134	232	129	525	536	462	8,829
Remark			Manufacturing Center						

***Note:**

1. The number of employees does not include those in the affiliates.
2. The scope of this report only discloses information on the six major regions. The "Global Total" column shows the total number of Advantech employees in the six major regions and other regions around the world.
3. Regions that are not considered significant locations of operation (Headquarters, Advantech China, Advantech Japan, Advantech Korea, Advantech Europe, and Advantech USA) are Indonesia, Mexico, India, Czech Republic, Australia, Malaysia, Singapore, Thailand, Russia, Turkey, Brazil, United Arab Emirates, Vietnam, Canada, and Israel. "Other Regions" mentioned below have the same definition.

Region	Item		Male		Female		Non-disclosure of Gender		Total
			Number	Proportion	Number	Proportion	Number	Proportion	
Taiwan	Employees	Number of people in the Company	1,988	55.41%	1,600	44.59%	0	—	3,588
	Job levels	Senior manager	84	85.71%	14	14.29%	0	—	98
		Manager	312	77.61%	90	22.39%	0	—	402
		Staff	1,592	51.55%	1,496	48.45%	0	—	3,088
	Age of employees	below 30	233	45.42%	280	54.58%	0	—	513
		31-49	1,403	56.82%	1,066	43.18%	0	—	2,469
		over 50	352	58.09%	254	41.91%	0	—	606
	Full-time position and contract position	Full-time position	1,953	55.34%	1,576	44.66%	0	—	3,529
		Full-time contract position	11	52.38%	10	47.62%	0	—	21
		Intern/Part-time	24	63.16%	14	36.84%	0	—	38
	Function	R&D	1,196	78.07%	336	21.93%	0	—	1,532
		Marketing	124	39.24%	192	60.76%	0	—	316
		Administration	187	38.56%	298	61.44%	0	—	485
		Manufacturing (direct + indirect)	481	38.33%	774	61.67%	0	—	1,255
China	Employees	Number of people in the Company	1,884	56.12%	1,473	43.88%	0	—	3,357
	Job levels	Senior manager	22	78.57%	6	21.43%	0	—	28
		Manager	68	61.82%	42	38.18%	0	—	110
		Staff	1,794	55.73%	1,425	44.27%	0	—	3,219
	Age of employees	below 30	348	61.16%	221	38.84%	0	—	569
		31-49	1,417	53.57%	1,228	46.43%	0	—	2,645
		over 50	119	83.22%	24	16.78%	0	—	143
	Full-time position and contract position	Full-time position	1,883	56.13%	1,472	43.87%	0	—	3,355
		Full-time contract position	1	100%	0	—	1	—	0
		Intern/Part-time	0	—	1	100.00%	0	—	1
	Function	R&D	407	65.33%	216	34.67%	0	—	623
		Marketing	303	59.06%	210	40.94%	0	—	513
		Administration	155	41.44%	219	58.56%	0	—	374
		Manufacturing (direct labor)	1,019	55.17%	828	44.83%	0	—	1,847

Region	Item		Male		Female		Non-disclosure of Gender		Total
			Number	Proportion	Number	Proportion	Number	Proportion	
Japan	Employees	Number of people in the Company	158	68.10%	74	31.90%	0	—	232
	Job levels	Senior manager	7	77.78%	2	22.22%	0	—	9
		Manager	17	100.00%	0	-	0	—	17
		Staff	134	65.05%	72	34.95%	0	—	206
	Age of employees	below 30	9	69.23%	4	30.77%	0	—	13
		31-49	56	54.90%	46	45.10%	0	—	102
		over 50	93	79.49%	24	20.51%	0	—	117
	Full-time position and contract position	Full-time position	143	67.45%	69	32.55%	0	—	212
		Full-time contract position	15	75.00%	5	25.00%	0	—	20
		Intern/Part-time	0	—	0	—	0	—	0
	Function	R&D	32	91.43%	3	8.57%	0	—	35
		Marketing	62	72.09%	24	27.91%	0	—	86
		Administration	13	39.39%	20	60.61%	0	—	33
		Manufacturing (direct labor)	51	65.38%	27	34.62%	0	—	78
Korea	Employees	Number of people in the Company	87	67.44%	42	32.56%	0	—	129
	Job levels	Senior manager	9	90.00%	1	10.00%	0	—	10
		Manager	10	90.91%	1	9.09%	0	—	11
		Staff	68	62.96%	40	37.04%	0	—	108
	Age of employees	below 30	22	51.16%	21	48.84%	0	—	43
		31-49	51	72.86%	19	27.14%	0	—	70
		over 50	14	87.50%	2	12.50%	0	—	16
	Full-time position and contract position	Full-time position	78	68.42%	36	31.58%	0	—	114
		Full-time contract position	9	60.00%	6	40.00%	0	—	15
		Intern/Part-time	0	—	0	—	0	—	0
	Function	R&D	19	86.36%	3	13.64%	0	—	22
		Marketing	31	50.82%	30	49.18%	0	—	61
		Administration	9	52.94%	8	47.06%	0	—	17
		Manufacturing (direct labor)	28	96.55%	1	3.45%	0	—	29
Europe	Employees	Number of people in the Company	345	65.71%	180	34.29%	0	—	525
	Job levels	Senior manager	20	90.91%	2	9.09%	0	—	22
		Manager	38	82.61%	8	17.39%	0	—	46
		Staff	287	62.80%	170	37.20%	0	—	457
	Age of employees	below 30	31	62.00%	19	38.00%	0	—	50
		31-49	200	61.54%	125	38.46%	0	—	325
		over 50	114	76.00%	36	24.00%	0	—	150
	Full-time position and contract position	Full-time position	344	65.90%	178	34.10%	0	—	522
		Full-time contract position	1	50.00%	1	50.00%	0	—	2
		Intern/Part-time	0	—	1	100.00%	0	—	1
	Function	R&D	91	90.10%	10	9.90%	0	—	101
		Marketing	145	63.60%	83	36.40%	0	—	228
		Administration	46	40.00%	69	60.00%	0	—	115
		Manufacturing (direct labor)	63	77.78%	18	22.22%	0	—	81

Region	Item		Male		Female		Non-disclosure of Gender		Total
			Number	Proportion	Number	Proportion	Number	Proportion	
United States	Employees	Number of people in the Company	342	63.81%	183	34.14%	11	2.05%	536
	Job levels	Senior manager	18	78.26%	5	21.74%	0	—	23
		Manager	102	79.69%	26	20.31%	0	—	128
		Staff	222	57.66%	152	39.48%	11	2.86%	385
	Age of employees	below 30	42	56.00%	27	36.00%	6	8.00%	75
		31-49	157	61.09%	98	38.13%	2	0.78%	257
		over 50	143	70.10%	58	28.43%	3	1.47%	204
	Full-time position and contract position	Full-time position	339	64.82%	183	34.99%	1	0.19%	523
		Full-time contract position	2	16.67%	0	—	10	83.33%	12
		Intern/Part-time	1	100.00%	0	—	0	—	1
	Function	R&D	86	81.13%	19	17.92%	1	0.94%	106
		Marketing	133	62.44%	70	32.86%	10	4.69%	213
		Administration	49	41.53%	69	58.47%	0	—	118
		Manufacturing (direct labor)	74	74.75%	25	25.25%	0	—	99
Other regions	Employees	Number of people in the Company	322	69.70%	140	30.30%	0	—	462
	Job levels	Senior manager	9	81.82%	2	18.18%	0	—	11
		Manager	35	71.43%	14	28.57%	0	—	49
		Staff	278	69.15%	124	30.85%	0	—	402
	Age of employees	below 30	103	75.18%	34	24.82%	0	—	137
		31-49	180	65.93%	93	34.07%	0	—	273
		over 50	39	75.00%	13	25.00%	0	—	52
	Full-time position and contract position	Full-time position	306	70.51%	128	29.49%	0	—	434
		Full-time contract position	6	66.67%	3	33.33%	0	—	9
		Intern/Part-time	10	52.63%	9	47.37%	0	—	19
	Function	R&D	114	95.00%	6	5.00%	0	—	120
		Marketing	124	67.03%	61	32.97%	0	—	185
		Administration	38	35.85%	68	64.15%	0	—	106
		Manufacturing (direct labor)	46	90.20%	5	9.80%	0	—	51

***Note:**

1. The denominators of the above percentages are all the total number of employees in the region.
2. As of December 31, 2023, there is no significant change in the total number of people in 2022.
3. In the above chart, permanent employees are included in “full-time position”; temporary employees are included in “contract position”; part-time employees are “intern”; there is no non-guaranteed hours employees.
4. Advantech conducted the Global Job Band alignment in 2022, where job bands are globally divided into A to H, managers (manager) are classified as E, and senior executives (including assistant vice president and above) are classified as F (inclusive) and above.
5. For some employees in the USA who chose not to disclose their gender, the column of “Non-disclosure of Gender” has been added to the chart.

Appendix 9: Third Party Verification Statement



ASSURANCE STATEMENT

SGS TAIWAN LTD.'S REPORT ON SUSTAINABILITY ACTIVITIES IN THE ADVANTECH CO., LTD.'S CORPORATE SUSTAINABILITY REPORT FOR 2023

NATURE AND SCOPE OF THE ASSURANCE

SGS Taiwan Ltd. (hereinafter referred to as SGS) was commissioned by Advantech Co., Ltd. (hereinafter referred to as Advantech) to conduct an independent assurance of the Corporate Sustainability Report for 2023. The scope of assurance is based on the SGS Sustainability Report Assurance methodology and AA1000 Assurance Standard v3 Type 2 high level to assess whether the text and data in accompanying tables contained in the report and complies with the GRI Standards and AA1000 Accountability Principles (2018), Taiwan Stock Exchange Corporation (the "TWSE") Industrial Sustainability Indicators and Sustainability Accounting Standards (SASB) during on-site assurance in the period of 21 March 2024 to 30 April 2023 (in Advantech headquarter. The boundary of this report includes Advantech Taiwan and oversea operational and production or service sites' specific performance data included the sampled text, and data in accompanying tables, contained in the report presented. The assurance process did not include the evaluation of specific performance information outside the scope, such as climate-related financial disclosures (TCFD). SGS reserves the right to update the assurance statement from time to time depending on the level of report content discrepancy of the published version from the agreed standards requirements.

INTENDED USERS OF THIS ASSURANCE STATEMENT

This Assurance Statement is provided with the intention of informing all Advantech's Stakeholders.

RESPONSIBILITIES

The information in the Advantech's Corporate Sustainability Report of 2023 and its presentation are the responsibility of the directors or governing body (as applicable) and management of Advantech. SGS has not been involved in the preparation of any of the material included in the Corporate Sustainability Report.

Our responsibility is to express an opinion on the report content within the scope of assurance with the intention to inform all Advantech's stakeholders.

ASSURANCE STANDARDS, TYPE AND LEVEL OF ASSURANCE

The SGS ESG & Sustainability Report Assurance protocols used to conduct assurance are based upon internationally recognized assurance guidance and standards including the principles of reporting process contained within the Global Reporting Initiative Sustainability Reporting Standards (GRI Standards) GRI 1: Foundation 2021 for report quality, GRI 2 General Disclosure 2021 for organisation's reporting practices and other organizational detail, GRI 3 2021 for organisation's process of determining material topics, its list of material topics and how to manages each topic, and the guidance on levels of assurance contained within the AA1000 series of standards.

The assurance of this report has been conducted according to the following Assurance Standards:

Assurance Standard Options	Level of Assurance	
A	SGS ESG & SRA Assurance Protocols (based on GRI Principles and guidance in AA1000)	n/a
B	AA1000ASv3 Type 2 (AA1000AP Evaluation plus evaluation of Specified Performance Information)	High
C	Taiwan Stock Exchange Corporation (the "TWSE") Sustainability Indicators for Hardware Industries	n/a
D	Sustainability Accounting Standards (SASB), HARDWARE, VERSION 2023-12	n/a

SCOPE OF ASSURANCE AND REPORTING CRITERIA

The scope of the assurance included evaluation of quality, accuracy and reliability of specified performance information as detailed below and evaluation of adherence to the following reporting criteria:

Reporting Criteria Options	
1	GRI Standards (Reference)
2	AA1000 Accountability Principles (2018)
3	Taiwan Stock Exchange Corporation (the "TWSE") Sustainability Indicators for Hardware Industries
4	SASB (HARDWARE, VERSION 2023-12)

- The evaluation includes AA1000 Assurance Standard v3 Type 2 evaluation of the report content and supporting management systems against the AA1000 Accountability Principles (2018).
- The evaluation of the reliability and quality of specified sustainability performance information in Advantech's Corporate Sustainability Report is limited to determined material topics or those clearly marked in the report as conducted in accordance with type 2 of AA1000AS v3 sustainability assurance engagement at a high level of scrutiny for Advantech and moderate level of scrutiny for its subsidiaries or joint ventures
- The evaluation of the report against the requirements of GRI Standards, includes GRI 1, GRI 2, GRI 3, 200, 300 and 400 series claimed in the GRI content index as material and is conducted in accordance with the standards.
- The evaluation of the report against the requirements of GRI Standards is listed in the GRI content index as material in the report and is conducted with Reference to the Standards.
- The evaluate of the report against the Taiwan Stock Exchange Corporation (the "TWSE") Sustainability Indicators for Hardware Industries and conducted alongside an evaluation of accuracy assurance at moderate level of scrutiny.
- The evaluation of the report against the SASB Disclosures and Metrics included in the HARDWARE , Sustainability Accounting Standard (VERSION 2023-12) and conducted alongside an evaluation of accuracy assurance at moderate level of scrutiny.

ASSURANCE METHODOLOGY

The assurance comprised a combination of pre-assurance research, interviews with relevant employees, superintendents, Sustainability Development committee members and the senior management in Taiwan; documentation and record review and validation with external bodies and/or stakeholders where relevant.

LIMITATIONS AND MITIGATION

Financial data drawn directly from independently audited financial accounts, Task Force on Climate-related Financial Disclosures (TCFD) has not been checked back to source as part of this assurance process.

STATEMENT OF INDEPENDENCE AND COMPETENCE

The SGS Group of companies is the world leader in inspection, testing and assurance, operating in more than 140 countries and providing services including management systems and service certification; quality, environmental, social and ethical auditing and training; environmental, social and sustainability report assurance. SGS affirm our independence from Advantech, being free from bias and conflicts of interest with the organisation, its subsidiaries and stakeholders.

The assurance team was assembled based on their knowledge, experience and qualifications for this assignment, and comprised auditors registered with ISO 26000, ISO 20121, ISO 50001, SA8000, RBA, QMS, EMS, SMS, GPMS, CFP, WFP, GHG Verification and GHG Validation Lead Auditors and experience on the SRA Assurance service provisions.

ASSURANCE/VERIFICATION OPINION

On the basis of the methodology described and the assurance work performed, we are satisfied that the disclosure with inclusivity, materiality, responsiveness, and impact information in the scope of assurance is reliable, has been fairly stated and has been prepared, in all material respects, in accordance with the reporting criteria. We believe that the organisation has chosen an appropriate level of assurance for this stage in their reporting.

AA1000 ACCOUNTABILITY PRINCIPLES (2018) CONCLUSIONS, FINDINGS AND RECOMMENDATIONS

Inclusivity

Advantech has demonstrated a good commitment to stakeholder inclusivity and stakeholder engagement. A variety of engagement efforts such as survey and communication to employees, customers, business partners, universities and research institutes, suppliers and contractors, media and associations and governments, shareholders and investment institutions, communities and non-profit organizations are implemented to underpin the organization's understanding of stakeholder concerns. For future reporting, Advantech may proactively consider having more direct two-ways involvement of stakeholders during future engagement.

Materiality

Advantech has established effective processes for determining issues that are material to the business. Formal review has identified stakeholders and those issues that are material to each group and the report addresses these at an appropriate level to reflect their importance and priority to these stakeholders.

Responsiveness

The report includes coverage given to stakeholder engagement and channels for stakeholder feedback.

Impact

Advantech has demonstrated a process on identify and fairly represented impacts that encompass a range of environmental, social and governance topics from wide range of sources, such as activities, policies, programs, decisions and products and services, as well as any related performance. Measurement and evaluation of its impacts related to material topic were in place at target setting with combination of qualitative and quantitative measurements.

GLOBAL REPORTING INITIATIVE REPORTING STANDARDS CONCLUSIONS, FINDINGS AND RECOMMENDATIONS

The report, Advantech's Corporate Sustainability Report of 2023, is reporting with Reference to the GRI Standards 2021 and complies with the requirements set out in Section 3 of GRI 1 Foundation 2021. The significant impacts were assessed and disclosed with reference to the guidance defined in GRI 3: Material Topic 2021 and the relevant 200/300/400 series Topic Standard related to Material Topic have been disclosed. The report has properly disclosed information related to Advantech's contributions to sustainability development. For future reporting, Advantech is encouraged to prepare for the transition to reporting in accordance with the GRI Standards, with more comprehensive details of its management processes on the identified impacts on the economy, environment, and people, including impacts on their human rights. In addition, Advantech can enhance their environmental, social and governance due diligence process, such as how to prevent and mitigate the negative impacts. Some employee care activities can expand to outside Taiwan, e.g. Employee Assistance Programs (EAPs) and Employee Health Initiatives.

TWSE Sustainability Indicators CONCLUSIONS, FINDINGS AND RECOMMENDATIONS

Advantech has referenced with TWSE Sustainability Indicators for Hardware Industries to disclose information of material topics that are vital for enterprise value creation. The reporting boundaries of the disclosed information correspond to the financial data reported in Advantech's audited consolidated financial statements of 2023. Advantech used TWSE Sustainability Indicators to assess and manage the topic-related risks and opportunities, where relevant quantitative information was assessed for its accuracy and completeness to support the comparability of the data reported. Process to identify, assess, and manage topic-related risks and opportunities were integrated into Advantech's overall management process.

SASB CONCLUSIONS, FINDINGS AND RECOMMENDATIONS

Advantech has referenced with SASB's Standard, HARDWARE, VERSION 2023-12 to disclose information of material topics that are vital for enterprise value creation. The reporting boundaries of the disclosed information correspond to the financial data reported in Advantech's audited consolidated financial statements. Advantech used SASB accounting and activity metrics to assess and manage the topic-related risks and opportunities, where relevant quantitative information was assessed for its accuracy and completeness to support the comparability of the data reported. Process to identify, assess, and manage topic-related risks and opportunities were integrated into Advantech's overall management process.

Signed:
For and on behalf of SGS Taiwan Ltd.



Stephen Pao
Business Assurance Director
Taipei, Taiwan
30 May, 2024
WWW.SGS.COM



AA1000
Licensed Report
000-8/V3-Z7AEO

Appendix 10: Third Party Assurance Report



Independent Limited Assurance Report

PWCM 23000607

To Advantech Co., Ltd.

We have been engaged by Advantech Co., Ltd. (the “Company”) to perform assurance procedures in respect of the key performance indicators identified by the Company and reported in the 2023 Sustainability Report (hereinafter referred to as the “**Identified Key Performance Indicators**”) and have issued a limited assurance report based on the result of our work performed.

Subject Matter Information and Applicable Criteria

The subject matter information is the Identified Key Performance Indicators of the Company. The Identified Key Performance Indicators and the respective applicable criteria are stated in the “Summary of Subject Matter Assured” on page 259 of the Sustainability Report. The scope of the Identified Key Performance Indicators is set out in the “Report Boundaries and Scope” on page 2 of the Sustainability Report.

The respective applicable criteria referred to above are the Taiwan Stock Exchange Corporation Rules Governing the Preparation and Filing of Sustainability Reports, FAQ issued by TWSE Listed Companies, related laws and regulations, the latest edition of the GRI Sustainability Reporting Standards (the “**GRI Standards**”) published by the Global Reporting Initiative (the “**GRI**”) and the other criteria referred to or designed by the Company based on the Company’s industry characteristics and sustainability performance information reported (hereinafter referred to as the “**Applicable Criteria**”).

Management’s Responsibility

The Management of the Company is responsible for the preparation of the Identified Key Performance Indicators disclosed in the Sustainability Report in accordance with the Applicable Criteria. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of the Identified Key Performance Indicators that are free from material misstatement, whether due to fraud or error.

Inherent Limitation

Certain subject matter information assured involves non-financial data which is subject to more inherent limitations than financial information. Qualitative interpretations of the relevance, materiality and the accuracy of data are more dependent on individual assumptions and judgments.

資誠聯合會計師事務所 PricewaterhouseCoopers, Taiwan
110208 臺北市信義區基隆路一段333號27樓
27F, No. 333, Sec. 1, Keelung Rd., Xinyi Dist., Taipei 110208, Taiwan
T: +886 (2) 2729 6666, F: +886 (2) 2729 6686, www.pwc.tw



Compliance of Independence and Quality Management Requirement

We are independent of the Company in accordance with the Norm of Professional Ethics for Certified Public Accountant of the Republic of China, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

Our firm applies the Standard on Quality Management 1, “Quality Management for Public Accounting Firms” of the Republic of China, which 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.

Our Responsibility

Our responsibility is to express a limited assurance conclusion on the Identified Key Performance Indicators based on the procedures we have performed and the evidence we have obtained. We conducted our limited assurance engagement in accordance with the Standard on Assurance Engagements 3000, “*Assurance Engagements other than Audits or Reviews of Historical Financial Information*” of the Republic of China. This standard requires that we plan and perform this engagement to obtain limited assurance about whether the Identified Key Performance Indicators are free from material misstatement.

Under the requirements of the aforementioned standards, our limited assurance engagement involves assessing the suitability in the circumstances of the Company’s use of the criteria as the basis for the preparation of the Identified Key Performance Indicators, assessing the risks of material misstatement of the Identified Key Performance Indicators whether due to fraud or error, responding to the assessed risks as necessary in the circumstances and evaluating the overall presentation of the Identified Key Performance Indicators. A limited assurance engagement is substantially less in scope than a reasonable assurance engagement in relation to both the risk assessment procedures, including an understanding of internal control, and the procedures performed in response to the assessed risks.

The procedures we performed were based on our professional judgment and included inquiries, observation of processes performed, inspection of documents, and agreeing or reconciling with underlying records.

Given the circumstances of the engagement, in performing the procedures listed above, we:

- Made inquiries of the persons responsible for the Identified Key Performance Indicators to obtain an understanding of the processes and the relevant internal controls relating to the preparation of the aforementioned information, to identify the areas where there may be risks of material misstatement; and



- Based on the above understanding and the areas identified, samples of the Identified Key Performance Indicators have been tested through inquiries, observations, inspections, and other procedures to obtain evidence for limited assurance.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement. Accordingly, we do not express a reasonable assurance opinion about whether the Company's Identified Key Performance Indicators have been prepared, in all material respects, in accordance with the respective applicable criteria.

We also do not provide any assurance on the Sustainability Report as a whole or on the design or operating effectiveness of the relevant internal controls. Furthermore, our assurance does not extend to information disclosed in the Sustainability Report for the period ended December 31, 2022 or prior periods.

Limited Assurance Conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Identified Key Performance Indicators in the Sustainability Report are not prepared, in all material respects, in accordance with the Applicable Criteria.

Other Matter

The Management of the Company is responsible for maintaining the Company's website. We have no responsibility to re-perform any procedures regarding the Identified Key Performance Indicators after the date of our assurance report, even if the Identified Key Performance Indicators or the Applicable Criteria have been subsequently modified.

Chao, Yung-Chieh
CHAO, YUNG-CHIEH
Partner
For and on behalf of PricewaterhouseCoopers, Taiwan
July 29, 2024

Advantech Co.,Ltd. Summary of Subject Matters Assured

No	Subject Matter Assured	Information	Page	Applicable Criteria
1	Average training hours for employees	In 2023, the average training time per person was 94.1 hours. (Note 1)	160-162	The statistical data of average training hours in 2023 according to Advantech's regulation of education and training divided by the total number of employees at the end of 2023.
2	Types, number of people and ratio of occupational accidents	Includes statistics of occupational injury of Advantech's employees, categories of occupational injury of Advantech's employees and statistics of occupational injury of non-Advantech's employees.	195-196	Please refer to the content of the sustainability report.
3	Aggregate amount of pecuniary damages resulting from legal proceedings relating to anticompetitive conduct regulations	The overall number of incidents for "Incidents of anti-competitive behavior, antitrust and monopoly behavior, and market manipulation" in 2023 is 0. Therefore, no monetary loss due to litigation.	38	Total pecuniary damages in 2023 resulting from legal proceedings relating to anticompetitive conduct regulations.
4	Ratio of significant suppliers that have signed the "Agreement for Advantech Supplier Code of Conduct"	100% of significant suppliers have signed the "Agreement for Advantech Supplier Code of Conduct"	50	The ratio of significant suppliers at ACL and AKMC that have signed the "Agreement for Advantech Supplier Code of Conduct"
5	The amount of fines imposed for violating environmental laws and regulations	In 2023, there was no fine imposed for violating environmental laws and regulations.	137	The amount of fines imposed for violating environmental laws and regulations related to environmental protection.
6	Disposal volume of total wastes outsourced (metric tons)	The total waste disposal volume in 2023 was 1,101.56 metric tons.(Note 2)	142	Please refer to the content of the sustainability report.

*Note 1: Round training hours for employees to one decimal place.

*Note 2: Round total wastes outsourced to two decimal place.