



CH1 Sustainable Development

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1.1 About Asia Polymer

APC Introduction

The APC (Stock code: 1308) was established on January 25, 1977, with its operational headquarters based in Taipei. In response to the government's policy of promoting investment intention, we constructed a polyethylene plant in the Linyuan Petrochemical Industrial Park in Kaohsiung. Its primary business focuses on the development, manufacturing, and sales of low-density polyethylene resin and ethylene vinyl acetate copolymer resin.

After two production line expansions in May 1984 and September 2015, the current annual production capacity is 145,000 MT.

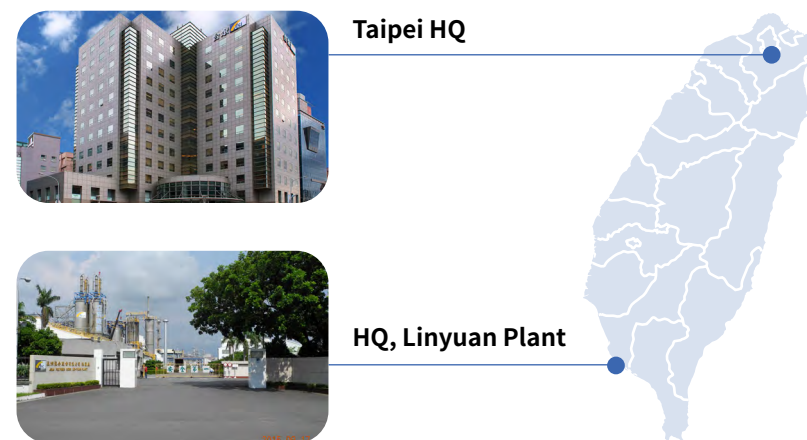
In compliance with the "Autonomous Ordinance for the Management of Existing Industrial Pipelines in Kaohsiung City", corporate headquarters were relocated to the Linyuan Plant in Kaohsiung in June 2016.

Basic Information GRI 2-1, 2-8

Name of Company	Asia Polymer Corporation
Establishment Date	January 25, 1977
Industry	Plastics industry
Chairman	Quintin Wu
President	Wu, Pei-Chi
Capital	NT\$ 5.937 billion
Number of employees	234 people (As of December 31, 2024)
Head Office	No. 3, Industrial 1st. Rd., Linyuan Dist., Kaohsiung City
Taipei HQ	12F, No. 37, Jihu Rd., Neihu Dist., Taipei City
Kaohsiung City Revenue	NT\$ 6,031 million
Total Production	131,105 MT
Major Products	Low Density Polyethylene Resin (LDPE) Ethylene Vinyl Acetate Copolymer Resin (EVA)

Geographical Distribution of the Organization GRI 2-1

Asia Polymer's major operational hubs are all located in Taiwan, including Taipei HQ and the Linyuan Plant. Taipei HQ oversees product sales, whereas the Linyuan Plant is dedicated to research and development, product manufacturing, and shipment.



Operational Deployment

With visions of becoming the leader of EVA manufacturing, APC has kept innovative R&D capabilities in Taiwan, developing higher-valued products and high-end applications, in addition to remaining flexible in adjusting its product portfolio to meet market demands. Besides the aforementioned, APC has also set its sights on the Greater China market, enhancing global market competitiveness through re-investing in the "Gulei Integrated Refinery Project" in Zhangzhou, Fujian, through a third area, vertically integrating steam cracking, petrochemical intermediate materials, and plastic products, combined with investments in the Port of Kaohsiung Intercontinental storage and transportation project Phase II to reduce transportation costs and boosting competitive niche.

Corporate History



1977

- Company Establishment
- Constructed a polyethylene plant in the Linyuan Petrochemical Industrial Park in Kaohsiung.

1994

- Passed the ISO 9002 certification.

1997

- BTRN Asia transferred 51% of its shares to Bermuda Belgravia One Limited co-invested by USI and the UPC Technology Corporation.

1998

- Passed the ISO 14001 certification.



2011

- The Board passed the construction of a 45,000MT EVA production line in the Linyuan Plant.

2016

- Relocated the head office to the Linyuan Plant in Kaohsiung
- Completed and started the commercial operation of the 4th EVA production line.

2017

- Started the construction of the Gulei Project in Fujian.

2019

- The Board passed the investment in the Kaohsiung Intercontinental Container Terminal Project Phase II.
- Passed the ISO 50001 certification.
- Passed the ISO 45001 certification.



1970

1980

1990

2000

2010

2020

1984

- The 3rd production line was constructed and started mass production.

1986

- Listed as a stock exchange on the Taiwan Stock Exchange (TWSE).
- Australian BTR NYLEX invested in APC and acquired 51% of our shares and transferred the shares to its subsidiary, BTRN Asia, in the same year.

2001

- Passed the OHSAS 18001 certification.

2009

- Passed the SONY GP certification.

2021

- Implemented the Process Safety Management (PSM) system.

2022

- Completed the ISO 14064-1 GHG inventory and verification of the APC Linyuan Plant.

2023

- The Gulei Integrated Refinery Project has been completed and is fully operational.

2024

- Completion of the Ethylene Underground Pipelines construction of the second phase of Kaohsiung Intercontinental port area.
- Passed ISO 14021 certification

Major Products GRI 2-6

Asia Polymer operates in the plastics industry, mainly producing the following two types of resins: low density polyethylene (LDPE) and ethylene vinyl acetate copolymer resin (EVA).

LDPE can be divided by application into film grade, injection grade, and lamination grade.

Film Grade: Various packaging films and extruded tubes made by blowing or casting.

Injection Grade: Artificial flowers and plastic household products made through injection molding, and bicycle cargo racks / baskets and other processing products such as foam nets and microfiber made through powder coating.

Lamination Grade: Packaging materials for processed foods/beverages and release paper made through lamination/coating, etc.

APC's 2024 LDPE output: 43,479 MT; Sales: 45,248 MT.

EVA can be divided by application into foaming grade, PV grade, and lamination grade

Foaming Grade: Shoe insole materials made through injection molding or compression molding.

PV Grade: PV battery module packaging film made through extrusion molding.

Lamination Grade: Coating on BOPP, PET substrates to produce pre-coating, card laminate, and packaging material products.

Hot Melt Adhesive Grade: Hot melt adhesive.

APC's 2024 EVA output: 87,626 MT; Sales: 87,656 MT.

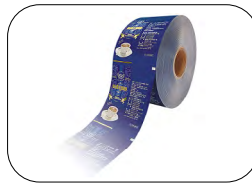
LDPE Applications



Packaging films



Medical extrusion tubes

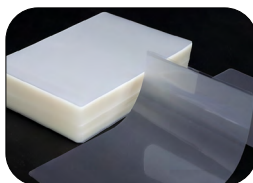


Colored laminations



Candy jars

EVA Applications



Card laminating



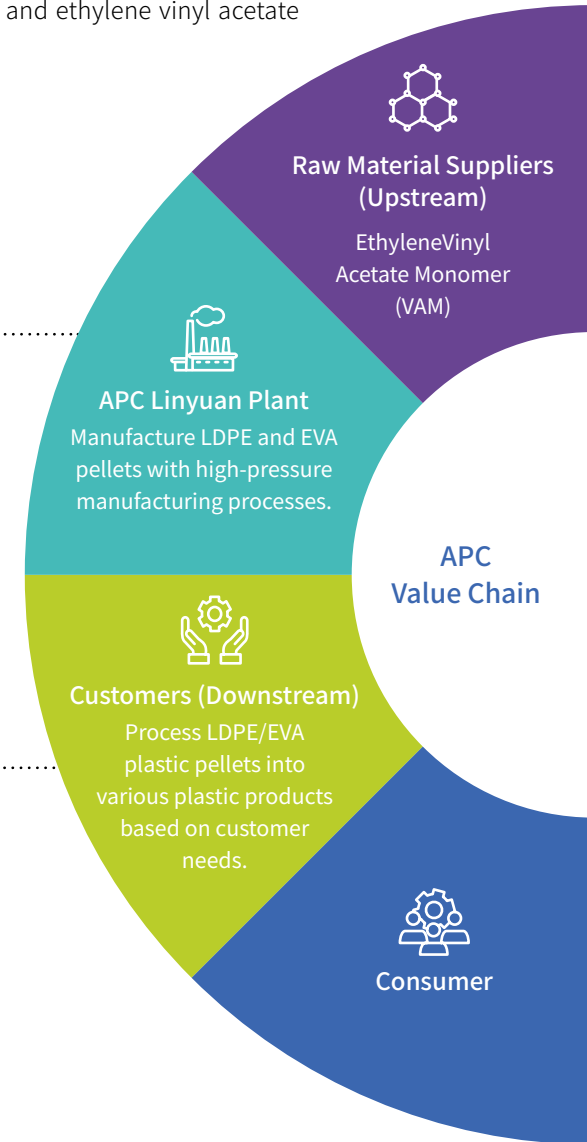
PV module packaging films



Foamed shoe materials



Hot melt adhesives



Business Philosophy and Goals

As a member of USIG, APC upholds USI's business philosophy: "Solid operations, professional management, seeking excellence, and serving society" to pursue operational excellence and sustainable development. Through investment in upstream material ethylene and continual product innovation and R&D, we stabilize the supply of raw materials and fulfill product customization of customers to create economic benefits and enhance production efficiency, with the ultimate goal of achieving the vision of corporate sustainable operations and social responsibility.



APC Sustainability Strategy

Innovative Technology
Through continual improvement of product quality and new product development, we aim to become market pioneers.

Sustainable Development
Through continual process improvement, energy conservation, and waste reduction, we promote environmental sustainability and survival.

Safety and Harmony
Through building a safe and harmonious workplace environment and public welfare participation, we fulfill our corporate social responsibility.

Membership Associations GRI 2-28

Industry intelligence exchange is a drive for corporate growth. APC actively participates in various professional groups and enhance influence by collaborating with external powers. Through such interaction and business association, we share and promote professional technologies and competencies in various fields. We also sponsor associations to publish journals and organize activities so as to promote industry development.

Major External Associations Participated by APC in 2024

Name of Organization	Petrochemical Industry Association of Taiwan	Taiwan Synthetic Resins Manufacturers Association	Taiwan Responsible Care Association (TRCA)	Industrial Safety and Health Association of the ROC	Kaohsiung Industrial Association
Member	●	●	●	●	●
Supervisor/Director	●		●		

1.2 Sustainable Development Visions and Goals

USIG Vision: Create sustainable value for a sustainable society.

We aim to continuously create and concentrate sustainable value through our core competencies, thereby contributing to social sustainability.



The three core strategies derived from the Sustainable Development Visions and Goals: "R&D Innovation," "Solid Operations," and "Social Inclusion," with the aim of co-creating value with stakeholders. We continue the development of Core Strategy Contents by focusing on 7 Key Topics, and collaboratively build a foundation with partners who embody integrity and insight.

APC Sustainability Vision	Leader of Innovation and Sustainability
Principles of Sustainable Strategy	Innovative Technology, Sustainable Development, Safety and Harmony
Sustainability Approaches	Create economic benefits, Good Corporate Governance, Enhance production efficiency, Environmental sustainability and survival, people-oriented management, ESG fulfillment

As a member of USIG, APC follows the group's Sustainable Development Visions and Goals (GRI 2-23), establishing APC's sustainable development vision under the group's business philosophy and cultural characteristics. APC formulates sustainable strategy principles and guidelines, integrating USIG's key topics as the basis for APC to pursue its vision and goals



Respond to the United Nations Sustainable Development Goals GRI 2-24

With the core values of sustainable development as a basis, and integrating the United Nations Sustainable Development Goals (SDGs) with Asia Polymer's sustainability approaches, we identify the relevance of sustainability approaches to the SDGs through the three stages of "Analysis and Identification," "Goal Setting," and "Response and Disclosure," and set related goals to incorporate them into operations management.



Analysis and Identification 9 corresponding SDGs of APC

- We analyzed and identified the corresponding SDGs based on the results of material issues identification and during operations.
- In 2024, there were 9 corresponding SDGs.



Goal Setting 26 Sustainability Indicators

- By linking SDGs with APC material issues, we set goals and evaluate their performance.
- In 2024, there were 26 sustainability indicators.












Response and Disclosure










Through disclosing the performance in implementing the plans in relation to the sustainability indicators, APC understands the insufficiencies required for improvement and make continual innovation and improvement to bring substantive social contributions.

Correspondence and Actions between SDGs and Sustainability Approaches Goals

Note: () represents detailed goals of the SDGs

SDGs		Sustainability Approaches	SDGs		Sustainability Approaches
	Good Health and Well-being (3.7 ∙ 3.9 ∙ 3.d) Provide employees with high-quality healthcare service through a well-established welfare system and reduce casualties and accidents through management of highly hazardous chemicals.	People-oriented management		Industry Innovation and Infrastructure (9.5 ∙ 9.b) Provide R&D resources and engage in product innovation and R&D to increase product added value.	Create economic benefits
	Quality Education (4.3 ∙ 4.5) Support and sponsor education and sustainable development in remote townships to ensure equal opportunity of education for underseved children.	ESG fulfillment		Sustainable Cities and Communities (11.6) Reduce air pollutant emissions and improve waste management to reduce the production of hazardous substances and enhance environmental quality.	Environmental sustainability and survival
	Clean Water and Sanitation (6.3 ∙ 6.4 ∙ 6.5) Enhance water efficiency and reduce impacts on water and ecosystems through the quality control, recycling, and reuse of effluents.	Environmental sustainability and survival		Responsible Consumption and Production (12.2 ∙ 12.4 ∙ 12.5 ∙ 12.7) Enhance materials efficiency, recycling, and reuse to reduce waste generation and practice sustainable resource management; Implement green procurement to practice sustainable purchasing.	Enhance production efficiency Environmental sustainability and survival
	Affordable and Clean Energy (7.2 ∙ 7.3 ∙ 7.a) Enhance energy efficiency and develop renewable energy facilities for environmental sustainability through clean production and green manufacturing.	Enhance production efficiency Environmental sustainability and survival		Climate Action (13.2 ∙ 13.3) Assess risks and opportunities due to climate change and integrating counter-measures into policies and action plans to lower the environmental impact brought by climate change.	Environmental sustainability and survival
	Decent Work and Economic Growth (8.2 ∙ 8.5 ∙ 8.7 ∙ 8.8) Improve economic performance, provide a safe workplace environment, ban child labor, and ensure remuneration equality to maintain human rights and the right to work for workers.	People-Oriented Management Good Corporate Governance			

Note: (X) represents unachieved




SDGs	Goals	2024 Performance	Improvement/Optimization Methods	Response	
	<ul style="list-style-type: none">· Provide insurance/healthcare benefits· Promote Process Safety Management (PSM) progress: 80%	<ul style="list-style-type: none">· Employee group medical insurance for each employee· Birth allowance for 4 people, NT\$ 10,000 each· Four sessions of employee health checkups, with a total of 216 people· On-site service of contracted physicians for 6 times· Promote Process Safety Management (PSM) progress: 75% (X)	<ul style="list-style-type: none">· Total Count of Process Safety Incidents (PSIC): 0 incidents	Regularly track the progress of the information platform establishment and review the issues during the PSM promotion meeting.	5.2 Talent Development 5.4 Healthy Workplace
	<ul style="list-style-type: none">· Setup scholarships and grants· Practicing education for remote townships	Sponsoring NT\$ 3 million to USI Education Foundation for caring about vulnerable groups, remote townships education, and setting up scholarships.		—	5.5 Social Engagement
	<ul style="list-style-type: none">· Water reclamation rate (R2): >95.0%· Water consumption per unit product: <4.0 M₃/MT· Effluent water quality, COD <90 mg/L	<ul style="list-style-type: none">· Water reclamation rate (R2): 97.5%· Water consumption per unit product: 3.70 M₃/MT (maintaining optimal levels)· Effluent COD 38.57 mg/L	—		4.1 Resource Management
	<ul style="list-style-type: none">· Unit product energy consumption: 6.09 GJ/MT· Set energy conservation target: Electricity conservation rate 1.0%· Build green power (solar PV) installations.	<ul style="list-style-type: none">· Unit product energy consumption (or energy intensity): 5.94 GJ/MT· Electricity conservation rate 1.6%· Procurement of 1.91 million kWh of green power (solar), to be supplied and used starting January 1, 2025.· A second self-generation and self-consumption solar PV power plant with a capacity of 494 kW will be installed in 2025.	<ol style="list-style-type: none">1. Continue to undergo equipment replacement2. Replace energy-saving equipment and increase green procurement expenditure3. Implement energy efficiency improvement projects.		4.2 Climate Change and Energy Management
	<ul style="list-style-type: none">· Maintain corporate growth through sustainable investment· Ban child labor and ensure remuneration equality· Maintain human rights and the right to work for workers· Zero occupational accidents	<ul style="list-style-type: none">· Net loss after tax is NT\$ 751 million (X)· Ratio of salary and remuneration of women to men: Intermediate and junior management 0.98:1 and general employees 0.93:1· Employment of people with disabilities 2; No child labor.· Disabling Injury Frequency Rate (F.R.): 0; The total cumulative of zero lost-time due to disabling injury have reached 6.31 million working hours.	<ol style="list-style-type: none">1. Continuous developing the products of higher-valued and high-end applications, such as hot melt adhesive.2. Develop recycled plastic products to align with ESG trends and fulfill customer demands.		2.2 Economic Performance 5.2 Talent Development 5.3 Human Rights Policy 5.4 Healthy Workplace
	<ul style="list-style-type: none">· At least 1 product development or quality improvement per year· Provide resources required for R&D and innovation	<ul style="list-style-type: none">· Product development: 1, Quality improvement: 2· R&D Workforces: 31 people; R&D Funds: NT\$ 4,107 thousand.	—		3.1 Technology R&D
	<ul style="list-style-type: none">· Air pollution emission monitoring and improvement· Monthly inspection points for equipment components ≥ 420 points.· Effective waste management reduces environmental impact	<ul style="list-style-type: none">· Unit product air pollutant emissions (NO_x, SO_x, VOCs) are all below the target control values.· Monthly inspection of 770 points for equipment and component leakage· Waste intensity 0.0025 MT/MT, reduced by 41.86% compared to the previous year.	—		4.3 Emissions Management 4.4 Waste Management
	<ul style="list-style-type: none">· Ethylene efficiency ≤ 1.009· Flexible intermediate bulk container (FIBC) recovery rate >78%· Circular economy, waste metal recovery· Development and Certification (ISO 14021) of Recycled Plastic Products (LDPE)· Green procurement amount > NT\$ 5 million	<ul style="list-style-type: none">· Ethylene efficiency 0.9973· Flexible intermediate bulk container recovery rate 79.5%· Waste metal recovery 46.41 MT· Passed material certification for recycled plastic products ISO 14021 and met customer demand standards.· Reported green procurement amount for 2024 is NT\$ 7.57 million.	—		4.1 Resource Management 4.2 Climate change and Energy management 3.3 Supply Chain Management
	<ul style="list-style-type: none">· Climate Change Risk Management· Establish the carbon reduction commitment to reduce emissions by 27% over baseline year 2017 by 2030.· Achieve a 27% reduction and reach carbon neutrality by 2050.	<ul style="list-style-type: none">· We have identified 24 climate-related risks and opportunities, identifying 10 significant climate topics and formulated countermeasures to address the potential financial impacts based on the TCFD framework.· Implement the ISO 50001 Energy Management System, monitor energy performance indicators, and continuously improve.· The GHG emissions in 2024 have been reduced by 13.9% compared to the base year (2017).			4.2 Climate Change and Energy Management

Asia Polymer establishes the following short-term action plans and medium- to long-term plans in accordance with the SDGs-linked sustainability approaches are as follows:

Sustainability Approaches

Short-term Action Plans (2024~2026)

Medium- to Long-Term Plan (2027~2030)

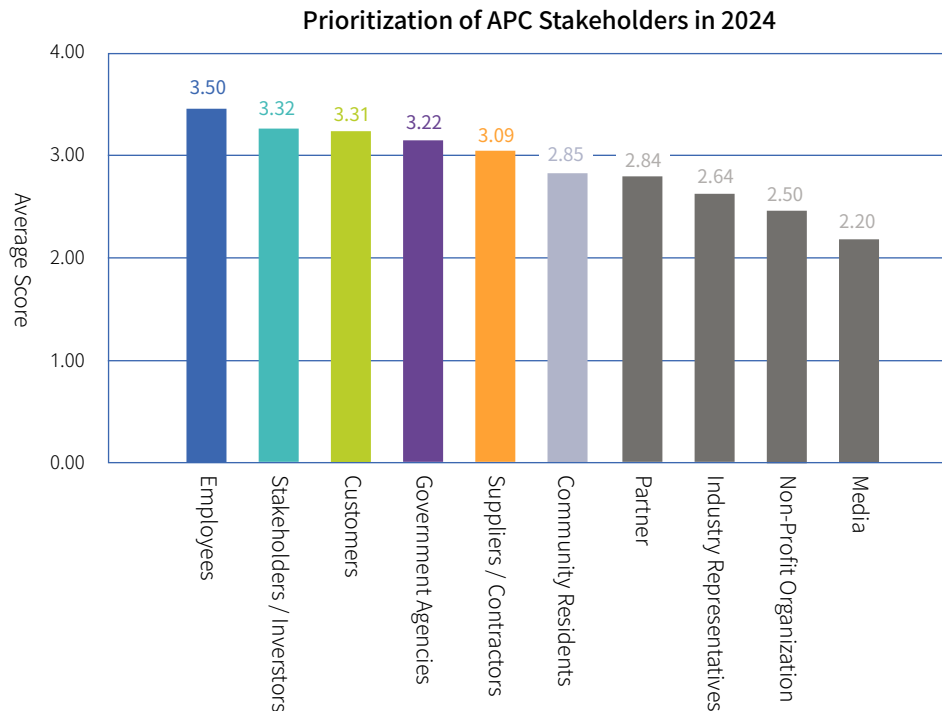
Governance	 <p>Create Economic Benefits Good Corporate Governance</p>	<ul style="list-style-type: none"> ✓ Enhance materials dispatch flexibility for Kaohsiung Intercontinental Container Terminal (ICT) Phase II Investment Project ✓ Gulei Petrochemical Integrated Plant has officially began production, with optimal adjustments to the process. ✓ Remains flexible in adjusting its product portfolio in the domestic production line. ✓ Leveraging AI intelligent production and adding a DCS + data platform to enhance production efficiency. 	<ul style="list-style-type: none"> ✓ Actively developing markets outside of Mainland China (Southeast Asia, South Asia regions) ✓ Integrate product and production lines to enhance market influence. ✓ Continuous developing the products of higher-valued and high-end applications.
Environmental	 <p>Enhance Production Efficiency Environmental Sustainability and Survival</p>	<ul style="list-style-type: none"> ✓ Complete the progress of GHG inventory and assurance, in compliance with government regulations. ✓ Enhance resource efficiency and reduce effluents and waste. ✓ Equipment replacement, implement energy saving and carbon reduction programs, and climate adaptation measures. ✓ Install a self-consumption solar PV power plant (494 kW). ✓ Procurement of 1.91 million kWh of green power, to be supplied and used starting January 1, 2025. ✓ Passed the ISO 14021 certification for recycled plastic products. 	<ul style="list-style-type: none"> ✓ Align with International Financial Reporting Standards (IFRS) Sustainability Disclosure Standards. ✓ Promote clean production and green manufacturing. ✓ Response to the potential financial impact of risks and opportunities on the topic of climate change. ✓ Implement the Group's 27% carbon reduction goal by 2030 and achieve the carbon neutral goal by 2050.
Social	 <p>People-Oriented Management ESG Fulfillment</p>	<ul style="list-style-type: none"> ✓ Execute human rights due diligence, identify human rights risks, reduce measures of human rights risks, provide training on human rights protection practices, and implement protection of human rights. ✓ Promote Process Safety Management (PSM) ✓ Implement Occupational Health and Safety management and maintain a record of zero occupational accidents ✓ Invest resources in caring for underserved groups, education in remote areas, assist in community development, and promote domestic cultural development, along with other charitable activities. 	<ul style="list-style-type: none"> ✓ Value employee rights, ensure workplace safety, and foster an environment of respect and dignity for all employees. ✓ Implement retirement succession plans to prevent talent gaps. ✓ Enhance industrial safety checks for zero workplace accidents. ✓ Continuously sponsor charitable activities to enhance social service capacity. ✓ Support local community activities and maintain good neighborly relations.

1.3 Stakeholder Engagement GRI 2-12, 2-29

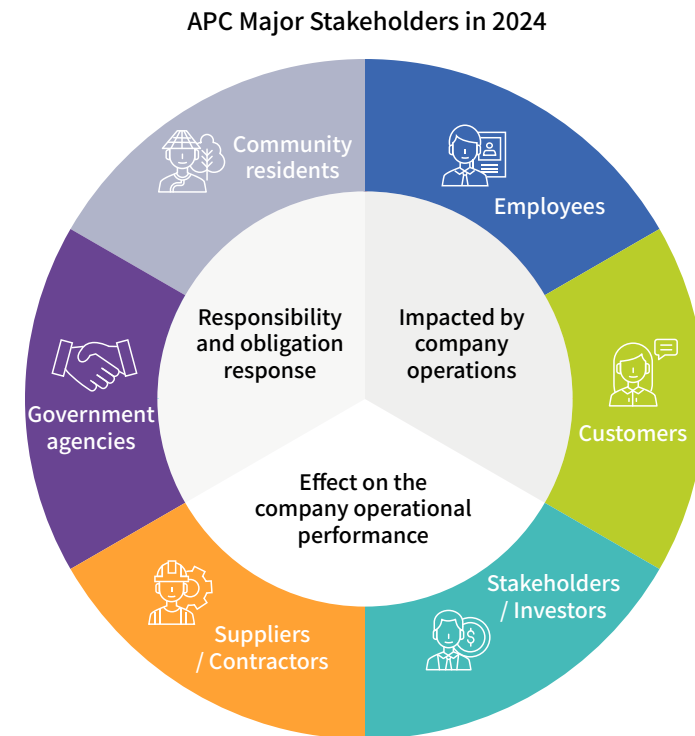
Identification of Key Stakeholders

The annual assessment is conducted by a working group under the "ESG Committee" comprised of representatives from 19 APC departments. Each group member lists the stakeholders with close contacts and influence by business, such as employees, stakeholders/investors, customers, suppliers/contractors, community residents, government agencies, non-profit organizations, industry representatives, partners, and the media.

According to the Responsibility, Influence, Dependency, Diverse Perspectives, and Tension items in the AA 1000 Stakeholder Engagement Standard (SES 2015), stakeholders are evaluated based on the closeness of their relationship to each standard on a scale of 0 to 4. The results of the stakeholder identification assessment are sorted by average score, as diagrammed below:







After discussing the results of stakeholder identification and evaluation by the project secretary and three team leaders of the ESG Committee, determined the following six major stakeholder categories based on the evaluation score **"employees, stakeholders/investors, customers, government agencies, suppliers/contractors, and community residents"**. Stakeholder engagement results, including stakeholder identification, concerned topics, communication channels and frequency, and APC response methods were approved by the ESG Committee and reported to the Board of Directors.





Concerned Topic and Response

Through the external business communication in routine operations, the ESG Committee working group collected the "Concerned Topics and Communication Channels/Frequency" of the six major stakeholder categories and addressed the concerned issues and the status of implementation. The concerned topics, communication channels, and responses of major stakeholder groups in 2024 are tabulated below:

Major Stakeholder	Materiality	Concerned Topic	Communication Channels (Frequency)	APC Response (Responsible Units)	Status of Implementation	Response
 Employees	<p>Employees are essential assets of APC. Through robust salary structure, benefit system, and educational training, employees' cohesion is strengthened, enhancing professional knowledge and skills, coexisting and thriving with the sustainable development of the company.</p>	<ul style="list-style-type: none"> • Economic Performance • Talent Attraction and Retention • Occupational Safety and Health • Climate Change and • Energy Management 	<ul style="list-style-type: none"> • Employee Welfare Committee (3 times/year) • Occupational Health and Safety Committee (1 time/quarter) • Employee health checkup (1 time/year) • Educational training (Implemented according to plan) • Enterprise union members meeting (1 time/year) • The enterprise union supervisor/director meeting (4 times/year) • The Labor Retirement Reserve Supervision Committee (2 times/year) • Performance review (1 time/year) • Material Topics questionnaire survey (1 time/2 years) 	<ul style="list-style-type: none"> • The annual report and financial statements are disclosed regularly according to regulations. (Accounting Division) • Through labor occupational safety and health educational training and emergency response drills, achieve the goals of zero occupational accidents. (Industrial Safety Office) • Provide appropriate remuneration and a robust benefits system, with annual performance appraisal and salary adjustments and comprehensive job education and training to achieve the goals of nurturing and retaining talent. Human Resources Division/Human Resources Section • USI Green Energy will sign Corporate Power Purchase Agreements (CPPA) with each plant within the group. (Instrumentation and Electricity Section) • Pass the self-consumption solar PV installation project. (Instrumentation and Electricity Section) 	<ul style="list-style-type: none"> • The annual report and financial statements are disclosed according to regulations. • Employee Welfare Committee conducted meetings 4 times. • Yearly performance appraisal and salary adjustment conducted once. • Occupational Health and Safety Committee conducted 4 times. • The Labor Retirement Reserve Supervision Committee conducted 2 times. • Four sessions of employee health checkups • Contracted physicians conduct health services a total of 6 times. • OHS Education and Training for 1,331 persons, 6,689 hours. • A Corporate Power Purchase Agreement (CPPA) for renewable energy has been signed, and it is expected to supply green power in 2025. • A self-consumption solar PV power plant (494 kW) will be installed in Q3 2025. 	<p>4.2 Climate Change and Energy Management</p> <p>5.1 Talent Selection</p> <p>5.2 Talent Development</p> <p>5.4 Healthy Workplace</p>
 Customers	<p>Customers are important partners in APC's operations and development. Through technical collaboration and product improvement, we provide products and services that satisfy our customers.</p>	<ul style="list-style-type: none"> • Climate Change and Energy Management • Technology R&D • Supply Chain Management 	<ul style="list-style-type: none"> • Salesperson customer visits (irregular schedule each month) • Customer satisfaction survey (at least 1 time/year) • Market research (irregular schedule) • Customer feedback and Customer Dispute Management (irregular schedule) 	<ul style="list-style-type: none"> • Establish energy-saving and carbon reduction goals, identify climate change risks and opportunities, and potential financial impacts. (Energy Management Department of Equipment Preventive Maintenance and Environmental Risk Control Division, Technology Department) • APC requires that the raw materials provided by suppliers must not contain relevant restricted substances to comply with sustainable material regulations. Procurement Section 1 and 2 • Complete the signing of Supplier Commitments, conduct on-site audits of suppliers, and provide guidance and require improvement for suppliers that do not meet APC's social and environmental assessments. (Materials Division) 	<ul style="list-style-type: none"> • The GHG emissions have been reduced by 13.9% compared to the base year. • APC products do not contain relevant restricted substances. • Sales representatives visit customers an average of 14 times per month. • Technical customer service covers 55 companies throughout the year. • Overall Customer Satisfaction 98.1% • Customer feedback handling achievement rate 100% • The signing of Supplier Social commitments has been embedded. • Supplier evaluation items 	<p>3.1 Technology R&D</p> <p>3.3 Supply Chain Management</p> <p>4.2 Climate Change and Energy Management</p>













Major Stakeholder	Materiality	Concerned Topic	Communication Channels (Frequency)	APC Response (Responsible Units)	Status of Implementation	Response
 Government Agencies	Government agencies serve as an important directional indicator for business development and market expansion. Responding to compliance with the regulations of government agencies is a fundamental concept and principle for business survival and development.	<ul style="list-style-type: none"> Compliance with laws and policies Compliance with laws and activities Information disclosure transparency Process Safety Management Occupational Safety and Health Water Resource Management Air Pollution Control Climate Change and Energy Management Waste Management 	<ul style="list-style-type: none"> Official correspondence, significant information, and data reporting (handled according to regulations) Regulatory briefing sessions or public hearings (handled according to regulations) Panel discussions, seminars, or annual meetings (handled according to regulations) On-site inspection (handled according to regulations) Public Information Observatory (released according to regulations) Environmental Department Waste Reporting Platform (1 time/month) 	<ul style="list-style-type: none"> Promote the 14 items of Process Safety Management as required by regulations and reduce process risks through group audits. (Inspection Section) Comply with relevant laws of government agencies to achieve the Occupational Health and Safety Policy goals of zero occupational accidents. (Industrial Safety Office) Water conservation programs and measures are in place to align with the government's stage implementation of water rationing. (Finished Goods Section) Air pollution emission monitoring and control. (Environmental Protection Section) Implement energy conservation and carbon reduction according to the group's 2030 carbon reduction goal to achieve a 27% reduction over the baseline year. (Energy Management Department of Equipment Preventive Maintenance and Environmental Risk Control Division, Technology Department) Complies with the Energy Administration's annual average electricity conservation rate goal of 1%. (Technology Department) Statistics on the waste delivery manifest are reported monthly on a regular basis. (Environmental Protection Section) 	<ul style="list-style-type: none"> Official government correspondence averages 18 items per month. Total Count of Process Safety Incidents (PSIC): 0 incident Regulatory briefing sessions average 4 per month. Panel discussions or seminars average 3 sessions per month. On-site inspection: 51 times/year Industrial safety: 23 incidents; Environmental protection: 28 incidents The GHG emissions have been reduced by 13.9% compared to the base year. Reduced electricity consumption by 1.57% on average each year during 2015-2024, which complies with the Energy Administration's regulatory requirement of 1%. The total waste treatment was 327 MT, with a decrease of 41.86% compared to the previous year. 	4.1 Resource Management 4.2 Climate Change and Energy Management 4.4 Waste Management 5.4 Healthy Workplace
 Stakeholders / Investors	Stakeholders/ investors are crucial supporters for the survival and development of APC. Through capital investment and Corporate Governance supervision, they enable the company to sustain its growth and development.	<ul style="list-style-type: none"> Economic Performance Occupational Safety and Health Technology R&D Climate Change and Energy Management 	<ul style="list-style-type: none"> Annual General Meeting (1 time/year) Public Information Observatory (released according to regulations) Publication of financial statements and annual report (released according to regulations) Spokesperson Contact Information (irregular schedule) "Investor Service" section on the corporate website (irregular schedule) Information on the corporate website "Union Stock Affairs Network" (irregular and immediate) Publication of the ESG Report (1 time/year) Publication of the TCFD report (1 time/year) Audit Committee mailbox (irregular schedule) Investor conferences (2 times/year) Material Topics questionnaire survey (1 time/2 years) 	<ul style="list-style-type: none"> Hold "Investor Conferences," to explain the company's operations status and future outlook. (Sales Division, Accounting Division) Release quarterly financial statements and annual report according to regulations. (Accounting Division) Immediate release of material information. (Accounting Division) The group plans to establish the "Tai Poly Group Safety Incentive Measures" to achieve the goals of zero occupational accidents. (Industrial Safety Office) Complete at least 1 product R&D test per year. (Technology Department) Implement energy conservation and carbon reduction according to the group's 2030 carbon reduction goal to achieve a 27% reduction over the baseline year. (Technology Department) Plan to install self-consumption solar PV power plant, and sign a Corporate Power Purchase Agreements (CPPA) with USI Green Energy. (Technology Department) 	<ul style="list-style-type: none"> The annual shareholders' meeting will be held in May 2024. Release quarterly financial statements and annual report according to regulations. Hold investor conferences 2 times. By 2024, the cumulative zero lost-time due to disabling injury has reached 6.31 million hours. New product development: 1, Quality improvement: 2. A self-generation and self-consumption solar PV power plant (494 kW) will be installed in Q3 2025. A Corporate Power Purchase Agreement (CPPA) for renewable energy has been signed, and it is expected to supply green power in 2025. 	2.2 Economic Performance 4.2 Climate Change and Energy Management 5.4 Healthy Workplace

Major Stakeholder	Materiality	Concerned Topic	Communication Channels (Frequency)	APC Response (Responsible Units)	Status of Implementation	Response
 <p>Suppliers/ Contractors</p>	Suppliers are important partners for APC, providing essential raw materials and equipment that directly impact production operations and product quality. Contractors, on the other hand, play a key role in equipment maintenance and engineering construction. Ensuring their operational safety is part of our responsibility.	<ul style="list-style-type: none"> Supply Chain Management Process Safety Management Occupational Safety and Health Raw Material Management 	<ul style="list-style-type: none"> Procurement procedures (Implemented as needed) Supplier questionnaire survey (when new manufacturers are added, 1 time/year) Contract performance review meetings (conducted as needed) Face-to-face review meetings (conducted according to product type) Procurement personnel visits (irregular schedule) Market research (1 time/week) Raw material supply stability confirmation (irregular schedule) Consultative Organization Meeting for Joint Operations with Contractors (irregular schedule) 	<ul style="list-style-type: none"> Complete the signing of supplier commitment letters, conduct on-site audits of suppliers, and provide guidance and improvement for suppliers that do not meet APC's social and environmental assessments. (Materials Division) Promote the 14 items of Process Safety Management as required by regulations and reduce process risks through group audits. (Inspection Section) The group plans to establish the "USI Group Safety Incentive Measures" to achieve the goals of zero occupational accidents. (Industrial Safety Office) The goal for the flexible intermediate bulk container recovery rate is $\geq 78\%$. (Finished Goods Section) 	<ul style="list-style-type: none"> Supplier Concerned Topic questionnaire survey 1 time Procurement of auxiliary materials planning meeting, 1 time Market research report, 1 time per week Procurement personnel visits, 4 times Total Count of Process Safety Incidents (PSIC): 0 incident By 2024, the cumulative zero lost-time due to disabling injury has reached 6.31 million hours. Flexible intermediate bulk container recovery rate 79.5% 	3.3 Supply Chain Management 5.4 Healthy Workplace
 <p>Community Residents</p>	Community residents are close partners of APC, not only serving as one of the sources of human resources but also as supervisors of company operations in terms of occupational safety and environmental protection.	<ul style="list-style-type: none"> Social Engagement Occupational Safety and Health Air Pollution Control Underground Pipelines Transportation Waste Management 	<ul style="list-style-type: none"> Irregular community neighborhood visits Participation in community activities (irregular schedule) Entrust community fellowship ball games (at least 1 time/year) Setup scholarships, promote talent cultivation (1 time/year) Government unit on-site inspection (irregular schedule) Educational activities involvement (irregular schedule) Prevention of third-party damage (irregular schedule) Environmental Department waste reporting platform (1 time/month) 	<ul style="list-style-type: none"> Establish a good interaction with community residents through participation in community activities and visits, allowing residents to understand the factory's safety operation mechanisms. (Human Resources Division/ General Affairs Section) Through community fellowship games and charity games, understand the needs and expectations of community residents. (Human Resources Department/General Affairs Section) The group plans to establish the "USI Group Safety Incentive Measures" to achieve the goals of zero occupational accidents. (Industrial Safety Office) Through regular VOCs leakage detection by internal and external units, ensure the health and safety of the workplace environment and community residents. (Environmental Protection Section) Take advantage of pipeline construction surveys and stationed opportunities to explain the current status of pipeline operations and related topics to community residents. (Inspection Section) Waste Treatment, Compliance with Laws and Regulations, and Regular Reporting. (Environmental Protection Section) 	<ul style="list-style-type: none"> Irregular community neighborhood visits Adoption of Air Quality Purification Zone at Wang Gung Elementary School in the Linyuan District. The Environmental Protection Bureau of Kaohsiung City participated in Wang Gung Elementary School's GHG Reduction Matching Plan. The 21st USI Cup Community Tennis Tournament 1 match Charity softball and basketball games, a total of 2 events. USI Education Foundation held 2 Charity Events. On-site inspection, Environmental protection: 28 incidents Monthly inspection of 770 points for equipment and components. Implementation of prevention of third-party damage with irregularly scheduled pipeline construction stationed surveys. Waste is removed and disposed of by contractors approved by the Ministry of Environment, with no violation fines in 2024. Monthly reports are submitted regularly on the Environmental Protection Administration's website. 	4.3 Emissions Management 5.4 Healthy Workplace 5.5 Social Engagement

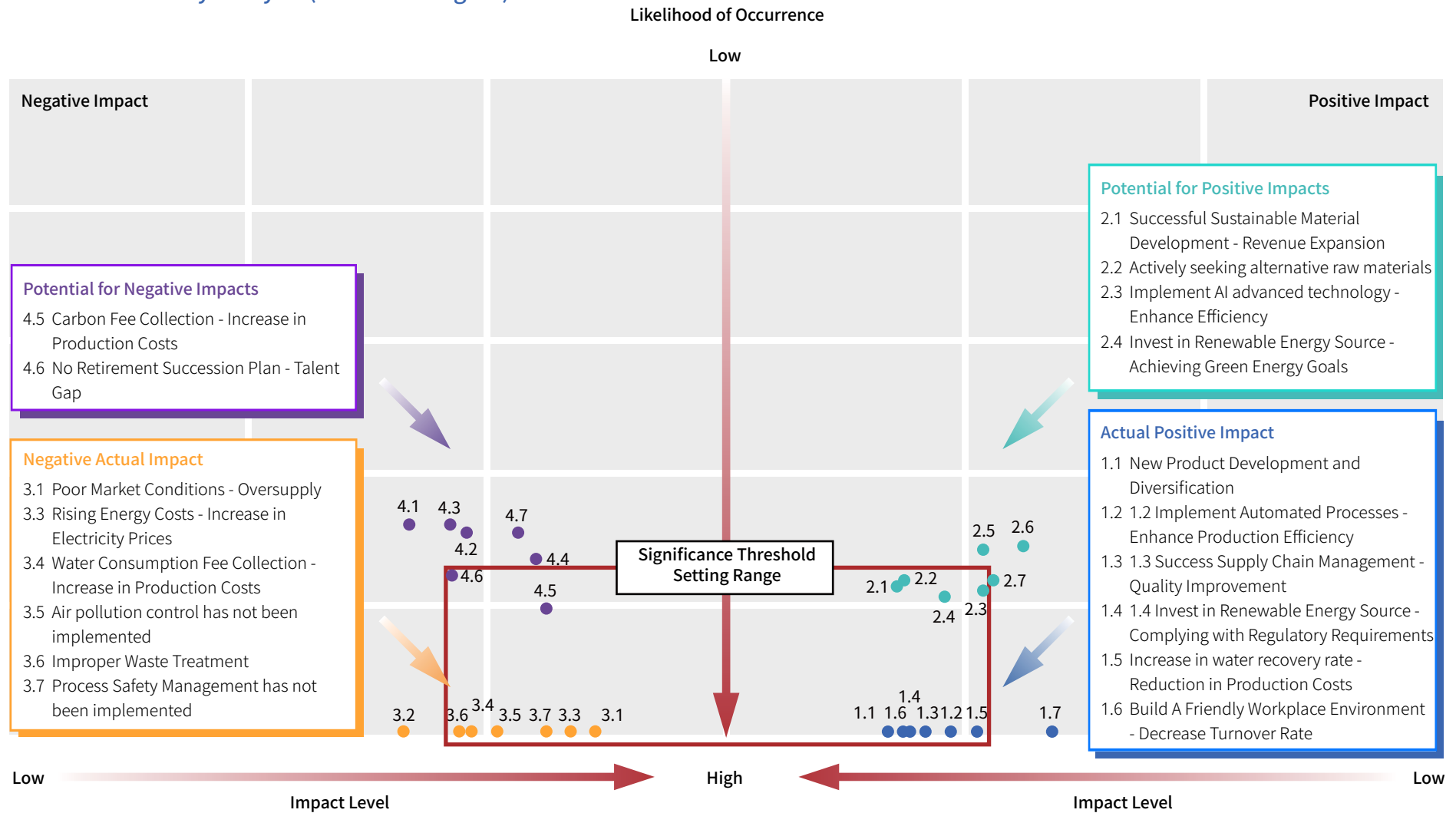
1.4 Materiality Analysis GRI 2-14

APC follows the GRI Standards for the materiality identification process, constructing three major steps: Identification, analysis, and confirmation. Materiality analysis is conducted regularly every two years, with a reevaluation in 2024 to incorporate double materiality thinking. The analysis assesses sustainable topics based on the "impact on company operations" and the "impact on economic, environmental, and human (including human rights) aspects." **The process and results of identifying material topics are discussed by the group's ESG experts before being submitted to the ESG Committee for approval and reported to the Board of Directors, ensuring that the direction of sustainable development and report contents meet the concerns and expectations of both internal and external stakeholders.**

Process of Determining Material Topics GRI 3-1

Identification	 <p>Communication Target</p>	<p>The ESG Committee project secretary sends a stakeholder identification questionnaire to the ESG task force leaders. This is conducted once every two years, in the same year as the materiality analysis. After the statistical results are reviewed and approved by the project secretary of the ESG Committee and the respective team leaders, six core stakeholder groups are identified based on the scores from the identification process: employees, shareholders/investors, customers, government agencies, suppliers/contractors, and community residents.</p>	 <p>6 Types of Core Stakeholders</p>
	 <p>Topics Collected</p>	<p>In line with International Sustainability Regulations and Standards (GRI Standards, SASB, SDGs, TCFD) as well as the company's operational goals and visions, the working group compiled 28 actual and potential sustainability topics, both positive and negative.</p>	 <p>28 Sustainable Topics</p>
	 <p>External Impact Topic Survey</p>	<p>A survey was conducted for core stakeholders in 2024, with scores given based on the positive and negative impact levels of the topics. A total of 237 valid feedback responses were received, including: Employees (161), stakeholders/investors (10), customers (15), suppliers/contractors (12), government agencies (8), community residents (31).</p>	 <p>237 Valid External Responses</p>
Analysis	 <p>Internal Impact Topic Investigation</p>	<p>A survey was conducted among internal managers and directors at APC in 2024, scoring each topic based on its positive and negative impact levels and likelihood of occurrence. A total of 28 valid responses were received. Weightings were adjusted according to the results of the questionnaire at the highest governance body for the statistical analysis.</p>	 <p>28 Valid Internal Responses</p>
	 <p>Materiality Analysis</p>	<p>Materiality analysis is a methodology that includes evaluating the impacts on economic, environmental, and human (human rights) of sustainable development. It incorporates the concept of Double Materiality into the analysis of materiality topics, with a frequency of once every two years. Based on the questionnaire analysis results, 18 significant ESG topics were selected from 28 sustainable topics. They were classified according to the environmental, social, and governance aspects and underwent double materiality analysis, converging into 11 material topics.</p>	 <p>18 Significant Topics</p>
Confirm	 <p>Material Topics</p>	<p>The major topics for 2024 include: Environmental aspects [Climate change and energy management, water resources management, air pollution control, raw material management, waste management]; Social aspects [Occupational Safety and Health, Process Safety Management, Talent attraction and retention]; Governance aspects [Technology R&D, Supply Chain Management, economic performance], a total of 11 items, and the results will be submitted to the ESG Committee for approval and reported to the Board of Directors.</p>	 <p>11 Material Topics</p>

Method of Materiality Analysis (Continued Figure)

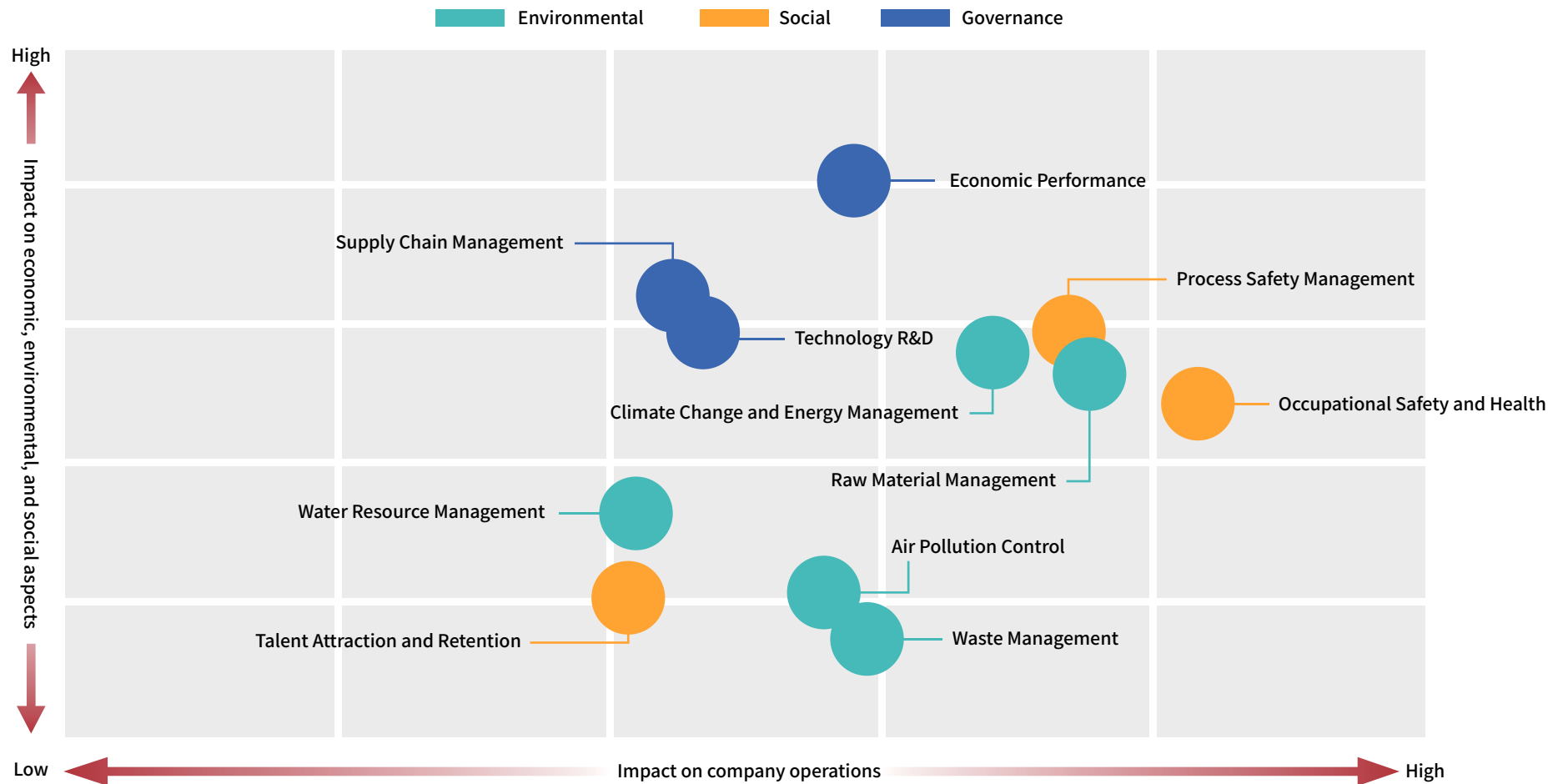


Descriptions:

- Classify the 28 sustainable topics into four aspects: "Positive/Negative Actual" and "Positive/Negative Potential." The numbers represent the topic number of each aspect, not scores.
- Impact Level of the Topic (from low to high: 0 to 5 points), Likelihood of Occurrence (from low to high: 0 to 5 points), Significance Threshold Setting (Positive/Negative Impact Level 3.9 points or above, Likelihood of Occurrence 3.7 points or above).
- A total of 18 topics that fall within the significance threshold are identified as "Significant Topics."

Selection of Material Topics

APC classified the 18 significant topics according to environmental, social, and governance aspects, and narrowed them down to 11 material topics. A double materiality analysis was then conducted based on the “impact on company operations” and the “impact on the economy, environment, and society.” Among them, [Waste Management] is a newly added material topic for 2024, and the results will be submitted to the ESG Committee for approval and reported to the Board of Directors.



List of Material Topics GRI 3-2

18 Significant Topics				11 Material Topics	
Environmental	1	(Positive Actual)	Invest in Renewable Energy Source, Complying with Regulatory Requirements	1	Climate Change and Energy Management (GRI 302 Energy)
	2	(Positive Potential)	Invest in Renewable Energy Source, Achieving Green Energy Goals		
	3	(Negative Actual)	Rising energy costs and electricity price increase		
	4	(Negative Potential)	Carbon Fee Collection, increase in production costs		
	5	(Positive Actual)	Increase in water recovery rate - Reduction in production costs	2	Water Management (GRI 303: Water and Effluents)
	6	(Negative Actual)	Water Consumption Fee Collection - Increase in production costs		
	7	(Negative Actual)	Air pollution control has not been implemented.	3	Air Pollution Control (GRI 305: Emissions)
	8	(Positive Potential)	Actively seeking alternative raw materials	4	Raw Material Management (GRI 301: Materials)
	9	(Negative Actual)	Improper Waste Treatment	5	Waste Management (GRI 306: Effluents and Waste)
Social	10	(Positive Actual)	Build A Friendly Workplace Environment and decrease Turnover Rate	6	Occupational Health and Safety (GRI 403: Occupational Health and Safety)
	11	(Negative Actual)	Process Safety Management has not been implemented	7	Process Safety Management
	12	(Negative Potential)	No Retirement Succession Plan - Talent Gap	8	Talent attraction and retention (GRI 401: Employment)
Governance	13	(Positive Actual)	New Product Development and Diversification	9	Technology R&D
	14	(Positive Actual)	Implement automated processes - Enhance production efficiency		
	15	(Positive Potential)	Successful sustainable material development, revenue growth.		
	16	(Positive Potential)	Implement AI advanced technology - Enhance efficiency		
	17	(Positive Actual)	Success Supply Chain Management - Quality Improvement	10	Supply Chain Management (GRI 308: Supplier Environmental Assessment) (GRI 414: Supplier Social Assessment)
	18	(Negative Actual)	Poor market conditions, oversupply	11	Economic Performance

Descriptions: 1. Classify the 18 significant topics according to environmental, social, and governmental aspects, converge them into 11 material topics, and correspond them to the GRI material topics.
2. In 2024, APC added one material topic, [Waste Management], compared to last year, and tracked and reviewed the implementation results of the management policies for each material topic.

Explanation of Material Topics

Explain The significance of Asia Polymer regarding Material Topics, the scope of Impact, and the level of involvement, and set short-, medium-, and long-term goals to manage Material Topics to reduce the level of Impact, as detailed in the description:

Aspect	Material Topics	The Significance to Asia Polymer	Corresponding GRI Standards Material Topics	Material Topics Indicator	Short-term Goals (< 3 years)	Medium-term Goals (3-5 years)	Long-term Goals (>5 years)	Scope of Impact and Involvement in the Value Chain			Response
					2025	2027	2030	Stakeholder			
								Upstream	Company operations	Downstream	
Environmental	Climate Change and Energy Management	Under the intensifying impact of extreme climate over the years, increasingly stringent government regulations, and carbon fee collection, enhancing energy efficiency and reducing GHG emissions are challenges that our company must face.	GRI 302 Energy 2016 GRI 305 Emissions 2016	1. Unit product energy consumption (GJ/MT) 2. Unit product GHG emissions (MT CO ₂ e/MT)	5.94 0.739	5.76 0.730	5.51 0.634	Government Agencies	The Linyuan Plant	Community Residents	4.2 Climate Change and Energy Management
Social	Occupational Safety and Health	The provision of a healthy and safe work environment is the most concerned topic for workers. Implementing safety and health management and providing a healthy and safe workplace environment for employees and non-employee workers is of utmost importance.	GRI 403 Occupational Health and Safety 2018	1. Disabling Injury Rate (F. R.)	0			Suppliers/ Contractors	The Linyuan Plant	—	5.4 Healthy Workplace
				2. Disabling Injury Severity (S. R.)	0			Government Agencies			
Social	Process Safety Management	Petrochemical plants cannot afford a single process incident, and the implementation of process safety management systems domestically has become a trend in the industry. In order to prevent the occurrence of major accidents with low probability and high hazard, the implementation of process safety management is of great importance to APC.	N.A.	1. Total Count of Process Safety Incidents (PSIC).	0			Stakeholders / Investors Government Agencies	The Linyuan Plant	Customers Community Residents	5.4 Healthy Workplace
				2. Process Safety Total Incident Rate (PSTIR)	0						
Governance	Technology R&D	New product development and product quality improvement can enhance market competitiveness, and fulfilling customer demands is the foundation of APC's sustainable development.	N.A.	Number of Product Quality Improvements (cases)	≥ 1			Stakeholders / Investors	Taipei HQ The Linyuan Plant	Customers	3.1 Technology R&D
				Number of Product Quality Improvements (cases)	≥ 1						
Environmental	Waste Management	Circular economy is an environmental protection topic that enterprises increasingly emphasize; waste recovery and reuse and proper handling can reduce environmental impact.	GRI 306 Waste 2020	Proper waste treatment rate (%)	100			Government Agencies	The Linyuan Plant	Community Residents	4.4 Waste Management
Governance	Supply Chain Management	The issues related to sustainable development and supply chain risk management are gaining attention. Understanding the ESG impacts on the suppliers and implementing supplier management is crucial for APC.	GRI 308 Supplier Environmental Assessment 2016 GRI 414 Supplier Social Assessment 2016	1. Signing rate of existing Supplier Commitment (%)	100			Suppliers/ Contractors	Taipei HQ The Linyuan Plant	Customers	3.3 Supply Chain Management
				2. Local procurement rate (%)	≥ 70						
				3. Pass rate for suppliers and contractors evaluation (%)	Supplier: ≥ 90 Contractor: ≥ 90						
Social	Talent Attraction and Retention	Employees are important assets of the company. Through appropriate salaries, comprehensive benefits, and providing a safe work environment, we attract and retain outstanding talents.	GRI 401 Employment 2016	Overall Employee Turnover Rate (%)	<5.0			—	Taipei HQ The Linyuan Plant	—	5.1 Talent Selection 5.2 Talent Development

Aspect	Material Topics	The Significance to Asia Polymer	Corresponding GRI Standards Material Topics	Material Topics Indicator	Short-term Goals (< 3 years)	Medium-term Goals (3-5 years)	Long-term Goals (>5 years)	Scope of Impact and Involvement in the Value Chain			Response
					2025	2027	2030	Stakeholder			
								Upstream	Company operations	Downstream	
Governance	Economic Performance	Operational growth is a requirement for a company's survival; therefore, Economic Performance is the primary Topic for Sustainable Development.	GRI 201 Economic Performance 2016	1. Earnings per share after tax (NT\$)	> 0			● Stakeholders / Investors	● Taipei HQ ● The Linyuan Plant	—	2.2 Economic Performance
				2. Return on Equity (ROE) (%)	> 0						
				3. Annual Total Production Achievement Rate (%)	> 95						
Environmental	Water Resource Management	In recent years, due to global warming and abnormal climate conditions, the severe domestic water shortage situation will affect the operation of the production line when the government implements stage water rationing.	GRI 303 Water and Effluents 2018	1. Water intensity (M³/MT)	4.0	3.9	3.8	○ Suppliers/ Contractors	● The Linyuan Plant	○ Customers	4.1 Resource Management
				2. Water Reclamation Rate (R2) (%)	95	96	97				
Environmental	Air Pollution Control	Exceeding air pollutant emissions not only violates environmental regulations but also affects the air quality of the living environment.	GRI 305 Emissions 2016	Unit product air pollutant emissions (kg/MT)	NOx : <0.0418 SOx : <0.0458 VOCs : <0.2214	NOx : <0.0376 SOx : <0.0412 VOCs : <0.1993	NOx : <0.0376 SOx : <0.0412 VOCs : <0.1993	—	● The Linyuan Plant	○ Community Residents	4.3 Emissions Management
Environmental	Raw Material Management	Improving raw material usage efficiency and reducing production costs are demonstrations of corporate performance.	GRI 301 Materials 2016	Flexible intermediate bulk container (FIBC) recovery rate (%)	>78			○ Suppliers/ Contractors	● The Linyuan Plant	—	4.1 Resource Management

