

SET Awards 2024 Sustainability Excellence

Presented by Sustainability Team

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Agenda

Company Overview Strategic Challenges

- Competitive Cost of raw material
- GHG Management
- Employee Development
- Q & A



Company Overview

Company Overview A.J. Plast Products A.J. Plast Value Chain Vision, Mission, Core Value





Company Overview

A.J.PLAST

To serve innovation Solutions for the world's sustainable consumption



"World Class Film Products for Ultimate Customer Satisfaction"

- A.J. Plast PLC was established in 1987
- Headquartered in Bangkok Thailand
- A high quality Biaxially Oriented (BO) Films manufacturer
- The complete flexible packaging solution with **313,500 TPA** production capacity









Vision

"To be a leader in plastic film production technology that meets international standards, focus on product development and new innovations environmentally friendly for sustainable development"

rightarrow Mission

1. Continuously improve product and service quality

2. Being a fair partner with a fair price

3. Operate the business of environmentally friendly plastic film products to create sustainable development.

4. Stakeholders including those involved with the highest responsibility



A.J. Plast Products







A.J. Plast Value Chain



Strategic Challenges

Competitive Cost of raw material GHG Management Employee Development





Operational Sustainability Strategy

Continuous and Sustainable Growth	Business Operation with Environmental Responsibility	Potential People and Society Development
High-quality raw material sourcing	Energy Management	Employee Well-Being
Responsibly Business Operation	Water Management	Human Capital Development
Risk Management	Waste Management	Human Rights Respect
Innovation Management	Greenhouse Gas Management	Corporate Citizenship and Philanthropy











Materiality Topic



Significance and impact on corporate business operations

Challenges of Competitive Cost of raw material

Sustainable Supply Chain Management Geopolitics Material Supply & Quality Freight Cost of Import Source





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Risks & Opportunities

Risk Issues	Causes & Impacts	Opportunities	Management
Material Supply & Quality Risk	 Raw material market mechanism fluctuation Raw material price fluctuation Over supply from other countries and dumping price 	 Competitive cost Product cost control To gain confidence from customers in delivering products consistently and on time 	 Purchase products from ESG suppliers Sourcing high-quality suppliers and proper price Supply Chain Management ESG Risk Assessment
Geopolitics Risk	 China and USA trade war Conflict between Russia and Ukraine Raw material shortage Product cost increased 	 Increasing the opportunity to expand the customer base Raw materials are continuously delivered and no shortage 	 Supply Chain Management Supplier ESG screening ESG Risk Assessment and site visit Raw material storage to reduce sudden shortage risk
Freight Cost of Import Source Risk	 Freight cost fluctuation because of disasters, political stability or epidemics Product cost increased 	 Increase the opportunity to expand local customers' base Increase the opportunity to purchase from local 	-Supply Chain Management -Supplier ESG screening -ESG Risk Assessment



Supply Chain Management (SCM)



"Good business model of plastic film industry in the field of supply chain management"

Supply Chain Management Plan

202023	2024-2025	2026
To Improve Supplier Risk Evaluation Process • Supplier assessment • Supplier ESG risk assessment • New supplier ESG screening • On-site audit and visit	 Engagement and Improvement Process Supplier ESG-self assessment All new approved vendor needs to conduct ESG self-assessment Critical supplier on-site visit Conduct on-site visit to critical tier 1 Following up Improvement plan Monitoring critical and high-risk suppliers that need to improve ESG and give correction 	Sustainable supplier relationship management



SCM Strategy



- To Enhance Green Procurement and Initial Innovation for High-Quality Raw Materials
- To Manage Risk
- To Manage Effective Resources
- To Source Raw Materials Considering Ethic, Equality and Respecting Human Rights
- To Integrate Environmental, Social and Governance (ESG)

Supply Chain ESG Risk Process



Supplier Selection & Pre-Risk Assessment

- Supplier Selection & Screening through the prequalification
- Initial an ESG evaluation for suppliers

Suppliers Analysis

- Spending Analysis
- Critical Supplier Analysis
- ESG Risk Assessment

Supplier Comprehensive ESG Risk Assessment

Sustainable Supplier Audit and Assessment for gaps and opportunities for improvement

Supplier Risk Mitigation

Supplier Risk Mitigation and Improvement through A.J. Plast supply chain management



Target & Performance

Target

- •17% Critical Suppliers on-site visit
- •80% of Critical suppliers acknowledged and signed for code of conduct

Performance

- •33% Critical Suppliers on-site visit
- •100% of Critical suppliers acknowledged and signed for code of conduct



Supply Chain Coordination

PCR-BOPA Film Development Collaborating with BASF



Innovation Development Project for Recycling Plastic Leftovers from Production Process with Ampacet (Thailand) Ltd.



Collaboration in Modern Technology to Increase Production Efficiency with Brückner



Value Added and Circulating Products Development with Suppliers



Challenges of GHG Management

Climate Change Customer Sustainable Trend Carbon Tax





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Risks & Opportunities

Risk Issues	Causes & Impacts	Opportunities	Management
Climate Risk	 Climate change from carbon footprint increasing Global temperature increasing Natural disaster Changes of human living behavior cause product cost increased, market changed and may affect business growth 	 Flexibility and preparation for climate change Coordination with stakeholders to reduce carbon footprint To search and expand new market base 	 The strategy and direction of business operations that must be adjusted to keep up with the situation, and environmental friendliness CFO/CFP Carbon Neutrality and Net Zero plan Reduction projects Standard supporting sustainable operation (ISCC Plus, ISO14001, CEMs)
Customer Sustainable Trend Risk	 Market changed for sustainable requirement Customer need changing from new normal lifestyles 	 Circular economy Sustainable product supporting customer requirement To expand sustainable market base 	 Innovation management To develop green products To collaborate with stakeholders Standard supporting sustainable operation (ISCC Plus, ISO14001, CEMs)
Carbon Tax Risk	 Changes in rules, regulations or laws regarding carbon footprint/GHG emission Product cost increased Trade Prevention 	 Flexibility and preparation for carbon tax 	 GHG Management by carbon footprint calculation of organization and products (CFO/CFP) Reduction projects and green products supporting carbon footprint reduction



Roadmap to Zero Carbon Company





Solar Rooftop & Floating Project

Solar rooftop 1 MWh: Rooftop solar power has a capacity per panel of 540 watts, 1,851 panels.





Solar rooftop 4 MWh: Rooftop solar power has a capacity per panel of 575 watts, 7,410 panels.



~5,610 MWh Electricity consumption reduced

Solar floating 1 MWh

- Solar provider in private PPA and collaborating with industrial estate area





Electricity consumption reduced



DFD: Direct Flake Dosing

- The system extracts plastic scrap generated from the production process into the recycling process
- It is melted and fused with the main raw material such as plastic resin and injected into sheets through the production process into plastic film













Water Reuse

- Rainwater Storage with 10,000 m³ capacity









Bio-Based BOPP Film

- Bio-based PP resin from Sugarcane
- 10% Bio-based for beard packaging
- Product: Beard, Utensil Packaging

Bio-Based BOPA Film

- Bio-based PA resin from Cooking oil
- The world 1st BOPA film by Biomass Balance Polyamide from BASF

Bio-based BOPA film development collaborating with BASF





A.J. Plast successfully produced the BOPA film, made with Ultramid[®] biomass balance polyamide on May 10, 2016, has the same properties as BOPA film made with conventional polyamide based on fossil raw materials. The use of bio-feedstock helps save fossil resources and reduces greenhouse gas emissions.





PCR BOPET Film (Post Consumer Recycled)

- Recycled PET film from consumption
- Produced from recycled bottle PET resin



- PCR BOPA Film (Chemical recycling)
- Recycled PA resin from mixed waste



Mixed waste

PA Resin

BOPA Film

PCR-BOPA film development collaborating with BASF



PCR BOPP Film (Chemical recycling)

- Recycled PP film from consumption
- Produced from recycled PP resin

PCR-BOPP film development collaborating with HMC Polymer





PIR (Post Industrial Recycled) Film

- In-house recycling from waste to raw material (PP, PET, PA)
- Waste from production process
- Back to production process again



Conversional Resin



Film Production



PIR Resin



PP/PET/PA Film

PIR PP Tape

- The Adhesive Tape is made from PIR BOPP Film that contain 99% of PIR materials
- Starting trial lot, 10 tons, in 2023

PIR PP Masterbatch

- Masterbatch (raw material) made from PIR resin
- Collaboration with masterbatch supplier



Target

- 5% GHG emission reduction
- 20% Recycled and bio-based material usage increasing
- •1 New green product





Performance

- 40% Recycled and bio-based material usage increasing
- 14 New green product



Performance

Total GHG Emission



GHG Direct Emission

110,000





Challenges of Employee Development

Employee Training Employee Engagement





Operational Sustainability Strategy

Continuous and Sustainable	Business Operation with Environmental	Potential People and Society
Growth	Responsibility	Development
High-quality raw material sourcing	Energy Management	Employee Well-Being
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Risks & Opportunities

Risk Issues	Causes & Impacts	Opportunities	Management
Personnel Skill Development Risk	 Employee with limited abilities and expertise To unable using various skills and expertise Cost increased for business operation 	 To create employee with expertise and be able to pass on skills, knowledge, and understanding to coworkers To drive and develop employees with knowledge and abilities Raise the level of knowledge of all employees Employee engagement 	 Training need analysis Training plan Activities to promote the development of employee skills
Engagement Risk	 Employee resignation increased Work efficiency decreased No appreciation of skill development and not meeting expectation 	 Flexibility in work Technology usage increased Increase the efficiency of automation systems 	 Happy & Engagement Survey Activities and project supporting happy employee (Happy People, Happy Workplace) Annual performance evaluation



Employees Training

Training Needs Analysis

Involves assessing the specific skill gaps and learning requirements within A.J. Plast to align training programs with its strategic goals.

Focuses on evaluation the training and development needs of different departments or teams within an organization to enhance their efficiency and effectiveness.

Identifies the unique skills, knowledge, or performance gaps of individual employees, enabling personalized training plans.





Employees Training

Training Plan

- To achieve the target of developing employee competency sheets and strengthening employee engagement in the organization.
- Moreover, there is a process of analyzing training needs and identifying employee potential development programs based on roles and responsibilities according to job positions and performance assessment to develop an annual training and skill development plan that promotes career advancement.
- The Company has established the following framework for the development of human resources in various areas and the development of an annual training plan.
- There are 33 training courses in 2023



Employees Training

Training safety knowledge for all employees



Training in class



Online training

Employees train knowledge with E-learning has a Google form of training documentation and self-assessment tests to measure knowledge after training.





Employees Training Target & Performance

Target



Performance



14 Hours/person/year of training employees











Employees Engagement

B Happinometer Survey



Happinometer Result



Happy Relax Happy Money Happy Family Happy Society/Happy Work Life Engagement Happy Body

"Happinometer 9 Health Recommendations"

of Thai Health consist

- Happy Body, Happy Relax, Happy Heart, Happy Soul, Happy Family, Happy Society, Happy Brain, Happy Money and Happy Work Life.



Employees Engagement

Target



Result



66% engagement level of employees

Happy People, Happy Workplace

5 dimensions concentration which will relate to
Happy People, Happy Workplace activities;
Happy Relax, Happy Body, Happy Money, Happy Family, Happy Society & Happy Work Life



Happy People, Happy Workplace

- Beat Plastic Pollution



- Fit For Work



Happy People, Happy Workplace

Social contribution activities

- Mangrove forest cultivation activities with local communities to reduce GHG Emissions
- Blood donation activities for the Thai Red Cross Society





Thanks you

Questions & Answers