

SET Awards 2024

Sustainability Excellence

September 3, 2024

Sustainability Strategy



ransform for a better future

Promote circularity through end-of-life

Build sustainable future value

nnovate for more sustainable packaging and beyond

"to deliver
sustainable packaging
and recycle solutions
for better life and society"

Fundamental: Corporate Governance / Business Ethics / Risk Management / Human rights / Compliance with law

Company's Direction



Scaled Growth



- Core Business: Secure volume by managing fluctuating demand and ramp-up requirements.
- Growth Segments: Continue driving momentum in high-growth areas to capitalize on business opportunities.
- New Business: Accelerate the closing of new businesses to boost sales revenue and volume.

Operational Excellence

- Efficiency and Outputs: Enhance operational efficiency and output quality
- Cost-saving program: Implement initiatives to reduce costs
- Synergies: Leveraging synergies across business units and entities to benefit from economy of scale.

Green Initiatives



- Green products: Develop new business opportunities focusing on green products.
- ESG: Drive ESG targets across all operations.











Sustainable packaging innovation & technology

1.1 Key Opportunity & Challenges



Opportunities



- Climate-related risk management
- Improving efficiency
- Using clean energy
- Investing in climate-smart products and services
- Accessing new climate-related markets
- Energy monitoring and control technology
- Green logistics



Challenges

- Unclear direction from government and relevant organizations
- Poor reputation of plastic manufacturer
- Cost pressure
- Operational inefficiencies
- Support from supply chains





Strategy

- Lower emissions from production process
- Increase revenue of low-carbon & green packaging products
- Reduce greenhouse gas emissions in value chain
- Waste management
- Partnership with society

TPBI's journey to circular economy way with net zero

Lay Fundamentals (2021-2025)

Implement and expand (2026-2050)

Achieve target (2051-2065)

Goals

- · CFO and CFP certified
- Certified by CEMS, GRS standards, and ISCC is underway
- Decarbonizing
- Aim to achieve 30% of green products for our portfolio by 2025

Goals

- Reforestation
- Aim to get Carbon Credit via T-VER
- Use renewable energy at least 35% in our production process by 2030
- Implement green procurement by 2035
- Aim to achieve Carbon Neutrality by 2050

Aim to achieve GHG Net zero by 2065 with sustainable projects along the journey

1.3 Progress & Improvement



Green Products

Done

- CFP Certificates (Carbon Footprint of Products)
- Green products certified i.e. GRS, CEMS.

On Going

- Expedite product innovation
- Approach and engage customers in developing green products
- Adjust and improve machines to serve customers' needs and global trend

Pipeline

 Seek new technologies and raw materials for green products

Decarbonizing

- 100% EV forklift and C-level cars
- EV chargers installed

- Continue to improve facilities
- Use clean energy; i.e. solar power
- Improve processes; i.e. reduce industrial waste, increase paperless processes
- Work on EV transportation

- Reduce resource consumption in logistics activities
- Use more recyclable raw materials
- Set up Carbon Reduction by Science Based Targets Initiative

Process and Training

- Established Circular Economy
 Business Development Department
 (CE-BD) and Product Compliance
 Team to drive company's Circular
 Economy activities
- Provide training for all processes and systems, relating to green activities, implemented
- Provide training on new updated standard

1.4 Comparative Result (H12024 VS 2023)



Environment Management (per ton of output)



Water usage



4%



Electricity usage



5%



Hazardous waste



25%

Climate action



Carbon reduction



29%



Decarbonization



5.4% TonCO₂eq/Ton FG

Supply chain management



ESG assessment program

100%



Green procurement

On track









Sustainable packaging innovation & technology

2.1 Key Opportunity & Challenges



Opportunities



- New revenue streams for circularity business related
- Resource efficiency due to waste reduction and smaller environmental footprints
- New markets or New customers which focus on sustainability
- New technologies or New schemes for waste collection systems



Challenges

- The restrictions and regulations on using recycled plastics are inconsistent and unclear
- Cost Pressure
- Consumers' awareness
- Varieties of Sorting, recycling and reuse schemes in Thailand

2.2 Strategy & Goal





Strategy

- Design for product circularity
- Enhance mass awareness of circularity to public
- Safeguard the environment from PCR waste

Short term (2021-2026)

Long term (2027 - 2035)

Goals

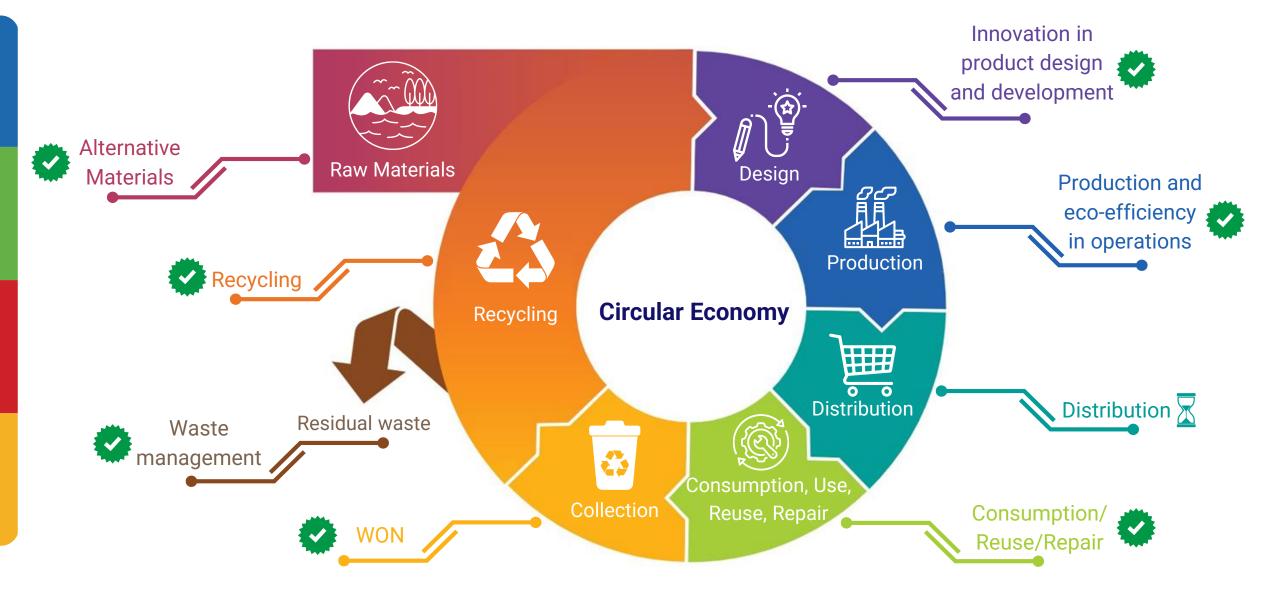
- 60% of products can be recyclable, reusable or compostable
- Zero waste to landfill: 25%
- No. of partners: Sales of new PCR related products

Goals

- 100% of products can be recyclable, reusable or compostable
- Zero waste to landfill: 100%
- No. of partners Sales of new PCR related products

2.3 Progress & Improvement





2.4 Comparative Result



Sales



Green products:

21% of total sales



Green certificates:

CERTIFICATE

GRS



CEMS





PITH



CFO



CFP



Circular economy implementation



PCR materials used:

> 3,000 ton in 2023



Recycle hub:

1 3 Recycle hubs



PCR waste collected:



240%













Sustainable packaging innovation & technology

3.1 Key Opportunity & Challenges



Opportunities



- New technologies that require less carbon footprint to recycle plastic waste
- Shifting from rigid to flexible packaging for more convenience Eco-friendly raw material such as solvent-free and water-based technology, compostable material
- Partnership and collaboration along supply chain for better solutions.



Challenges

- Technology gaps for product properties to be equivalent to existing products
- Inconsistency of relevant restrictions and regulations on using recycled plastics
- Insufficient supply ability
- Investment pay off unlikely justified

3.2 Strategy & Goal





Strategy

- Design for recycling
- Develop recycled resins to promote the use of green material
- Use less material for products' better performance (Downgauging)
- Co-develop products with brand owners to meet consumer's expectation

Short term (2024 - 2026)

Long term (2027 - 2035)

Goals

- Sales of Mono-material
- Commercialize new formulations
- Collaborate with global customers to launch innovative projects in the pipeline

Goals

- Sales of Mono-material
- Commercialize new formulations
- Collaborate on innovative projects in the pipeline
- Launch innovative products with customers

3.3 Progress & Improvement



Sustainable Packaging

Done

Commercialized new products with new formulations

On Going

- Promote the use of Monomaterial to brand owners to increase sales of green products
- Leverage business synergies or complementarities

Pipeline

- New products/formulations
- Develop competitive recyclable materials and products
- Enhance company's capabilities to drive greater innovation

Innovation & Technology

- Completed collaborated projects with global customers and launched innovative products
- Collaborate with partners to use our existing blown film machines to produce Monomaterial
- Conduct a feasibility study for investing in new machines or technology for Mono-material production
- Co-develop projects with global customers

3.4 Comparative Result



Sustainable packaging



Mono-material sales:



200%



New materials

innovation & technology



New project collabs



New technologies





Founded: 1987

2023 Revenue: 5.2 Billion THB

Group Employees: 2,000



Consumables: Rayong



HQ & Factories : Sampran



Flexibles: Sampran

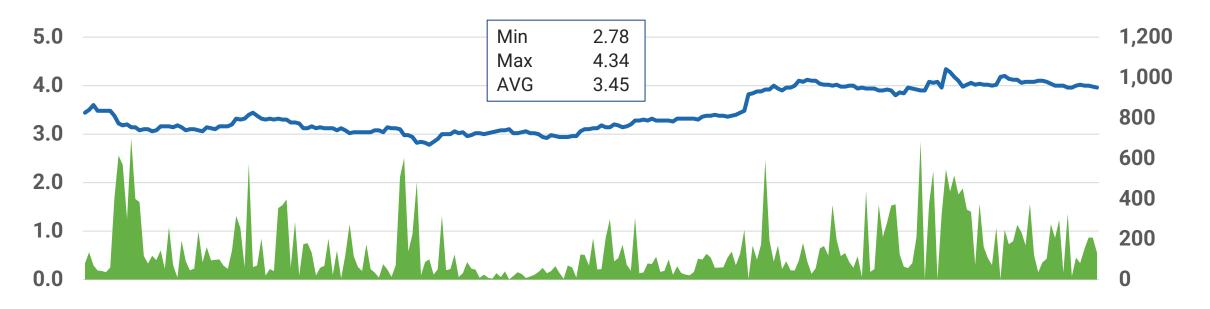


Paper: UK



About TPBI











ESG Rating:

Corporate Governance:





Sustainability Award:

Commended Sustainability Awards

Number of Shares: 416.88 M. Shares

Paid-up Capital: 416.88 M.THB

Par Value per Share: 1 THB/Share

Dividend policy: At least 50% of NP

Shareholders: 66.0% Borrisuttanakul family

6.5% BBLAM 27.5% Others

TPBI Business Divisions



Consumables



- Garbage bags
- Loop- handle / Die cut bags
- Zipper bags/ Resealable bags
- Mail Order bags / Liner bags
- Biodegradable / Compostable bags
- Fruit & Vegetable bags
- LLDPE food bags
- Vest carrier / T-shirt bags
- Piping bags
- Post Consumer Recycled products

Flexibles



- Lamination Film
- Barrier Film
- Stretch hood/ Shrink film
- Packaging for frozen food,
 Ready-to-Eat food and snacks
- Digital printing for short productions
- · Mono-material packaging

Paper



- Flat & Satchel bags
- Wicket bags
- Block Bottom bags
- Stand on Shelf bags
- Paper Tape Handle bags
- Die-cut SOS bags

Global Trading



- PP Woven Reusable bags
- Jute Reusable bags
- Insulated bags
- Paper boxes and trays
- All products from Consumables, Flexibles, and Paper divisions.

