tpbi

SET Awards 2024

Sustainability Excellence

September 3, 2024

Sustainability Strategy



Think Circular, Think Sustainable

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

 tpbi^{*} Think Circular, Think Sustainable.

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.



Strategic Challenges







Sustainable packaging innovation & technology

1.1 Key Opportunity & Challenges

Opportunities

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- 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



1.2 Strategy & Goal





*Green Products : Upcycling products, Renewable products (using renewable material > 25%), Compostable, Recycled products (PCR content >5%), Mono-material, PCR resins, FSC paper 6

1.3 Progress & Improvement



	Done	On Going	Pipeline
Green Products	 CFP Certificates (Carbon Footprint of Products) Green products certified i.e. GRS, CEMS. 	 Expedite product innovation Approach and engage customers in developing green products Adjust and improve machines to serve customers' needs and global trend 	 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)



Climate action



Carbon reduction



Decarbonization





5.4% TonCO₂eq/Ton FG

Supply chain management



ESG assessment program

100%

Green procurement

On track

Strategic Challenges



Climate Action





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

CDC

- 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

Think Circular.

Think Sustainable.

2.2 Strategy & Goal





• No. of partners: Sales of new PCR related products

• No. of partners Sales of new PCR related products

2.3 Progress & Improvement





2.4 Comparative Result



Sales



Circular economy implementation

- PCR materials used:
- Recycle hub:

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PCR waste collected:

- > 3,000 ton in 2023
- 1 3 Recycle hubs





Strategic Challenges



Climate Action





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

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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



3.3 Progress & Improvement





3.4 Comparative Result



Sustainable packaging innovation & technology 200% Mono-material sales: New project collabs New materials New technologies **PCR resin for Industrial Pallets**

APPENDIX

JOIN

Founded : 1987 2023 Revenue : 5.2 Billion THB





Consumables : Rayong

HQ & Factories : Sampran

Flexibles : Sampran

Paper : UK









About TPBI









Corporate Governance: **5 stars**

ESG Rating:

AA

Sustainability Award: Commended Sustainability Awards Number of Shares:416.88 M. SharesPaid-up Capital:416.88 M.THBPar Value per Share:1 THB/ShareDividend policy:At least 50% of NPShareholders:66.0% Borrisuttanakul family
6.5% BBLAM
27.5% Others



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TPBI Business Divisions

Think Circular, Think Sustainable.





- 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

tpb



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

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Total PACKAGING Solution

Innovative Quality Packaging