



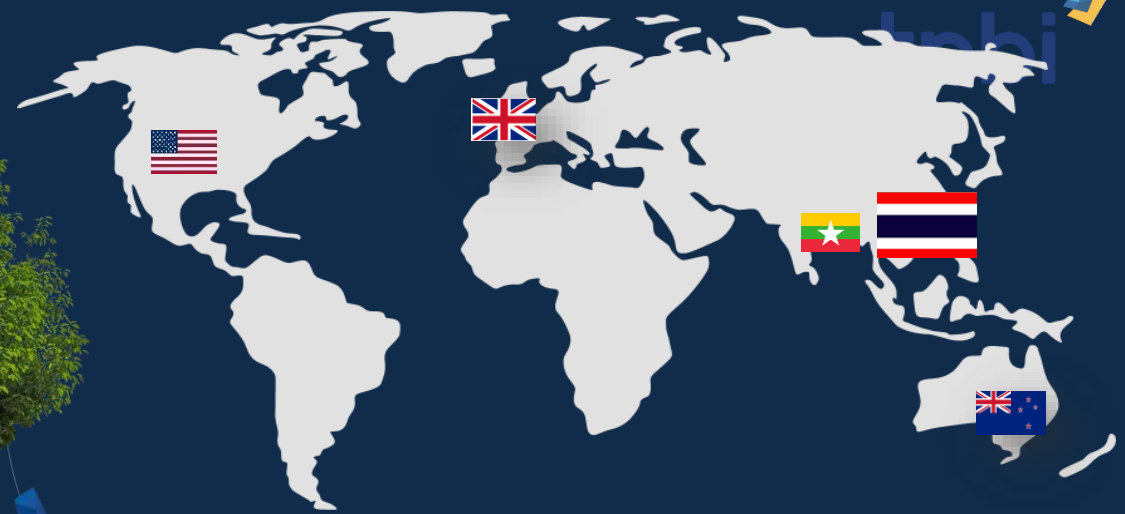
tpbi

SET Awards 2023
Sustainability Excellence

September 13, 2023

TPBI Public Company Limited

"Think Circular
Think Sustainable"



tpbi Consumables



tpbi Flexibles



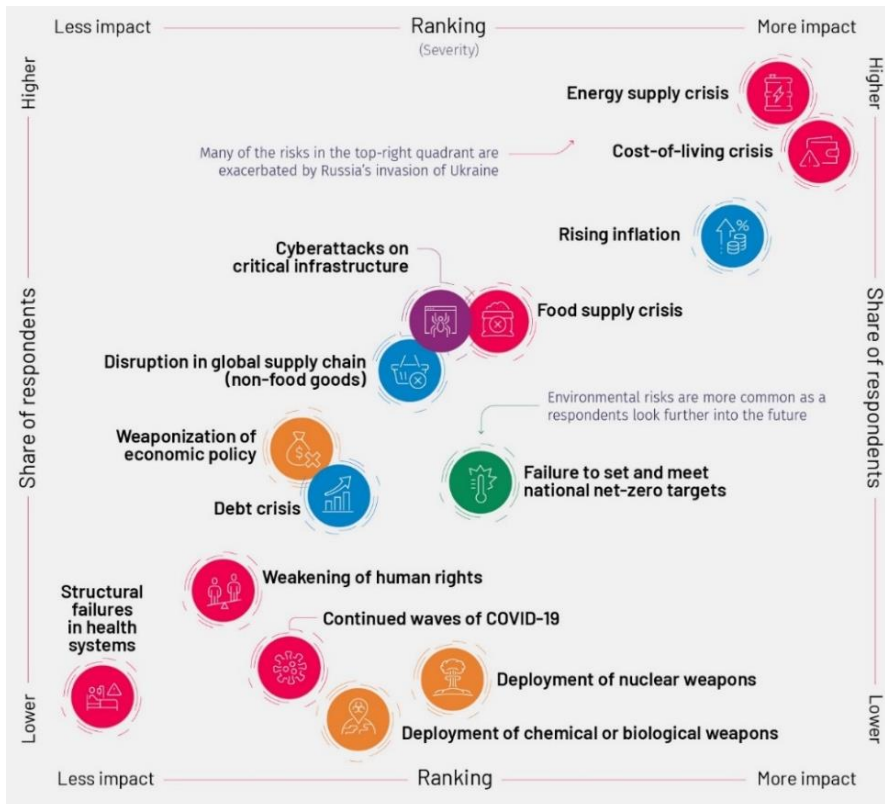
tpbi Paper



tpbi Green & Innovation

1.1 Management of materiality and risk

The Top Global Risks in 2023



- Economy
- Environmental
- Geopolitical
- Societal
- Technological

1.1 Management of materiality and risk

How TPBI manages risks



Risk Committee



A working group has been established to review and manage risk, comprising C-level and senior management



Assign the appropriate individuals to manage their respective risks

Five Steps of Risk Management Process



		Severity				
		Negligible	Minor	Moderate	Significant	Severe
Likelihood	Very Likely	Low Med	Medium	Med Hi	High	High
	Likely	Low	Low Med	Medium	Med Hi	High
	Possible	Low	Low Med	Medium	Med Hi	Med Hi
	Unlikely	Low	Low Med	Low Med	Medium	Med Hi
	Very Unlikely	Low	Low	Low Med	Medium	Medium

Risk Matrix Example

Likelihood X Severity = Risk Level

1.1.1 Key risks that affect value chain of the Company : Circular Economy

Key Value Chain of TPBI



Management of Production

Limitation of suppliers and new raw materials for **green products** manufacturing.



Operation

Machine improvement and adjustment for efficiency and responsive to **global trend** i.e. CE and green products.



Distribution and Export

Enactment of **trade barriers especially Carbon Footprint** in the EU and US i.e. CBAM CCA



Marketing and Sales

Timely response to customers with quality services.
Prompt responsiveness to **global trends**.



After - sales service

Always evaluate satisfaction of customers for services improvement

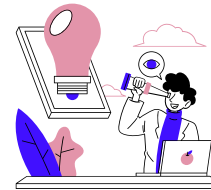
● Primary Activities

● Key Risk

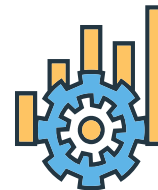
Strategic directions to tackle the risks



Portfolio management



Development of a new business with an emphasis on green products in compliance with respective markets



Improvements in operational efficiency and customer responsiveness

1.1.2 Short-term and Long-term goals with roadmap



The journey to Circular Economy way with Net zero

Lay Fundamentals (2021-2025)

Implement and expand (2026-2050)

Achieve target (2051-2065)

Goals

- CFO certified in 2021, and CFP is underway
- To be certified by CEMS, GRS and ISCC standard by 2024
- **Decarbonizing 30%** of production process by 2025 (vs 2021)
- We aim to have **green products represent 30%** of our portfolio by 2025

Activities

- Modify machines and facilities to accommodate manufacturing green products
- Provide training for process and system implemented for green products
- Partner with suppliers and customers to develop green products

Goals

- Reforestation (Sustainable Forestation) from 2026
- Aim to get Carbon Credit via T-VER by 2026
- Use renewable energy at least 35% from total consumption by 2030
- Increase green procurement 50% from 2021 baseline by 2035
- Aim to achieve **Carbon Neutrality** by 2050

Activities

- Enhance sales of green products
- Implement green projects e.g. EV vehicles, renewable energy, solar power
- Logistics management to reduce resource consumption and enhance green transportation
- Use more recyclable raw materials

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



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



1.1.3 Plan & Implementation

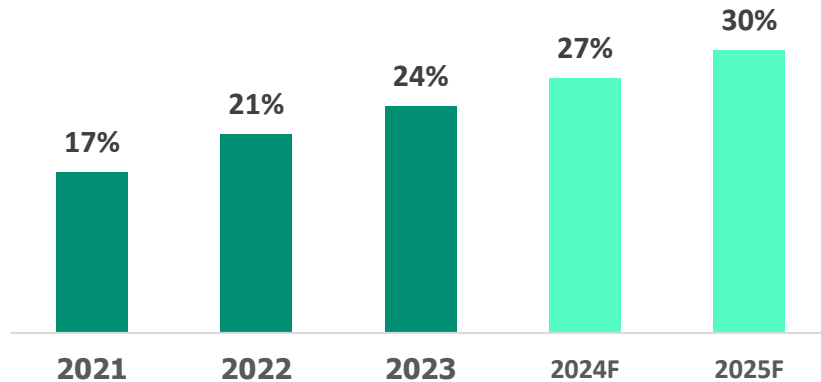


Key activities	Green Products	Decarbonizing	Process and Training
<p>On going</p>	<ul style="list-style-type: none"> • Expedite product innovation and get more green products certified i.e. GRS, CEMS. • Approach and engage customers in developing green products • Adjust and improve machines to respond to customers' request and global trend • CFP Certificate (Carbon Footprint of Products) to be kicked off in October 2023 	<ul style="list-style-type: none"> • Use clean energy; i.e. 100% solar power • Improve facilities; i.e. 100% EV forklift • Improve processes; i.e. reduce industrial waste, increase paperless processes • Increase carbon offset activities for carbon neutrality in future 	<ul style="list-style-type: none"> • Set up department of Circular Economy Business Development (CE-BD) and Product Compliance to drive company's Circular Economy activities • Provide training for process and system implemented for green products
<p>In pipeline</p>	<ul style="list-style-type: none"> • Seek new technology and raw materials for green products 	<ul style="list-style-type: none"> • Logistics management to reduce resource consumption and enhance green transportation • Use more recyclable raw materials 	<ul style="list-style-type: none"> • Provide training on ISCC standard

1.1.4 Results (1/2)



- 2021 - Received the **CFO certificate** for CFO 2020 from TGO and continues to undergo annual audits
- 2021 - Received **GECA**  for producing PCR mailing bags and successfully sold in Australian market
- 2021 - Established collecting & sorting and recycling units under  to close the loop between consumers and converters
- Green products represent 30% of total portfolio



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

1.1.4 Results (2/2)

- Drive new revenue streams from green products with green certifications
 - **Green materials** : successfully produced PCR materials
 - **Green products** :
 - PCR sorting bags (40% PCR certified by PITH) for home use
 - **Pallet made from 30% PCR material** (reduce carbon emission by 22% or 70 Kg CO₂ eq. per pallets)
 - **Upcycling products** : Work with designers and manufacturing partners to produce upcycling products

Green Material - PCR



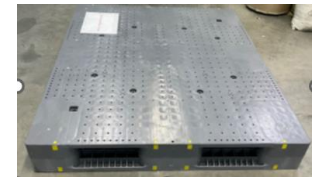
Upcycling Products



WONLOOP COFFEE TABLE SET

Resource Efficiency Award from TGDA

Green Products



1.2 Transparent CG in the company



Process Management

TPBI always ensure that our management structures are uniform, clear and easy to verify

The Chairman of the Board must be an independent director and there must be at least one-third independent directors, with a minimum of three people.

BOD

Showing transparency through
Opportunity Day
MD&A
AGM
 Investor Relation

Audit Committee comprising both independent director and management director.

Audit Committee

Internal Audit team from outsourcing **regularly audit** all functions of the company and **reports** directly to the audit committee.

Executive Committee comprising C- level of all functions.

Executive Committee

A group has been established to **conduct ongoing reviews of risk, sustainability, and governance** before presenting the findings to the Board of Directors.

Management level comprising manager level and led by C-level of each functions.

Management

DOA is also applied for **better checks and balances**. Internal control is tasked to **randomly audit across** all functions and units.

2. Climate Change Management

2.1 Greenhouse Gas Strategy

REUSE - Promote and produce more **reusable packaging**

REDUCE

- Improve **production efficiency** to reduce resources used
- Reduce **landfill waste** by promoting the use of mono-material packaging
- Reduce **fossil-based energy** consumption

RECYCLE

- Be a flagship of Polyethylene packaging **recycler (Extended Producer Responsibility)**
- Maximize the use **recycled materials up to 100%**

2.2 Goals and roadmap

2025

Decarbonization 30% of production process

2050

Carbon Neutrality

2065

GHG Net Zero

1.1.2 Short-term and Long-term goals with roadmap



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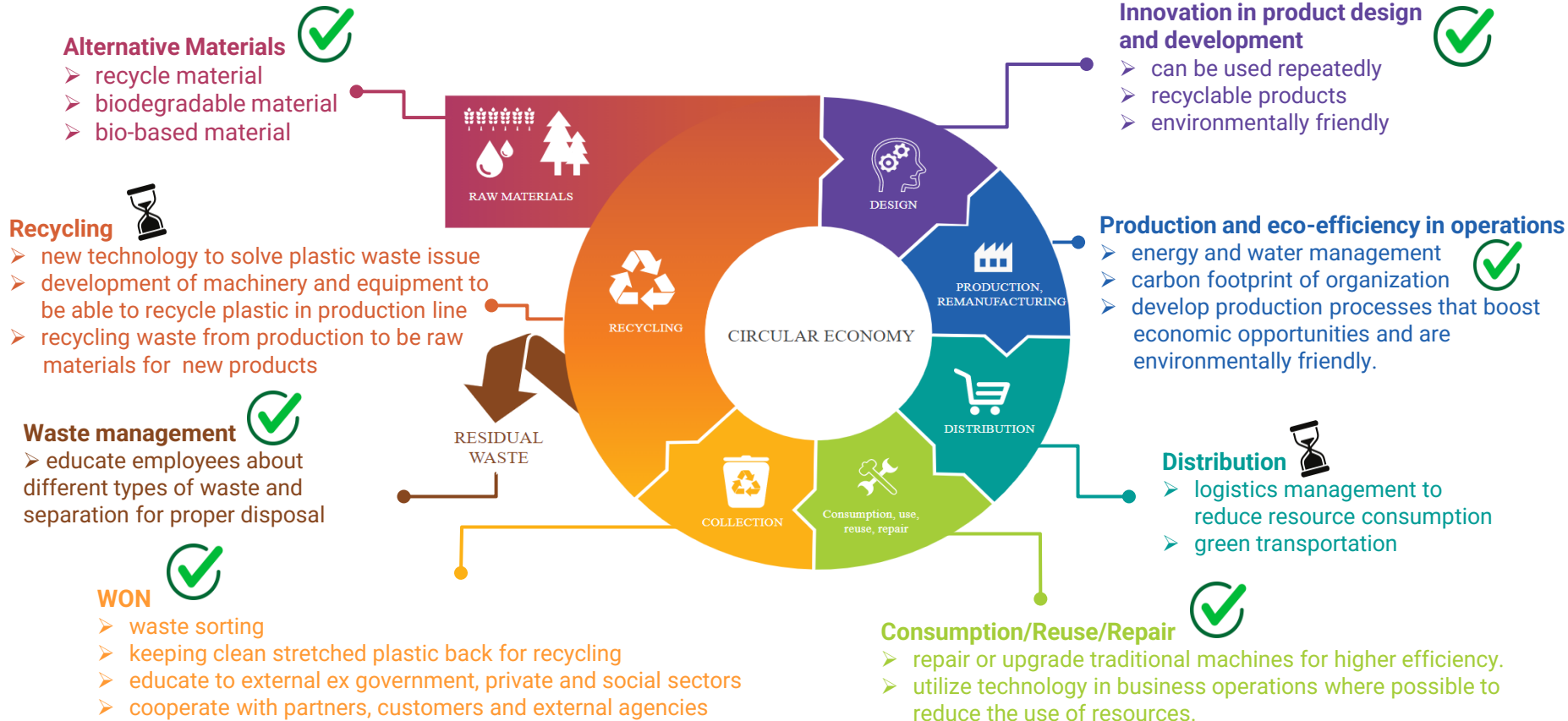
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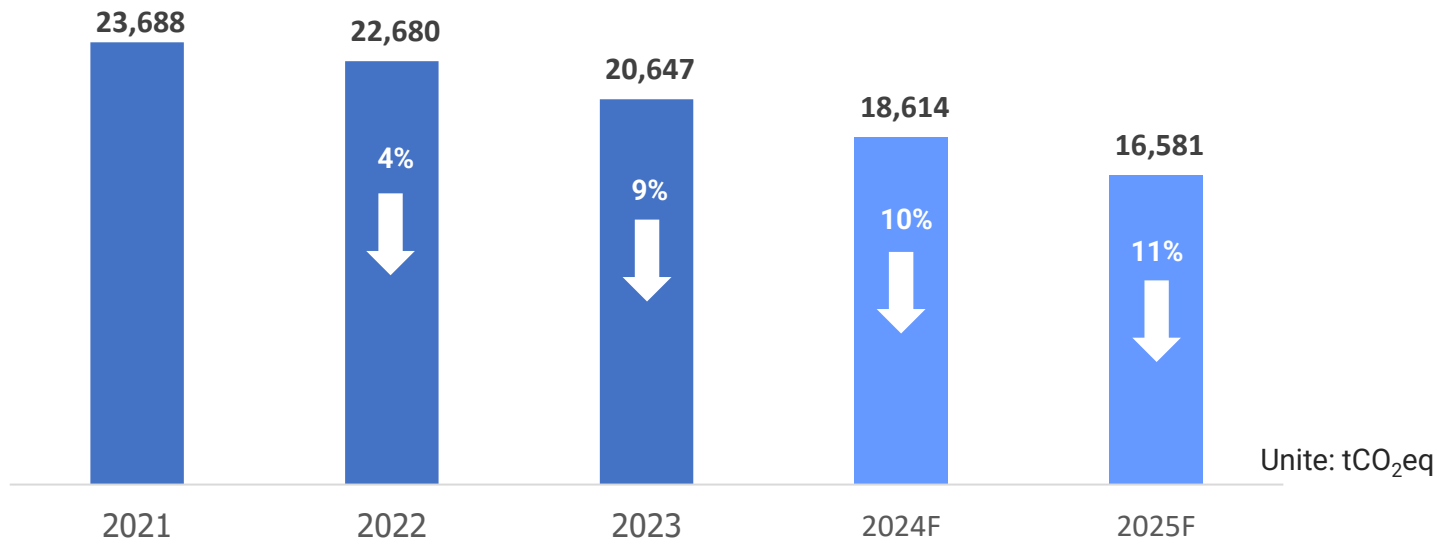
2.3 Plan & Implementation



2.4 Results



Decarbonization : Carbon Reduction 30% of production process within 2025



Carbon Footprint Emission (Scope 1 & 2)

3. Engaging in community development

3.1 The involvement and development of business-related communities and society Policy

Plastic pollution has become one of the most pressing environment issues as rapidly increasing production of disposable plastic products overwhelms the world's ability to deal with. Plastic pollution is most visible where garbage collection systems are often inefficient or nonexistent.



TPBI has established “WON” unit to elevate public awareness and bring the circular concept to life. Through the diligent collection and sorting of plastic waste, WON has effectively closed the loop between end-consumers and converters.

3.2 Short-term & Long-term goals of WON

Short-term (By 2025)



Increase recycled quantity of Stretchable Plastic Scrap



Increase Sorting Hubs for Stretchable Plastic Scrap



Collaborate with Partners in Circular Economy Way



Raise more awareness in public

Long-term (By 2035)



Create Shared Value (CSV) through WON



Demonstrate social responsibility through ethical work processes and contributing partial profits back to society



Conduct business with a Commitment to environmental responsibility



Generate new revenue streams

3.3 Plan & Implementation



Present

2023-2025

2026-2035

10 Sorting Hub

20 Sorting Hub

40 Sorting Hub



Educate and Expanding Sorting Hubs

- Continue educating public and sorting hubs for plastic waste segregation

- Get higher quantity and better quality of plastic waste
- Create waste management systems to deal with waste collection effectively
- Expand logistics capacity to reach out untapped areas for waste collection

- Joint Venture with potentials partners from plastic waste management system



Carbon Credit

- Collect data of GHG from waste collected by WON

Accumulate Carbon from WON Part

- Develop products from waste collection of WON and certified by TGO

Heading to Carbon Neutrality

- Develop activities to certify carbon credit via T-VER
- Make WON a center of TPBI Group in using collected plastic waste to offset carbon credit

3.4 Results (1/3)



Raise social awareness by recycling used-plastics into tangible products



RE-ROCK หอหินจากขยะพลาสติก

QUALITY x tpbi x GREEN

RE-ROCK
#BKKDW2023

Re-Rock and Strata pot



OVAL DESIGN
stands for
Circular economy of plastic waste

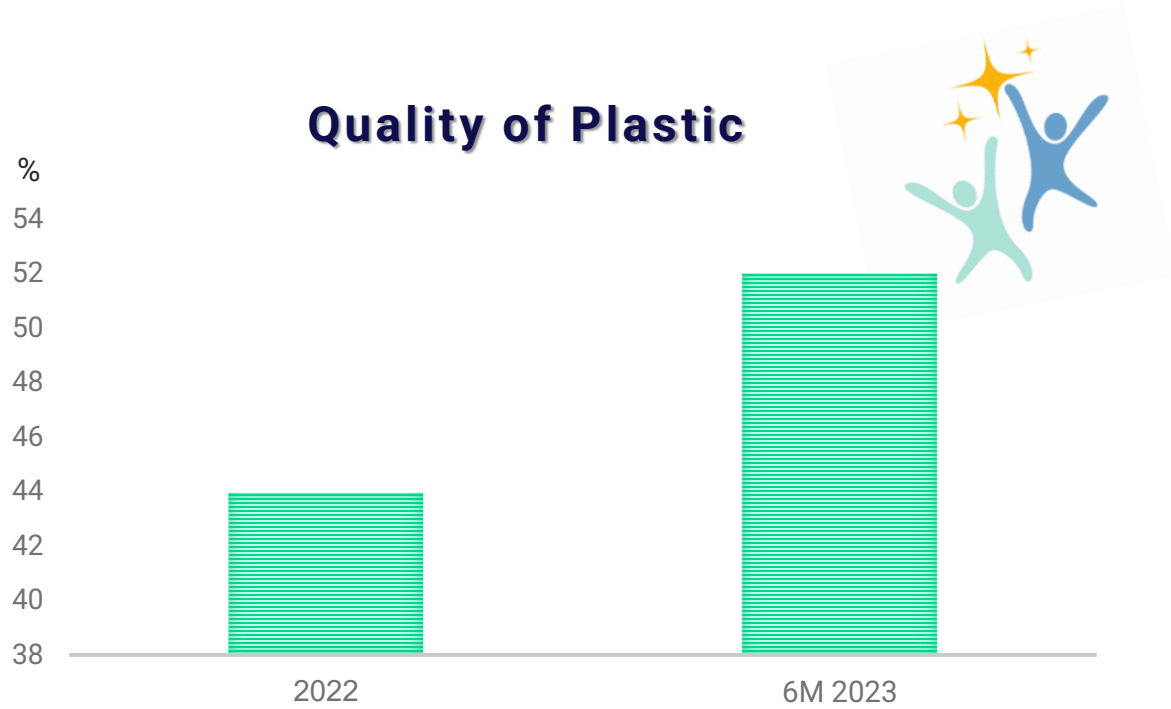
INFINITY DESIGN
stands for
Sustainability

Furniture: Won-loop



Pallets made from PCR

3.4 Results (2/3)



Better quality of waste reflects higher awareness and clearer understanding

3.4 Results (3/3)



Increase social awareness thru activities for better understanding of sustainability

WON TO SCHOOL

"พาน้องวน"

บริษัท ทีพีบีไอ จำกัด (มหาชน) ได้จัดทำกิจกรรม "พาน้องวน" หรือ โครงการพาน้องวนจำนวน 4 โรงเรียน ตั้งแต่วันที่ 24 สิงหาคม 2565 เพื่อส่งเสริมให้เยาวชนมีความรู้ความเข้าใจใน การบริหารจัดการขยะและทรัพยากรที่เป็นมิตรต่อสิ่งแวดล้อม เพื่อลดปริมาณขยะที่ส่งออกจากชุมชน ส่งผลกระทบต่อสิ่งแวดล้อมในบริเวณชุมชน และสามารถนำขยะไปรีไซเคิลหรือใช้ประโยชน์ โดยมอบถังขยะ 25 ใบต่อโรงเรียน 1 โรงเรียน มอบถังขยะรีไซเคิล 2 ใบต่อโรงเรียน 1 โรงเรียน

"วน" ได้ เราให้อุปกรณ์กีฬา

ผลการดำเนินงานระยะเวลา 6 เดือน จากความร่วมมือของทุกฝ่ายได้ช่วยกันเก็บ แยก และแยกขยะพลาสติกจากบ้านพักนักเรียน เพื่อส่งเข้ารีไซเคิลโครงการ ส่งงานเข้าสู่โครงการรีไซเคิลพลาสติก โดยนำพลาสติกมาผลิตเป็นกระเป๋าสานรวมได้ 118 กก. และบริจาคให้โรงเรียนในชุมชน จุดประสงค์หารวมมูลค่า 12,000 บาท

การส่งมอบอุปกรณ์กีฬา

เมื่อวันที่ 15 มิถุนายน 2566 กลุ่มนักเรียน ได้รณรงค์และประชาสัมพันธ์ให้โรงเรียนนำขยะพลาสติก-Consumables ไปรีไซเคิลเพื่อทำเป็นอุปกรณ์กีฬา ได้ใช้ประโยชน์เป็นมูลค่า 4,500 บาทตามผลการดำเนินงานตลอดโครงการ และทางโรงเรียนจะยึดถือเป็นส่วนหนึ่งของโครงการต่อไป



Awards received from reliable organizations

THAILAND GREEN DESIGN AWARDS

- Green Honorary Award for "WON" project
- Resource Efficiency Award for "Coffee Table Set" from "WonLoop"

Brand of the Year Award (Environment)

Real Impact Awards 2565



A dark blue horizontal bar with the word 'APPENDIX' in white, bold, uppercase letters centered within it. The background of the slide features a light blue gradient with a large, white, 3D architectural structure resembling a pyramid or a series of stacked, overlapping planes that create a sense of depth and perspective.

APPENDIX

TPBI GROUP OVERVIEW



Company Profile

- Established in 1987 by Borrisuttanakul family as a plastic bag manufacturing and trading company.
- Consistently grown through organic expansion, mergers, and partnerships in the past 4 decades.
- Become a market leader in packaging industry in Thailand.
- Listed on Stock Exchange of Thailand in 2016.
- Strongly believes and places high value on **Circular Economy**
- Always develop its business around this concept and promote it in the industry by emphasizing on

“Think Circular, Think Sustainable”.

“To be a leading packaging manufacturer who achieves sustainable growth together with all stakeholders”

Share Summary

Number of Shares Outstanding (mm)	416.88
Registered Shares (THB mm)	416.88
Paid-up Capital (THB mm)	416.88
Par Value per Share (THB)	1.00
Share Movement (Jan 23 – Jun 23)	
Range (THB)	5.35 – 3.32
Average (THB)	4.33
Average Market Capitalization (THB mm)	1,806.70
Average Daily Trading Value (THB mm)	1.96
Dividend Payout Policy (%)	At least 50% of net profit*

*Subject to cash flow, financial status, potential investment and others

Shareholders

Borrisuttanakul family	65.82%
BBLAM	7.02%
Others	27.16%

*Shareholder holding as of 30 June 2023

ORGANIZATION STRUCTURE



CEO
Chamaiporn U.



COO Consumables
Sittichai B.



COO Flexibles
Domdej S.



COO Paper
Wandee P.



CFO
Kamol B.



CMO
Saksit B.



Dept. CHRO
Sudarat B.



Sourcing & Purchasing
Nimit W.

TPBI BUSSINESS DIVISIONS



Consumables

- Garbage bags
- Loop-handle/Die cut bags
- Zipper bags
- Mail Order bags/Liner bags
- Biodegradable/Compostable bags
- Fruit & Vegetable bags
- Fashion bags
- LLDPE food bags
- Vest carrier/T-shirt bags



Flexibles

- Lamination film
- Barrier film
- Stretch hood/ Shrink film
- Packaging for frozen food, ready-to-eat food and snacks
- Digital Printing



Paper

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



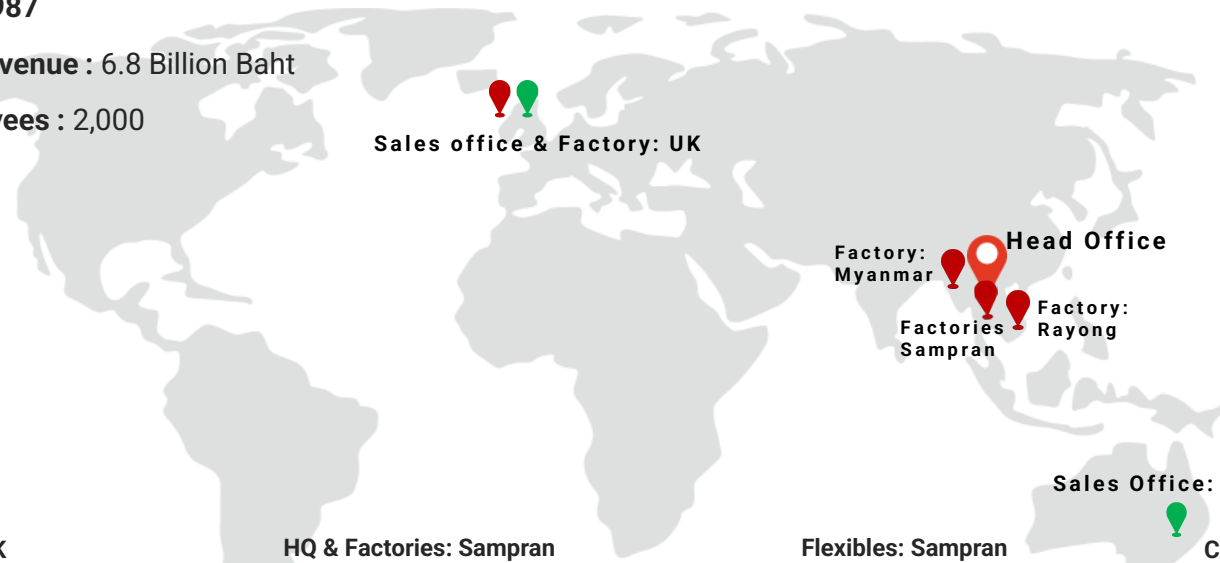
Global Trading

- Reusable bags
- Piping bags
- All products from Consumables, Flexibles, and Paper divisions

TPBI AT A GLANCE



- Founded in 1987
- 2022 Sales revenue : 6.8 Billion Baht
- Group employees : 2,000



Paper: UK



HQ & Factories: Sampran



Flexibles: Sampran



Consumables: Rayong

