

Stock Code : 6887

BORETECH Resource Recovery
Engineering CO., LTD.

Institutional Investor
Conference

GROUP



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Presentation Outline

- 01 Group Overview
- 02 Industry Trends
- 03 Product Introduction and Future Outlook
- 04 Business Performance

Group Overview

Basic information

Name	BORETECH Resource Recovery Engineering CO., LTD. (stock code : 6887)
Establishment Date	April 2013 (Date of incorporation of the Cayman Islands holding company)
Capital	NTD 740 million
Number of Employees	732 (as of December 31, 2024)(606 in China, 121 in Taiwan, 5 in overseas locations)
Core Business	Polyester fiber, recycled polyester pellets, and environmental protection engineering
Main Locations	Fuyang, Zhejiang (Anshun Chemical Fiber)Pinghu, Zhejiang (Zhejiang Boretech)Tainan, Taiwan (Taiwan Boretech)

Major Subsidiaries



Name	ZHEJIANG BORETECH ENVIRONMENTAL ENGINEERING CO., LTD.
Establishment Date	2005.10.27
Capital	USD 23.5 million
Number of Employees	310 (as of December 31, 2024)
Core Business	design, manufacture and engineering of recycling production line and equipment
Locations	No.888, Jiuliting Avenue, Caoqiao Street, Pinghu, China

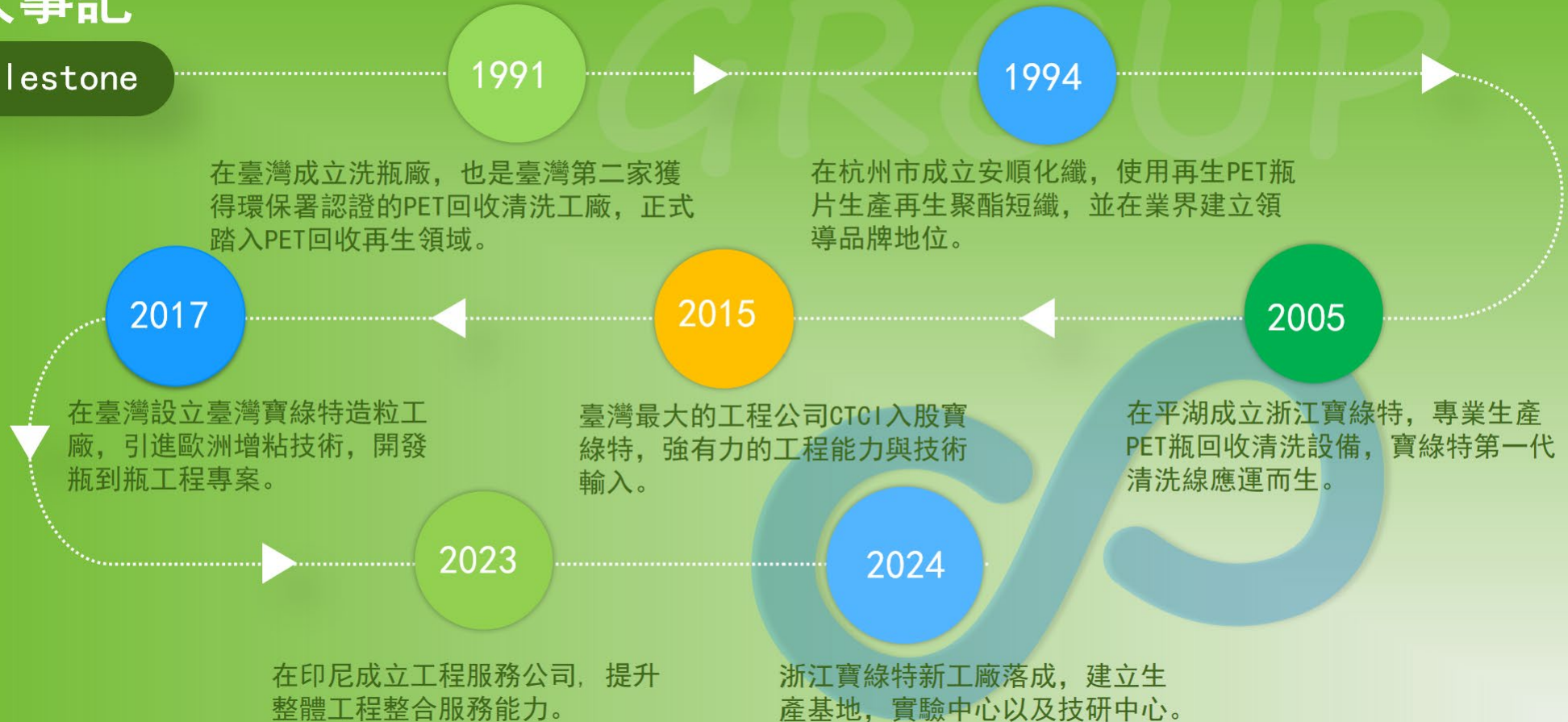
Name	BORETECH RESOURCE RECOVERY TECHNOLOGY CO., LTD.
Establishment Date	2017.11.16
Capital	NTD 338 million
Number of Employees	95 (as of December 31, 2024)
Core Business	plastic recycled raw materials producing
Locations	No. 2, Gong 6th Road Liuying District Tainan City

Name	ZHEJIANG ANSHUN PETTECHS FIBER CO., LTD.
Establishment Date	2003.9.17
Capital	USD 7.596 million
Number of Employees	309 (as of December 31, 2024)
Core Business	recycled raw materials to produce polyester staple fibers.
Locations	Rd.12 Dongzhou Industrial Zone, Fuyang Dist. Hangzhou, China

Corporate Milestones

大事記

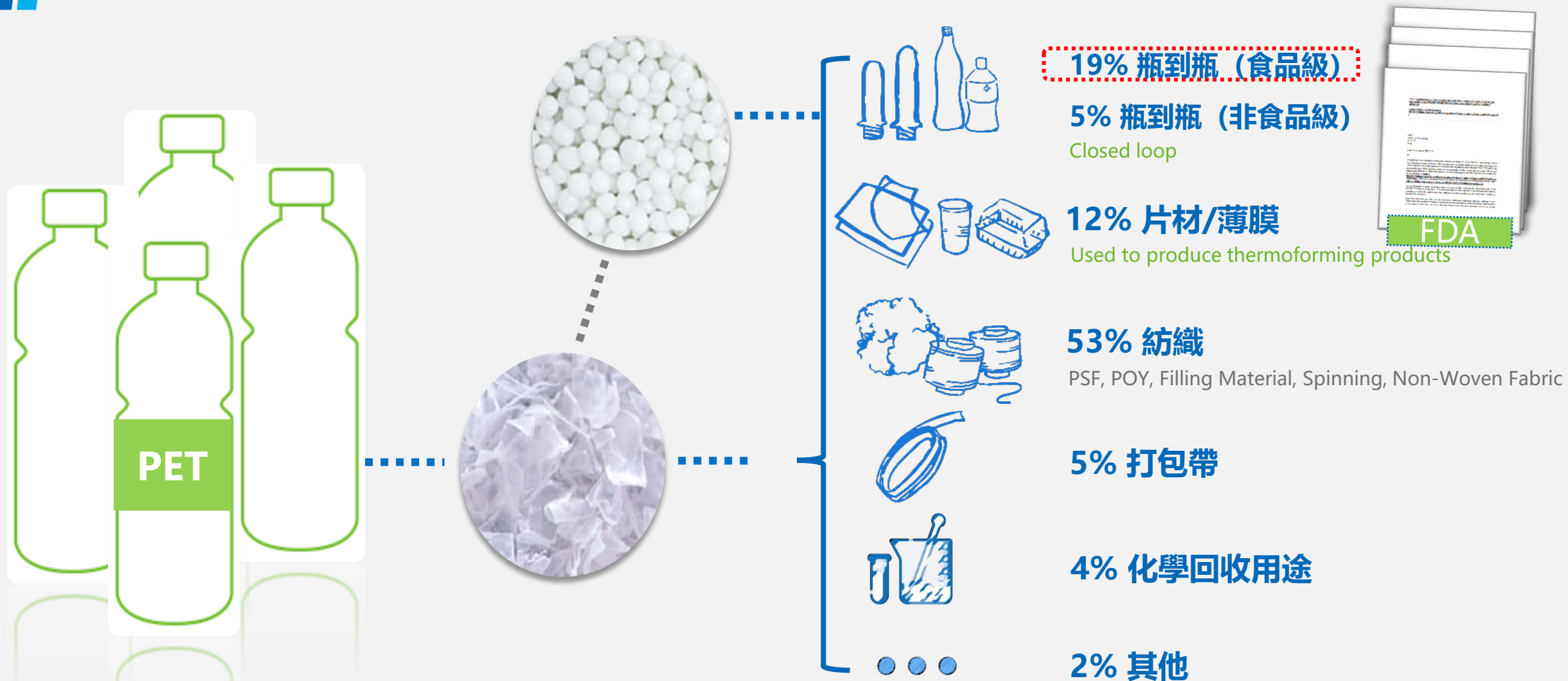
Milestone



Industry Trends



Applications of Recycled PET Bottle Flakes



數據來源: Wood Mackenzie 【global-rpet-supply=demand-outlook-november-2024】

Application Grades of Recycled PET Flakes/Chips

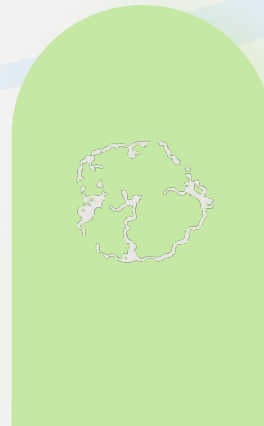
**RPET QUALITY
DETERMINES ITS
DOWNSTREAM
APPLICATIONS LEVEL**

The rPET produced by Boretech is food-grade recycled polyester pellets.

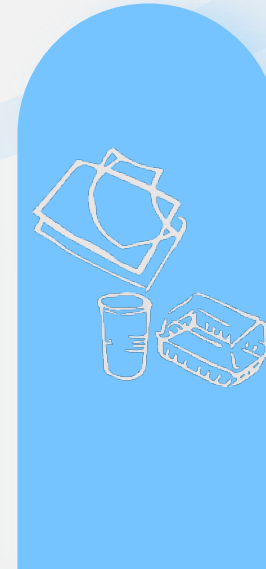
Product Value-added



Low-grade
Staple Fiber



Monofilament



Sheet (PET
Sheet)



Eco-friendly
Filament /
Sustainable
Filament



Food-grade
Pellets
Microfiber
Filament

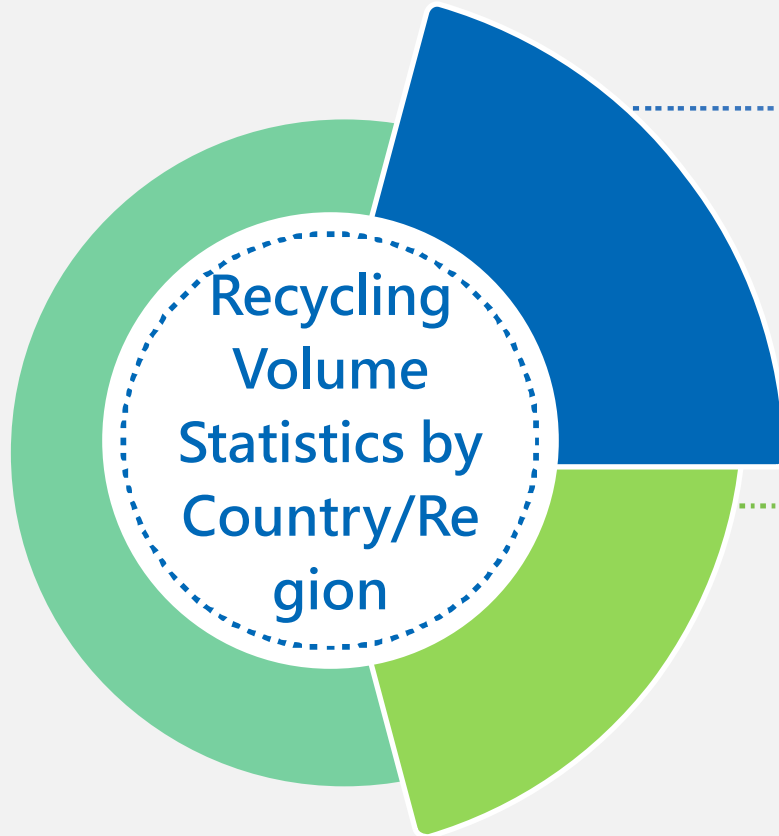
Global PET Recycling Statistics

Global PET Data for 2024(Source: WM Report)

- Consumption: 27.15 million metric tons
- Recycling Rate: 55% (Africa 33% · **Asia 70%** · Europe 68% · Latin America 42% · North America 35%)
- Recycled Volume: 15.06 million metric tons (**Top Four Countries** : China: 5.83 million metric tons · India: 1.04 million metric tons · United States: 0.84 million metric tons, Japan: 0.67 million metric tons)

Recycled Volume by Major Countries or Regions (million metric tons)

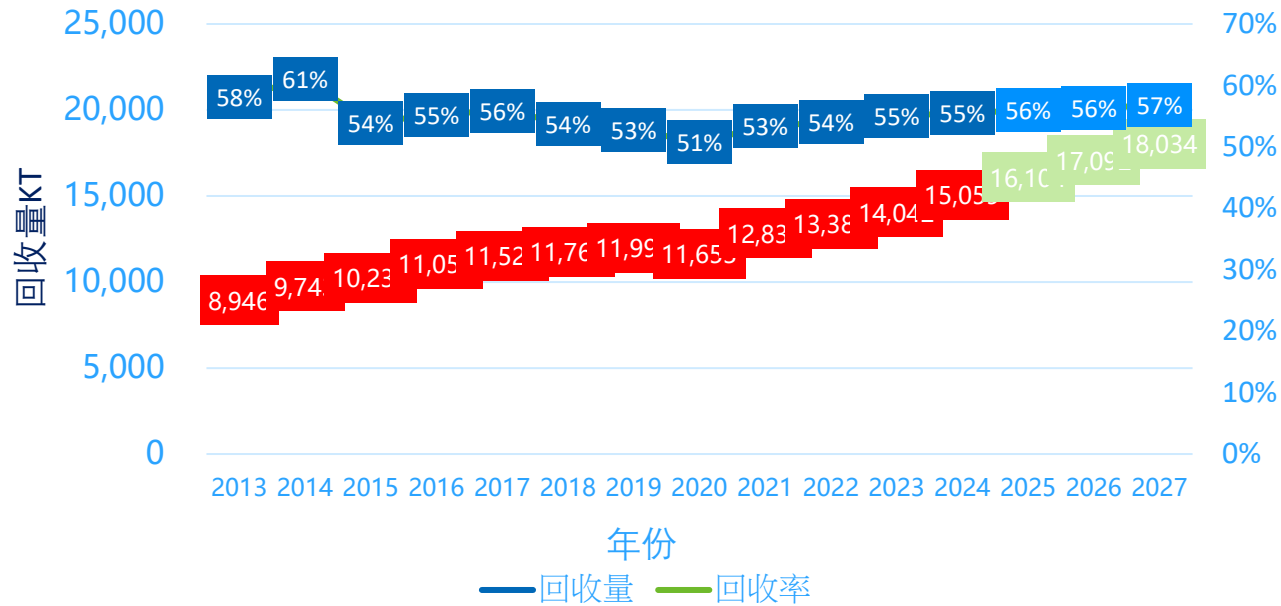
- **East Asia** China: 5.83, Japan: 0.67 , South Korea: 0.25 , Taiwan: 0.19
- **South Asia** India: 1.04 ,Pakistan: 0.16 ,Bangladesh: 0.12
- **North America** United States: 0.84, Mexico: 0.58, Canada: 0.12
- **Latin America** Brazil: 0.36, Argentina: 0.08, Colombia: 0.08
- **Southeast Asia, Oceania, and the Middle East** Vietnam: 0.18, Indonesia: 0.14, Thailand: 0.13, Australia: 0.10, Iran: 0.08, Saudi Arabia: 0.07
- **Africa** Egypt: 0.13, South Africa: 0.13
- **Europe** Germany: 0.49, Italy: 0.34, Turkey: 0.31, France: 0.27 , United Kingdom: 0.25, Spain: 0.24



The annual processing capacity is approximately 5.54 million metric tons, based on operational washing equipment lines.

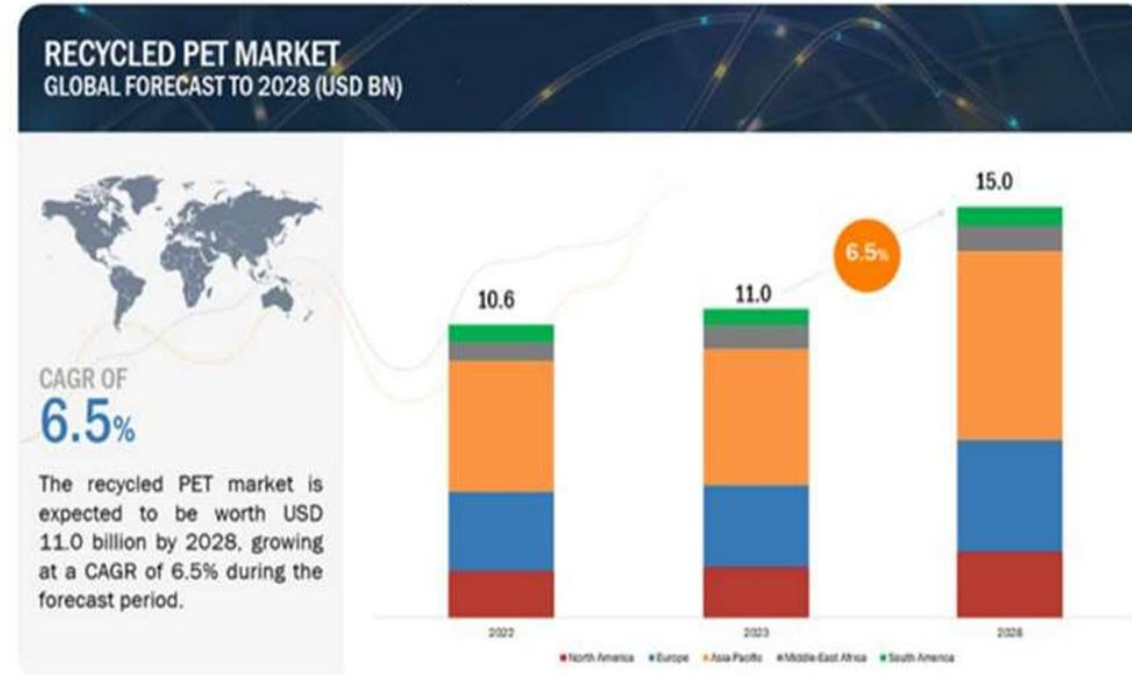
Global Recycled PET (rPET) Industry Overview

全球PET回收量、回收率



數據來源: Wood Mackenzie · 【global-rpet-supply=demand-outlook-november-2024】

Global Recycled PET Market Trends



資料來源: DataM Intelligence, Global Recycled PET Market(2024)

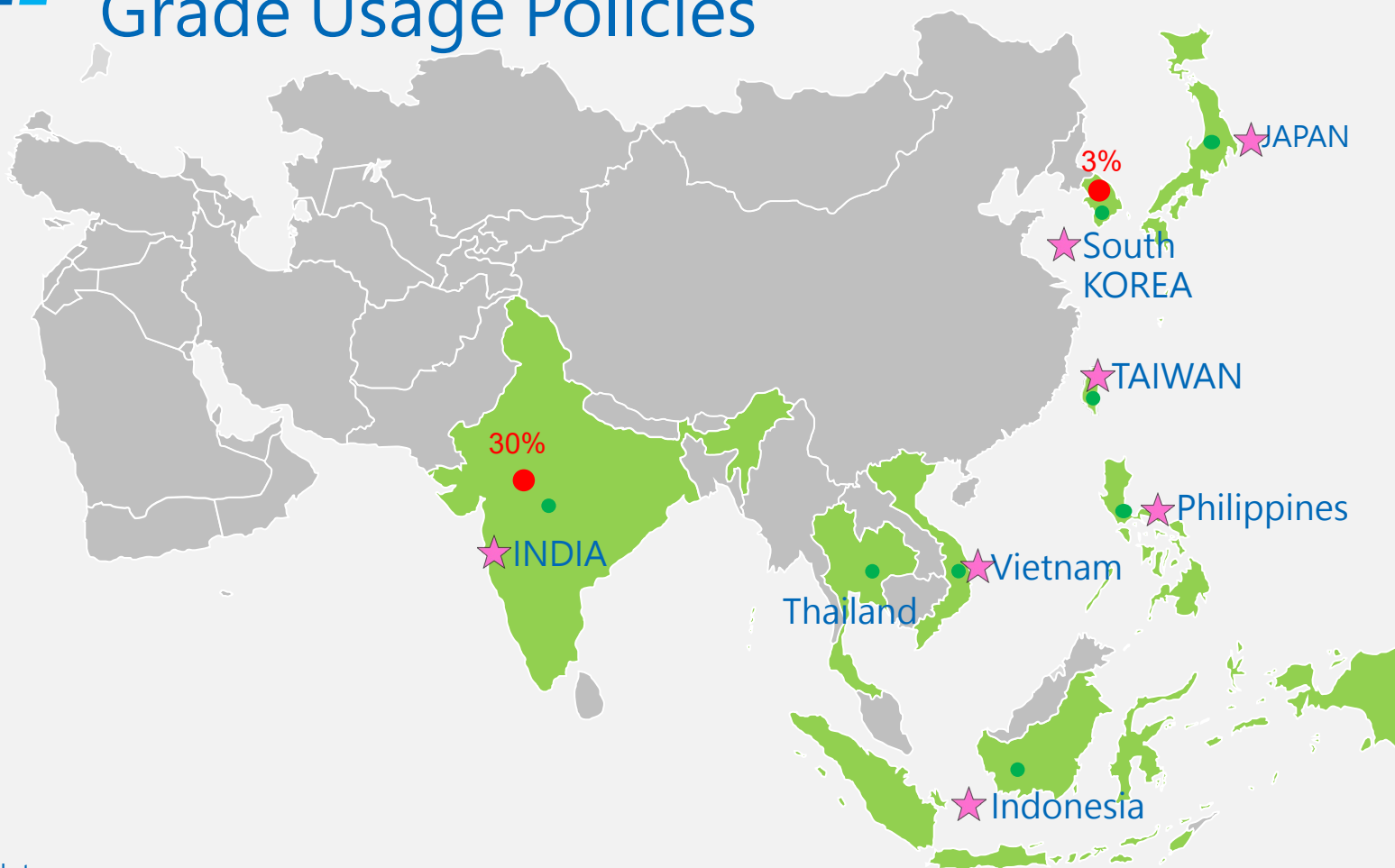
- Research institutions project global PET consumption to reach 31.79 million tons by 2027. The recycling rate is expected to increase from 55% in 2024 to 57%, totaling approximately 18.03 million tons.
- Based on market survey data, the global rPET market is forecasted to grow at a compound annual growth rate (CAGR) of 6.5% through 2028.



The Key Role of rPET Demand Growth

- The rising demand for recycled PET (rPET) is being significantly driven by a combination of national plastic-related policies and global brand initiatives. These two forces are expected to catalyze the broader adoption and utilization of recycled plastics.
1. Governments across various countries are introducing and enforcing regulations and policies related to plastics, including the following key measures:
 - **Approval of Recycled Plastics in Food Packaging:**
 - **Extended Producer Responsibility (EPR):** Under EPR frameworks, producers are held responsible not only for the production process but also for the entire lifecycle of their products, particularly post-consumer waste collection and disposal.
 - **Minimum Recycled Content Requirements :** Regulations are being enacted to require that single-use plastic beverage bottles contain a minimum percentage of recycled plastic content.
 - **Deposit Refund System :** Consumers pay a deposit when purchasing bottled beverages and receive a refund upon returning the empty containers. This system aims to improve recycling rates and reduce plastic pollution.
 2. In parallel, global brand owners have publicly committed to meeting their 2025 targets for incorporating Post-Consumer Recycled (PCR) materials in their packaging. These commitments are further accelerating the development of a circular plastic economy.

Asia – EPR / Minimum Recycled Content / Food-Grade Usage Policies



Notes:

- Philippines: Food-grade rPET is permitted with restrictions. Currently, approval is granted on a case-by-case basis, per product and company, rather than by resin type or industry category.
- Vietnam: Food-grade rPET is not explicitly prohibited. Packaging for food applications must comply with safety regulations. Since late 2020, bottled water containing 50% food-grade rPET has appeared on supermarket shelves.
- Singapore and Thailand: EPR implementation is upcoming.
- Malaysia: In October 2024, the Ministry of Investment, Trade and Industry (MITI) announced that mandatory EPR will be implemented within the next 3 to 5 years.

- Food-grade rPET usage permitted
- ★ EPR implemented
- Minimum recycled content required

EU – EPR / Minimum Recycled Content Requirements

The Single-Use Plastics Directive (EU) 2019/904 mandates Extended Producer Responsibility (EPR) programs for specific packaging types, including takeaway food containers, wrappers, plastic beverage bottles, and cups (including lids). It also sets mandatory recycled content targets for PET bottles.

EPR Targets :

Plastic bottle separate collection rates :

77% by 2025

90% by 2029

Minimum Recycled Content in PET Bottles :

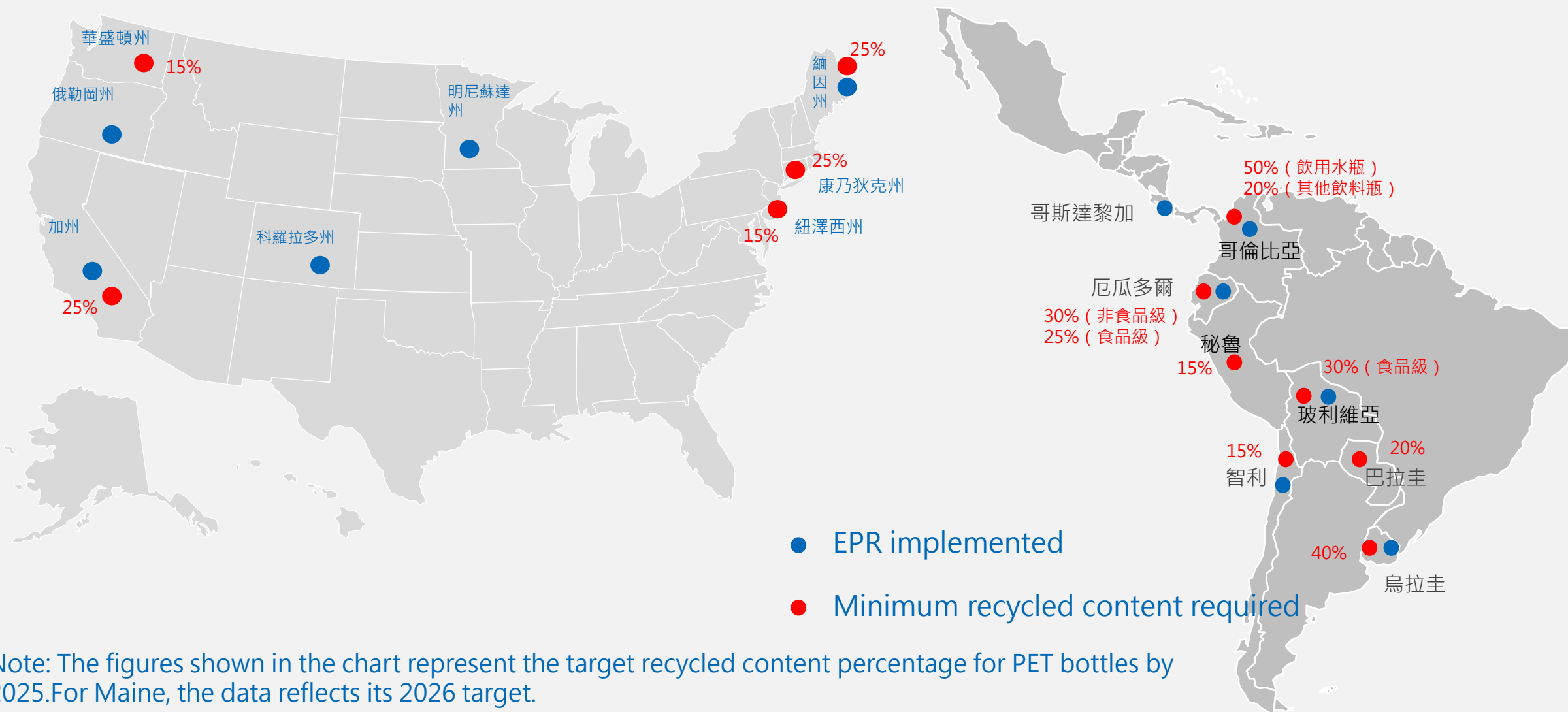
25% by 2025

30% by 2030





America – EPR / Minimum Recycled Content

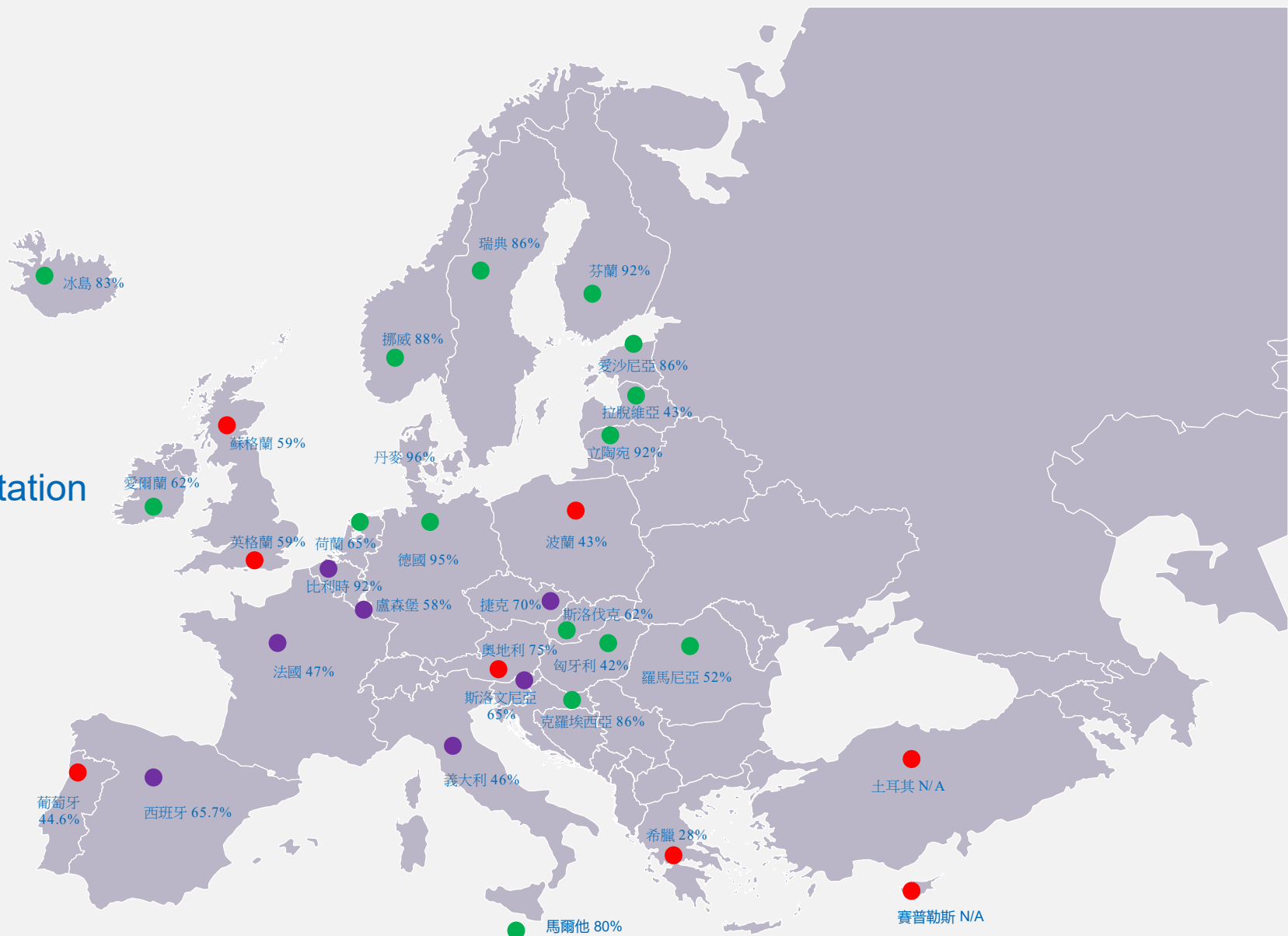


Countries/Regions with DRS Implementation

- Implementation
- Legislated
- Under Discussion

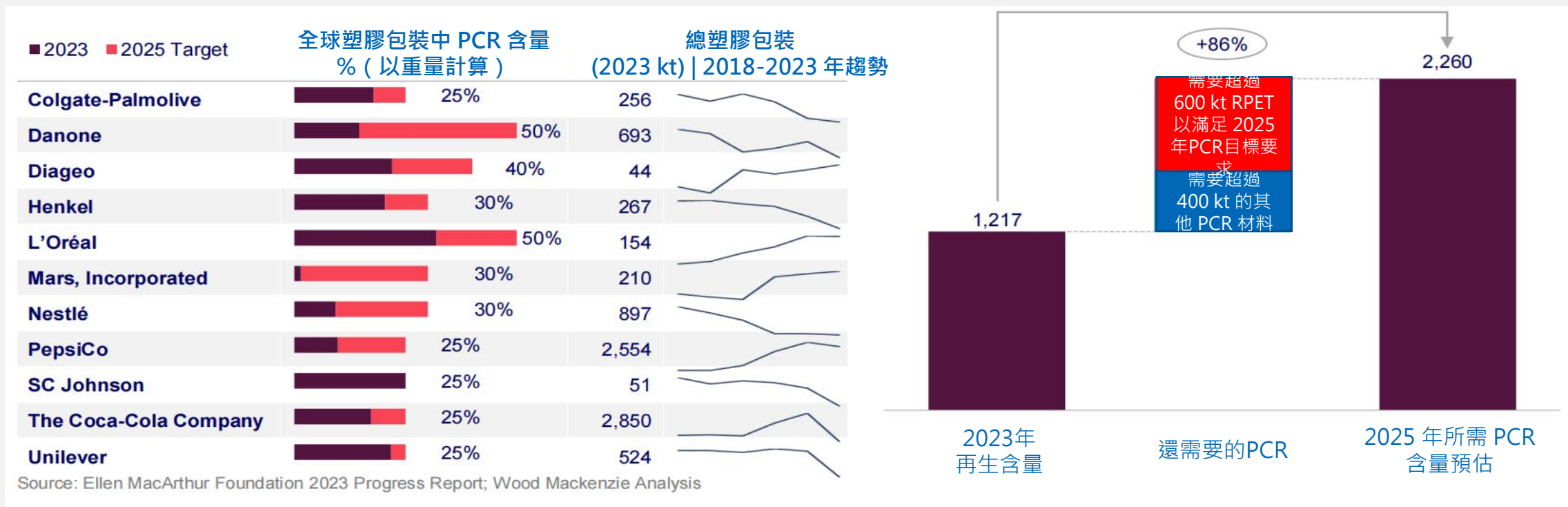
Note: The figures in the chart represent PET bottle collection rates by country/region.

Source: UNESDA



Brand Commitments

Despite significant progress by brands toward their 2025 sustainability goals, challenges remain—particularly the supply and pricing of post-consumer recycled plastics (PCR). At the same time, the industry continues to face a structural imbalance due to overcapacity in virgin PET (vPET) production. Progress of Major Global FMCG Brands Toward 2025 Plastic Packaging Targets:



Product Introduction and Future Outlook



R&D, Systems, and Integrated Engineering Services Division

- ✓ One-stop recycling and washing solutions for plastics including equipment and engineering services
- ✓ Provider of recycled polyester fiber production equipment and downstream technical services
- ✓ Engineering design, manufacturing, and services for food-grade bottle-to-bottle recycling projects
- ✓ Process technology and equipment for chemical recycling methods



ANSHUN

Recycled and Composite Fiber Production & Technology Division

- ✓ Polyester staple fibers ranging from 1.0D to 60D, including flame-retardant fibers, functional fibers, and GRS TC-certified fibers
- ✓ Composite fibers for hygiene applications
- ✓ Biodegradable fibers
- ✓ Marine-derived fibers
- ✓ Customized, targeted product development supported by a dedicated fiber R&D center to ensure continuous innovation, optimization, and technical advancement



Food-Grade PET/PP Resin Production & Technology Division

- ✓ Recycled PET flakes
- ✓ Recycled PET resins
Applications: food packaging, microfiber, filament yarn, sheet extrusion, injection molding
- ✓ Recycled polypropylene (PP) pellets



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Plastic Recycling and Washing Solutions & Engineering Services

PET Bottle Recycling and Washing



The latest ES process features high processing capacity, compact footprint, flexible process configurations, modularized units, a high degree of automation, and excellent cleanliness of PET flakes.

Supporting Auxiliary Systems



Powder cleaning systems
IAS (Intelligent Automation System)
On-line water circulation systems
Wastewater treatment systems

Rigid Mixed Plastics Recycling and Washing



High-value recovery solutions for HDPE bottles, PP/PE materials, and post-consumer PP food containers.

Semi-Chemical Recycling: rBHET Process

Advanced EG deep-cleaning technology
MEG-based washing, glycolysis, and impurity removal
rBHET oligomer powder can be blended with PTA and MEG in virgin PET production units for reuse



Recycled Polyester Fiber and Downstream Production Equipment & Technology

ES Bicomponent (PP/PE(ES), PET/PE (ET), PET/PA, PET/LOW MELT PET)



Staple Fiber Production Lines and Engineering



Filament Yarn Production Solutions and Engineering POY,DTY,FDY



Nonwoven Fabric Equipment





PET Bottle-to-Bottle Equipment and Technology Integration



Comprehensive PET bottle-to-bottle EPIC services are provided, including
Washing | Pelletizing | SSP



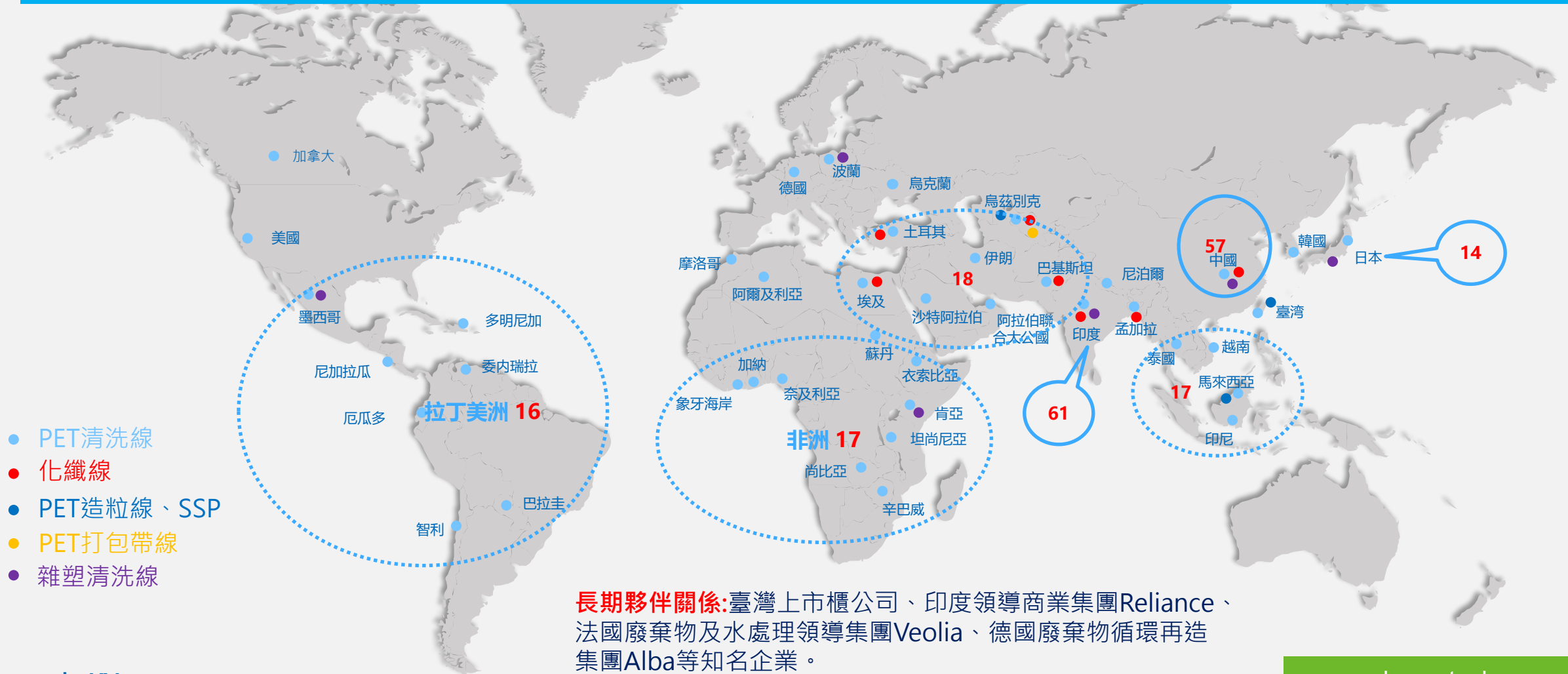
FDA
APPROVED

- food-grade contact standards
- AA < 1

Current Status of Global Market Sales for BoReTech[®] Equipment and Engineering Services

Plastic Recycling Solution

265+ 條寶綠特PET瓶回收清洗及應用端生產線在全球**40**個國家及地區運行



Recycling and Washing Solutions Under Development

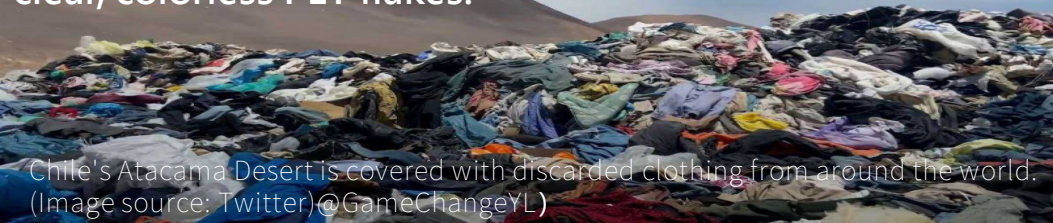
PET Tray-to-Tray Recycling and Washing



Reduced material loss, increased processing capacity, and advanced deodorization technology enable food-grade quality.

Chemical Recycling of Waste PET Plastics into rPET

Mixed waste—such as colored PET bottles, films, fabric offcuts, and garments—is processed and purified into clear, colorless PET flakes.



Chile's Atacama Desert is covered with discarded clothing from around the world. (Image source: Twitter)@GameChangeYL)

PP Woven Bag Recycling System



PP woven bag recycling system combines dry impurity pre-treatment with dissolution technology to recover high-purity PP material.

PE Film Recycling and Washing System



Process design and integrated system development for PE film recycling, including core equipment and machinery.



Equipment Engineering – Key Development Strategies

Boretech leverages vertical integration to offer turnkey solutions across the recycling value chain—from design to installation. This all-in-one model is rare in the industry.

Process Technology

- Diversify recycling methods: physical, chemical, solvent-based, and pyrolysis
- Expand upstream (MRF) and downstream (extrusion, molding, modification) systems
- Build a full product portfolio: mature, growth, and emerging solutions



Equipment Engineering – Key Development Strategies

- Engineering Services
 - Integrate recycling technologies into commercial solutions via an engineering service platform
 - Source technologies through in-house R&D and academia-industry collaboration
 - Strengthen organizational structure and design capacity to evolve into a full EPC company
- Global Marketing
 - Deepen presence in core markets: China, India, Japan — expand product offerings
 - Develop emerging markets: Latin America, Africa



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Food-Grade PET/PP Resin Production & Technology Division

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Applications: food packaging, microfiber, filament yarn, sheet extrusion, injection molding
- ✓ Recycled polypropylene (PP) pellets

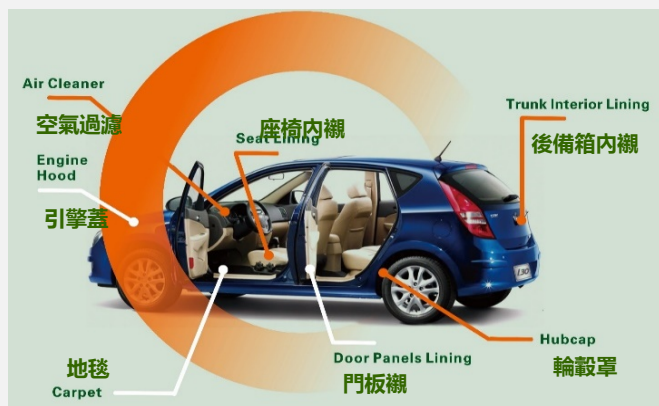
Differentiated Functional Products in Chemical Fiber Segment

- We offers a diverse range of functional chemical fiber products. Through tailored production technology configurations, it delivers customized solutions that meet specific customer requirements.

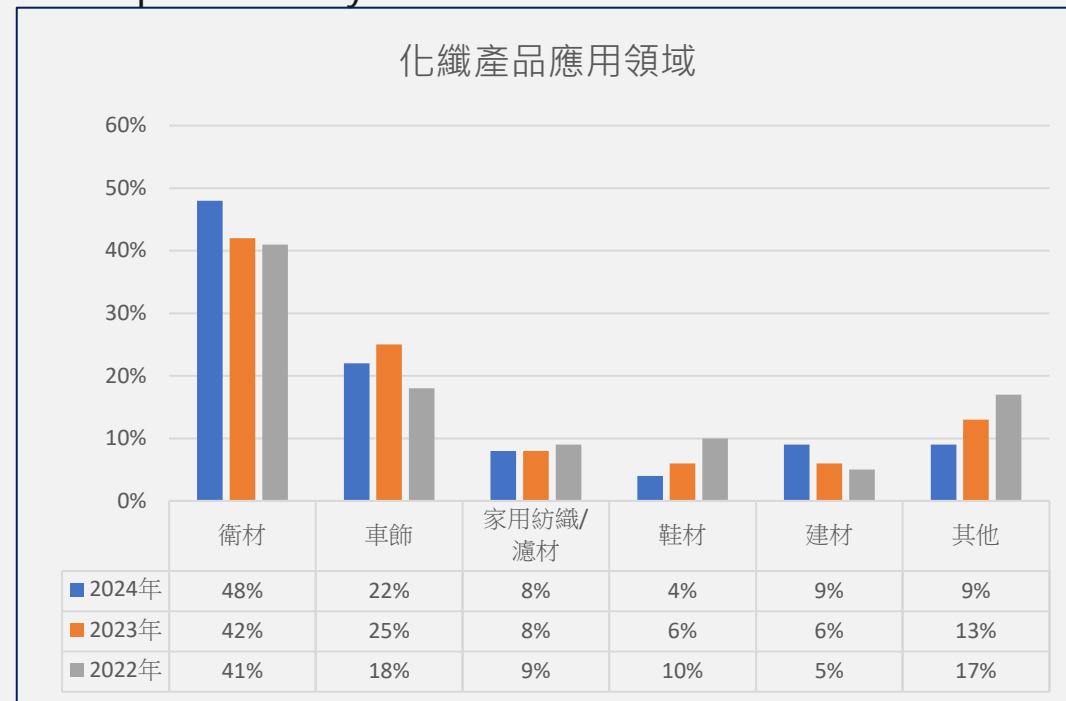


// Applications of Polyester Fiber

- Polyester fiber products are widely applied across various sectors, including automotive interior materials, sound insulation, footwear materials, construction materials, filtration media, apparel, home textiles (e.g., curtains), and hygiene products (e.g., disposable diapers).



The main application areas of fiber products over the past three years are shown in the chart below.





Chemical Fiber – Key Development Strategy



Positioned as a customized service-oriented fiber manufacturer, Boretech builds its value on proprietary technologies and focuses on the following strategic pillars:

- R&D Facilities

Dedicated R&D building with full-scale testing and development equipment.

- Product Optimization

Phase out low-margin products; focus on high-margin product development and sales.

- Capacity Expansion

Seek M&A opportunities in regions like Europe and China to drive future revenue growth.



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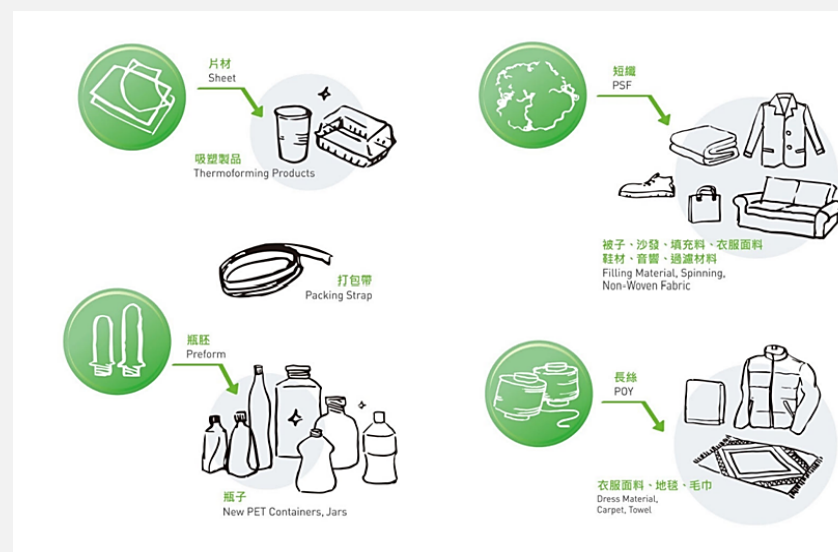


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➤ Applications of rPET

- rPET products can be used as raw materials for the production of sheets, filament yarns, staple fibers, and PET bottles.
 - The company sources PET bottle flakes of various grades from around the world and blends them according to customer-specific quality requirements, adjusting process parameters to meet individual specifications.
- The company's rPET products are FDA-approved, and are supplied to clients across both food-grade and non-food packaging sectors.
- Through a fully integrated process that includes washing, pelletizing, SSP, the production line achieves over 30% energy savings, offering significant advantages in terms of environmental impact and carbon emissions. °





Relevant Certifications Obtained Worldwide

ISO 9001
ISO 14064
ISO 14067



Recycled Marine
Debris Product



Future Development Strategy for Boretech's Recycled Polyester Business

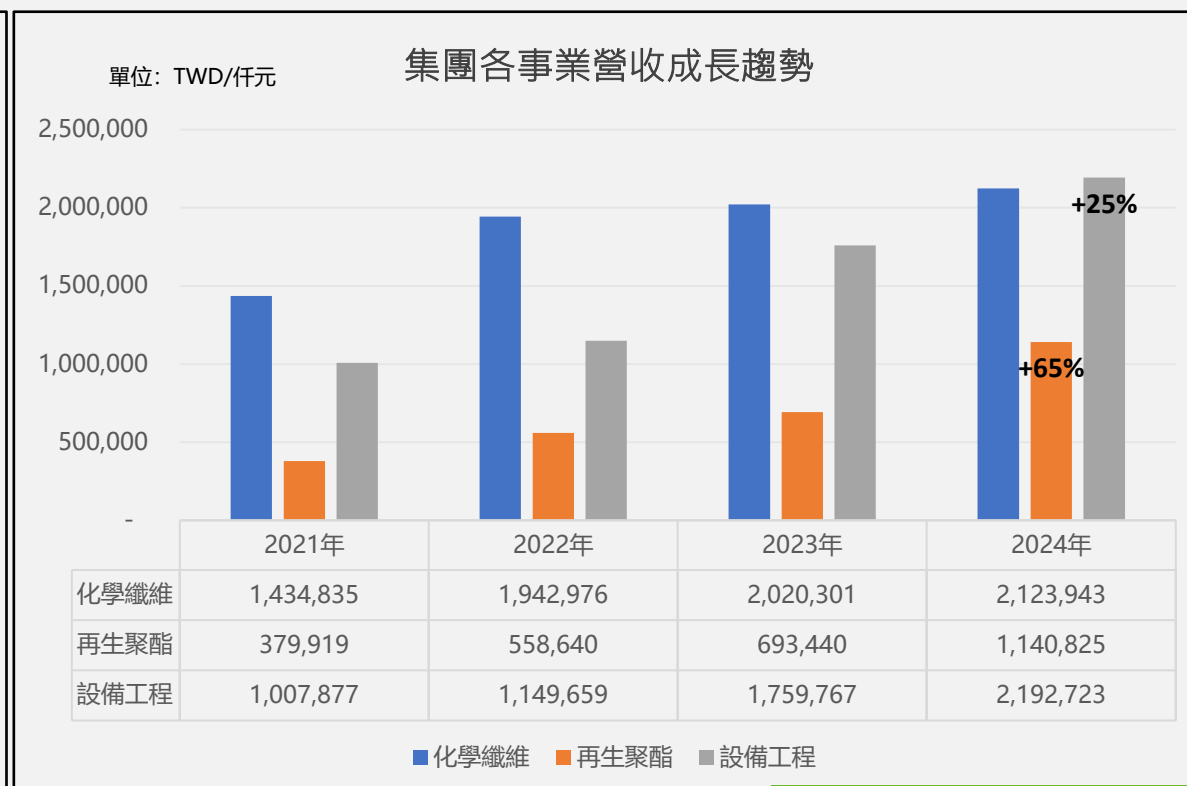
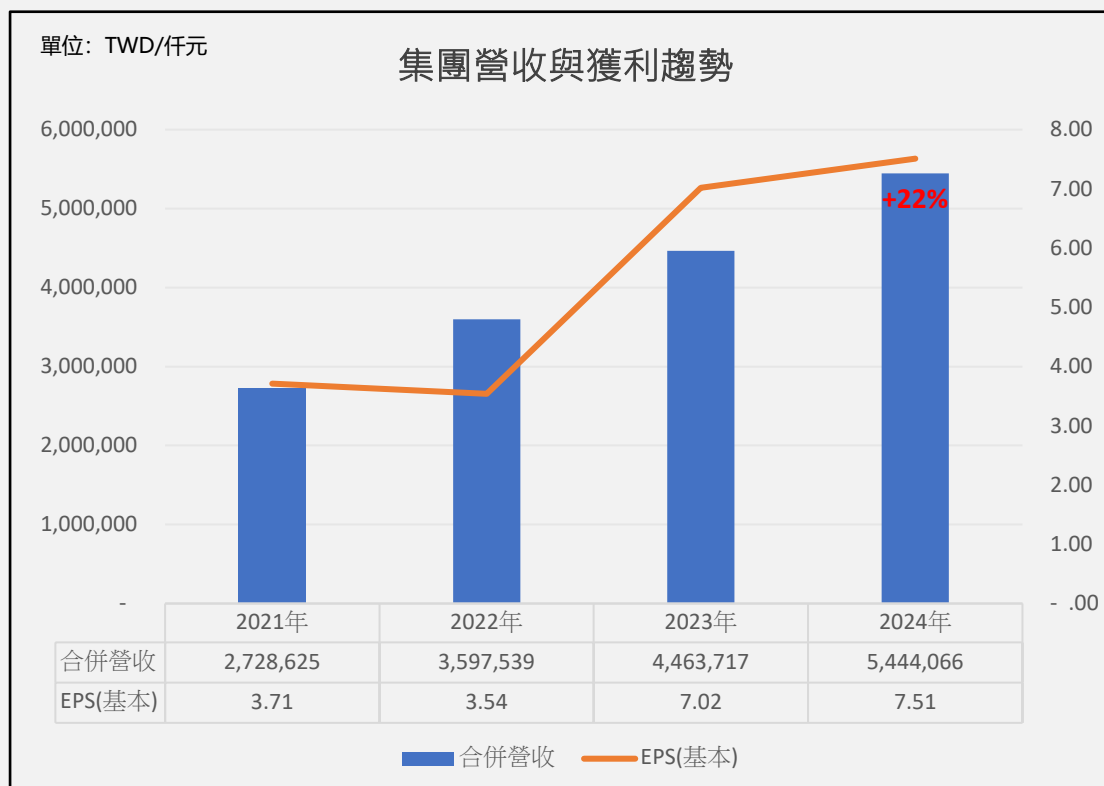
- Taiwan generates approximately 100,000 metric tons of PET bottles annually. According to the Ministry of Environment's roadmap, by 2025, more than 25% of packaging materials are expected to utilize recycled content, with the goal of surpassing 50% by 2030.
- In alignment with these targets, Boretech Taiwan is planning to add a new pelletizing production line with an annual capacity of 30,000 metric tons. This line will be supplied with PET flakes produced by Zhejiang Boretech's newly developed washing system for PET fruit containers, providing advantages in both raw material sourcing and cost control.
- ✓ Boretech Taiwan has already initiated collaborative PET bottle recycling efforts with Uni-President convenience stores and is conducting a pilot program with Carrefour to recover packaging containers. These initiatives serve as exemplary models of a closed-loop plastic recycling system. The company aims to expand its recycling capacity steadily and drive significant progress in the development of a circular economy for recycled plastics.



Business Performance

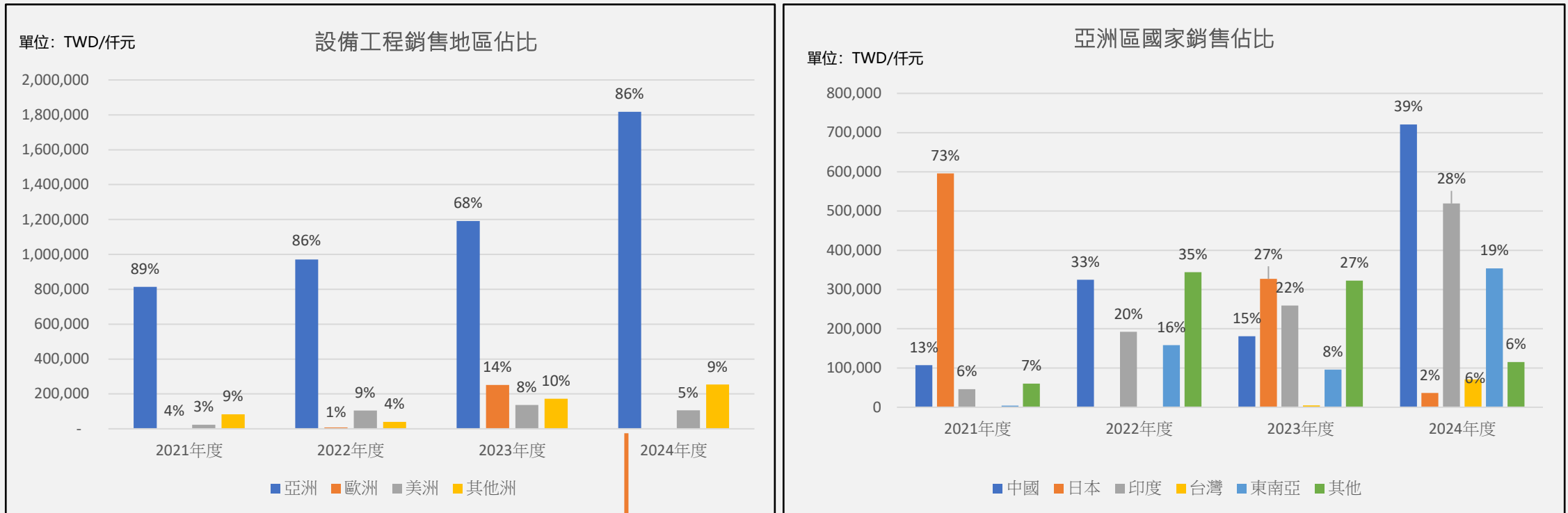
Group Revenue Overview

- In 2024, group consolidated revenue grew by 22%, driven mainly by recycled PET pellets and equipment engineering services.
- Sales by Region: Approximately 77% of total sales came from Asia, with key markets being: China: 42% India, Taiwan, Southeast Asia: ~10% each



Equipment Engineering Revenue by Region

- Sales are primarily concentrated in Asia. Regional distribution is shown in the chart below.



成為國際塑膠環保事業的領先團隊

Thank You for Your Attention

