

Since 1969



集盛實業股份有限公司
ZIG SHENG INDUSTRIAL CO., LTD.

2024 Investor Conference



Ticker: 1455 TT

DEC 12, 2024

INNOVATION / SPECIAL / FUNCTION / INTEGRATION / ENVIRONMENT

COMPANY PROFILE

- 1969 Company established & DTY 1st plant start up
- 1993 Listed on the Taiwan stock exchange
- 1997 DTY 3rd plant start up
- 2000 Nylon spinning 1st plant start up
- 2001 Nylon polymerization 1st plant start up
- 2004 “Innovative R&D center” founded.
- 2006 Nylon polymerization 2nd plant start up
- 2006 Compounding plant start up
- 2012 ATY plant, nylon spinning 2nd plant start up
- 2014 ISO 14001 certified
- 2015 GRS certified
- 2017 Published 2016 CSR report
- 2018 Established 878KW solar power plant
- 2020 New polyester spinning production line start up
- 2022 Established 559KW solar power plant
- 2023 PA66 polymerization plant start trial production
- 2024 New rental residential building in Guanyin operate

11 PRODUCTION PLANTS

FIBER BUSINESS DIVISION

3 DTY Plants



DTY Plant I
1969



DTY Plant II
1992



DTY Plant III
1997

2 Spinning Plants



Spinning Plant I
2000



Spinning Plant II
2012



1 ATY Plant

ATY Plant 2012

CHEMICAL MATERIALS DIVISION

3 Nylon Polymerization Plants, 1 Engineering Plastic Plant, 1 Water Material Plant



Nylon Polymerization
Plant I ,2001



Nylon Polymerization
Plant II , 2006



Nylon Polymerization
Plant III,2013

MAIN PRODUCTS



Nylon Products

- 1 Nylon 6 Chip
- 2 Engineering Plastics
- 3 Nylon Filament
- 4 Nylon DTY/ATY
- 8 Nylon 66 Chip







Polyester Products

- 5 Polyester Filament
- 6 Polyester DTY/ATY
- 7 Recycled Polyester Chip







PRODUCT ANNUAL PRODUCTION CAPACITY

Nylon 6 Chip	150,000 Mt	
Nylon 66 Chip	21,600 Mt	
DTY	36,000 Mt	
Nylon Filament	30,000 Mt	
Engineering Plastic	10,200 Mt	
Total	About 250,000 Mt	

PRODUCT SALES BREAKDOWN

Unit : NTD million

Sales Breakdown	2024		2024		2023		2023	
	H1		H1		Tot		Q1-Q3	
	Amount	%	Amount	%	Amount	%	Amount	%
 Nylon Chip	3,873	52.9	2,687	54.4	3,757	48.5	2,605	47.7
 DTY	2,217	30.3	1,440	29.1	2,386	30.8	1,686	30.9
 Filament	678	9.3	461	9.3	1,057	13.7	792	14.0
 Engineering Plastic	478	6.5	318	6.4	531	6.9	371	6.8
Others	73	1.0	36	0.8	10	0.1	9	0
Tot	7,319	100	4,942	100	7,741	100	5,463	100

SALES BREAKDOWN BY PRODUCTS 2024 Q1-Q3

Turnover : USD 223,429,000 (NTD 7.3 bn) Domestic : 51% / Export : 49%

Fiber Division

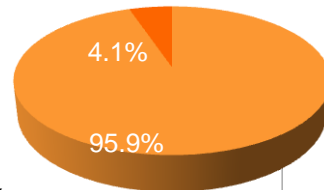
Chemical Material Division



DTY

Domestic 95.9%
Export 4.1%

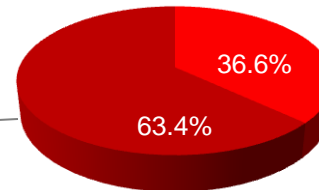
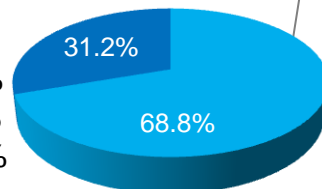
- Southeast Asia 1.2%
- North America 1.2%
- China 0.7%
- Northeast Asia 0.4%
- Others 0.6%



Filament

Domestic 68.8%
Export 31.2%

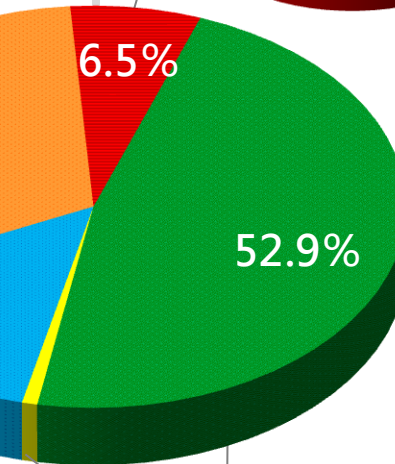
- South Asia 15.4%
- Southeast Asia 8.5%
- China 5.3%
- Northeast Asia 1.8%
- Others 0.2%



Engineering Plastic

Domestic 36.6%
Export 63.4%

- Southeast Asia 29.1%
- Africa 12.6%
- China 8.5%
- North America 7.4%
- Oceania 3.2%
- Others 2.6%



Others 1.0%

Nylon Chip

Domestic 23.8%
Export 76.2%

- Northeast Asia 25.9%
- South Asia 24.0%
- Southeast Asia 24.2%
- North America 1.0%
- Others 1.1%



Net Zero Transformation Strategy

Environment Protection

- Greenhouse gas emissions management
- Carbon emission benefits of green products



Process improvement

- Replace high-efficiency equipment

Energy conversion

- Established solar power plant
- Exchange coal into natural gas

Circular Economy

- Green products promotion
- Green certifications
- Sustainable products
- Impelling recycled textile yarn
- Operational goals of green products

Greenhouse gas emissions management

2012	Introducing ISO 14064-1, conducting a greenhouse gas emissions inventory, and obtaining annual certification.
2013	Implementing the ISO 14001 Environmental Management Systems, conducting regular audits to ensure effectiveness.
2014	The Guanyin Factory has passed third-party impartial verification and undergoes regular audits for validation.
2022	In the second quarter, initiate product carbon footprint inventory. In the third quarter, completed ISO 14067 third-party verification (by BSI - British Standards Institution). The verification scope includes general nylon chips, recycled nylon scrap chips, and recycled nylon fishing net chips.
2024	Completed greenhouse gas inventory and verification for the privately-owned company(parent company) and its subsidiary.

Carbon emission benefits of green products

Product	Recycled Polyester Chips	Recycled Nylon Chips	
Material	Bottle flake	Recycled nylon	Recycled fishing net
Ratio of carbon reduction	<p>-70%</p>	<p>-97%</p>	<p>-95%</p>
Annual production	7,414 Mt	627 Mt	
Annual carbon reduction	14,160 Mt CO ₂ e	2,662 Mt CO ₂ e	
Total annual carbon reduction	16,822 Mt CO ₂ e		

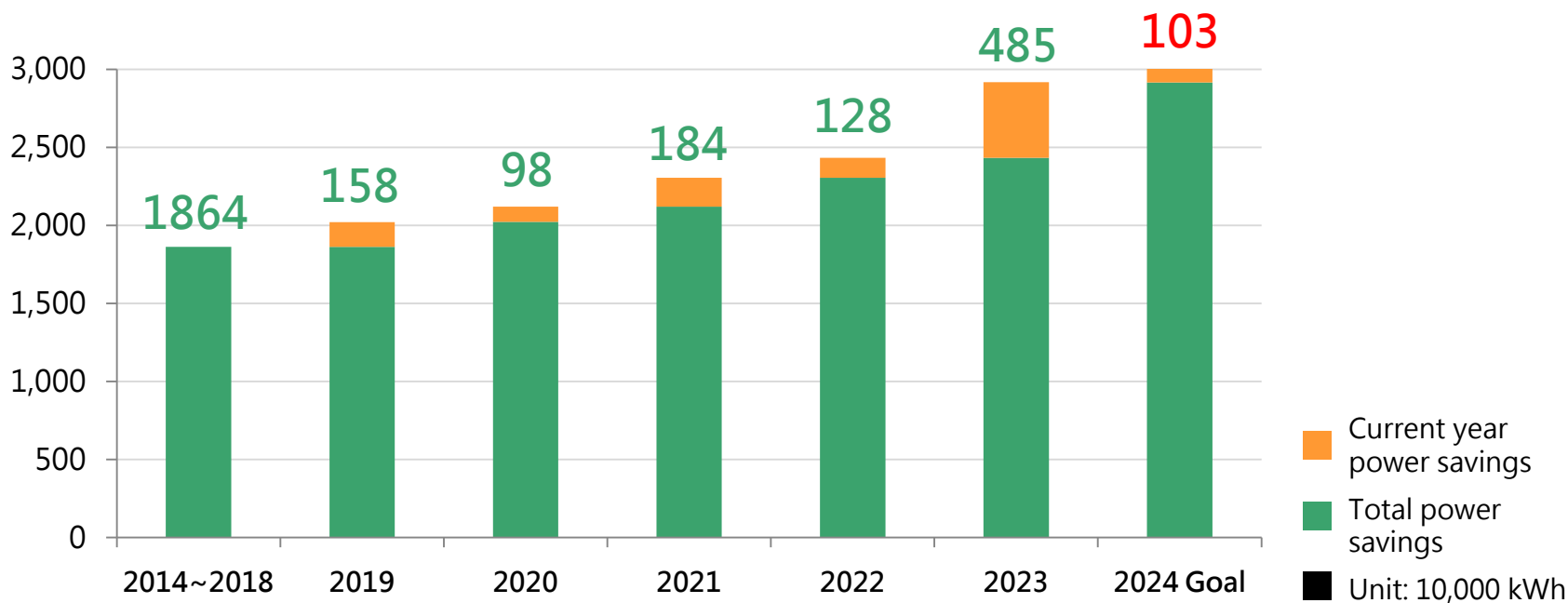
■ carbon emission ■ carbon reduction

Process improvement

2014
|
2024

Save **30.21** million kwh

Reduce carbon footprint **15,684** Mt CO₂e



Energy conversion

☞ Introduced into " ISO 50001 Energy management system" in 2018.

Digitized monitoring effectively enhances energy efficiency.

☞ Regenerate **solar power** has reached 3368 kw.

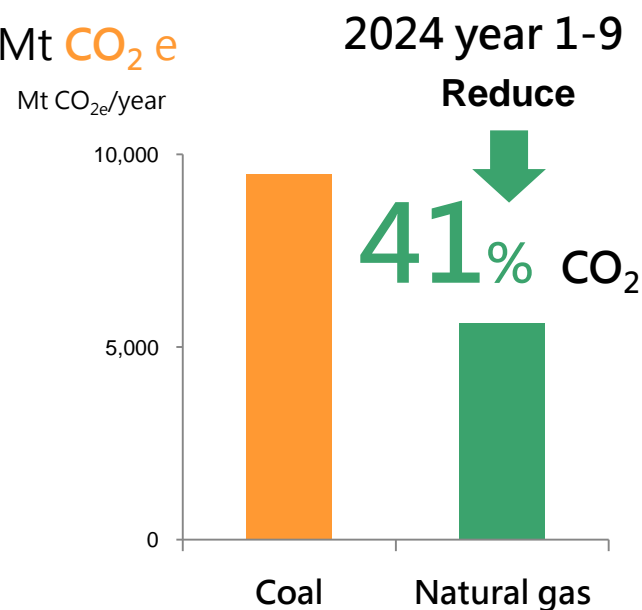
During the first three quarters of 2024, electricity generation reached **3.15** million kWh , and the carbon reduction is **1,558** Mt CO₂ e

By the end of 2024, total electricity generation is estimated to reach **17.23** million kwh, and the carbon reduction is **8,682** Mt CO₂ e

☞ Exchange coal into **low-carbon emission natural gas**

During the first three quarters of 2024, the carbon reduction is **3,869** Mt CO₂ e

By the end of 2024, the total reduction is estimated to reach **17,595** Mt CO₂ e



Green products promotion



Sustainable

- Reduce waste
- Reuse
- Reduce carbon emissions



Dope dyed

- Energy saving
- Waste reduction
- Save water



Bio-based

- Reduce carbon emissions
- No crop sourcing

- Operating
- Advanced goals

Green Certifications



Global recycled standard



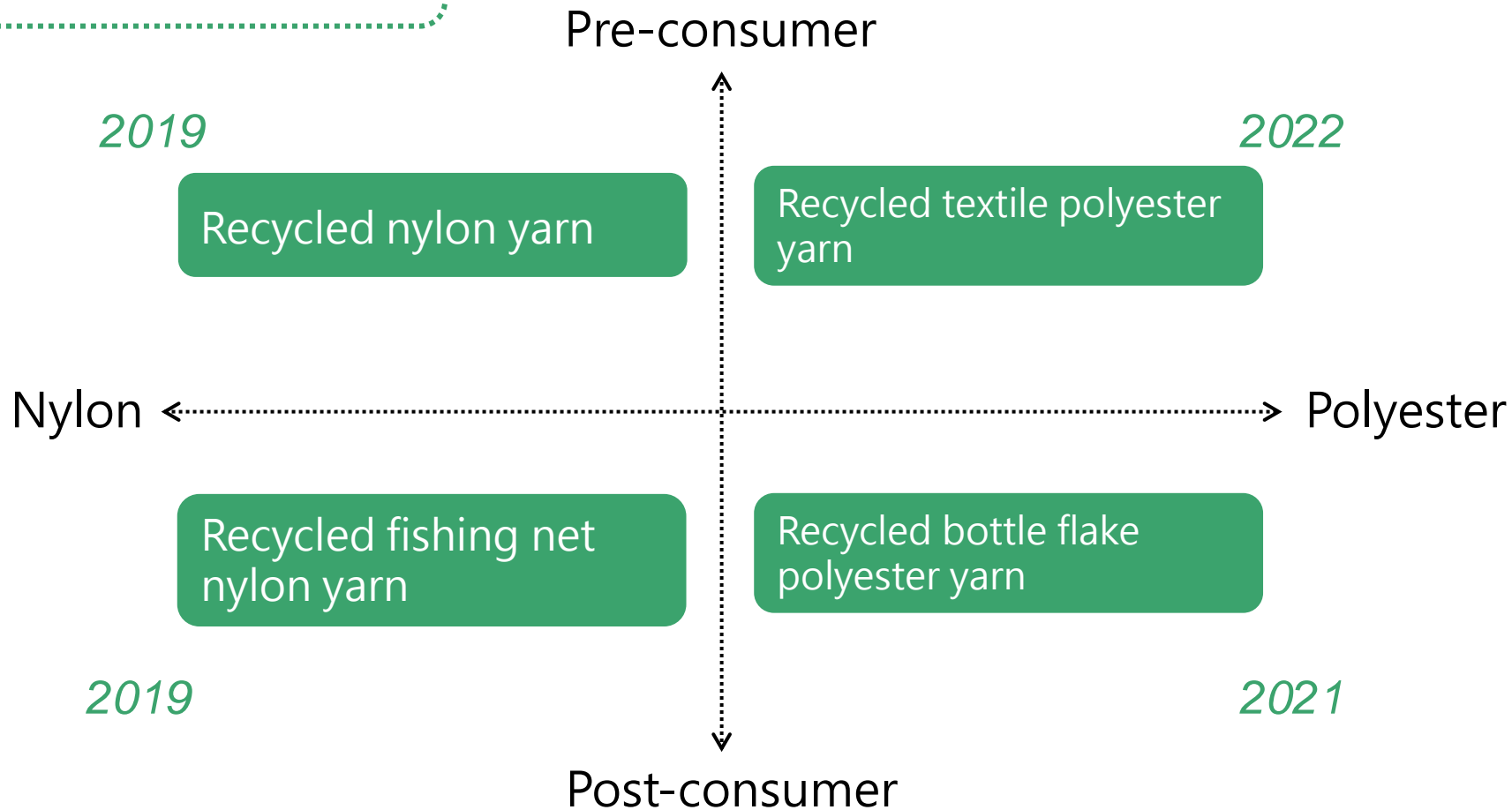
OEKO-TEX



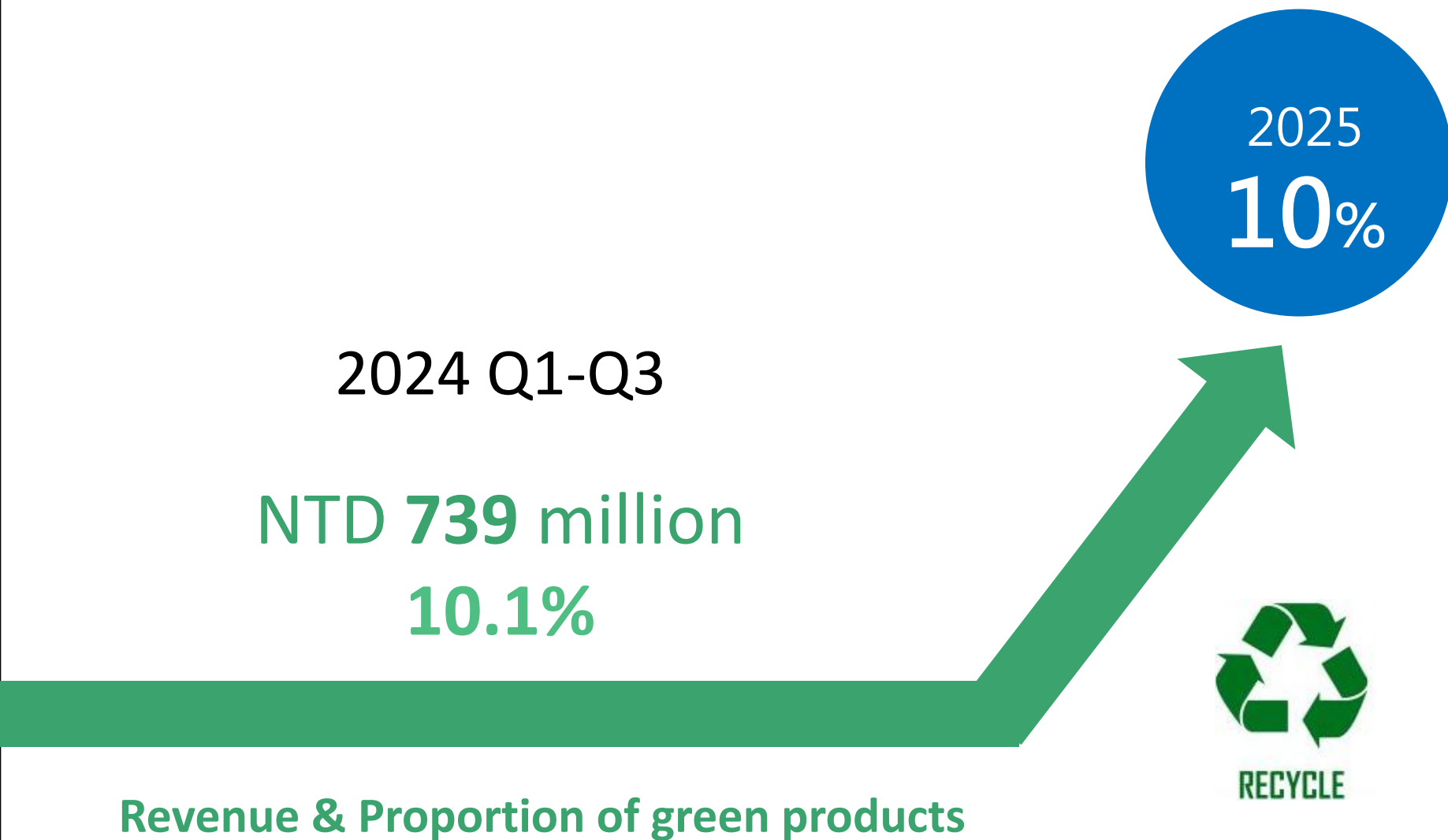
Carbon footprint
of products
ISO 14067:2018

Sustainable products

Chips→POY/FDY→DTY/ATY
Consistent production



Operation goals of green products



INCOME STATEMENTS

Unit : NTD million

Item	2024		2024		2023		2023	
	Q1-Q3		H1		Tot		Q1-Q3	
	Amount	%	Amount	%	Amount	%	Amount	%
Operating Revenue	7,318	100	4,942	100	7,741	100	5,463	100
Gross Profit	177	2.4	156	3.2	(149)	(1.9)	(203)	(3.7)
Operating Expenses	319	4.4	221	4.5	366	4.7	290	5.3
Operating Profit	(142)	(1.9)	(65)	(1.3)	(515)	(6.7)	(493)	(9.0)
Non-operating Income & Expenses	211	2.9	209	4.2	213	2.8	165	3.0
Profit Before Income Tax	69	0.9	144	2.9	(302)	(3.9)	(328)	(6.0)
Tax (Exp) Gain	7	0.1	(8)	(0.2)	62	0.8	53	1.0
Profit after Income Tax	76	1.0	136	2.8	(240)	(3.1)	(275)	(5.0)
EPS (NTD)	0.14		0.26		(0.45)		(0.52)	

FINANCIAL INDEX

Unit : NTD million

Item	2024 H1	2023	2022	2021	2020
Receivables	18.67	13.56	8.25	16.08	12.43
Inventory	21.78	17.91	18.81	22.47	10.82
Fixed assets	46.85	47.58	45.48	47.15	47.36
Total assets	114.89	103.09	91.83	107.80	89.27
Long short-term loans	36.48	26.90	15.30	17.60	11.60
Capital	53.17	53.17	53.17	53.17	55.00
Liabilities ratio	43.8%	38.8%	28.2%	32.2%	26.9%
Current ratio	131.3%	164.2%	149.6%	156.0%	147.7%
Book value per share (NTD)	12.1	11.9	12.4	13.7	12.3

FUTURE PROSPECT

Nylon Chip

- 1) The price of CPL, the main raw material for PA6, has stabilized in early December after declining and is expected to remain stable next year, which will benefit production and sales arrangements as well as operational profitability.**
- 2) Sources of near-sea raw materials (CPL) have been developed, which can reduce the risk of inventory depreciation and prevent capital backlog.**
- 3) The adjustment of the PA6 nylon chips product mix from the second half of 2023 will be continued and oriented toward high value-added products to enhance profitability.**
- 4) Under the trend of stabilized shipping costs, we will take advantage of the future tariff differential between China and the U.S. to actively develop the U.S. market.**

FUTURE PROSPECT

Nylon Chip

- 5) It is expected that the ISCC environmental product certification will be completed by the 2025 Q1, which will benefit the future sales of PA6 nylon chips.**
- 6) The newly launched PA66 nylon chip production line is currently undergoing customer verification, with adjustments of the formula and process conditions, improvements of equipment and is expected to have a larger shipment after the second quarter of next year.**
- 7) The abolishment of anti-dumping duties on PA66 nylon chips exported to China will help the company's products enter the high-end textile market in China in the future.**

FUTURE PROSPECT

Engineering Plastic

- 1) It's expected that orders from major customers are remain stable next year, ensuring sustained profitability for operations.**
- 2) Leverage the advantages of our own raw materials (including PA6 and PA66) to stabilize quality, meet market demands and expand customized products.**
- 3) Actively promote the certification of PA66 products to facilitate the development of the electrical, electronics, and EV charging station markets.**

FUTURE PROSPECT

Fiber Division

Filament

DTY

- 1) Overall, the DTY market and order situation for next year are expected to maintain profitability.**
- 2) Strengthen R&D capabilities, and develop new materials, specialization, diversification and customization of product strategies, while responding quickly to customer requirements to enhance profitability.**
- 3) Actively grasp the product demands of major sports brands to secure orders.**
- 4) Adjust the product mix of polyester filament production lines to increase the proportion of specialized and high value-added products.**

FUTURE PROSPECT

Fiber Division

Filament

DTY

- 5) **Adjust production and sales operations mechanisms and control inventory strictly in order to reduce losses from inventory depreciation.**
- 6) **Leverage the advantage in producing our own PA66 raw materials, actively develop and market PA66 DTY products, thereby creating profits.**
- 7) **Continuously strengthen efforts in Southeast Asian markets to expand overseas sales.**

PRODUCT THAT CONTAINS ZIG SHENG MATERIALS

• FIBER DIVISION



• CHEMICAL MATERIALS DIVISION



THANKS

