

Since 1969



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

## 2024 Investor Conference



Ticker: 1455 TT

AUG 30, 2024

INNOVATION / SPECIAL / FUNCTION / INTEGRATION / ENVIRONMENT

# COMPANY PROFILE

- 1969 Company established & DTY 1<sup>st</sup> plant start up
- 1993 Listed on the Taiwan stock exchange
- 1997 DTY 3<sup>rd</sup> plant start up
- 2000 Nylon spinning 1<sup>st</sup> plant start up
- 2001 Nylon polymerization 1<sup>st</sup> plant start up
- 2004 “Innovative R&D center” founded.
- 2006 Nylon polymerization 2<sup>nd</sup> plant start up
- 2006 Compounding plant start up
- 2012 ATY plant, nylon spinning 2<sup>nd</sup> 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 / ATY	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		2024		2023	
	H1		Q2		Q1		H2	
	Amount	%	Amount	%	Amount	%	Amount	%
 Nylon Chip	2,687	54.4	1,507	55.9	1,180	52.6	2,059	49.0
 DTY / ATY	1,440	29.1	776	28.8	664	29.6	1,302	31.0
 Filament	461	9.3	241	8.9	220	9.8	550	13.1
 Engineering Plastic	318	6.4	154	5.7	164	7.3	288	6.9
Others	36	0.8	20	0.7	16	0.7	4	—
<b>Tot</b>	<b>4,942</b>	<b>100</b>	<b>2,698</b>	<b>100</b>	<b>2,244</b>	<b>100</b>	<b>4,203</b>	<b>100</b>

# SALES BREAKDOWN BY PRODUCTS 2024 H1

Turnover : USD 155,575,000 (NTD 4.9 bn)      Domestic : 50% / Export : 50%

## Fiber Division

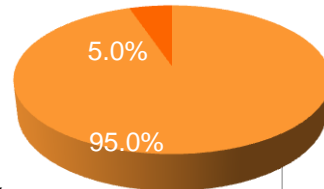
## Chemical Material Division



### DTY/ATY

**Domestic 95.0%**  
**Export 5.0%**

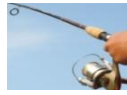
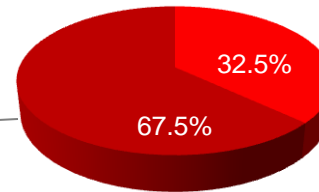
- Southeast Asia 1.4%
- North America 1.7%
- China 0.6%
- Northeast Asia 0.4%
- Others 0.9%



### Engineering Plastic

**Domestic 32.5%**  
**Export 67.5%**

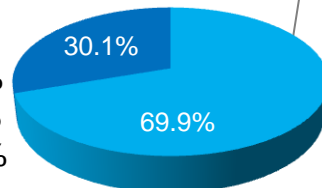
- Southeast Asia 19.7%
- South Asia 9.5%
- Africa 14.8%
- China 8.7%
- North America 8.7%
- Others 6.1%



### Filament

**Domestic 69.9%**  
**Export 30.1%**

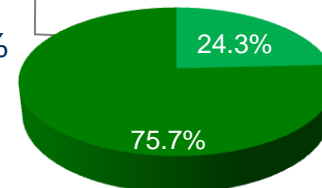
- South Asia 15.1%
- Southeast Asia 8.3%
- China 4.5%
- Northeast Asia 2.1%
- Others 0.1%



### Nylon Chip

**Domestic 24.3%**  
**Export 75.7%**

- Northeast Asia 23.7%
- South Asia 27.5%
- Southeast Asia 22.6%
- North America 1.0%
- Others 0.9%



Others 0.8%

# 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	7,500 Mt	567 Mt	
Annual carbon reduction	14,325 Mt CO <sub>2</sub> e	2,409 Mt CO <sub>2</sub> e	
Total annual carbon reduction	16,734 Mt CO <sub>2</sub> e		

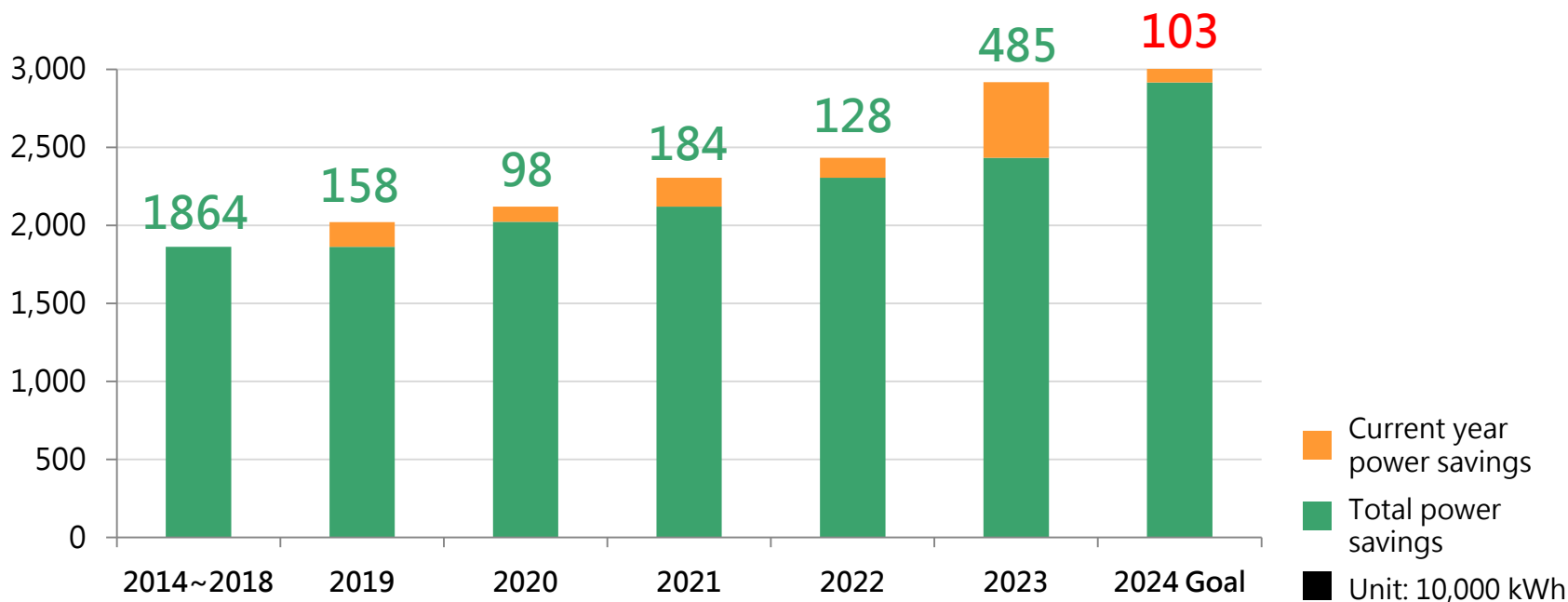
■ carbon emission ■ carbon reduction

# Process improvement

2014  
|  
2023

Save **29.18** million kwh

Reduce carbon footprint **15,175** Mt CO<sub>2</sub>e



# Energy conversion

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

Digitized monitoring effectively enhances energy efficiency.

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

By the end of 2023, the generation of electricity has reached **13.13** million kWh ,

and the carbon reduction is **6,655** Mt CO<sub>2</sub>e

From Jan-Jun 2024, the generation of electricity has reached **1.76** million kwh,

and the carbon reduction is **871** Mt CO<sub>2</sub>e

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

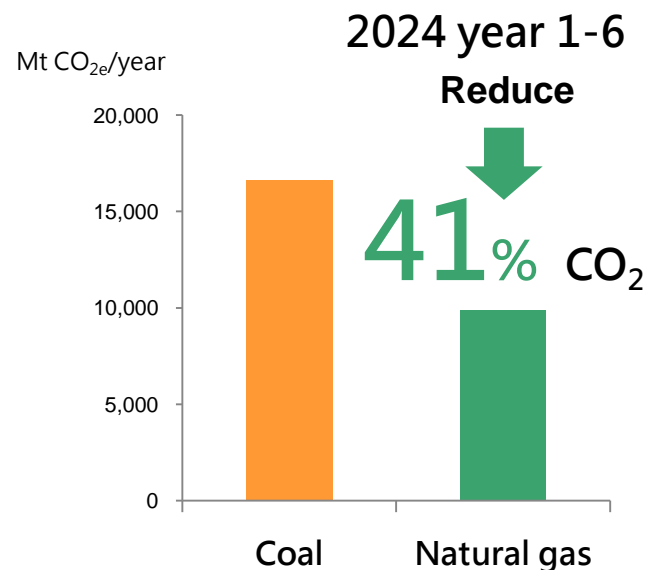
**natural gas.**

By the end of 2023, the carbon reduction is

**12,974** Mt CO<sub>2</sub>e

Estimate Jan-Jun 2024,the reduction up to

**5,676** Mt CO<sub>2</sub>e emissions.



# 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



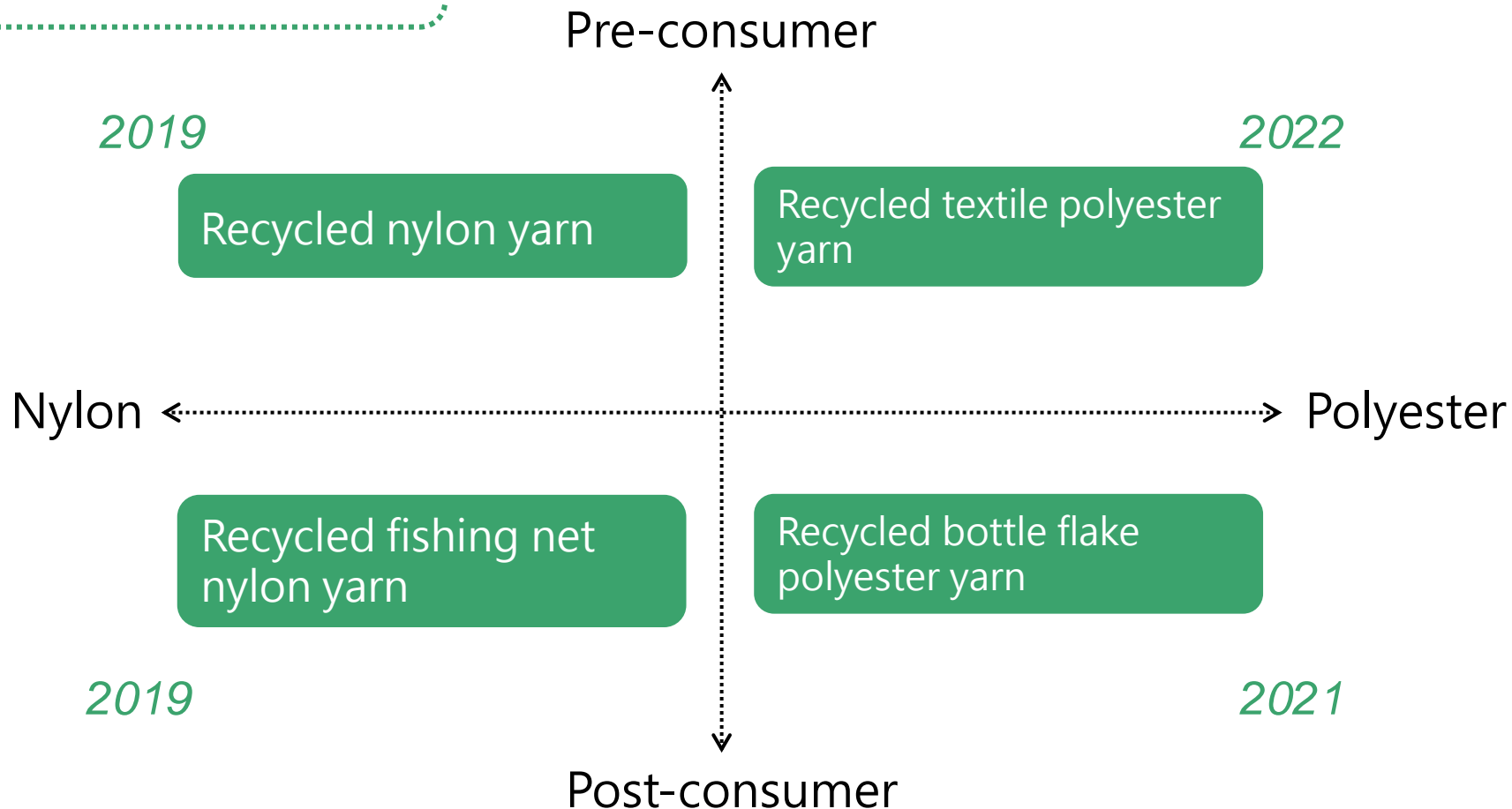
OEKO-TEX



Carbon footprint  
of products  
ISO 14067:2018

# Sustainable products

Chips→POY/FDY→DTY/ATY  
Consistent production



## Impelling recycled textile yarn

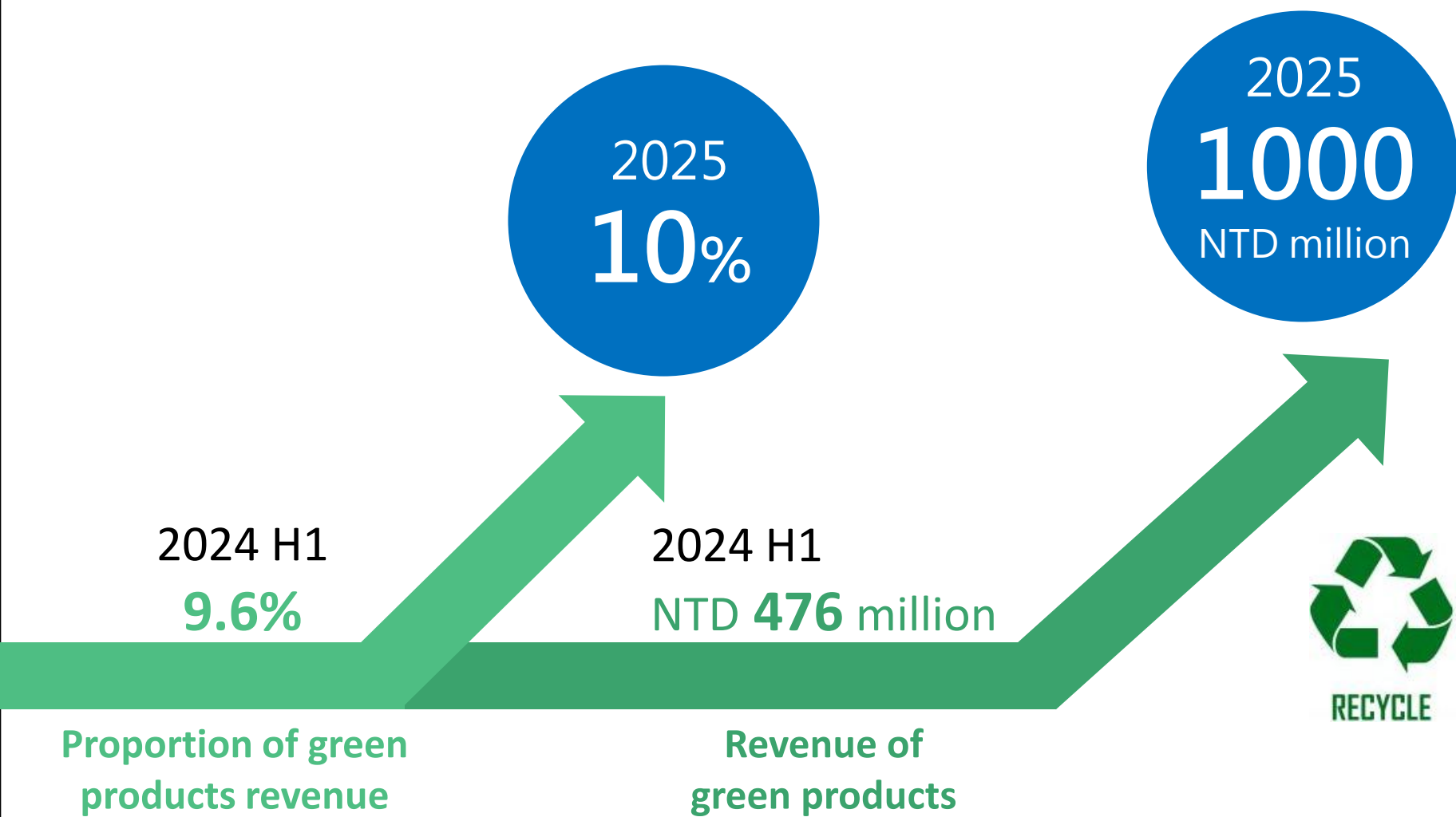


➡ Recycled chips reduce carbon footprint up to **95%**

➡ Recycled DTY reduce carbon footprint up to **50%**

➡ **100%** recycled material

# Operation goals of green products



Proportion of green products revenue

Revenue of green products



RECYCLE



# INCOME STATEMENTS

Unit : NTD million

Item	2024		2024		2024		2023	
	H1		Q2		Q1		H2	
	Amount	%	Amount	%	Amount	%	Amount	%
Operating Revenue	4,942	<b>100</b>	2,698	<b>100</b>	2,244	<b>100</b>	4,203	<b>100</b>
Gross Profit	156	<b>3.2</b>	73	<b>2.7</b>	83	<b>3.7</b>	(37)	<b>(0.9)</b>
Operating Expenses	221	<b>4.5</b>	123	<b>4.6</b>	98	<b>4.4</b>	174	<b>4.1</b>
Operating Profit	(65)	<b>(1.3)</b>	(50)	<b>(1.8)</b>	(15)	<b>(0.7)</b>	(211)	<b>(5.0)</b>
Non-operating Income & Expenses	209	<b>4.2</b>	111	<b>4.1</b>	98	<b>4.4</b>	122	<b>2.9</b>
Profit Before Income Tax	144	<b>2.9</b>	61	<b>2.3</b>	83	<b>3.7</b>	(89)	<b>(2.1)</b>
Tax (Exp) Gain	(8)	<b>(0.2)</b>	1	<b>0</b>	(9)	<b>(0.4)</b>	38	<b>0.9</b>
Profit after Income Tax	136	<b>2.8</b>	62	<b>2.3</b>	74	<b>3.3</b>	(51)	<b>(1.2)</b>
EPS ( NTD )	<b>0.26</b>		<b>0.12</b>		<b>0.14</b>		<b>(0.09)</b>	

# 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 newly constructed PA66 nylon chip production line has started trial production, and a small amount of shipment has been provided to customers for various tests and certifications. Meanwhile, the company can make formula adjustments and improve the manufacturing process and equipment. Large-scale shipments are expected to be officially launched in the fourth quarter.
- 2) The production and sales volume of PA6 nylon chips in the first half of this year increased compared to the second half of last year. From the second half of this year, we have begun adjusting the product structure to be more profit-oriented. With stable orders from long-term premium customers, we are optimistic about the outlook for the second half of the year.

# FUTURE PROSPECT

## Engineering Plastic

- 1) Compared to last year, both revenue and profit have increased in the first half of this year, and turned the previous loss into a profit.
- 2) The inventory of some major customers has been destocked and the export orders are growing steadily. The operation is expected to be optimistic in the second half of the year.

# FUTURE PROSPECT

Fiber Division

Filament

DTY

- 1) DTY orders remained stable in the first half of this year, with profits growing compared to the fourth quarter of last year. The outlook for the second half remains optimistic.
- 2) We continue to strengthen cooperation with brand customers and collaborate with downstream customers to develop differentiated products to enhance profitability. °
- 3) We have obtained stable supplies of raw materials, enabled us to increase the proportion of green, environmentally friendly and special specification products, which will further enhance our competitiveness.

# FUTURE PROSPECT

Fiber Division

Filament

DTY

- 4) We leverage the advantage in producing our own PA66 raw materials, supplying PA66 DTY to diversify our product offerings and enhance profitability.
- 5) Improvements in the production process capabilities of polyester and nylon filament lines have been effective, with significant enhancements in quality and efficiency. It is expected that operating performance will improve gradually from the fourth quarter of this year.
- 6) Strengthening efforts in Southeast Asian customers in order to expand sales in overseas markets.

# PRODUCT THAT CONTAINS ZIG SHENG MATERIALS

## • FIBER DIVISION



## • CHEMICAL MATERIALS DIVISION



# THANKS

