

Since 1969



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

2023 Investor Conference

Ticker: 1455 TT



INNOVATION / SPECIAL / FUNCTION / INTEGRATION / ENVIRONMENT

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	Planning to complete carbon footprint inventory and third-party verification for nylon chips and engineering plastic products.

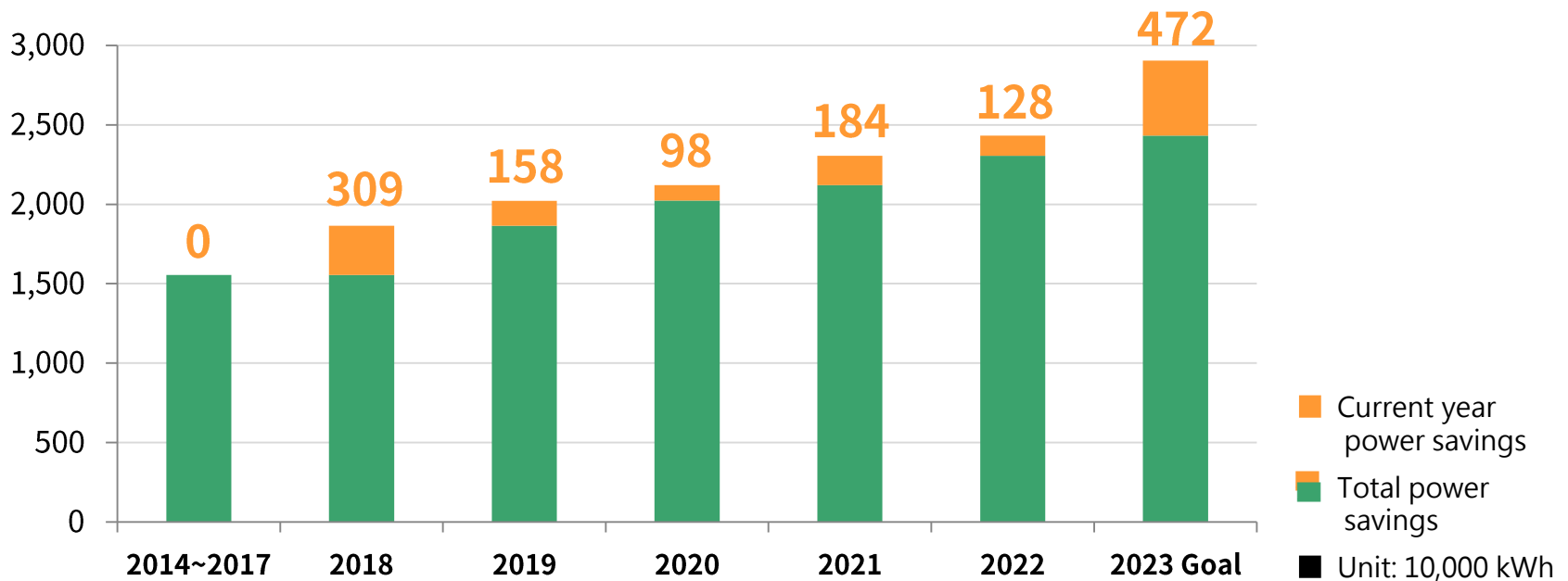
Carbon emission benefits of green products

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>
				<p>■ carbon emission ■ carbon reduction</p>
Annual production	4,841 Mt		210 Mt	
Annual carbon reduction	9,246 Mt CO ₂ e		888 Mt CO ₂ e	
Total annual carbon reduction	10,135 Mt CO ₂ e			

Process improvement

2014
|
2023

Save **2,905** million kWh
Reduce carbon footprint **14,382** Mt



Energy conversion

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

Digitized monitoring effectively enhances energy efficiency.

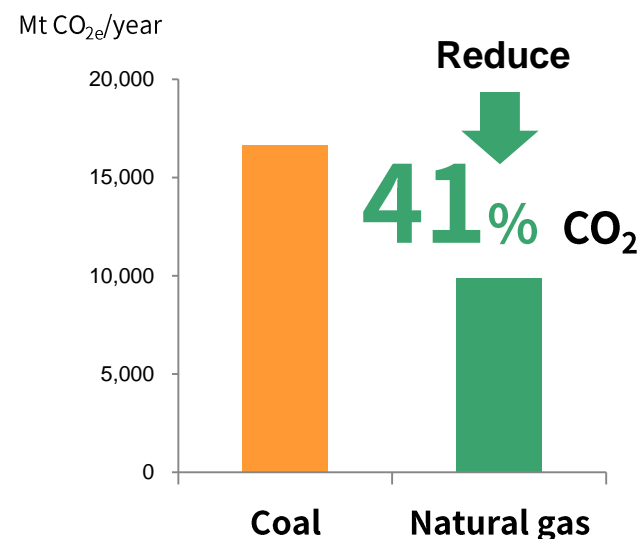
☞ Regenerate **solar power** has reached 3368 KW.

From Jan-Oct 2023, the generation of electricity has reached **358** million kWh.

Total power generation **1,339** million kWh.

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

Annual reduction up to **4,695** Mt CO₂ Eq emissions.



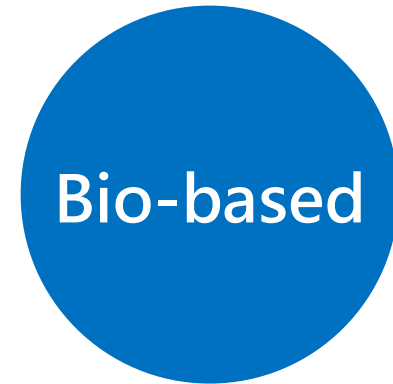
Green products promotion



- Reduce waste
- Reuse
- Reduce carbon emissions



- Energy saving
- Waste reduction
- Save water



- Reduce carbon emissions
- No crop sourcing

- Operating
- Advanced goals

Green Certifications



Global recycled standard



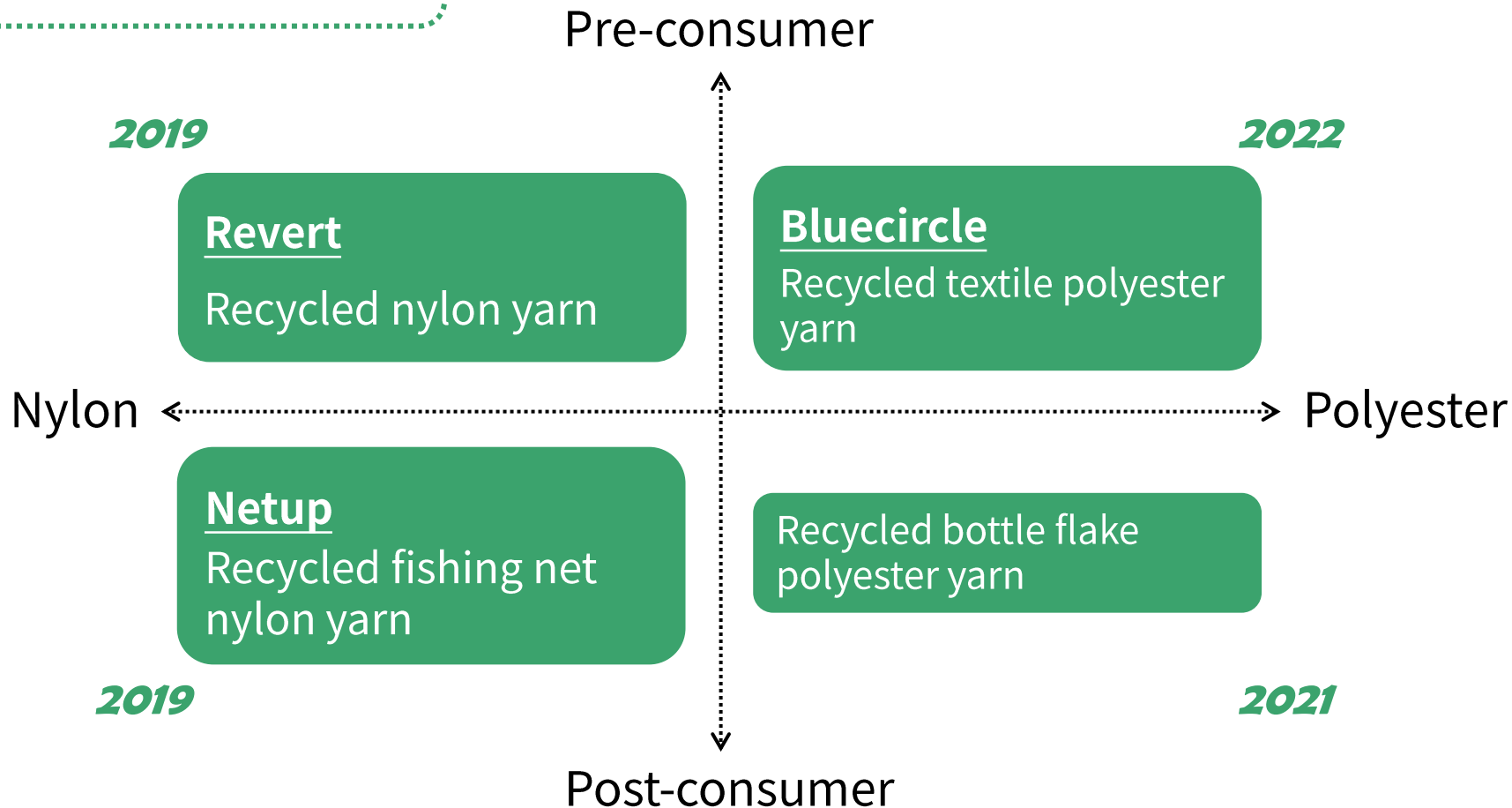
OEKO-TEX



Carbon footprint
of products
ISO 14067:2018

Sustainable products

Chips→POY/FDY→DTY/ATY
Consistent production



Impelling recycled textile yarn

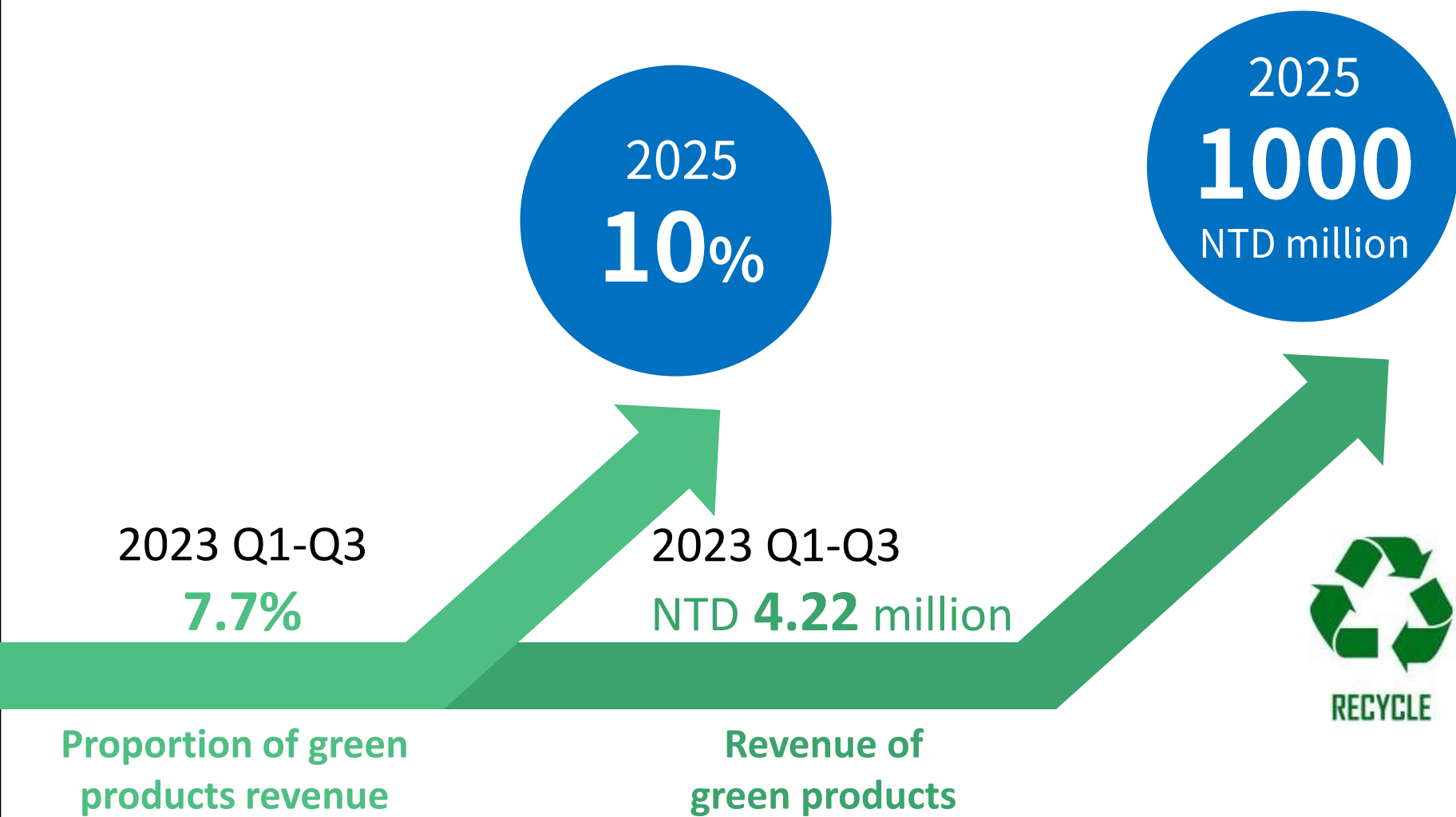


👉 Recycled chips reduce carbon footprint up to **95%**

👉 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