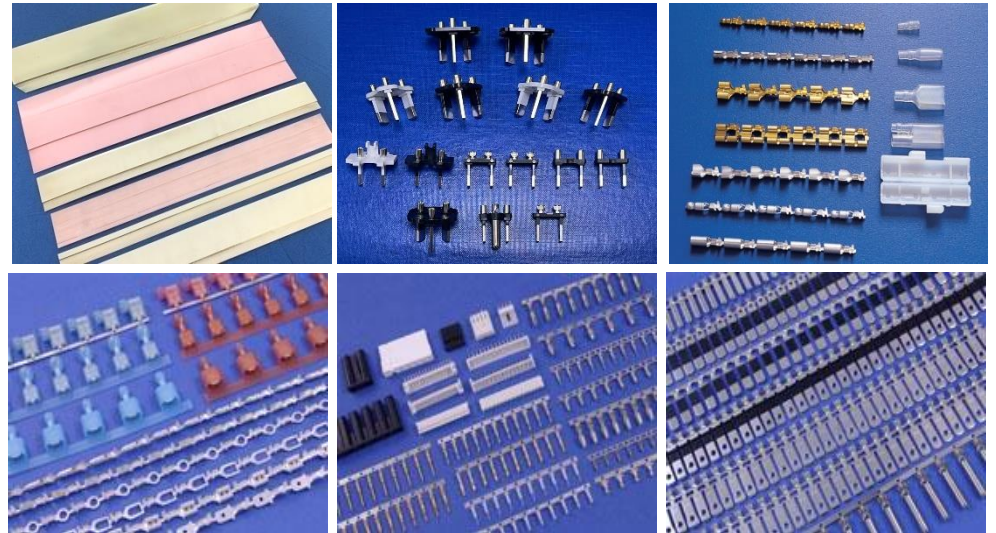




G E M 建通精密工業股份有限公司
TERMINALS GEM TERMINAL IND. CO., LTD.

2025 Investor Conference



TWSE : 2460

<http://www.gem.com.tw>

- **This report and simultaneously released information are the Company's internal and external data, and the Company's vision is towards the future up to now. If there is any change to these views in the future, the Company is not liable for timely updating the information or sending reminder.**
- **The Company has not released financial forecast. Any descriptions related to the Company's financial and business status, or Q&A details in this report may be differentiated from the actual results in the future. Such as market demand change, ex-factory price, fluctuation of raw material price, industry competition, world economy, fluctuation of exchange rate, upstream / downstream supply chain, and other risk factors that are out of the Company's control.**

- I. Company Profile
- II. Operation overview
- III. Development strategy
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- V. Q&A

Company Profile - GEM History



1977

Founded in 1977, GEM has grown steadily in Luzhu district in southern Taiwan with the concept of sustainable management.

1995

Dongguan GEM Electronic & Metal Co.,Ltd. officially started operations

2002

Suzhou GEM Opto-Electronics Terminal Co.,Ltd. Officially started operations

2016

Vietnam GEM Electronic & Metal Co.,Ltd. officially started operations.

1994

Designed and built the multi-gauge strip milling machine. Milling technology leads the industry.

2001

Approved by FSC to be listed on Taiwan Stock Exchange.

2013

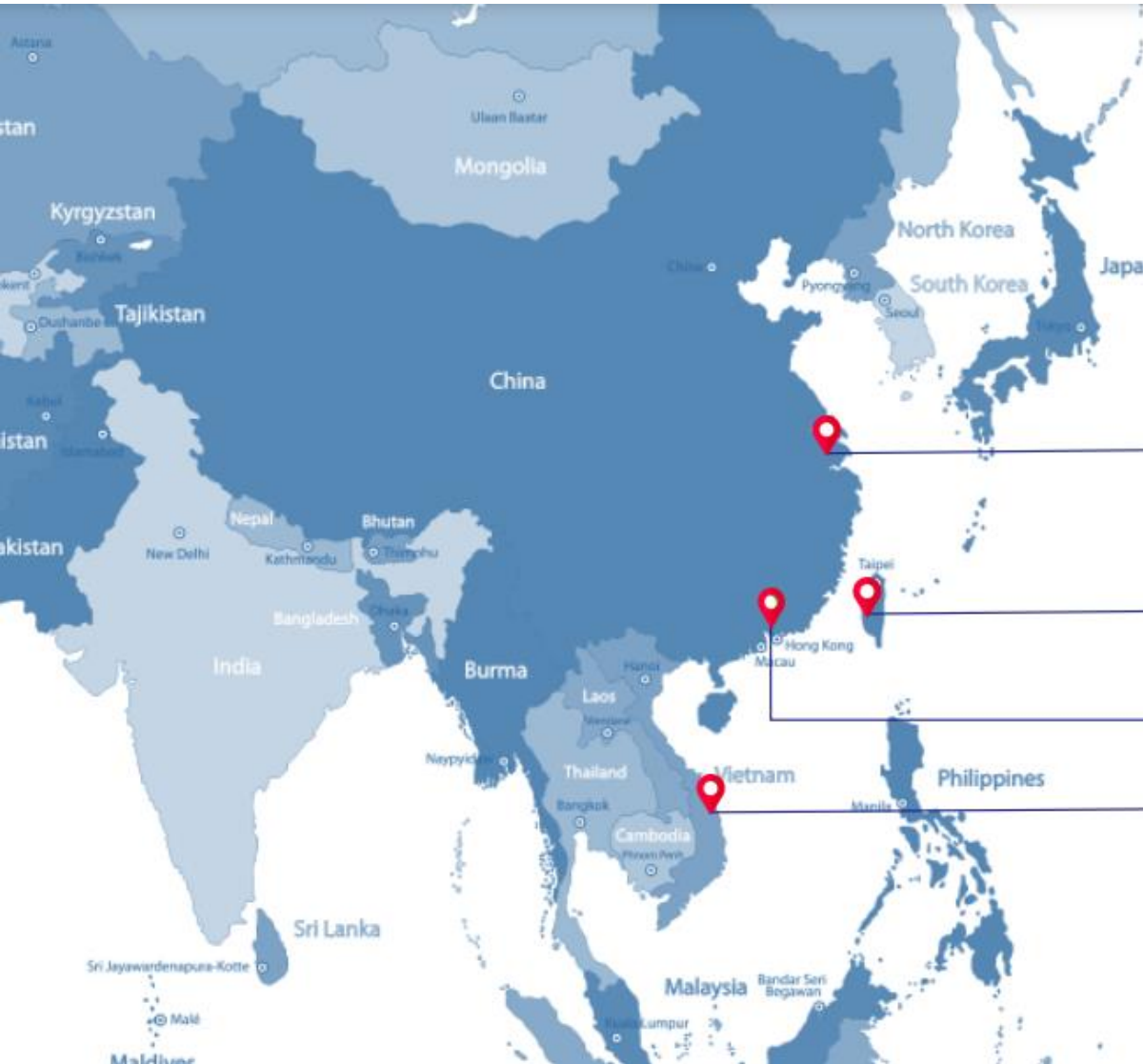
Obtained ISO14001 and QC080000 environmental protection system certification.

2025

Taiwan GEM's special copper materials continue to grow steadily. Suzhou GEM's new GB semi-insulated samples have been delivered, and small-batch shipments have started.

Sustainable Development

Company Profile – Global Locations



Global Locations

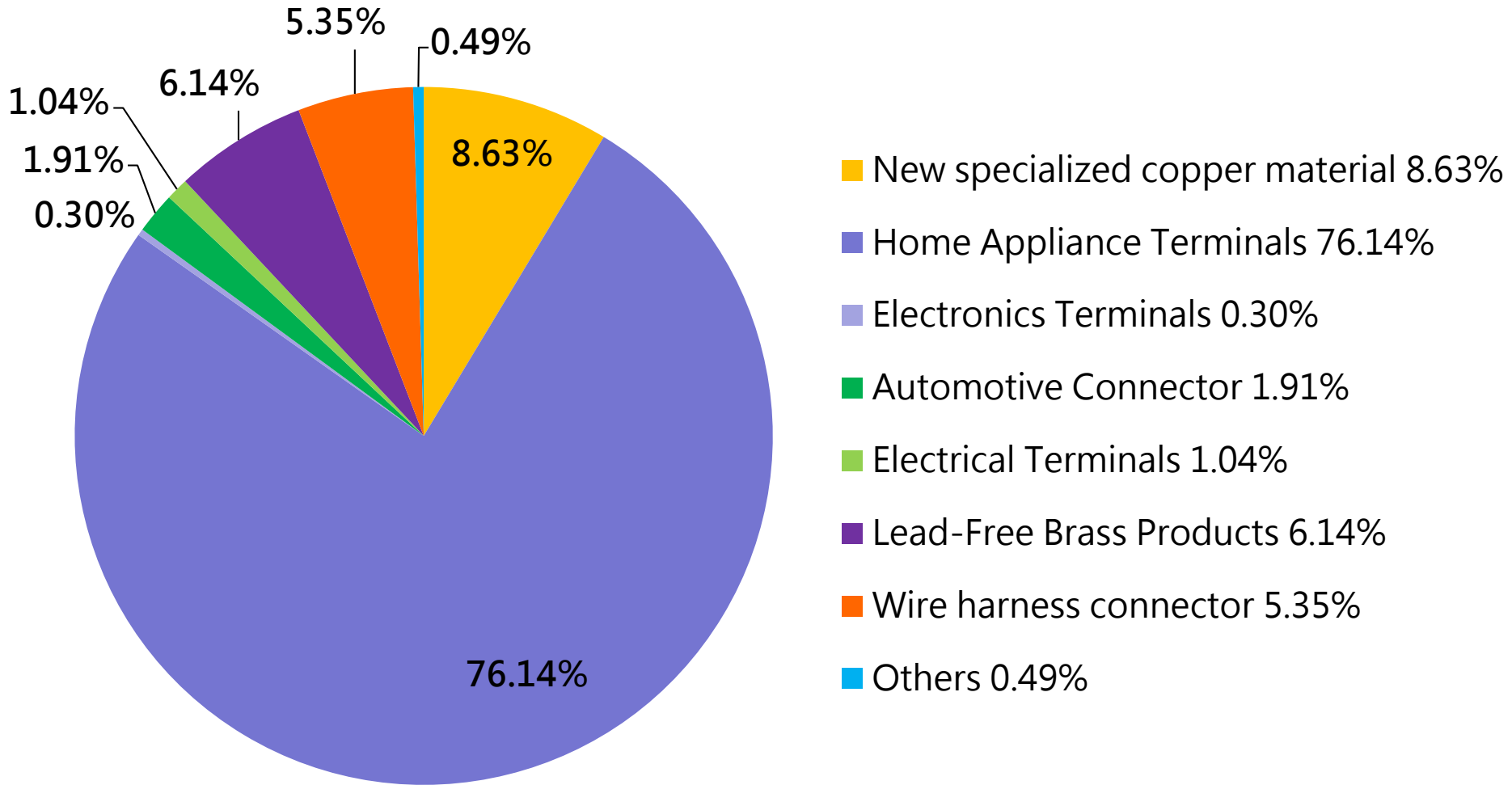
Suzhou GEM Opto-Electronics Terminal
Est. 2002/10, Plant Area: 43,885m²

Taiwan GEM Terminal
Est. 1997/07, Plant Area: 13,115 m²

Dongguan GEM Electronic & Metal
Est. 1995/12, Plant Area: 24,352m²

Vietnam GEM Electronic & Metal
Est. 2015/09, Plant Area: 33,248m²

Operation overview 各體系占合併營收比率%



Consolidated revenue from January to October 2025 : 2,469 Million USD

Operating Overview - Consolidated Financial Information



Unit: Thousands of
New Taiwan Dollars

| Item \ Year | 2024 | January – September 2025 | January - September 2024 | Increase (Decrease) % |
|------------------------------------|-----------|-----------------------------|-----------------------------|--------------------------|
| Operating Revenue, Net | 3,188,136 | 2,219,395 | 2,298,033 | (3.42%) |
| Gross Profit | 187,284 | (44,977) | 186,144 | (124.16%) |
| Profit (Loss) Before Income Tax | (222,765) | (417,073) | (106,011) | (293.42%) |
| Ordinary Shares | 1,692,000 | 1,692,000 | 1,692,000 | 0.00% |
| Earnings (Net Loss) Per Share | (1.39) | (2.59) | (0.75) | (245.33%) |
| Gross Profit (%) | 6% | (2%) | 8% | (10%) |

Development Strategy - Terminal Industry



- **Poised for Growth**

- Relocation of global supply chains and rising trade barriers.
- GEM Group has spent 2–3 years on strategic deployment, shifting to new products and repositioning the Group’s manufacturing footprint.

- **Ready to Take Off**

- Group-wide integration and division of work will be in place by the end of 2024, with shipments gradually increasing in 2025.
- **Taiwan GEM** : new specialized copper material plants.
 - Mass production of high-conductivity busbars, multi-gauge Strip Copper, flat copper products, fine-grain copper rods, rolled copper foil, and various new specialized copper materials.
 - Applications include new energy vehicles, copper heat-dissipation components for servers, and other high-conductivity metal material fields.
- **Suzhou GEM+ Dongguan GEM** :
 - Compliant with the new mandatory GB standard for semi-insulated plugs, where GEM holds a strong process advantage.
 - **Multi-gauge Strip Copper**: precision milling technology comparable to leading international manufacturers, applied in new energy vehicle system products..
- **Vietnam GEM** : Vertically integrated copper smelting operations, serving as the Group’s main production base for traditional terminal products.
 - Increasing the use of externally procured copper feedstock, combined with in-house smelting processes to leverage cost and production advantages.
 - EU Environmental Regulations: The exemption for lead-free brass products end in dec 31st ,2026.

Development Strategy – Taiwan GEM



Taiwan GEM Terminal is capable of in-house casting of new specialized copper materials. In 2025, these products contributed revenue of NT\$179 million. Leveraging the development of the AI supply chain and aligning with Taiwan's "The Five Trusted Industry Sectors Promotion Plan", Taiwan GEM Terminal mass-produces the following key products :

- **High-conductivity busbar** : GEM is the only manufacturer of this product in Taiwan. In the past, customers relied on imports, which were subject to a 3.5% import tariff. We also offer highly customized shaped busbar copper strips based on customer requirements. These products can be further applied to various fields, such as superconductive heat-dissipation copper components for servers, high-conductivity power applications, and other metal-material products.
- **Multi-gauge Strip Copper** : One of the few advanced manufacturers globally with capabilities in rolling, milling, and combined rolling + milling processes.
 - **Semiconductor-series profile materials** :
 - Using rolling processing technology, targeting competitors such as Mitsubishi Materials and Hitachi.
 - Products are mainly used in Power Frames, Lead Frames, and related applications.
 - **New energy vehicle (NEV) series profile materials** :
 - GEM has over 30 years of experience in milling processes and precision machining. Our products are primarily used in special connector terminals and high-power components, supporting applications such as new-energy vehicles (NEV), IGBT modules, and fuses. These capabilities provide strong technical advantages across various metal-material application fields.
- **Fine-grain copper rods, flat copper products, and Rolled Copper Foil** : Capable of highly customized specifications with fast delivery lead times.

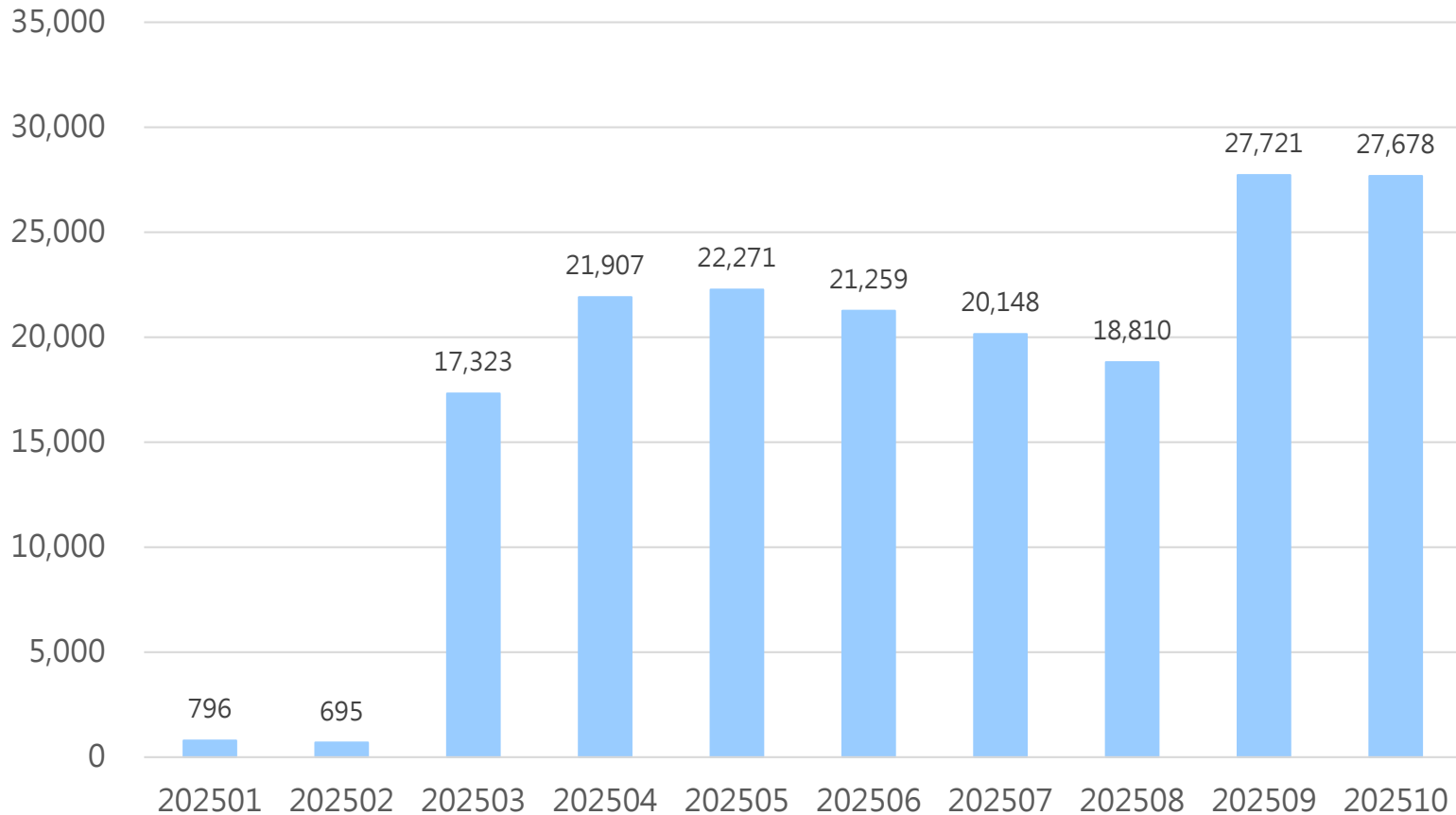
- **GEM in-house production of oxygen-free Rolled Copper Foil (RCF)**

Key advantages :

- **First manufacturer in Taiwan to produce oxygen-free Rolled Copper Foil products**
- **Vertically integrated production from copper casting to Rolled Copper Foil**
- **High-precision processing achieves surface roughness of $Ra \leq 0.1 \mu m$**
- **Oxygen content of the rolled copper foil < 5 ppm, reducing interfacial impedance and resistivity.**
- **Through purity control and optimized grain orientation, the electrical conductivity can exceed 100% IACS, achieving 2–4% higher performance compared to conventional electrolytic copper foil.**

Revenue from new specialized copper materials

Unit: NT\$ in thousands



Requirement for **Insulating Sleeves** on Live Plug Pins

- GB1002-2024 mandatory standard, to be fully implemented on **August 1, 2027**.
- GEM holds a one-step forming invention patent, providing a comprehensive market advantage
- GEM already engages in appliance and automotive power cables, as well as power strips and adapters.



GEM New GB Semi-insulated Plug – Advantage Analysis

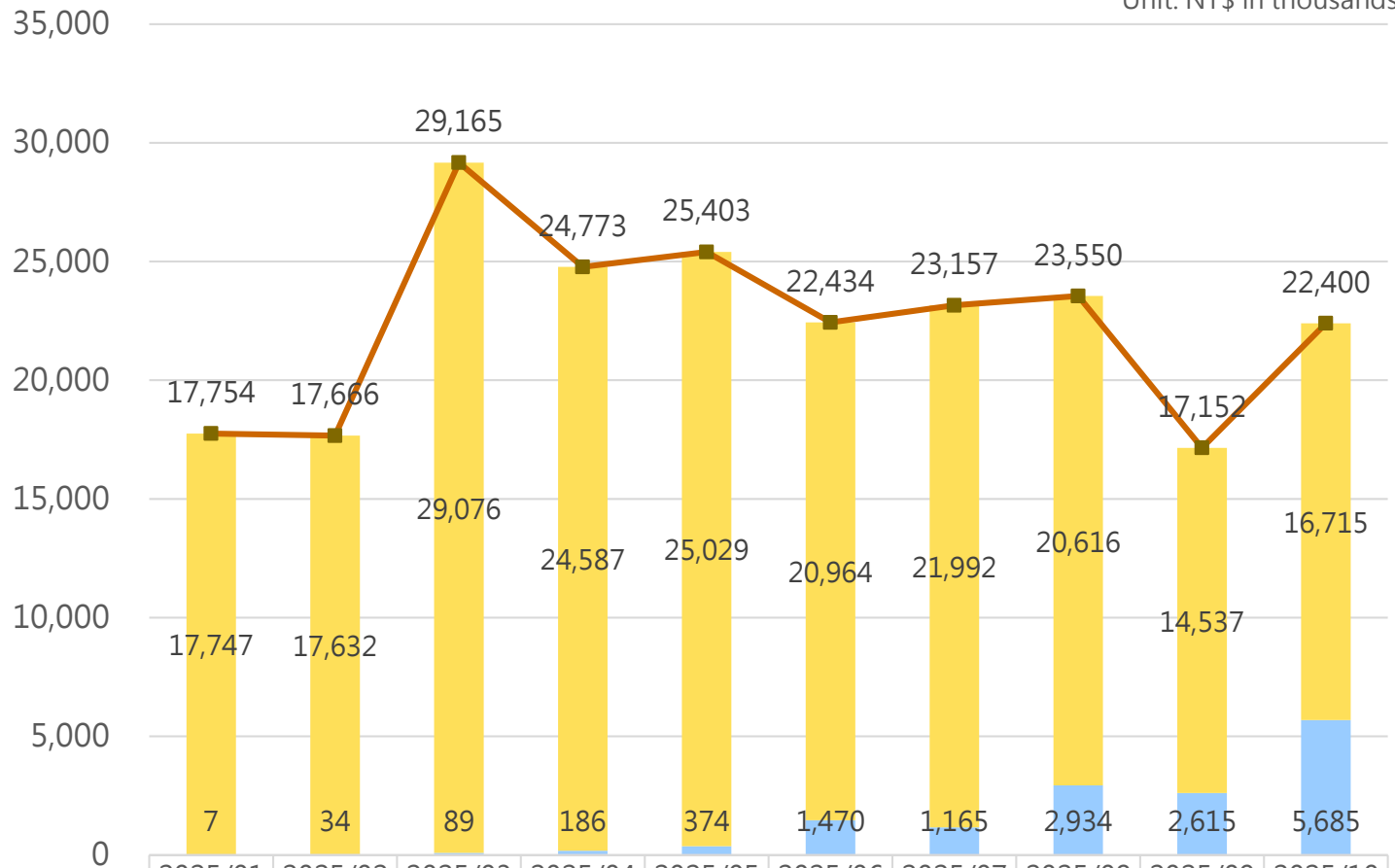
| Category | Project Details | Applicable Standard / Technical Requirement | Description / Actual Benefit |
|--|--|---|---|
| Compliance with safety standards | Meets dimensional requirements for non-contact parts | GB 1002-2024 | Insulation does not affect normal conduction |
| | Plug pins passed gauge inspection | GB 1002-2024 | Accurate pin dimensions, improved compatibility |
| | Passed drop / impact tube test | GB/T 2099.1-2021 | Improved drop resistance and durability |
| | Passed protection-against-electric-shock test | GB/T 2099.7-2024 | Avoids structural electric-shock risks |
| Advantages of GEM new GB semi-insulated plug | PBT + glass-fiber reinforced insulating sleeve with high abrasion resistance | GB/T 2099.1-2021 | Excellent abrasion and heat resistance; longer service life |
| | Approx. 0.3 mm insulating layer tightly bonded to the metal pin | Manufacturing requirement | Moisture-resistant, no peeling and no wrinkling |
| | Excellent tracking-resistance performance | 175 V tracking test | Long-term protection against electric shock |
| | Insulation layer thickness complies with UL Yellow Card requirements | UL Yellow Card | Better flame-retardant performance |

Development Strategy – Suzhou GEM



GB-standard plug sales(incl.new semi-insulated plugs)

Unit: NT\$ in thousands



| | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Traditional GB Plug | 17,747 | 17,632 | 29,076 | 24,587 | 25,029 | 20,964 | 21,992 | 20,616 | 14,537 | 16,715 |
| New GB Semi-Insulated Plug | 7 | 34 | 89 | 186 | 374 | 1,470 | 1,165 | 2,934 | 2,615 | 5,685 |
| Total GB Plugs | 17,754 | 17,666 | 29,165 | 24,773 | 25,403 | 22,434 | 23,157 | 23,550 | 17,152 | 22,400 |

Developing Processing Revenue from “ Multi-gauge Strip Copper Materials for New Energy Vehicles”

- **Close to the market :**

China is the world’s largest electric vehicle market and production base.

- **High quality :**

Processed with precision milling technology, delivering quality comparable to Germany’s Wieland.

- **Certified by global tier-one customers :**

Approved by TE, the world’s largest automotive connector manufacturer, making our quality highly reliable.

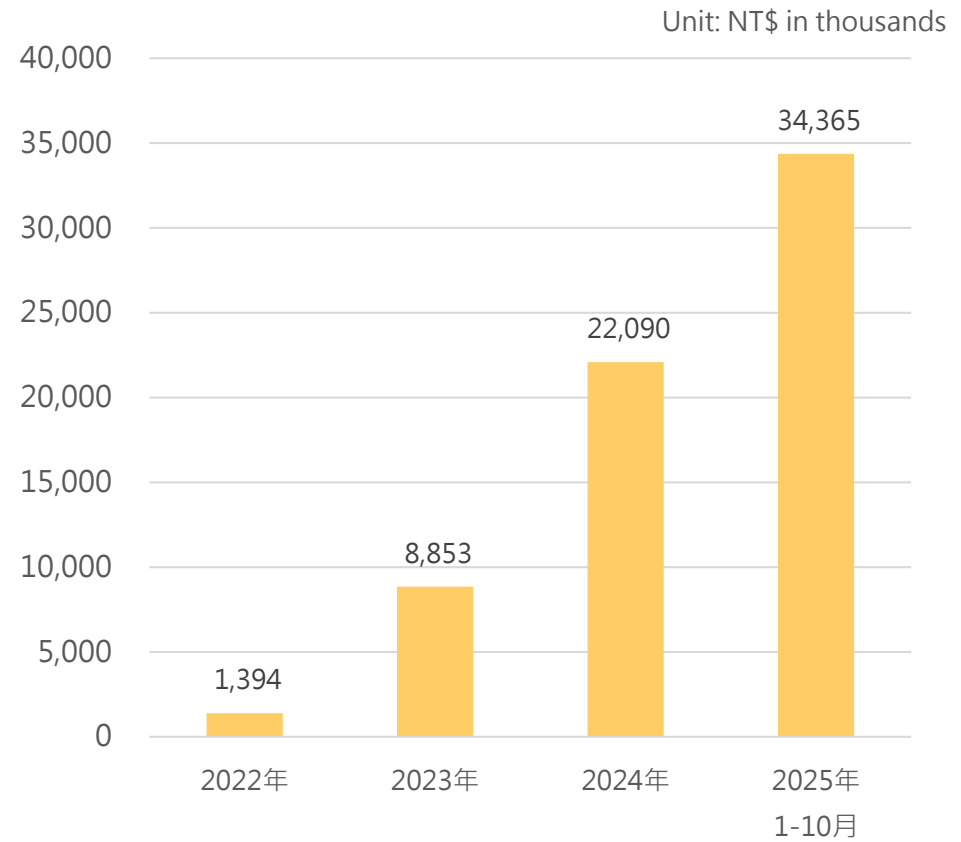
Development Strategy – Suzhou GEM



Suzhou GEM

- After certification by leading global customers, our reputation and shipment volume have been steadily increasing ◦
- Expansion of Multi-gauge Strip Copper production lines :
 - ① Current status: 10 existing lines + 6 new lines to be added in 2025.
 - ② Plan: An additional 4 new lines to be added in 2026.

Multi-gauge Strip Copper sales



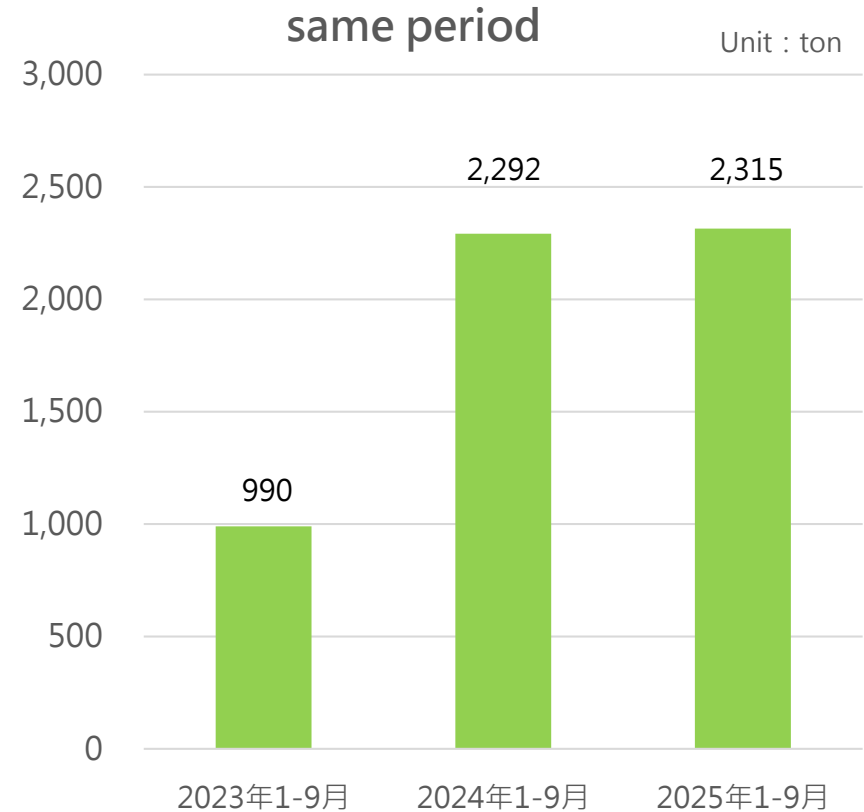
Development Strategy – Vietnam GEM



Terminal manufacturing hub continues to shift to Vietnam

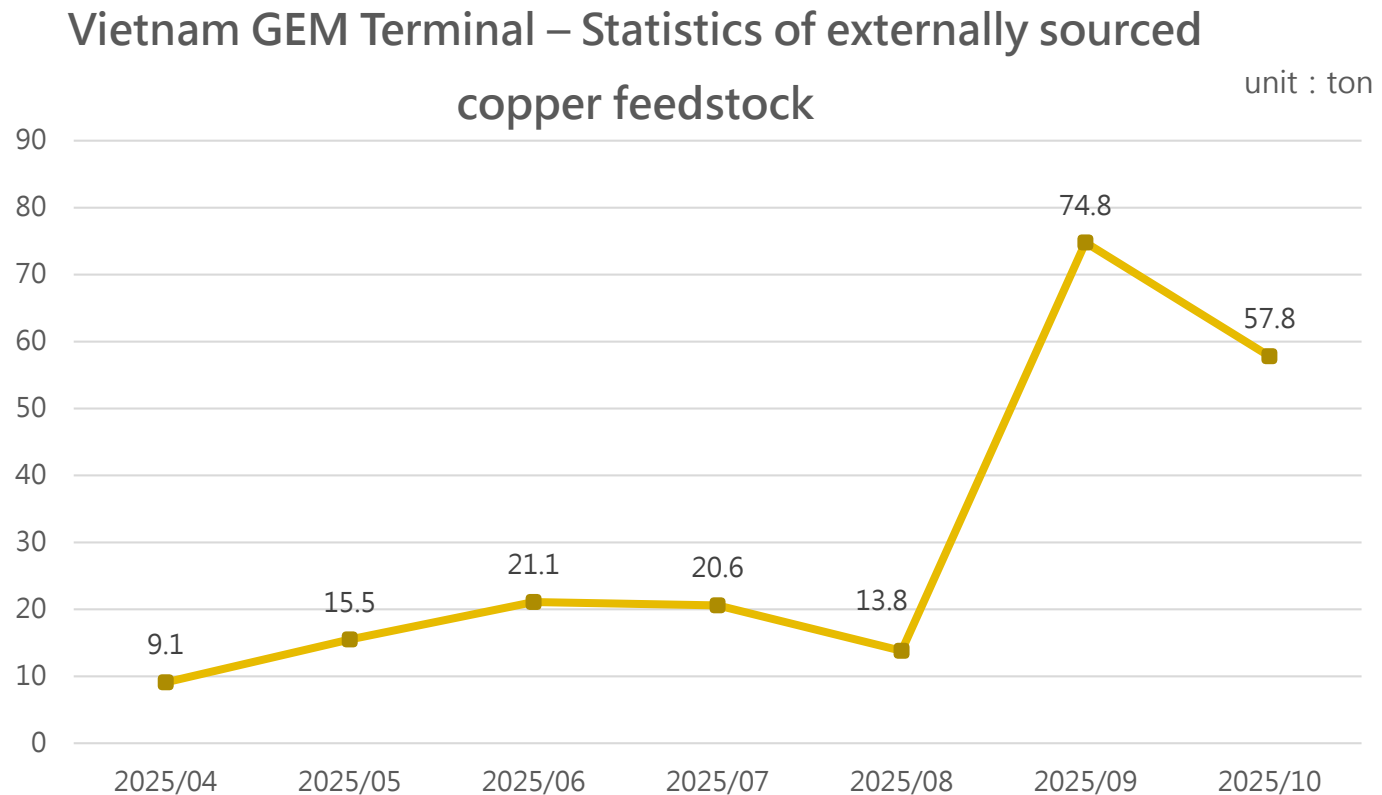
- Equipped with a copper smelter and mature technologies, enabling recycling and reprocessing of stamping and machining scrap
- Vertically integrated from copper smelting to terminal production
- Benefits from trade agreements (RCEP), demographic dividend, and favorable electricity costs

Vietnam GEM Terminal – Copper smelter output in Q3 2025 vs. the same period



Diversified raw material sourcing :

- Increasing the purchase of externally sourced copper feedstock to localize alloy copper raw material procurement, while leveraging the advantages of our in-house copper smelting process.



- 1. Taiwan GEM is actively expanding applications for new specialized copper materials, with sales revenue continuing to grow steadily.**
- 2. The output of Multi-gauge Strip Copper continues to increase, contributing to revenue and profitability growth.**
- 3. GEM holds patents for the new GB semi-insulated plug, targeting specialized conversion markets and using more efficient manufacturing processes to create higher value-added products.**
- 4. Vietnam GEM is increasing the use of externally sourced copper feedstock to localize alloy copper raw material procurement and leverage GEM's in-house copper smelting process, allowing us to focus resources on expanding plug sales in various countries and increasing market share.**

Thank You