

- AEMC's statements of its current expectations are forward-looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.
- AEMC makes no representation or warranty regarding such forward-looking statements. Except as required by law, AEMC undertakes no obligation to update any forward-looking statements, whether as a result of new information, future events, or otherwise.





Mission

-Establish upstream and downstream supply chains

Our mission is to establish Taiwan's independent technology in specialty chemicals for advanced semiconductor processes and through collaboration, enhance the global competitiveness of the local specialized materials industry, both upstream and downstream.



TSMC Excellent
Performance Award,
2022
Excellent Material
Development and
Production Support in
Litho Materials



Vision

-Expand the variety of lithography materials and increase market share

Our vision is to enhance Synthesis, Purification, Formulation, and process technologies to meet customer needs, assist in yield improvement deliver exceptional added value, and become an innovative specialty chemical company with global competitiveness.

Awards

National Industrial Innovation Award, 2023

Agenda



Company Introduction

- → Board of Directors
- → Development History and Key Milestones
- ✓ Main Production Base



R&D Strategy

- → R&D Strategy
- ✔ Product Roadmap



Main Products

- → Semiconductor Manufacturing Process
- → Semiconductor Specialty Chemicals
- Display Specialty Chemicals
- Peer Product Comparison
- → Photoresist Materials Market



Operating Results

- → Financial Highlights
- Major Customer



Business Advantage

- ✓ Integrating Upstream From Formulation Technology
- → Supply Chain Strategic Alliance
- Quick Response and Steep Learning curve
- Excellent Quality Control and Self Designed Manufacturing Technology



ESG Performance

- ▼ Energy Efficiency and Carbon Reduction
- → Social Participation
- ▼ Talent Sustainability
- → Friendly Workplace
- Corporate Governance



GEWC Board of Directors

Chairman Wen-Hsiung Chan

Yanwen Asset Management Consulting Inc.

Master, International
Business Management,
National Taiwan University

Director, Oleader Technologies Director, SciWin Synthesis Laboratories Director, Sunplus Technology Director, iCatch Technology,

Director/ General Manager Kuang-Lung Kuo Yanwen Asset Management

PhD., Applied Chemistry,
National Chiao Tung University

Consulting Inc.

General Manager, AEMC Director, SciWin Synthesis Laboratories

Independent Director Wen-Gu Huang

Ph.D., Technology Application and Human Resource Development, National Taiwan Normal University.

Independent Director , Chang Wah Technology Direct General, Export Processing Zone Administration, MOEA(Former)

Director Chuan-Cheng Hung

Chang Wah Electromaterials Inc.

BS., Mechanical
Engineering, Hong Kong
Polytechnic University.

Chairman, Chang Wah Electromaterials Chairman, Chang Wah Technology

Independent Director Cheng-Min Chuang

Ph.D., Business

Administration, University of

Washington in Seattle

Professor, National Taiwan University Research fellow, National Taiwan University's Research and Development Center for Medical Devices

Director Hung-Ren Juang

Master, Accounting,
Soochow University

Chairman, Innolux Corporation(Former) Chairman, GIS-KY(Former)

Independent Director Chih-Yang Chang

Master, Hawaii Pacific
University.

Director, Earth Education Foundation

Director Hsin-Hsin Li An Kai Jia investment Inc.

Master, Finance from the EMBA program, National Taiwan University.

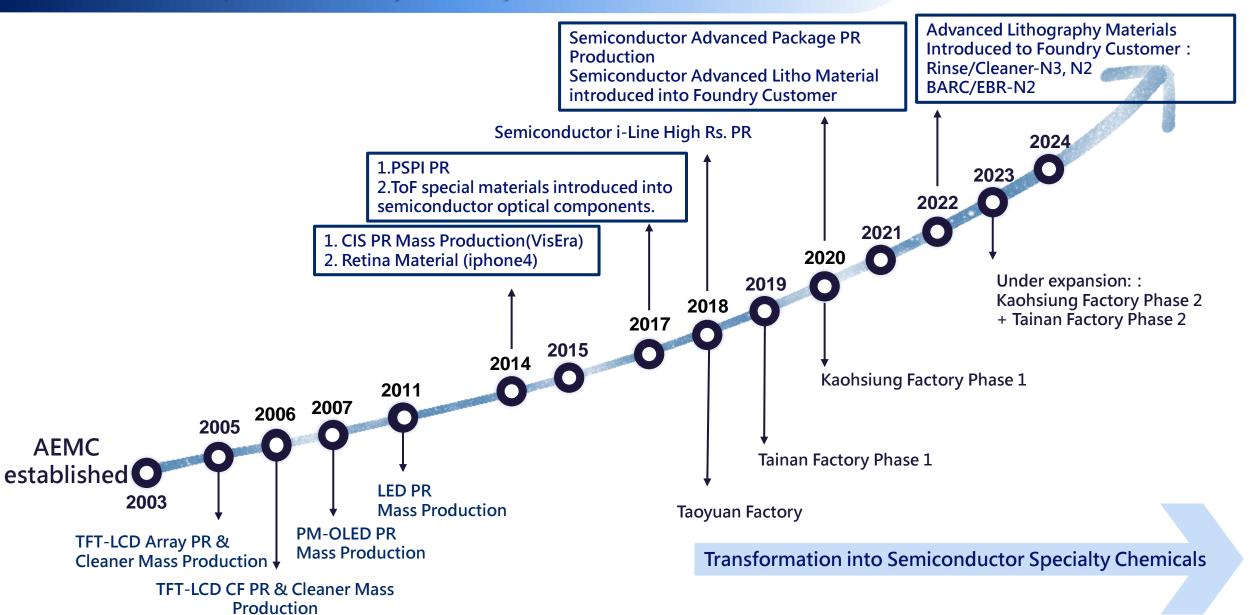
Chairman, Kiwi Technology SBI Holdings Inc

Independent Director Tammy Wang

Master, Business Administration,
University of Maryland

Managing Director, DBS Bank Independent Director, ShinyBrands

QC Development History and Key Milestones



QOOC AEMC's Main Production Base



Number of Employees

Total Employees : 421 (2024.11) **R&D Team** : 119(2024.11)

2018 2019 2020 2021 2022 2023 2024 2025 2026

Construction

Verification

Mass production **Tainan Factory Phase I** Phase II

Taoyuan Factory

Kaohsiung Factory Phase I Phase II 2025Q1

2026Q1

Taoyuan Factory HQ with R&D Center

Investment of NTD 550 million

Aspire Park, Taoyuan

Factory Area: 8,393 m²

- **Display Specialty Chemicals**
- **R&D** Center

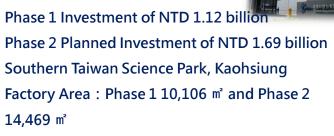




Factory Area: 2,926 m²

Semiconductor Specialty Chemicals

Kaohsiung Factory

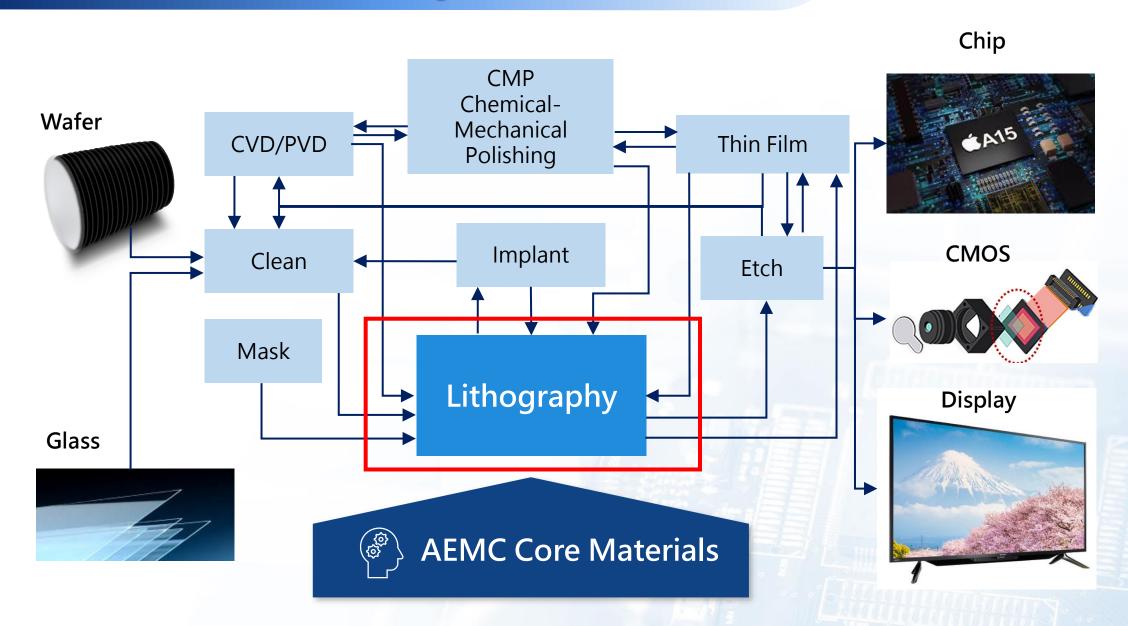


• Semiconductor Specialty Chemicals

Since 2019, capital expenditures in the semiconductor material have exceeded 3 billion NTD, with cumulative R&D investments reaching 1.1 billion NTD, totaling over 4 billion NTD.



GEWC Semiconductor Manufacturing Process



Chemical Wafer Etching/ Mechanical Protection Thin Film Process **Lithography Process** Cleaning Polishing (CMP) **Process** Protection Insulation Material **Photoresist Photoresist Extension** Metal g Wet Process Post-Polishing Cleaner **Ancillary Materials** Developer, Dry Implantation Materials Materials/Wafers Polishing **High Purity** Deposition ALD Diamond Polishing Etching CVD DUV Ш \leq Material **Materials** Non-Fluorinated Gases **Photoresist** Polyimide **Photoresis**: **Photoresist** Chemicals Compounds Stripper Monomers Slurry Gases Disc Pad SiC Materia and and S

Key Suppliers Cree/ Merck/ Mitsui Chemicals/ Tri chemical/ Entegris/ TSC/ Ingentec/ Nanmat Technology/ iemc

- Mainly Imported
- Foreign Suppliers
- Domestic Suppliers

Sumitomo Chemical/

JSR/ TOK/ Shin-Etsu/

Dupont/ FujiFilm/ Merck/

AEMC

Tokuyama/
Kanto-PPC/
San Fu/
Everlight
Chemical/
Chang Chun
Petrochemical/
Chung Hwa
Chemical

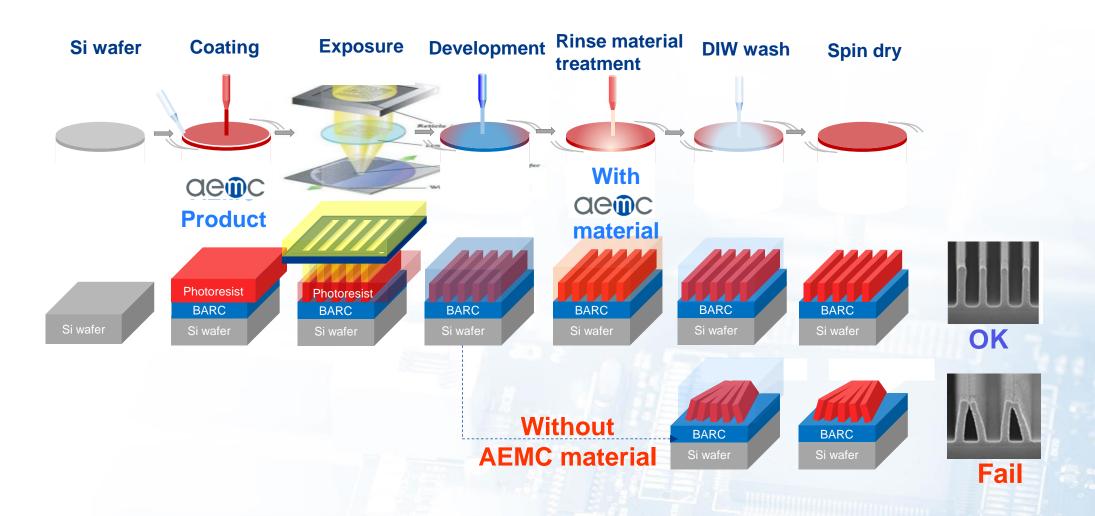
BASF/
Mitsubishi Chemical/
Mitsubishi Gas
Chemical/
Shiny Chemical/
Kuang Ming
Enterprise/Sunlit
Fluo & Chemical

DOW/ 3M/ Carbot/ Dupont/ Fujibo/ KINIK/ IV Technologies **Toray/ Dupont**

Industry Demand Items: High Purity SiC Materials/Wafers, ALD Materials, Photoresist Extension and Ancillary Materials, Insulation Protection Materials for Wafers.

產品

- √ Rinse Material
- √ BARC
- √ EBR
- √ Developer
- √ Cleaner



Semiconductor Specialty Chemicals-Key Material for Advanced Semiconductor (Rinse)

4749

Benefits

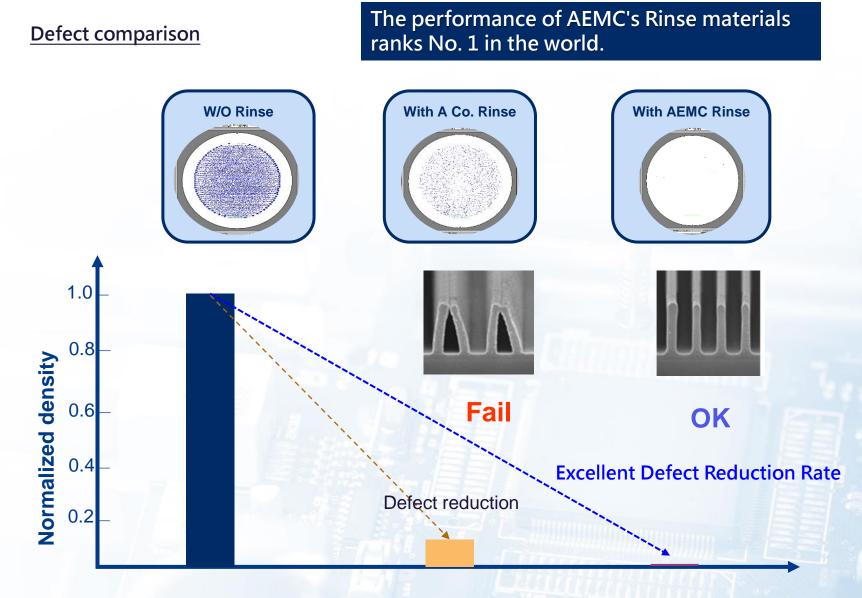
- √ Straightforward process
- √ Pattern collapse mitigation
- √ Defect reduction

Infusing Professional Resources to Enhance Supplier's R&D Capabilities

Lithography is a critical process in semiconductor manufacturing and is one of the core technologies that ensures chip quality and stability Due to the high threshold for material research and production technology, the Lithography process has traditionally relied on imported materials. In 2019, in order to enhance the research and development capabilities and production efficiency of the domestic supply chain, TSMC's Material Supply Chain Management (MSCM) collaborated extensively with the Nano Patterning Technology Division (NPTD) to launch the 'Supplier Raw Material Technology Guidance Program'. Offering expert guidance on the seven major aspects of Lithography process materials, including technology development, quality assurance analysis, data calibration, sample verification, factory configuration, tank optimization, and production expansion planning. The program has not only effectively reduced the supplier's line setup and product verification time by 50%, but its material quality also surpasses TSMC's process standards, further improving yield rates and strengthening the competitiveness of the supplier in all aspects. This initiative has laid a solid foundation for the development of the domestic Lithography process material supply chain.



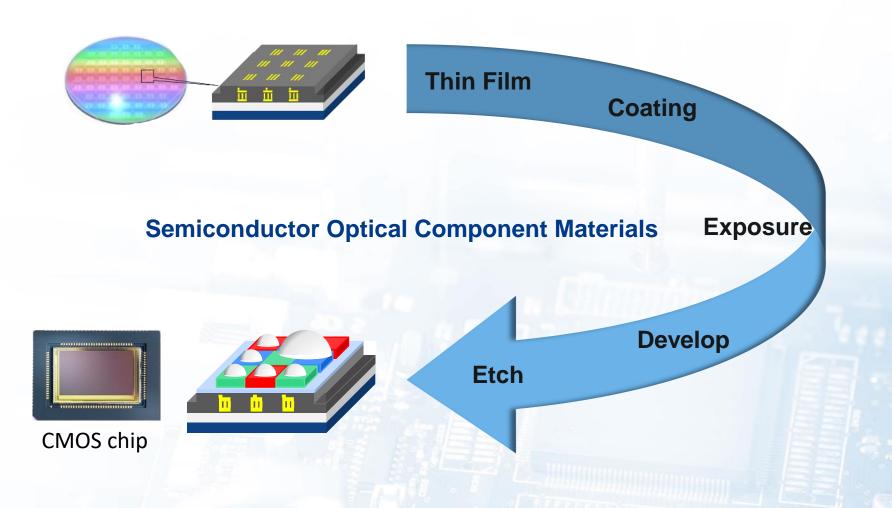
Source: Foundry Customers' ESG Website https://esg.tsmc.com/en/update/responsible SupplyChain/caseStudy/42/index.html



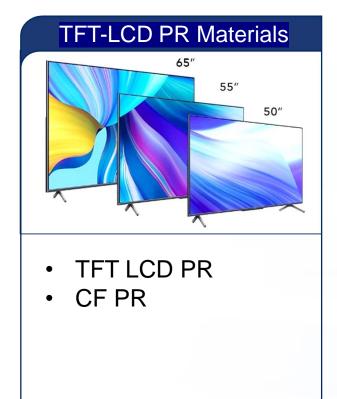
Semiconductor Specialty Chemicals-Semiconductor Optical Component Materials

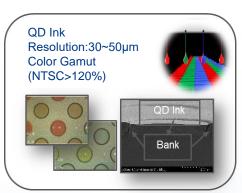
AEMC Product

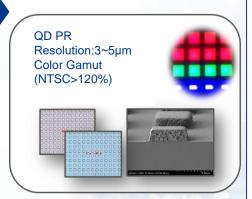
- √ Over Coat PR
- **√** Adhesive Promoter
- √ Photo Resist
- √ Micro lens PR
- √ Micro lens Protection PR



GEWC Display Specialty Chemicals









- QD Ink/PR
- Gray/White Block Layer PR
- Release Layer PR
- Bottom Fill Gel
- Low-Temperature PR
- High/Low Refractive Index Materials

GEWC AEMC current product application overview

| Industry | Category | Product | Application | | | | |
|-----------------------------------|------------------------|----------------------------------|---|--|--|--|--|
| | | Rinse | Litho Process Yield Improvement | | | | |
| | 111 | EBR | Litho Process Wafer Edge Cleaning | | | | |
| | Advanced Litho Process | Cleaner | Litho Process Pipeline Cleaning | | | | |
| Semiconductor Specialty Chemicals | | Developer | Litho Process Development | | | | |
| Chemicals | | BARC | Litho Process Anti-Reflective Coating | | | | |
| | Optical Component | Image Sensor Material | Litho Process Adhesion Promotion | | | | |
| | | Micro-Optical Component Material | Litho Process Film Deposition Pattern Alignment | | | | |
| | TFT | Photoresist | Photolithographic Imaging Component Fabrication | | | | |
| Display Specialty Chemicals | CF | Photoresist | Photolithographic Imaging Filters RGB/BM | | | | |
| Onemicais | Micro LED | Photoresist | Inkjet Printing Photolithography Imaging | | | | |

GOWC Peer Product Comparison

Mass production V Under verification O

| | | | | | | | | | | Officer veri | |
|-------------------------|----------------------------|------|------|-------|-----|-----------|----------|------|----------|--------------------|-----|
| Litho Process Materials | | AEMC | BASF | MERCK | JSR | SHIN ETSU | FUJIFILM | TOK | Sumitomo | Nissan Chemical | DOW |
| | | TW | DE | DE | JP | JP | JP | JP | JP | JP | US |
| | CIS | V | | | | | V | | | | |
| | G/I-line | V | | V | V | V | V | V | V | | |
| Photoresist | KrF | 0 | | V | V | V | V | V | V | / | V |
| | ArF | 0 | | V | V | V | V | V | V | | V |
| | EUV | | | | V | V | | V | V | | |
| | BARC | V | | | | | | 14-6 | | V | V |
| | Rinse | V | | V | | | | | | | |
| Davimbanal | Cleaner | V | V | | 1,5 | | id= | | | | |
| Peripheral Materials | Developer | V | | | | | | V | | | |
| | EBR | V | V | V | V | | | V | - " | | |
| | Insulation layer materials | 0 | | | | | | | | V | |

Note: Compiled by Mega Securities, based on the company's official website and public information. The materials above focus on the front-end process of semiconductors.

Global Semiconductor Market 697 Billion USD

Semiconductor Materials Market 79.4 Billion USD (11.4% of Global Market)

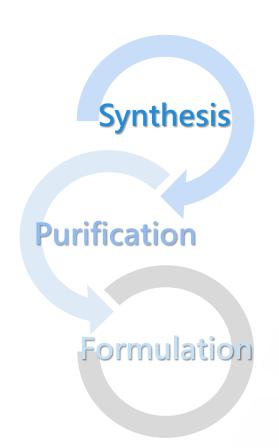
Focused Market of COMC

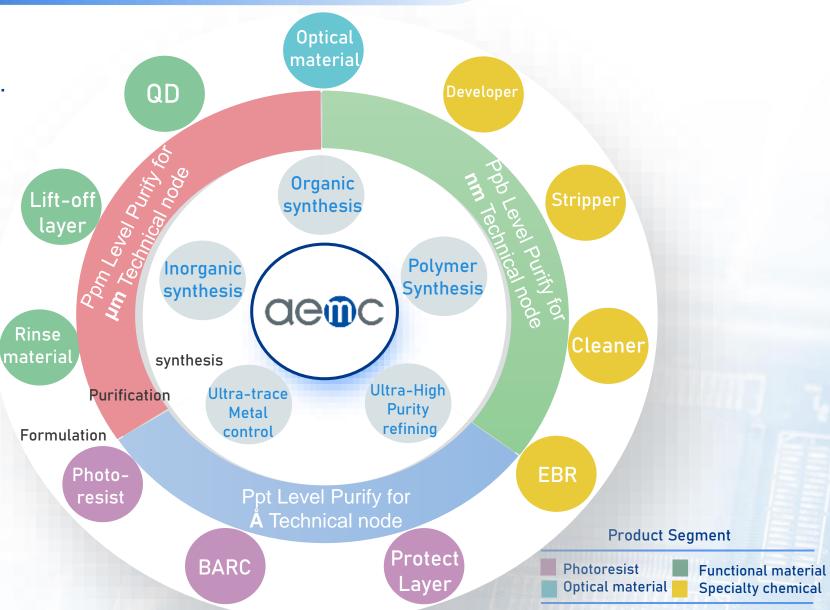
Photoresist and Photoresist Extension and Ancillary Materials Market
6.7 Billion USD



COUC 1. Integrating Upstream From Formulation Technology

20 Years of Materials and >1,000 Formulations Databases.





2: Establishing the Strategic Alliance for TW Material Supply Chain

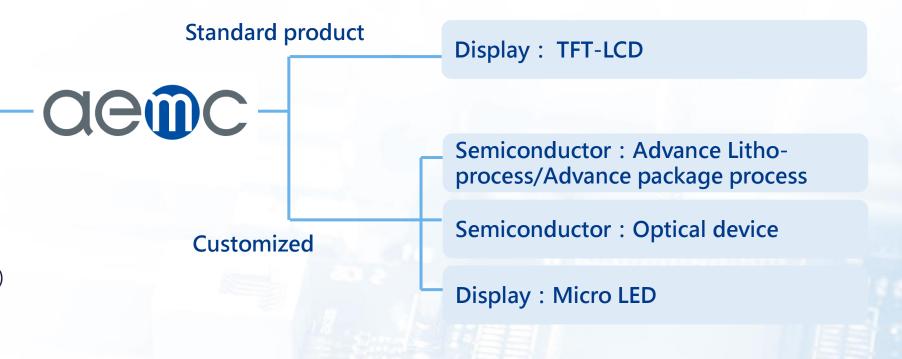
Existing materials

Mainly relying on external purchases

Monomer/Precursor Synthesis

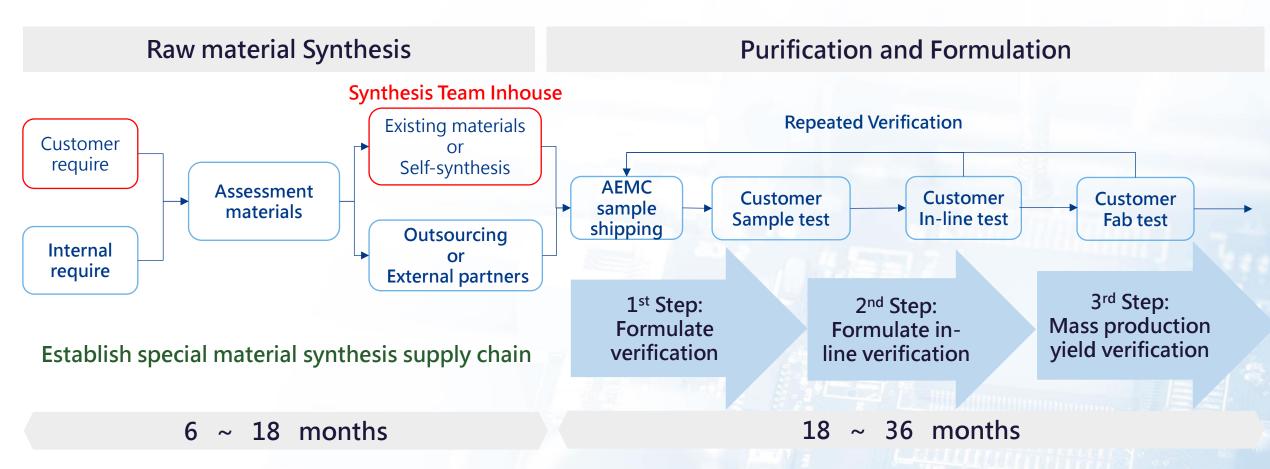
Self-synthesis or outsourcing(CDMO)

Domestic Universities and Research Institutions



GOWC 3. Fast Response Time and High Learning Curve

Higher response speed / Sample delivery frequency Customized development



4. Excellent Quality Control and Self Designed Manufacturing Technology

Excellent Quality Control

Self Designed Manufacturing Technology

- ✓ Quality Control Equipment and Systems:
- Building Equipment of the Same Level as Customers
- Ultra-Trace Impurity Control to Meet the Requirements of Advanced Semiconductor Processes: Evolving from ppb (10⁻⁹) to ppt (10⁻¹²) levels
- Intelligent Quality Monitoring System: Automated Product Inspection and Integrated Quality Data Analysis

Product

In-house

Production

Line

Sample Shipping



R&D Lab

Trial Production



Mini line

Mass Production



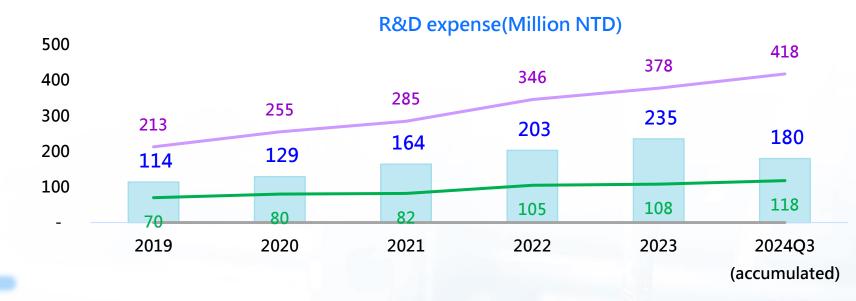
High Volume Manufacturing



QO@C Continuous Increase in R&D Resource Investment



Since 2018, the accumulated R&D investment in semiconductor material development has reached 1,108 million NTD.



Unit: Million NTD



A total of 94 active patents have been obtained

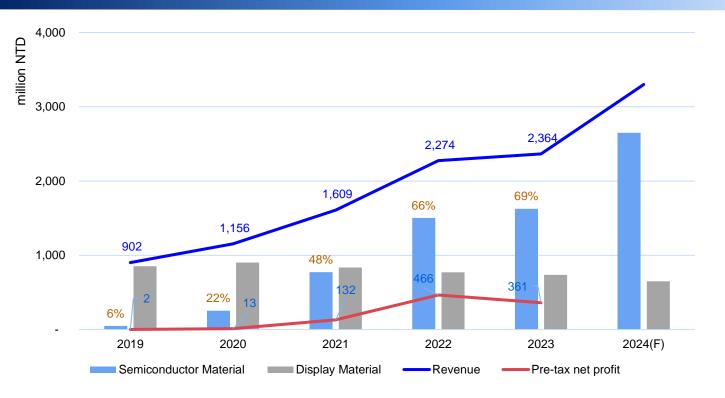
*Including a total of 115 patents that have expired over the years.

| Year | 2019 | 2020 | 2021 | 2021 2022 2023 | | 2024Q3 (accumulated) |
|------------------------------|-------|-------|-------|----------------|-------|-------------------------|
| R&D expense | 114 | 129 | 164 | 203 | 235 | 180 |
| Number of R&D Personnel | 70 | 80 | 82 | 105 | 108 | 118 |
| Total Number of Employees | 213 | 255 | 285 | 346 | 378 | 418 |
| Percentage of Revenue | 12.6% | 11.2% | 10.2% | 8.9% | 9.9% | 7.5% |
| Revenue | 902 | 1,156 | 1,609 | 2,274 | 2,364 | 2,407 |

| | | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
|----------------------------|--|---|---------|------|-----------|----------|---------|---------|------|------------|---------|------|------|
| Advance Semiconductor | | | 3nn | n > | | 2nm | | 1 | .4nm | | 1. | 0nm | |
| Advance Package | | | | 2.5D | | | | 2D/3E |) | | | 3D | |
| Optical Device | | | | Se | nsitivity | / >100% | , | > | Se | ensitivity | / >110% | 6 | |
| Display | Display | | | | M | icro LEI | D QD C | C) | > | Micro | LED QI | D EL | |
| | I line | . >[| DUV KrF | = DI | JV ArF | | | | | | | | |
| | | BAR | С | | | | | | | | | | |
| Semiconductor Lithography | Photoresist Extension and Ancillary Materials | | | Е | BR | | | | | | | | |
| Process | | | | | | | Dev | /eloper | | | | | |
| | | Cleaner | | | | | | | | | | | |
| | | Rinse | | | | | | | | | | | |
| Advanced Packaging Process | Photoresist | I line | FT:60u | ım | | > | F.T:70u | m | | F. | T:80um | | |
| | Photoresist | esist DUV KrF R.s 0.3um DUV ArF R.s 0.2um DUV ArF R.s | | | | | | 0.1um | | | | | |
| Semiconductor Optical | Peripheral Materials | Tr. 85% | | | | | | | | | | | |
| Components | | High n material ,n= 1.8 > n=1.9 > n=2.0 | | | | | | | | | | | |
| | Etching Materials | Strip | per | | | | | | | | | | |
| QD | Ink/Photoresist | QD ink / QD PR | | | | | | | | | | | |



COMC Financial Highlights



The revenue for semiconductor materials grew

FY2019 50 million NTD



FY2024 2.65 billion NTD

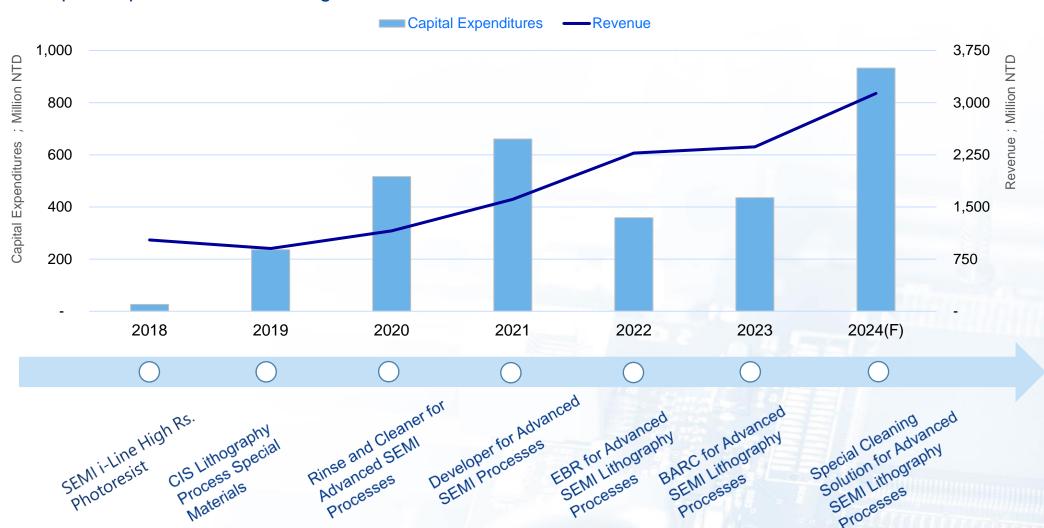
Thousand NTD

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024Q3 (accumulated) |
|-----------------------------------|---------|-----------|-----------|-----------|-----------|-------------------------|
| Revenue | 902,466 | 1,155,590 | 1,609,310 | 2,274,422 | 2,364,382 | 2,406,633 |
| Gross Profit | 266,671 | 297,287 | 422,167 | 723,053 | 694,252 | 856,375 |
| Operating Income | 7,423 | (6,442) | 52,685 | 295,186 | 224,802 | 446,785 |
| Non-Operating Income and Expenses | (5,429) | 19,719 | 79,773 | 170,771 | 136,634 | 183,004 |
| Pre-tax Net Income | 1,994 | 13,277 | 132,458 | 465,957 | 361,436 | 629,789 |
| EPS | 0.03 | 0.21 | 1.62 | 5.01 | 3.91 | 6.39 |

aemc

Historical Capital Expenditures and Growth Development Trends

Since 2018, the company has transitioned to semiconductor materials development, with cumulative capital expenditures exceeding 3 billion NTD.



Photoresist









We create chemistry











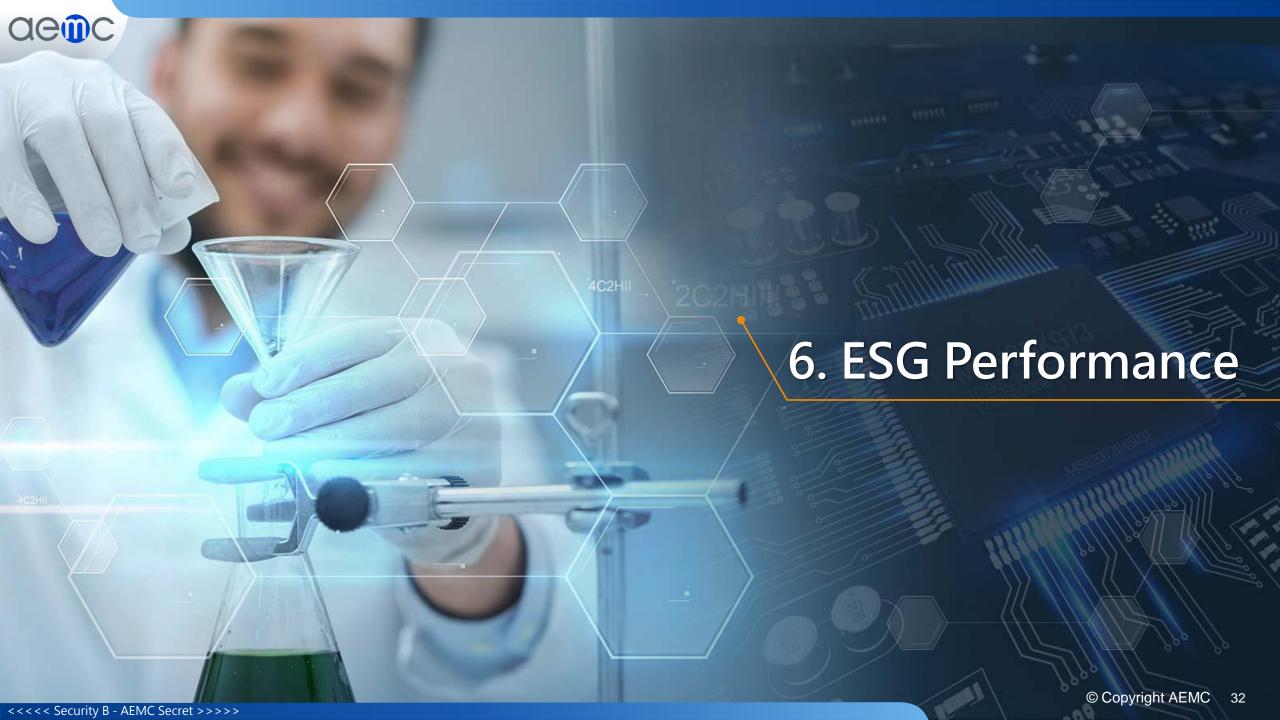












aemc **Sustainability Achievements**



Employees voluntarily

organize and participate in

Awarded a certificate of appreciation by a major wafer foundry customer for the 'Supplier Energy Saving and Carbon Reduction Guidance Program'



Established the 'New Materials Scholarship'

· Founded the 'New Immigrant Children Scholarship'

· Actively participated in 'Industry-Academia Cooperation

Diversity and Inclusion

2024/6 4 Foreign employees from different nationalities are employed in Taiwan

Gender Equality

- Female employees>35%
- Female managers at or above the managerial level>30%
- Female managers in the R&D department > 50% •

Diverse Employee Benefits

Free employee meals, child care allowances, housing subsidies, etc.

- 4 Independent directors, accounting for more than 44%
- 2 Female directors, accounting for more than 22%
- · Sustainability Report to be issued in 2025









Friendly

Workplace

Corporate



1919 Food Bank



Participation in Environmental Sustainability

Blood Donation Campaign



Social Engagement



Governance



