

CHINA STEEL CHEMICAL CORPORATION

Investor Conference August 2025







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- **Prospects and Opportunities**



Company Profile





Basic Information

China Steel Chemical Co., Ltd. was established on 1989.

Capital

2.369 Billion

stock symbol

1723



The only coal chemical plant in Taiwan.

The first professional graphitization plant in Taiwan.

Number of Employees: 334

PhD-8 \ Master-97; Male-87% \ Female-13%

Manufacture Base

Coal Chemical Plant: Kaohsiung Linhai Industrial Park

Carbon Material Plant: Pingnan Industrial Park





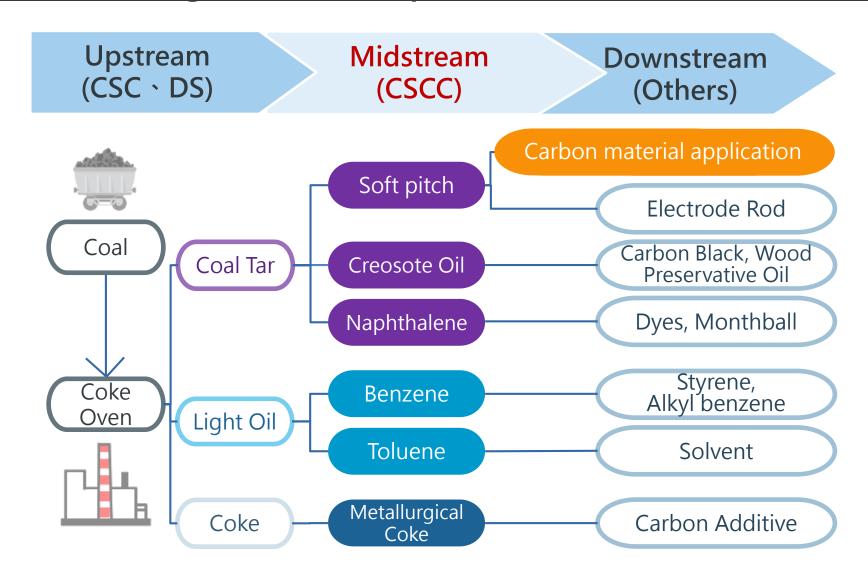


Major Shareholder

Major shareholder	Percentages
China Steel Corporation	29.04%
International CSRC Investment Holdings Co., Ltd.	4.96%
Ever Wealthy International Corp.	2.01%
Chichengte Investment Co., Ltd.	1.46%
KGI Life Insurance Co., Ltd.	1.32%
Hsinyang Investment Co., Ltd.	1.14%
Mega International Commercial Bank Trust Account - CSCC	0.93%
Chang Gung Medical Foundation	0.93%
Vanguard Total International Stock Index Fund Investment Account	0.90%
Hui-Ping, Yen	0.86%
As of : July 12, 2025	43.55%

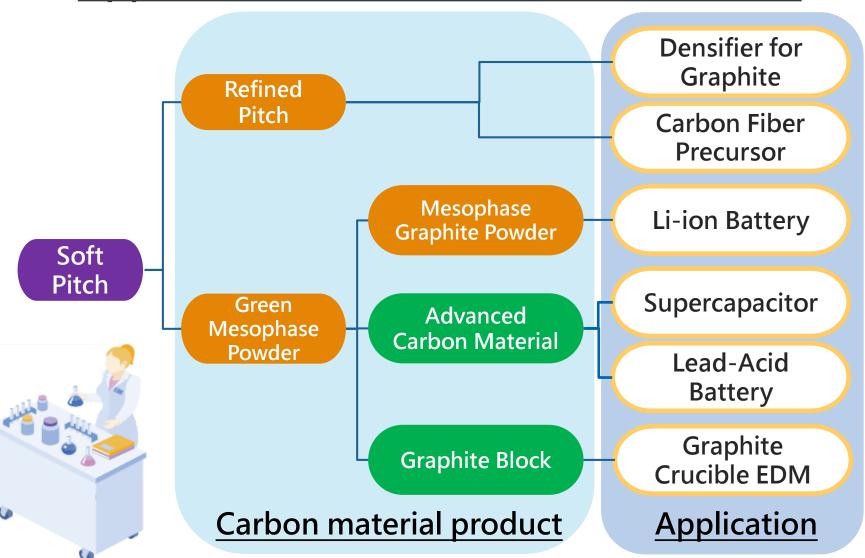


The Relating Product Map of Coal Chemical Industries





Applications of Carbon Material Product



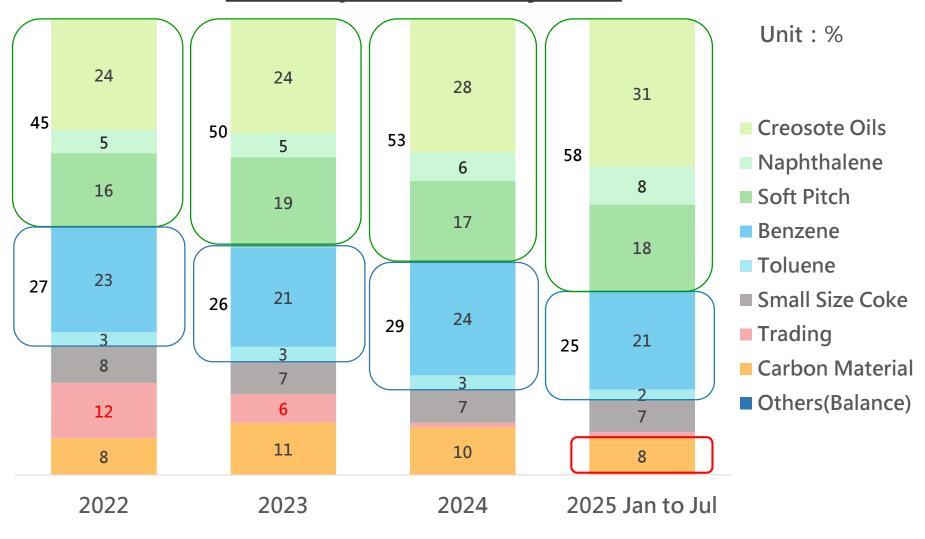


Operating Performance





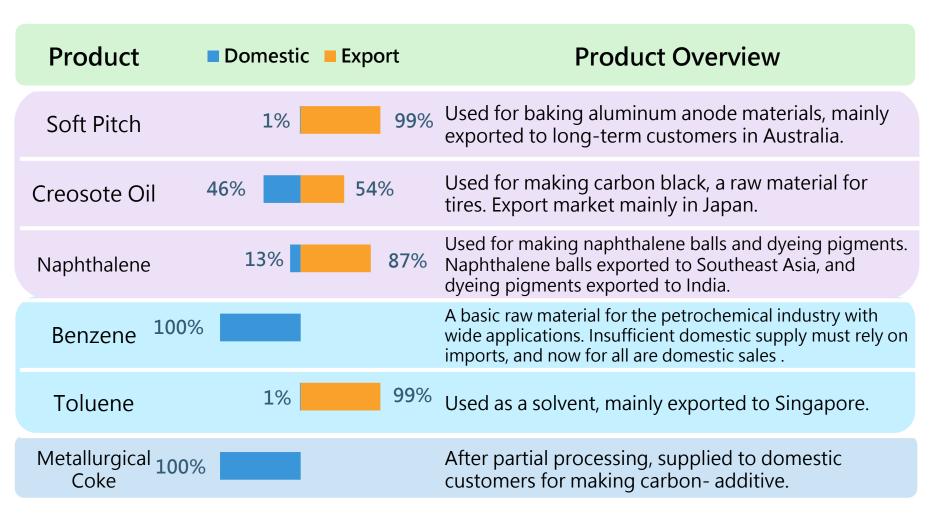
Revenue breakdown by Products in the past three years







Coal Chemical Products Sales



Note: The ratio of domestic and export is the ratio of revenue in 2024.





Carbon material product

■ Domestic	■ Export	Product Overview
38%	62%	Sold to battery cell factories for making Li-ion Battery, with exports primarily to China, Japan, and Southeast Asia.
45%	55%	Mainly sold to anode material factories for producing anode materials, with exports primarily to China. And also used for other applications in non-anode materials.
	100%	Sold for use in steelmaking electrode rods for dipping processing, with exports primarily to China, Southeast Asia, and Japan.
		Mainly sales materials for supercapacitors, advanced lead-acid batteries, and lithium-ion capacitors, with markets including China, Japan, South Korea, and Taiwan.
		Mainly used for graphite components in silicon carbide semiconductors, metal casting, and hotpress glass molds, with a primary focus on domestic sales.
	38%	38% 62% 45% 55%

Note: The ratio of domestic and export is the ratio of revenue in 2024.



Product Coverage of a Variety of Industries

Creosote Oil



Car industry tire
- Carbon Black

Benzene



Petrochemical industry

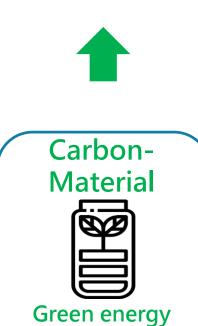
- Basic raw material

Soft pitch



Aluminum smelting industry

- Electrode Rod



industry

Energy storage/electric batteries

Net Income

Before Tax

Gross Margin

(%)

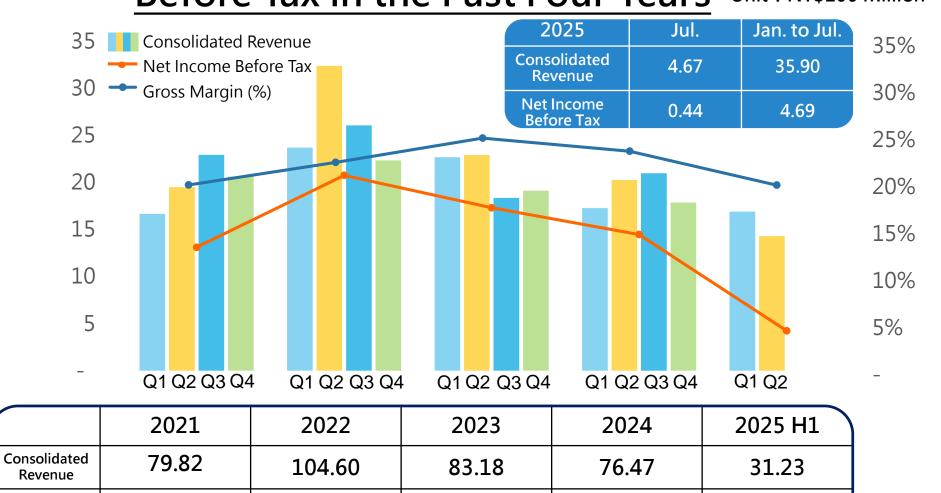
13.13

20.22

20.78

22.62

Consolidated Revenue and Net Income Before Tax in the Past Four Years Unit: NT\$100 Million



17.33

25.20

14.48

23.81

4.25

20.20

Update on Recent Business Performance





NTD Appreciation

Approximately 50% of the Company's revenue is derived from exports. Including NTD-denominated products, which converted using the USD benchmark, the proportion reaches around 80%. The sharp appreciation of the New Taiwan dollars from the beginning of May through June, and led to a decrease in profitability.

Global Market Conditions

Some of the company's key products prices are directly tied to oil prices. This year, oil prices have fallen by about 15% compared to last year. International benzene prices have dropped by 22%, and soft pitch, which is not related to oil prices, has also fallen by 18%. This has impacted the company's revenue and profitability.

Carbon Material

Due to significant overcapacity in China and uncertainties in the external economic environment, customer demand has been impacted. Many clients have reduced or delayed mass production in response, resulting in weaker revenue performance.









Future Market Outlook

Oil Prices

- OPEC+ increases production, putting pressure on oil prices.
- Geopolitical conflicts continue to have an impact.



Benzene Prices

- Increased demand in China, and driven by U.S. tariffs.
- Oil prices have downward pressure, but the benzene price-to-oil price ratio is low.



Consolidation with an upward bias.

Pitch Prices

- Operating rate for deep processing of pitch in China has increased.
- As a major Chinese celebration approaches, environmental protection efforts are intensified, affecting the operations of coking companies.



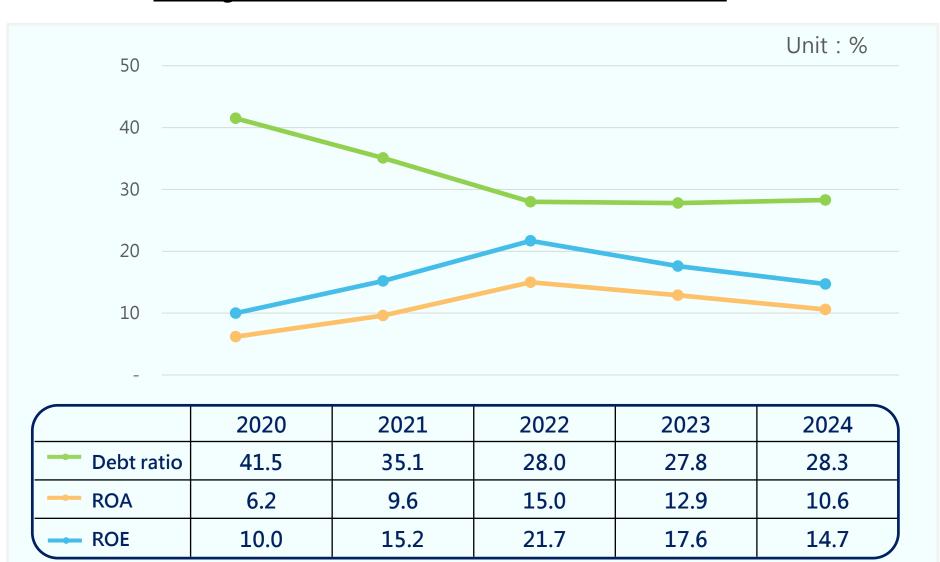
A minor pullback followed by a steady uptrend.

Foreign media reported that --the Chinese government plans to implement regulations on the petrochemical industry, which is expected to improve the industry structure and reduce price competition.





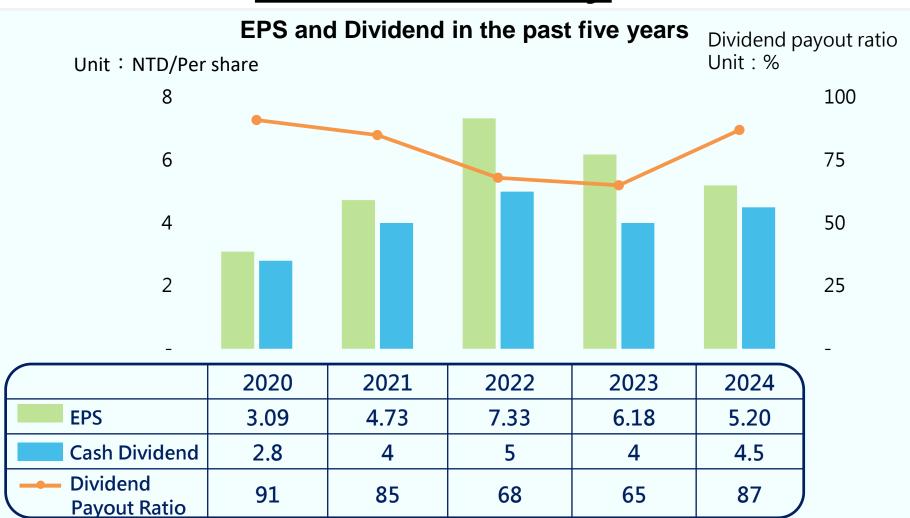
Major Financial Indicator







Dividend Policy

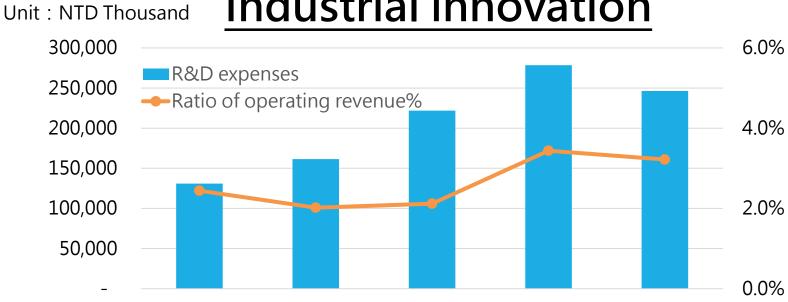


CSCC has been profitable for 30 consecutive years. The total amount of distributed dividends (including stock dividends) is above NT\$130.

R&D expenses and Industrial innovation







Industrial innovation subsidy projects in recent years	Execution situation
 I - The development of high-purity carbon powder and isotropic graphite for use in compound semiconductors. 	Completed
II - The development of anode materials for electric bus batteries	Completed
III - The development of high-purity graphite crucible for SiC crystal growth used in compound semiconductors.	Executing
IV - Anode Material Development and Verification Program for Ultra-High Power Batteries	Executing





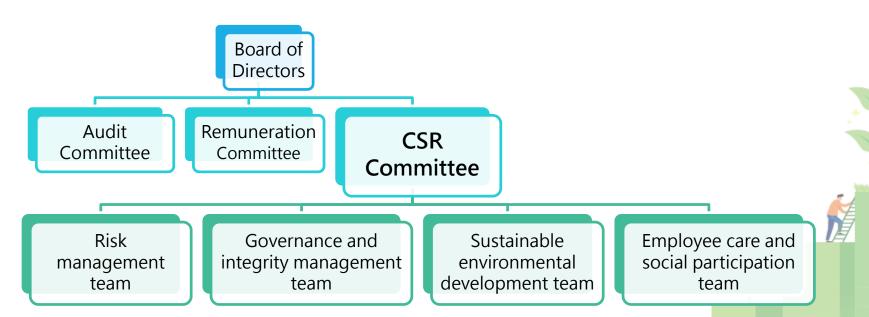
Sustainable Development





Corporate governance

- To establish Sustainable Development Committee.
- CSCC was in the second grade(6%~20%) according to the lasted corporate governance evaluation results(2024), and for five consecutive years.
- CSCC was selected as a constituent stock of the "TIP Customized Taiwan Green Energy and Electric Vehicles Index" in November 2023.







Carbon neutrality by 2050

Following the group's policy, the company has pledged to achieve carbon neutrality by 2050. We have established short, medium, and long term strategies and targets, outlining various carbon reduction strategies and a pathway to carbon neutrality.

Shortterm • By adopting mature, readily implementable carbon reduction technologies, we have completed a cumulative total of 65 carbon reduction projects since our baseline year of 2022, achieving a reduction of 7,016.7 tons of carbon emissions.

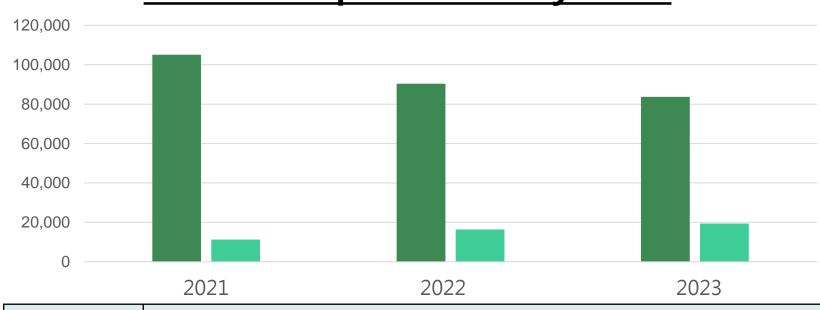
Medium -term • By leveraging innovative technologies, AI intelligence, and replacing absorption chillers, we aim to enhance energy efficiency and achieve a 20% carbon reduction target by 2030. (Compare to 2022)

Longterm • Utilizing clean energy technologies such as green electricity and hydrogen, complemented by carbon capture techniques, we aim to reduce emissions first and then remove residuals, progressing toward carbon neutrality by 2050.





Greenhouse gas inventories conducted Unit: metric tons over the past three years.



Through process improvements, waste heat recovery, and enhanced energy efficiency measures, Xiaogang Plant's audited emissions have steadily decreased.

Plant of Pingnan

- The Pingnan plant is still undergoing expansion and production capacity continues to increase, so carbon emissions are rising.
- The subsequent plan includes electrification of energy systems, the transition to green electricity, the installation of renewable energy equipment, and an increase in green energy usage, all aimed at gradually reducing carbon emissions each year.



ESG Implementation and Award Achievements

2019-2023

Gold Award from TCSA

2022

- National Enterprise Environmental Protection Award-Bronze medal
- ➤ Top 100 Carbon materials competitiveness on Business Weekly

2021-2024

2023



Awarded TIPS level a patent and certification



Awarded Certification of information security ISO 27001

2023

- Awarded for Environmental Protection Sustainability Contribution Award
- Awarded for Excellent Trading Business
- Ministry of Health and Welfare "Healthy Workplace Certification Promotion Label"

2024

- Award for The 9th National Environmental Education Award of the Excellence Award
- Award for Affairs 113 Industrial Park Greening
 and Beautification-Second Place
- Pingtung Excellence Enterprise Award Investment Model Award
- Sports Administration, Ministry of Education -Sports Enterprise Certification
- Taiwan Electrical and Electronic Manufacturers'
 Association Digital Transformation Model
 Award
- Top 100 Carbon materials competitiveness on Business Weekly



Prospects and Opportunities





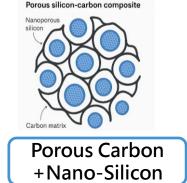
Development Trends of Lithium-ion battery

Graphite Anode

With excellent cycling stability and superior electrical conductivity, it is currently the most reliable anode material for lithium-ion batteries, accounting for more than 98% of the market share.

Silicon-Based Anode

- (1) Incorporating silicon-based materials into graphite anodes can significantly increase capacity; however, the high expansion of silicon severely affects the cycle life of batteries.
- (2) The mainstream solution at present is porous silicon–carbon composites, which provide expansion space for silicon within the porous carbon structure. Nevertheless, the proportion of silicon addition is currently limited to only about 5–10%.



Semi-Solid State Battery

- (1) Solid-state batteries are the ultimate solution, but they still have the significant challenges in terms of <u>large-scale</u> <u>production</u> and <u>cost control</u>.
- (2) Semi-solid-state batteries have become the current transitional solution.





Application of Silicon-Carbon Anodes in High-End Smartphones

- UF series anode materials | Low expansion, Long cycle life, High rate.
 - The manufactured battery electrodes can exhibit the following characteristics:
 - →Achieving an ultra-thin thickness of 0.18 mm.
 - →The silicon material addition ratio can reach a new high of 25%.
 - →Energy density is over 28% higher than typical competing products.
 - Has been incorporated into the **High-End smartphone supply chain**, and create

flagship-level smartphone functions.

Extremely thin and light

High capacity

Fast charging



- Advanced Carbon Material
 - It has excellent material properties for preparing silicon-carbon, and now is actively developing it. Multi-pore/layered structure,

High specific surface area,
High electrical conductivity.





24M Semi-Solid-State Battery Applications

• 24M semi-solid-state battery is already in mass production in Japan. In addition, a production line for a new customer in GW has been completed and test runs have been done. A product launch is scheduled for September, with energy storage and vehicle use as the main applications. •

• CSCC Mesophase Graphite Powder, when applied in 24M semi-solid-state

batteries, have the following features:

High Density

Maintains high conductivity and increases capacity.

High Interface Stability

Reduces side reactions and impedance, extending cycle life.

Excellent Fast-Charging Performance

Spherical structure and high conductivity support the demand for 24M fast charging.

High Cycle Life and Safety

Can maintain a long cycle life at high rate and high temperature.

CSCC Mesophase Graphite Powder are the only anode material that has passed the verification for 24M semi-solid-state battery. With the rampup of the customer's production line, demand is expected to surge.



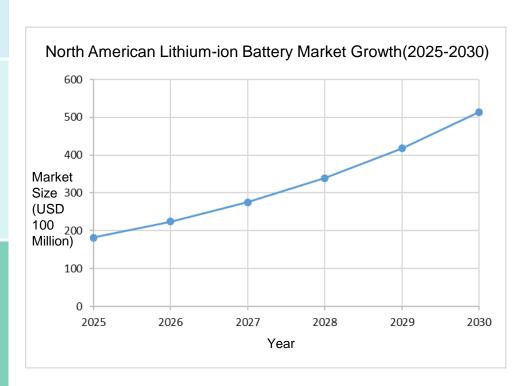


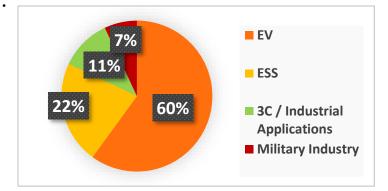
Expanding Opportunities in North America

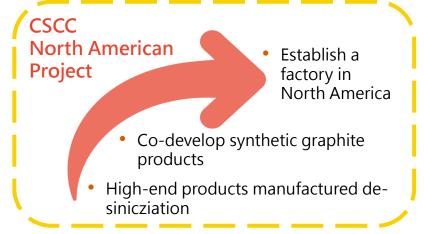
• The U.S. Department of Commerce has preliminarily ruled that Chinese graphite products are being dumped, imposing an anti-dumping duty of 93.5%, with the combined actual tariff reaching 160%.

• In 2024, the U.S. imported nearly 180,000 metric tons of graphite products, with

approximately two-thirds coming from China.







Applications of ACS





Steady Supply

Supercapacitor Applications

High-Power Discharge Applications

3.0V High-Voltage Supercapacitor





Rail Vehicles, Wind Power, Smart Grid

Advanced Lead-Acid Battery

Enhanced Conductivity and **Extended Lifespan**

High-Rate Discharge





Automotive Start-Stop Battery, UPS Uninterruptible Power Supply System

Customer Validation

Lithium-Ion Capacitor

High-Power Discharge Applications

Long Cycle Life Characteristics



Data Center Power Backup System

Capacitive Deionization

High Surface Area Adsorption High Conductivity





Industrial Ultrapure Water Nater Vater Purifier





Opportunities for Advanced Carbon Materials Development - Battery Backup Unit for Al Servers (BBU)

- Battery Backup Unit for Al Servers (BBU)
 - 1. LIB (Li-ion battery): Currently the mainstream application.

CSCC Graphite
Anode

- 2. LIB + EDLC (Supercapacitor): CSCC Advanced Carbon Materials

 Due to LIB's lower discharge power and cycle life, it cannot meet the power fluctuation demands of AI servers. Therefore, it is combined with EDLC. •
- 3. LIC (Lithium-Ion Capacitor): CSCC Advanced Carbon Materials

 Because of higher technical difficulty. It is a new product that combines the high capacity of LIB with the high power and long cycle life of EDLC.

Advantages of CSCC Advanced Carbon Materials:

- 1. High Capacity
- **2.De-Sinicization** creates opportunities to expand market share.
- 3. Actively developing porous carbon anode materials.

- →CSCC Board of Directors approved the 500-ton advanced carbon materials factory expansion project in February 2025.
- ✓ Phase 1 is scheduled for completion in early 2027.
- ✓ Phase 2 is scheduled for completion by the end of 2030.





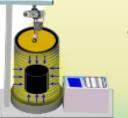
Graphite Block Development

High Purity High Density High Strength



BCP

Mixing



CIP

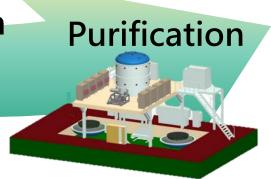
Carbonization



Graphitization



- Thermal and Chemical Resistance
- High Thermal Conductivity
- High Purity
- High Density
- Fine Structure
- Homogeneous







Graphite Block Material Development

- Graphite block materials are mainly used for Sic crystal growth crucibles and industrial hot zone components.
- SIC
 - Advantages

High voltage

High current

High-heat tolerance

High frequency

Lowloss

- Application
- 1. Electric vehicles, charging piles, etc., can save 75% of power
- 2. Al servers, meeting high voltage (HVDC) demands
- 3. AR glasses lenses (latest applications)
 - →Possessing High refractive index and good thermal conductivity, it can expand the field of view and display stably.



Advantages of CSCC Isotropic Graphite Block Materials:

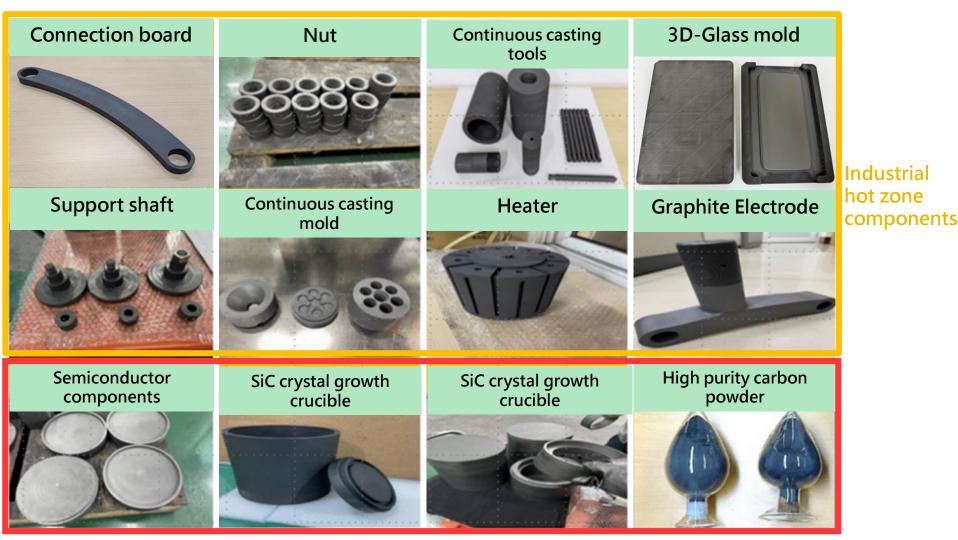
High strength, High density, and High purity.

- 1. The products have been verified by multiple customers and meet the supply standards of manufacturers.
- 2. China has listed graphite products as export-controlled items, so customers are actively introducing localized supply chains.
- →CSCC Board of Directors approved the 240-ton isotropic graphite block factory expansion project in February 2025.
- ✓ Expected to be completed in early 2027





Application of Graphite Block



Silicon carbide compound semiconductor



Creating a sustainable and friendly environment, and precision manufacturing in green energy.

To become a key carbon material supplier for the green energy industry.







Customer Satisfaction \Sincerity \Credibility \Cooperation



Q83/A

Thank you

