CHINA STEEL CHEMICAL CORPORATION (1723) Investor Conference





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Recap of Recent Major Events

- CSCC Board of directors approved the investment in a second line of graphitization furnaces at the Pingnan Carbon Materials Plant.(2022/05/05). The second phase of the graphitization production line is planned to add 4,000 tons of graphitization capacity. This project was completed in Q2 2024 and is currently undergoing trial production.
- CSCC approved the investment in Research and Development Center at the Pingnan Carbon Materials Plant.(2023/09/27), estimated completion date is the end of year 2025.











1. Company Profile

CSCC operates the production and sales of coal tar series products, light oil series products, coke series products and refined carbon material products.

- > The only coal chemical plant in Taiwan.
- > The first professional graphitization plant in Taiwan.







Basic information

	Company name	China Steel Chemical Corporation
	Inception	February 3, 1989
	Company Address	25F, No. 88, Chenggong 2nd Road, Qianzhen District, Kaohsiung City, 806
	Capital	NT\$2,369,044,800
	Listed Date	November 27, 1998 (Stock symbol: 1723)
	Number of Employees	337 (PhD-8 ` Master-101 ; Male-87% ` Female-13%)





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The structure of shareholder

Major shareholder	Percentages	
China Steel Corp.	29.04%	
International CSRC Investment Holdings Co., Ltd.	4.96%	
Fubon Life Insurance Co., Ltd.	3.93%	
Ever Wealthy International Corp.	2.01%	
Zhichengde Investment Co., Ltd.	1.46%	

As of : July 15,2024





The Relating Product Map of Coal Chemical Industries







Coal Chemical Products Sales

<u>Product</u>	Domestic	Export	Product Overview
Soft Pitch	1%	99%	Used for baking aluminum anode materials, mainly exported to long-term customers in Australia.
Creosote Oils	45%	55%	Used for making carbon black, a raw material for tires. Export market mainly in Japan.
Naphthalene	10%	90%	Used for making naphthalene balls and dyeing pigments. Naphthalene balls exported to Southeast Asia, and dyeing pigments exported to India.
Benzene 100)%		A basic raw material for the petrochemical industry with wide applications. Insufficient domestic supply must rely on imports, and now for all are domestic sales .
Toluene	6%	94%	Used as a solvent, mainly exported to Singapore.
Small Size Coke 100	0%		After partial processing, supplied to domestic customers for making carbon- additive.

Note: The ratio of domestic and foreign sales is the ratio of revenue in 2023.







Carbon material product

<u>Product</u> Domestic Export <u>Product Overview</u>

Green Mesophase Powder	31%	69 %	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.
Mesophase Graphite Powder	22%	78%	Sold to battery cell factories for making Li-ion Battery, with exports primarily to China, Southeast Asia, and Japan.
RBP		100%	Sold for use in steelmaking electrode rods for dipping processing, with exports primarily to China, Southeast Asia, and Japan.

Note: The ratio of domestic and foreign sales is the ratio of revenue in 2023.







Revenue breakdown by products in the past three years







Coverage of a variety of industries







2 • Operating Performance







Consolidated Revenue and Net income before tax in the past three years



	2021	2022	2023	2024 Jan to Aug
Consolidated Revenue	79.82	104.60	83.18	53.47
Consolidated Net income before tax	13.13	20.78	17.33	10.58





Major financial indicator







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Dividend Policy



CSCC has been profitable for 30 consecutive years. The total amount of distributed dividends (including stock dividends) is NT\$127.35.





3 · Sustainable Development







Coporate governance Evaluation

To establish Sustainable Development Committee.

Governance



CSCC was in the second grade(6%~20%) according to the lasted corporate governance evaluation results(2023), and for four consecutive years.

CSCC was involved TWSE Corporate Governance 100 index(2022 and 2023).







Save energy and Reduce carbon emissions

	Cumulative average electricity saving rate(%)	Water/Waste water use intensity(%)	Air pollution reduction (SOx tons/year) (NOx tons/year)	Scope 1 and 2 reduction (%)
Short-term goals (2024)	1.05 (Coal Chemical) 1.00 (Carbon Chemical)	1.5 (Coal Chemical) 1.1 (Carbon Chemical)	SOx : < 5 NOx : < 25	2
Medium- term goals (2025-2028)	1.05 (Coal Chemical) 1.10 (Carbon Chemical)	1.5	SOx : < 3 NOx : < 20	2025~26:2 2027~28:5
Long-term goals (2029~2033)	1.1	2	SOx : <1 NOx : <15	2029~30 : 5 2031~33 : 3 FY2050 carbon Neutrality

Carbon Reduction Achievement:

From January to August 2024, a total of 24 energy-saving and carbon reduction initiatives were implemented, resulting in an actual carbon reduction of **1,604 tons**, which has **already reached 93%** of the annual planned reduction target.



2021-2024

要素化學驗份有關公罚

323 HUG



ESG Awards

2019-2023

Gold Award from TCSA





Awarded TIPS Level A Patent and ertification





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

2023

- Awarded for Environmental Protection Sustainability Contribution Award
- > Awarded for Excellent Trading Business



- Award for The 9th National Environmental Education Award of the Excellence Award
- Award for Affairs 113 Industrial Park Greening and Reputification Second Place
 - Beautification-Second Place





4 · Future Development







CSC GROUP



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





Carbonization Furnaces Expansion

• To plan and expand carbonization furnaces due to the increased demand for anode material.







CSCC's Mesophase Graphite Powder Development

	Feature		Development		Opportunities
A	High first columbic efficiency	A	Ultra high drainage rate	A	De-Sinicization
	High energy –density	>	High capacity silicon carbon material	۶	Localization
	High discharge capability	>	High capacity fast charging		Semi-solid State Battery
	Long cycle life	~	Artificial graphite compound	\blacktriangleright	Energy Storage Applications

> Advanced Applications such as F1 Electric Racing Cars, Vertical Take-off and Landing Aircraft (eVTOL)







Advanced Carbon for Supercapacitors (ACS)

Green Meso- phase Powder Activation	Clean	Dry	Mill	ACS
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 ACS annual production capacity is 90MT/year(two production line)

Features of ACS

- ✓ High Surface Area
- ✓ High Capacitance
- ✓ Good chemical properties and thermal stability
- ✓ Low functional group

Product application

Supercapacitor

Lead-acid Battery

Lithium-Ion Capacitor





Applications of ACS

Supercapacitors

 Supercapacitors have high efficient charge and discharge characteristics. Cycle life is more than twenty thousand times.





Rail vehicle, wind power, automobile field, smart grid, smart appliances

Advanced Lead-Acid Battery

Advantages of addition activated carbon into LAB

- Increasing conductivity
- Improving the uniformity of Pb/PbSO₄
- Extending the life of LAB







Graphite Block

- ۲ BCP **High Purity** ٠ Mixing **High Density** ٠ • CIP **NIID** Carbonzation Graphitizaion **Purification**
- **Thermal and Chemical Resistance**
 - **High Thermal Conductivity**

- **Fine Structure**
- Homogeneous





Application of Sic carbide crystal growth

The key carbon materials and graphite materials used in silicon carbide crystal growth include:

A. High-purity carbon powder
 B. Graphite Block

SiC Crystal growth furnace





Sic power devices possess unique advantages such as high voltage, high current, high temperature, high frequency, and low loss. When applied in electric vehicles and charging stations, they can save up to 75% of energy.





Graphite Block



Silicon carbide compound semiconductor





Our Vision

Our Vision

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

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

Core Values

Customer Satisfaction
Sincerity
Credibility
Cooperation







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