

CHINA STEEL CHEMICAL CORPORATION

Investor Conference









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Company Profile



Operating Performance



Sustainable Development



Future Development



Company Profile



Basic information

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

Capital

2.369 Billion



The only coal chemical plant in Taiwan.



stock symbol

1723

Number of Employees: 338

PhD-8 · Master-100 ; Male-87% · Female-13%

Manufacture Base

Coal Chemical Plant: Kaohsiung Linhai Industrial Park

Carbon Material Plant: Pingnan Industrial Park





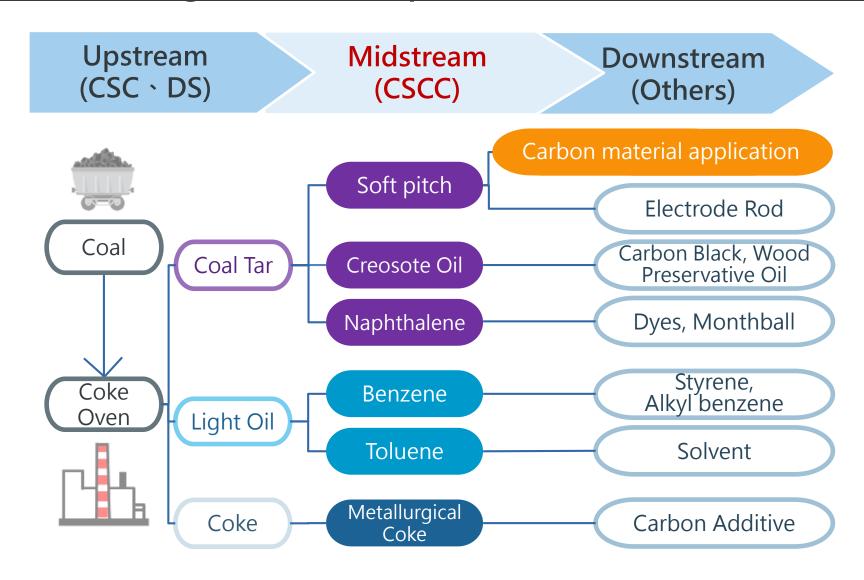


Major shareholder

Major shareholder	Percentages
China Steel Corporation	29.04%
International CSRC Investment Holdings Co., Ltd.	4.96%
Fubon Life Insurance Co., Ltd.	3.93%
Ever Wealthy International Corp.	2.01%
Chichengte Investment Co., Ltd.	1.46%
KGI Life Insurance Co., Ltd.	1.10%
Hsinyang Investment Co., Ltd.	1.01%
Vanguard Total International Stock Index Fund Investment Account	0.96%
Chang Gung Medical Foundation	0.93%
Mega International Commercial Bank Trust Account - CSCC	0.84%
As of : July 15, 2024	46.24%

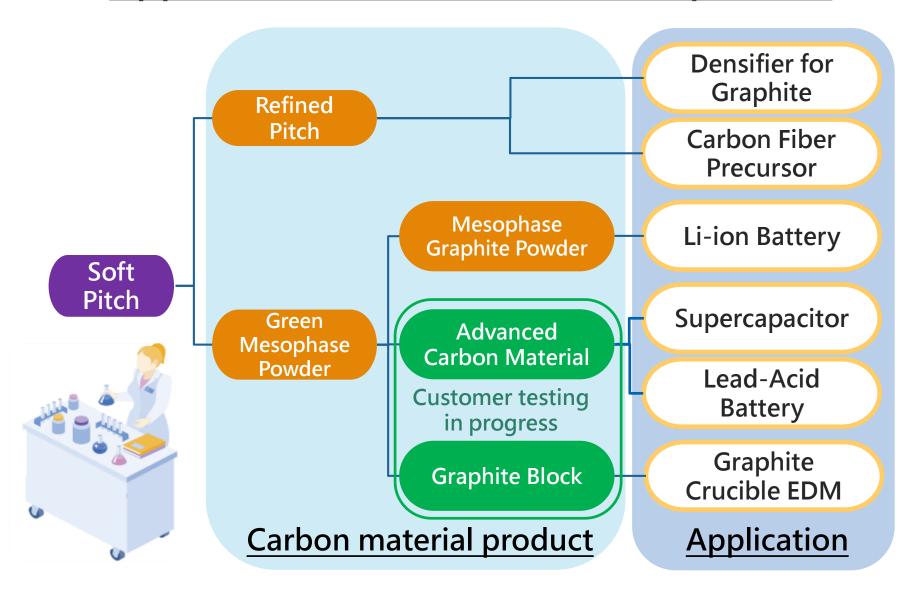


The Relating Product Map of Coal Chemical Industries





Applications of Carbon material product





Operating Performance





Raw material inputs

■ Coal Tar ■ Light Oil

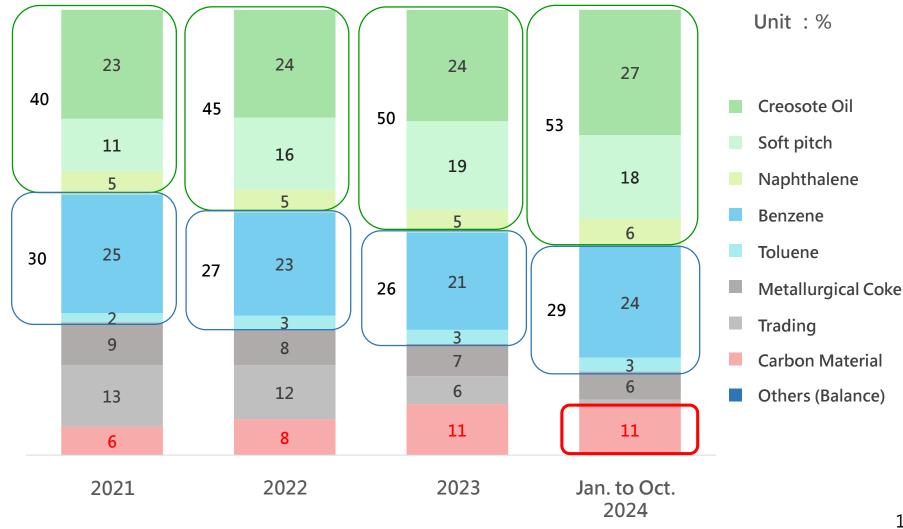
(Unit: ten thousand metric tons)







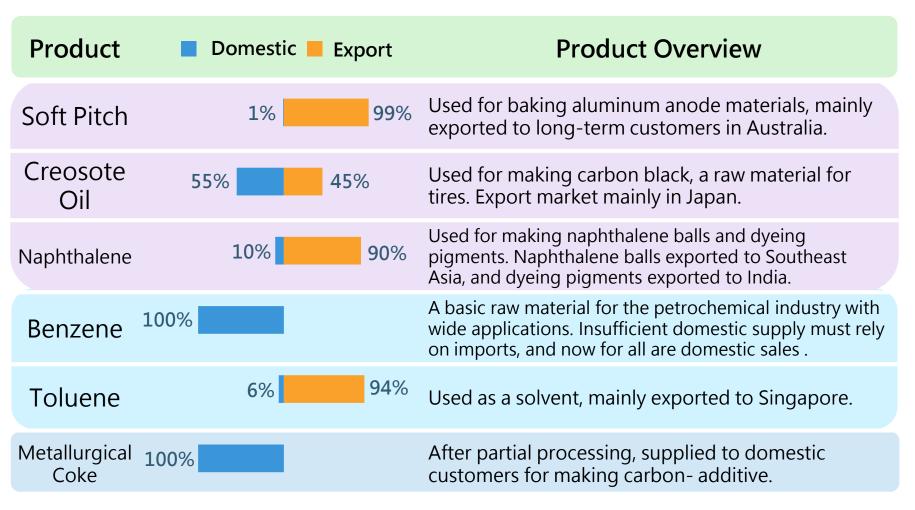
Revenue breakdown by Products in the past three years







Coal Chemical Products Sales



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





Carbon material product

Product	Domestic	Export	Product Overview
Mesophase Graphite Powder	22%	78%	Sold to battery cell factories for making Li-ion Battery, with exports primarily to China, Southeast Asia, and Japan.
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.
Refined Pitch		100%	Sold for use in steelmaking electrode rods for dipping processing, with exports primarily to China, Southeast Asia, and Japan.
Advanced Carbon Material			Mainly sales materials for supercapacitors, advanced lead-acid batteries, and lithium-ion capacitors, with markets including China, Japan, South Korea, and Taiwan.
Graphite Block	<		Mainly used for graphite components in silicon carbide semiconductors, metal casting, and hotpress glass molds, with a primary focus on domestic sales.

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



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

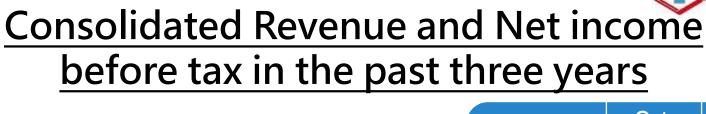


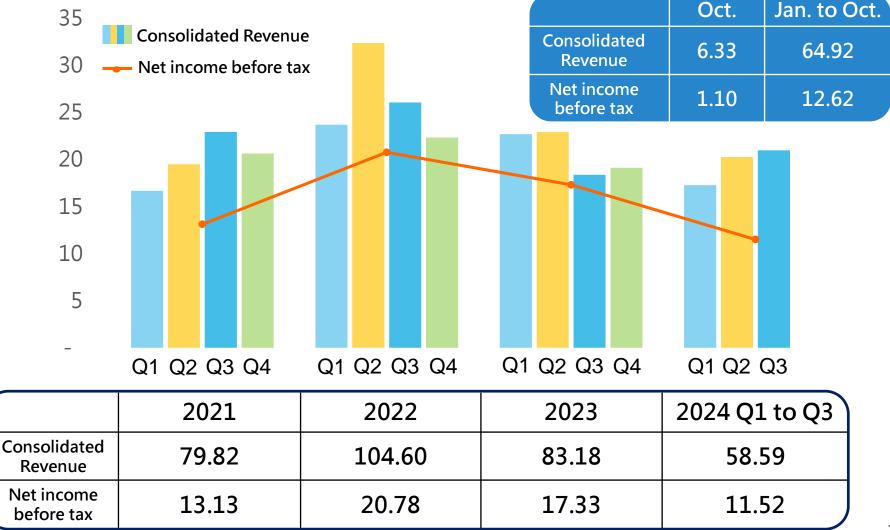
Carbon-Material



Green energy industry

Energy storage/electric batteries

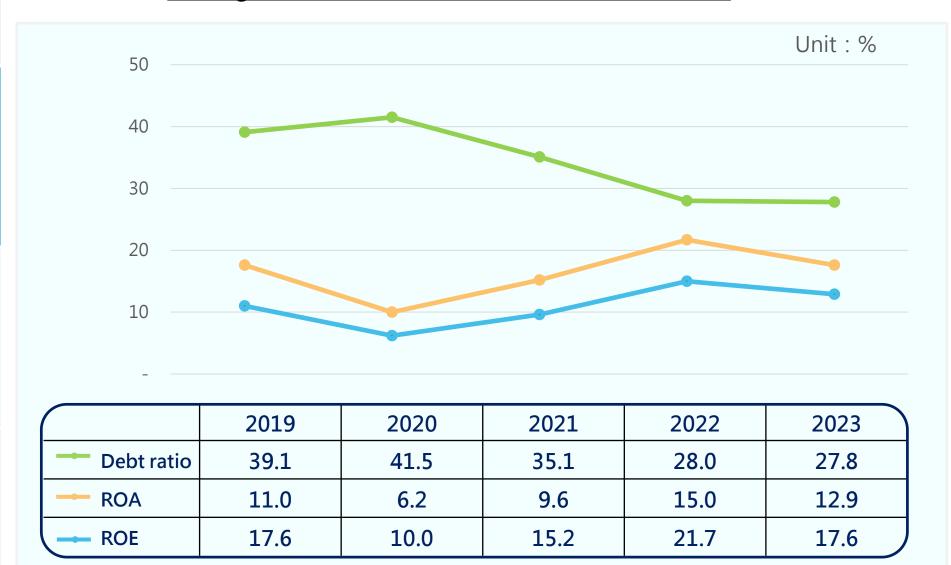






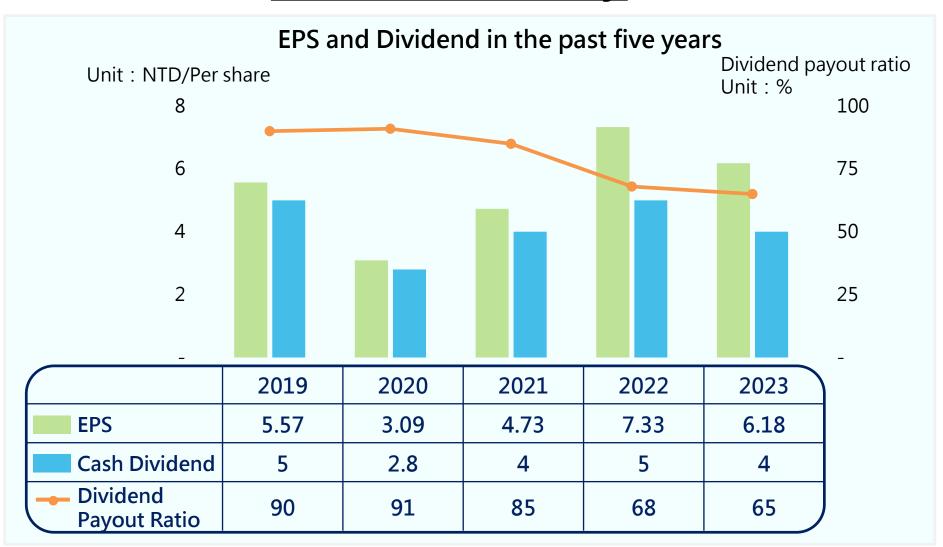


Major financial indicator





Dividend Policy

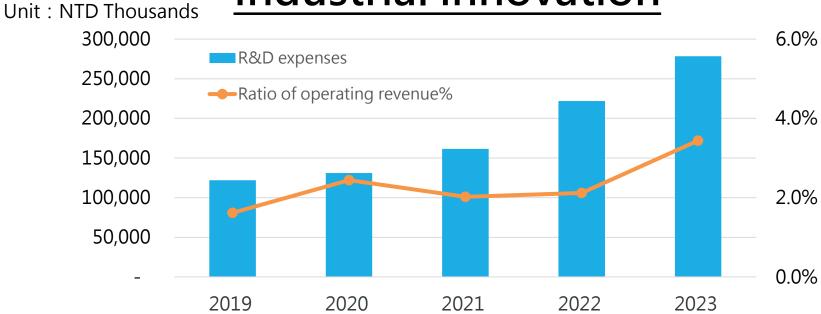


[✓] CSCC has been profitable for 30 consecutive years. The total amount of distributed dividends (including stock dividends) is above NT\$125.

R&D expenses and Industrial innovation







Industrial innovation subsidy projects in recent years	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	Signing





Sustainable Development





Corporate governance



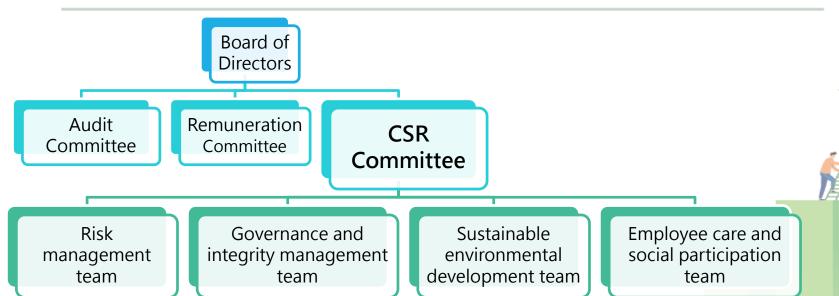
To establish Sustainable Development Committee.



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



CSCC was involved TWSE Corporate Governance 100 index(2022 and 2023). 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 75 carbon reduction projects since our baseline year of 2018, achieving a reduction of 12,110 tons of carbon emissions.

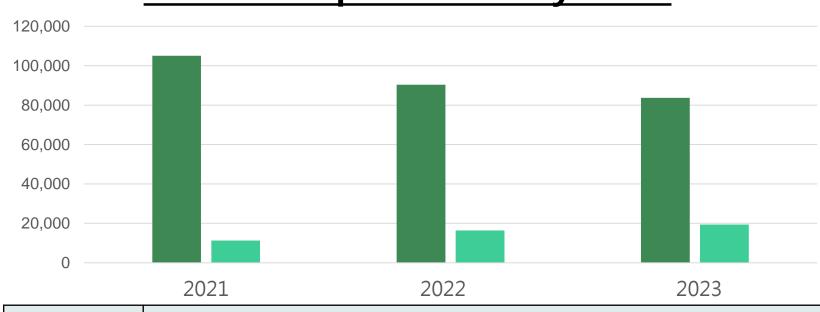
Medium -term • By leveraging innovative technologies, AI intelligence, and replacing absorption chillers, we aim to enhance energy efficiency and achieve a 33% carbon reduction target by 2030.

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

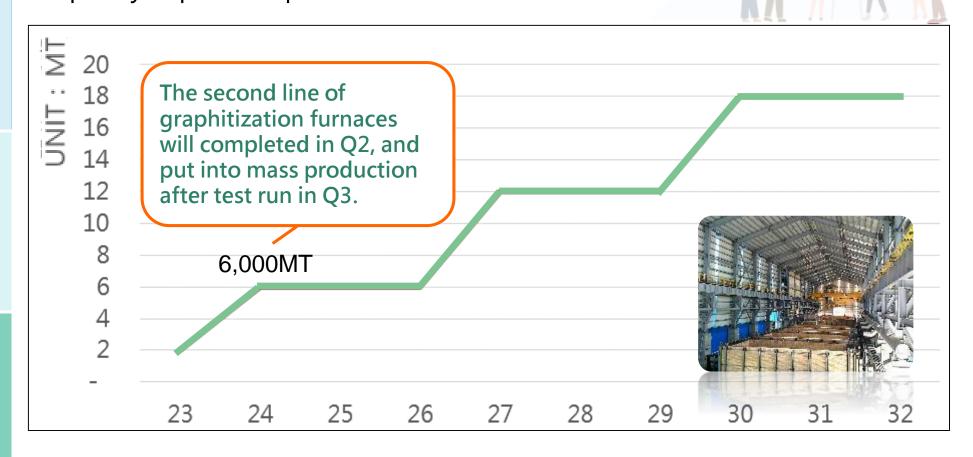
- Award for The 9th National Environmental Education Award of the Excellence Award
- Award for Affairs 113 Industrial Park Greening
 and Beautification-Second Place
- Pingtung Excellence Enterprise Award Investment Model Award
- Sports Administration, Ministry of Education -Sports Enterprise Certification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



Future Development

Carbonization Capacity Expansion

To meet the long-term demand for future anode materials, isotropic graphite, and graphite electrode rods, the following graphite production capacity expansion plan has been outlined:







Mesophase Graphite Powder Planning

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

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

Energy Density(Wh/Kg): Low

High

Power Density(W/Kg): Strong

Low

MG13

UF1 UF2

Racing car / HEV

MG11 MG10

PT / Drone

MG12 TAG11

EV / ESS

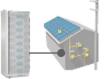
BS481

Tablets / 3C















Advanced Carbon (ACS) Product Development

Raw Materials

Activation

Cleaning/ Drying Surface Treatment

ACS



ACS annual production capacity is 90MT/year.

Features of ACS

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

Product application

Supercapacitor Leadacid Battery Lithium-Ion Capacitor





Applications of ACS

Supercapacitors

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

High-Power Discharge Applications

3.0V High-Voltage Supercapacitor





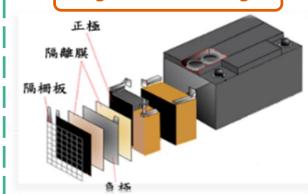
Rail Vehicles, Wind Power,
Automotive Industry, Smart
Grid

Advanced Lead-Acid Battery

 Advantages of Adding Advanced Carbon Powder to Lead-Acid Battery Anodes:

Enhanced Conductivity and Extended Lifespan

High-Rate Discharge



Automotive Start-Stop Battery, UPS Uninterruptible Power Supply System

<u>Lithium-Ion Capacitor</u>

✓ A Hybrid of Lithium-Ion Battery and Supercapacitor, with Characteristics In-Between Both

Capable of Balancing Size, Charge/Discharge Power, and Cycle Life Characteristics



Al Data Center Power
Backup System, Rail Vehicles





Graphite Block Development

High Purity High Density High Strength



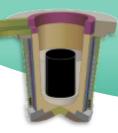
BCP

Mixing



CIP

Carbonization



Graphitization



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





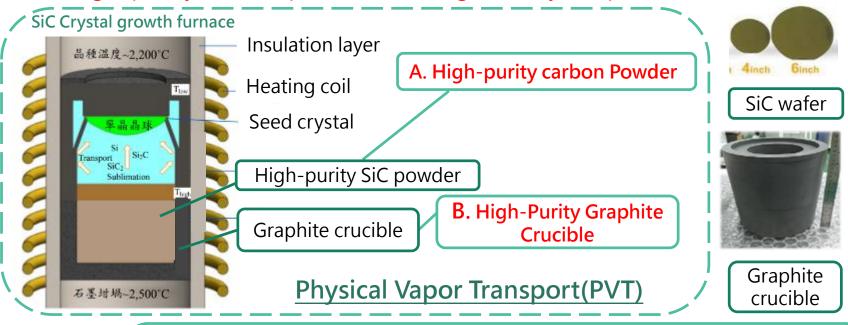




Application of SiC carbide crystal growth

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

A. High-purity carbon powder > B. High-Purity Graphite Crucible





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.



The Board Approved the Establishment of a Mass-Production Halogen Purification Furnace on 2024/10/31.





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

