

China Steel Chemical Corp.

June, 2022



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The Brief Introduction to CSCC

Chronology of Major Events

1. CSCC established in February 1989.
2. Plants completed during 1991~1993.
3. CSCC IPO listed in Taiwan in November, 1998
4. CSCC was awarded “Industrial Excellence Award “ and “National Outstanding SMES Award” in 2001.
5. CSCC achieved OHSAS 18001 certification in 2002.
6. CSCC achieved CNLA in 2002.
7. The Light Oil Distillation plant phase 2 completed in 2010.
8. CSCC achieved AEO in 2002.



The Brief Introduction to CSCC

Chronology of Major Events

9. Obtained the CNS15506 certification in April 2012.
10. Obtained ISO50001 certification in July 2013.
11. Obtained IATF 16949 certification in 2018.
12. The line of Green Mesophase Powder Plant reaching capacity to 7,500 MT/YR in 2019.
13. Mesophase Powder Plant go into operation in June 2019.
14. Received the Sustainable Elite Award issued by SGS, and 2019 Corporate Sustainability Award - Corporate Comprehensive Performance, and 2019 Taiwan Sustainable Enterprise Comprehensive Performance Award and Corporate Sustainability Report - Gold Award from TCSA in November 2019.
15. Received the Corporate Sustainability Report - Gold Award from TCSA in November 2020.



The Brief Introduction to CSCC

The Structure of Shareholder

unit : per thousand stocks

Major shareholder	Percentages
China Steel Corp.	29.04%
Fubon Life Insurance Co., Ltd.	5.31%
International CSRC Investment Holdings Co., Ltd.	4.96%
Ever Wealthy International Corp.	2.01%
Cathay Life Insurance Co., Ltd.	1.49%

As of : Apr. , 2022



The Brief Introduction to CSCC

Table of academic degree in CSCC's employees

Academic Degree	No.	Percentages
Ph.D.	8	3%
Master's Degree	82	26%
Bachelor's Degree	151	49%
Junior College and Senior High School	70	22%
Total	311	100%

As of : June., 2022



The Brief Introduction to CSCC

Unit : ten thousand metric tons

	2018	2019	2021	2022 May
Coal Tar	25.5	26.0	25.2	10.0
Light Oil	12.4	11.6	10.9	4.6



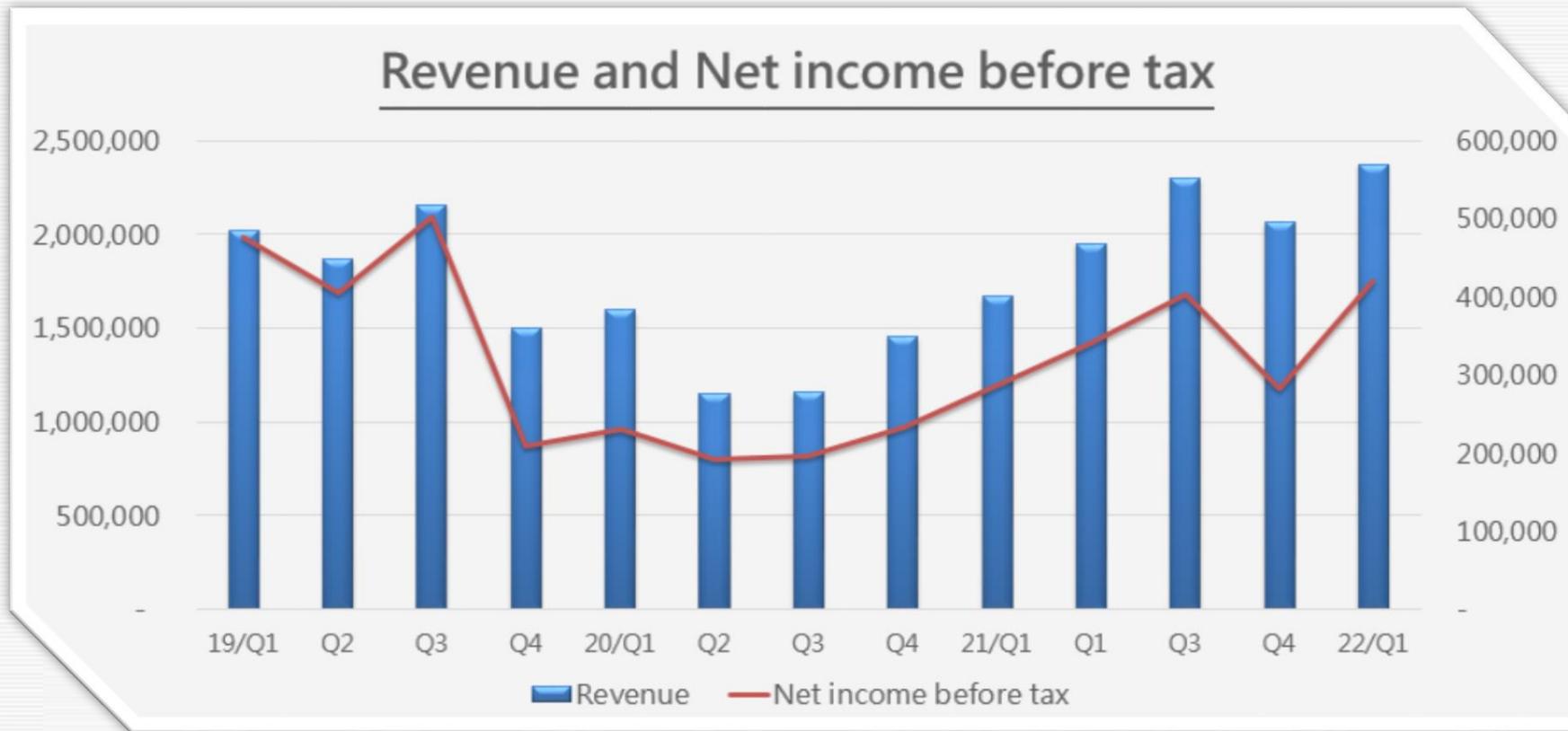
Sales Revenue breakdown by products

	2019	2020	2021	2022 May
Light Oil	29%	28%	30%	27%
Benzene	24%	24%	26%	23%
Coal Tar	47%	47%	41%	43%
Creosote Oils	26%	26%	24%	24%
Soft Pitch	12%	13%	11%	13%
Naphthalene	7%	7%	5%	4%
Carbon Material	5%	4%	6%	7%
Coke Breeze	8%	11%	10%	8%
Trading	11%	10%	13%	15%



The Brief Introduction to CSCC

Unit: NT\$ thousands



	2021.1~12	2022.1~5	2022.4	2022.5
Revenue	7,982,441	4,548,024	1,258,776	916,336
Net income before tax	1,313,173	831,710	278,355	132,555

Dividend Payout

	2017	2018	2019	2020	2021
EPS	5.0	6.5	5.57	3.09	4.73
Cash Div.	4.6	5.3	5.0	2.8	4.0*
Stock Div.	0	0	0	0	0

*The appropriations of earnings for 2021 are subject to the resolution in the shareholders' meeting to be held in June 2022.



Governance-ESG executive summary

Environment

To construct ISO-14001 energy management system and establish ISO-14064 Emissions Inventories and Verification.

To commence the introduction of the Task Force on Climate-related Financial Disclosures (TCFD), disclose guide for financial information.

Social

To take care the community and join the donation to social care activities, visit neighborhoods and villages nearby the Company from time to time and sponsors community activities to achieve healthy interactions with community residents.

Governance

To establish Corporate Governance and Sustainability Committee for the corporate social responsibility and sustainable operations.

Organizational structure of energy-saving and carbon emission reduction

To achieve short - term , medium term and long - term goals of ESG.

To disclosure of progress report about sustainable development for 2021.

To commence the introduction of the Task Force on Climate-related Financial Disclosures (TCFD).

Achievement of sustainable development through governance

Governance

To commence the introduction of the Task Force on Climate-related Financial Disclosures (TCFD).

Strategies

To form the cross-functional communication and evaluate the risks and opportunities of the climate.

Risk management

To hold the TCFD meeting to sort the risks and opportunities of the climate.

Goals

To set short - term , medium term and long - term goals of resource management.

Governance-medium term and long - term goals of ESG

Environment

To implement long-term plan of energy-saving and carbon emission.

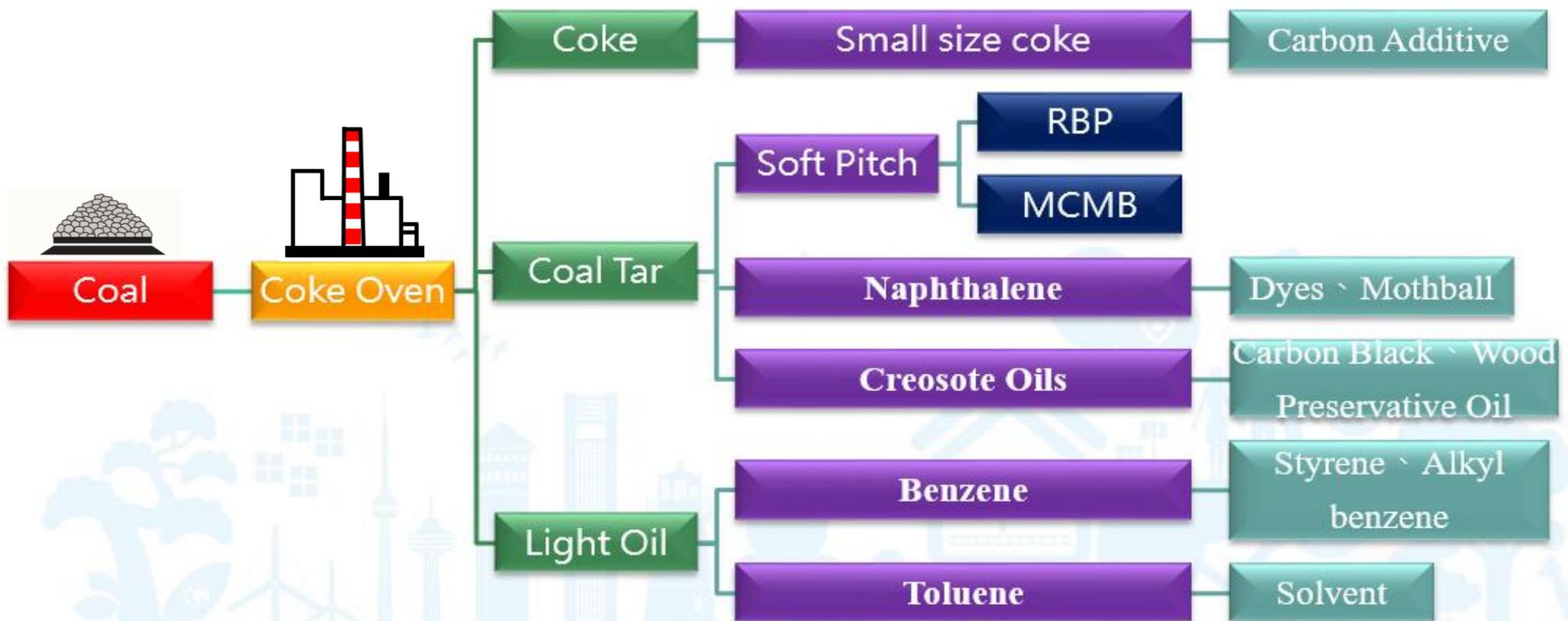
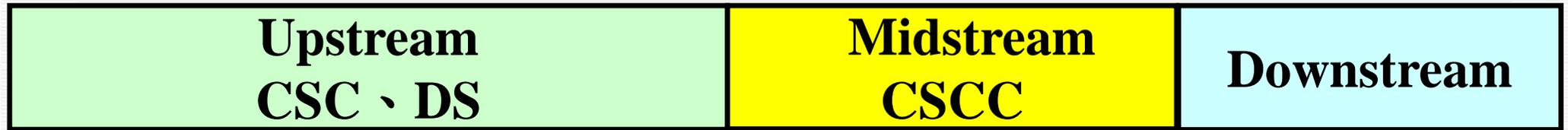
Social

To promotes green life, tree planting, beach cleaning, mountain climbing, green life lectures.

Governance

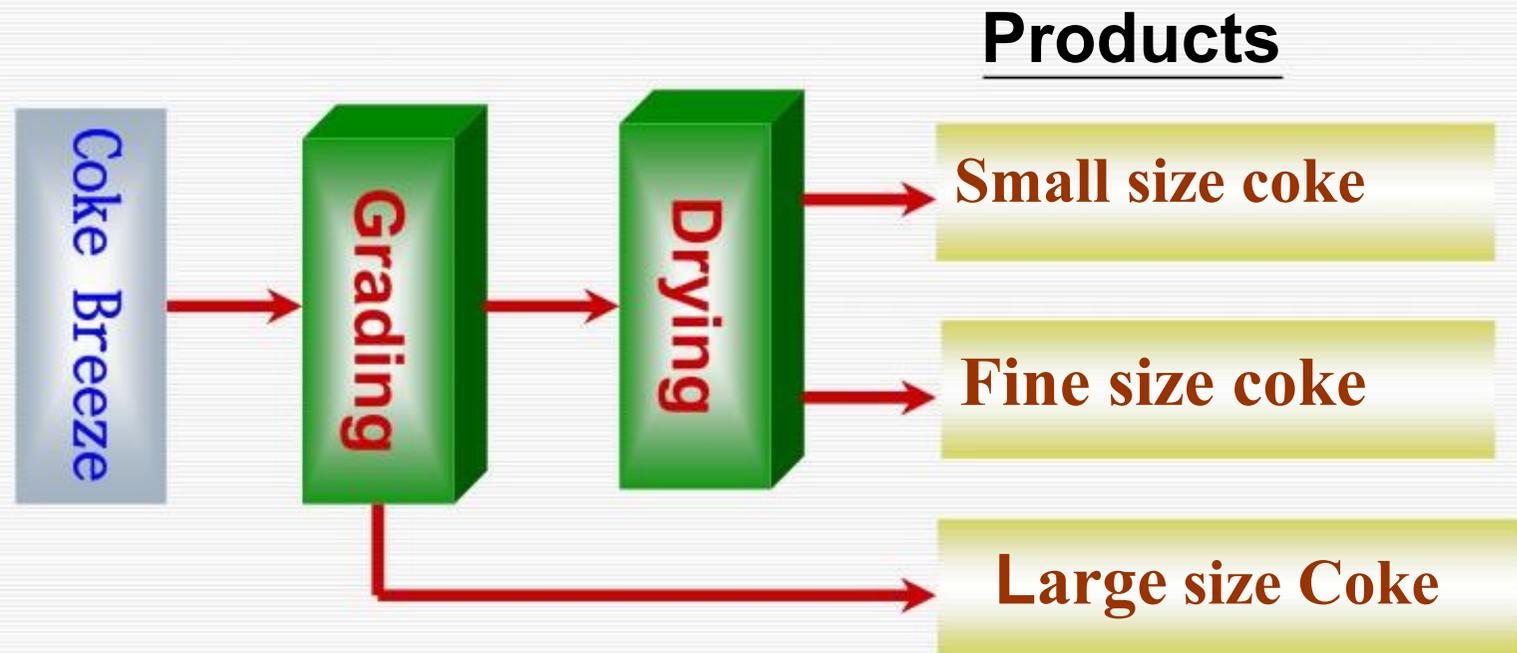
To engage external expert to evaluate Directors' performance.

The Relating Product Map of Coal Chemical Industries



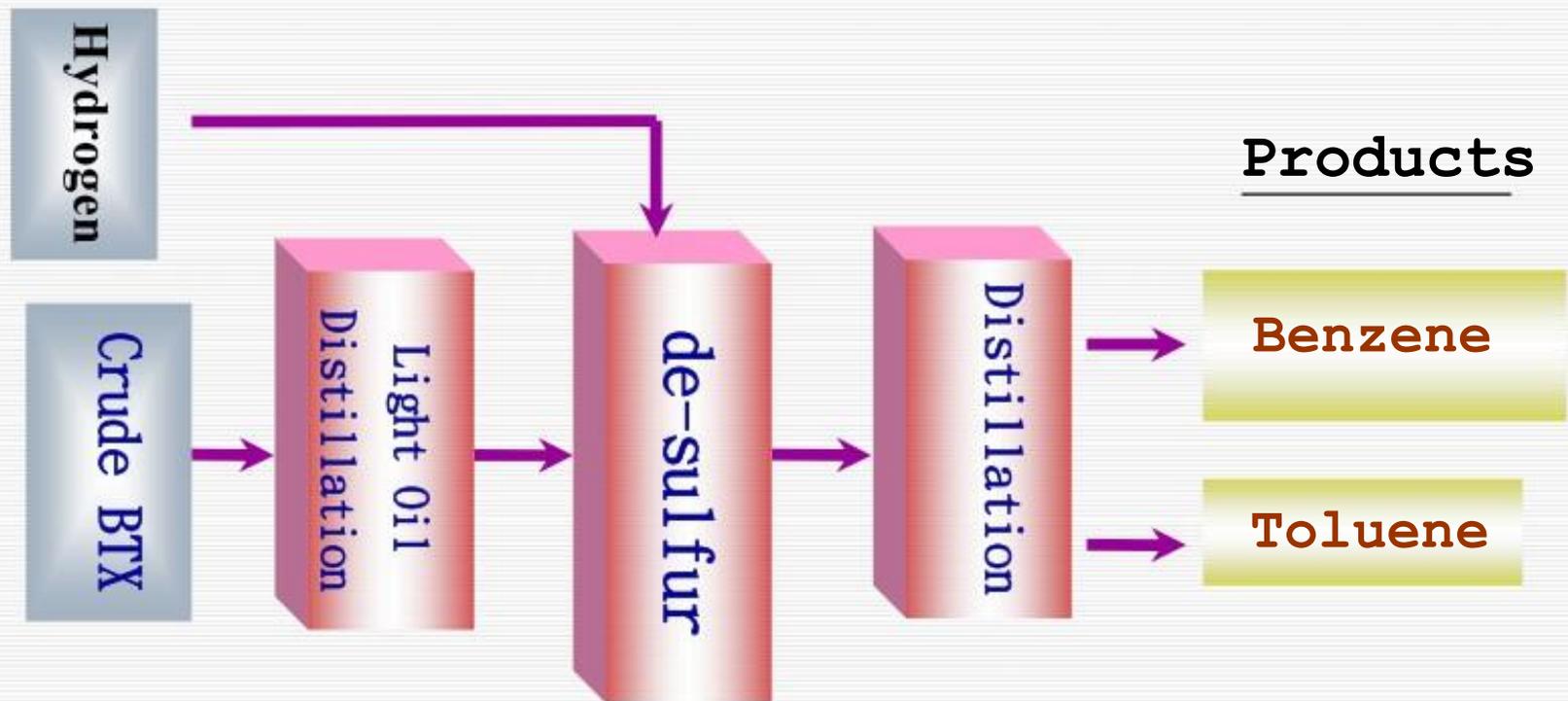
The Relating Product Map of Coal Chemical Industries

The Process of the Coke Breeze Plant



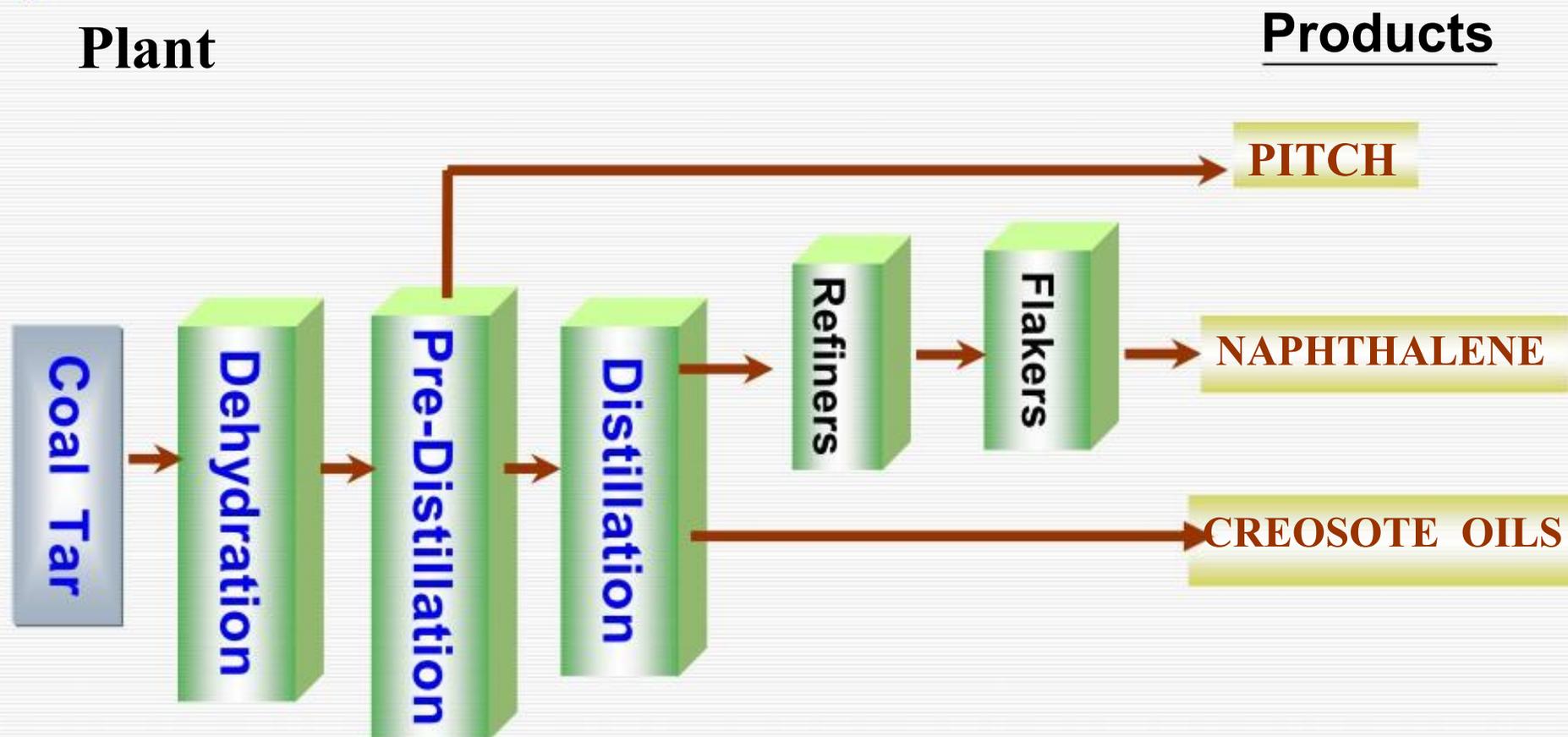
The Relating Product Map of Coal Chemical Industries

The Process of the Light Oil Distillation Plant



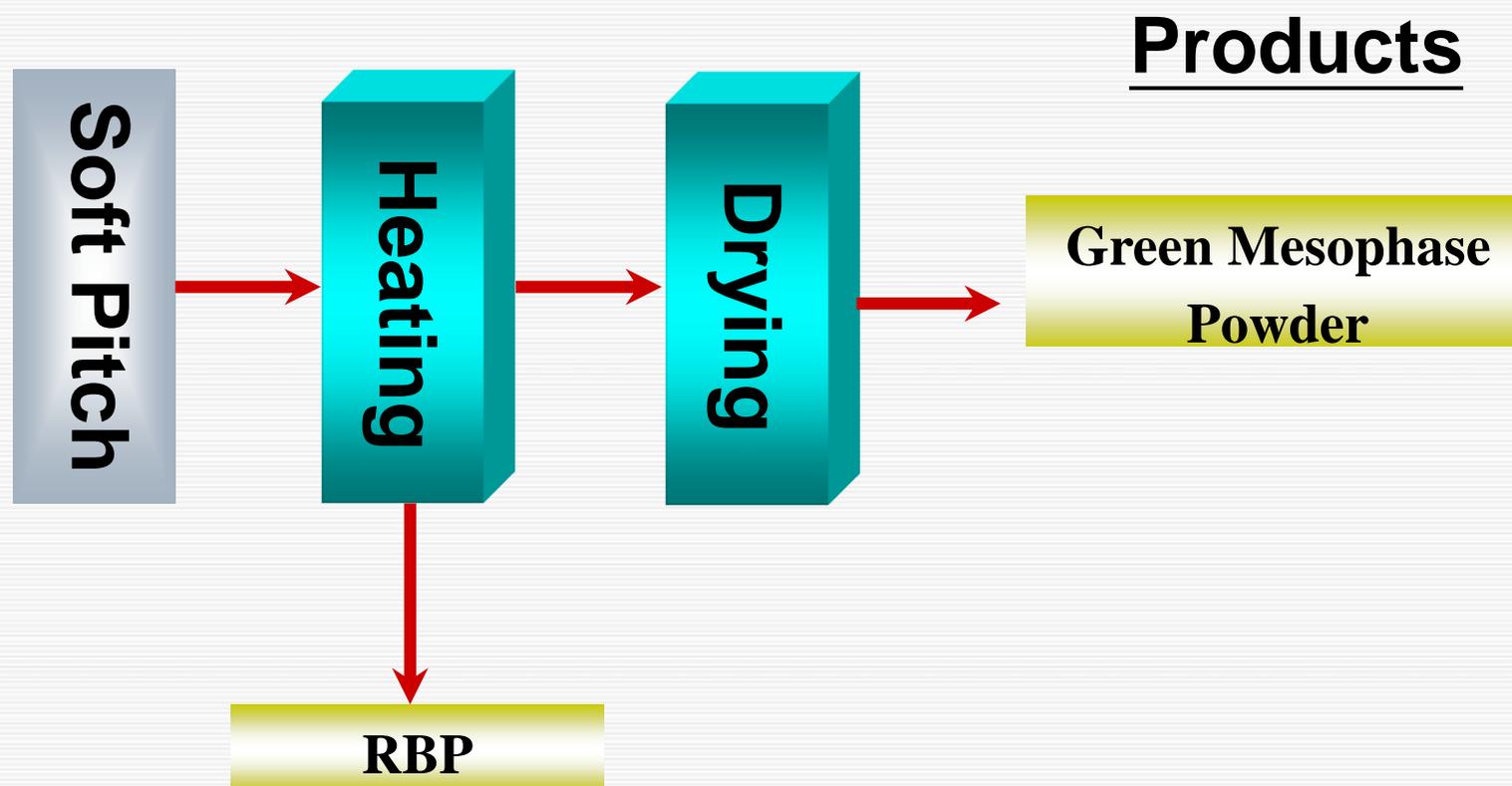
The Relating Product Map of Coal Chemical Industries

The Process of the Coal Tar Distillation Plant

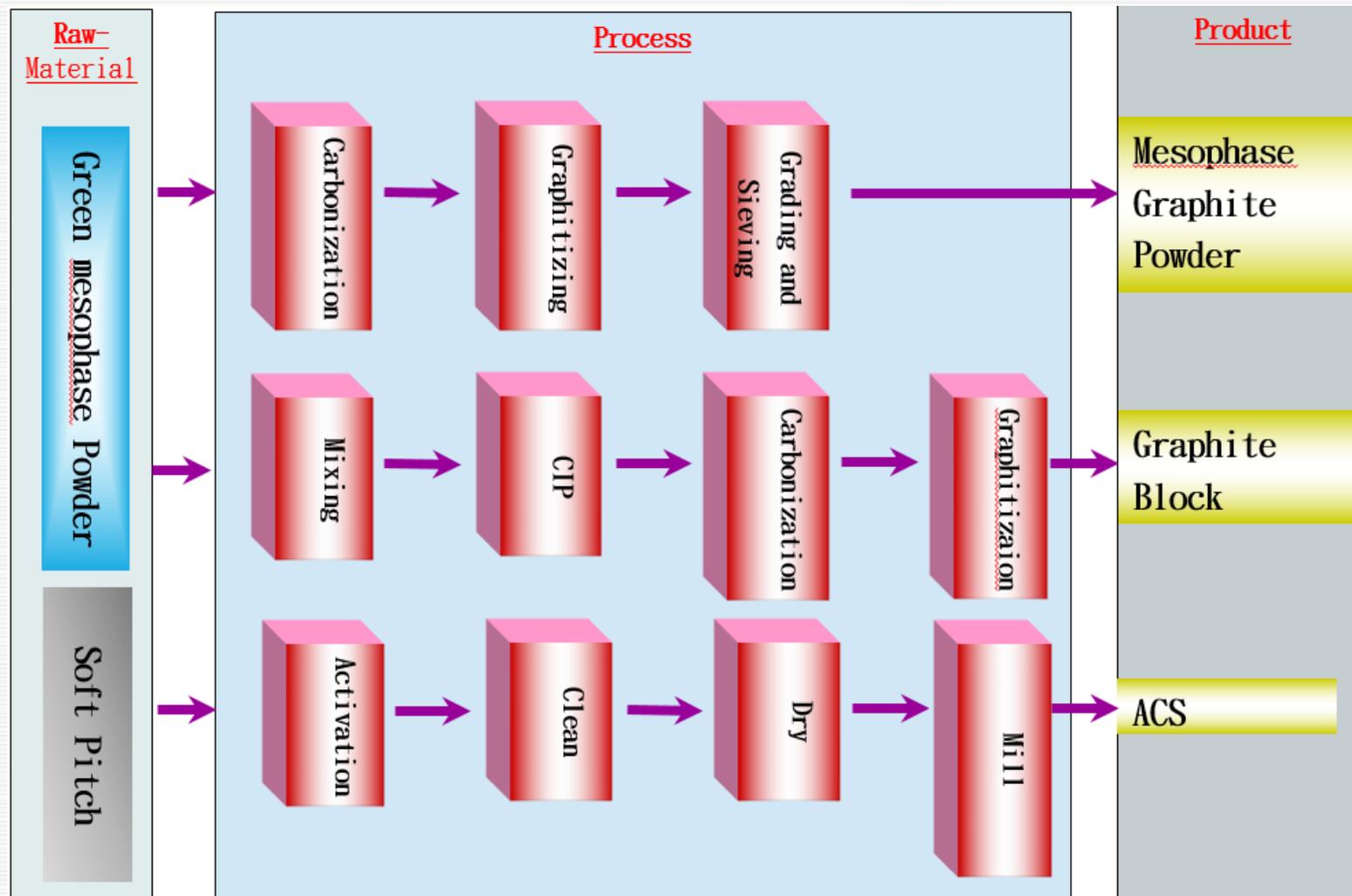


The Relating Product Map of Coal Chemical Industries

✚ The Process of the Green Mesophase Powder plant



The Relating Product Map of Carbon Material Industries



The Appliance of Benzene

Benzene

Styrene

External shell for 3C's product and sport materials



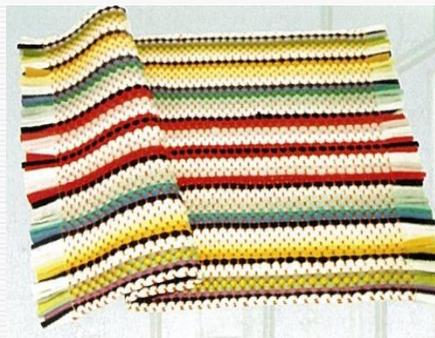
Phenol

Epoxy resin paint



Caprolactam

Nylon 6



Alkyl-benzene

detergents



The Appliance of Creosote oils

Creosote oils

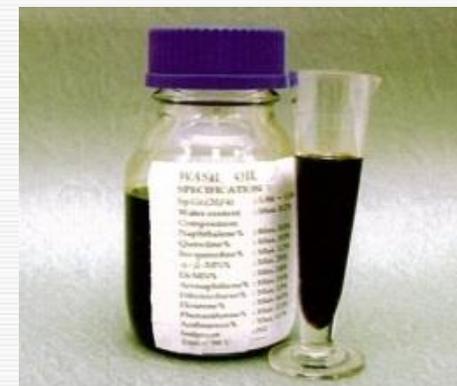
**Carbon
black**



Wood preservative oil



Wash oil



The Appliance of Naphthalene

Naphthalene

B-naphthol,
Tobias acid, J-
acid

Dyestuffs pigment



Mothballs



The Appliance of Soft Pitch

Soft Pitch

Primary
electrode rod



Water and rust
proofing materials



RBP

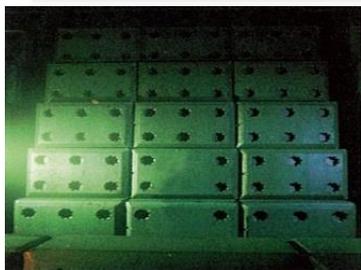
Green Mesophase
Powder

Applications of
Carbon material
product

Roofing Pitch



Electrode binder



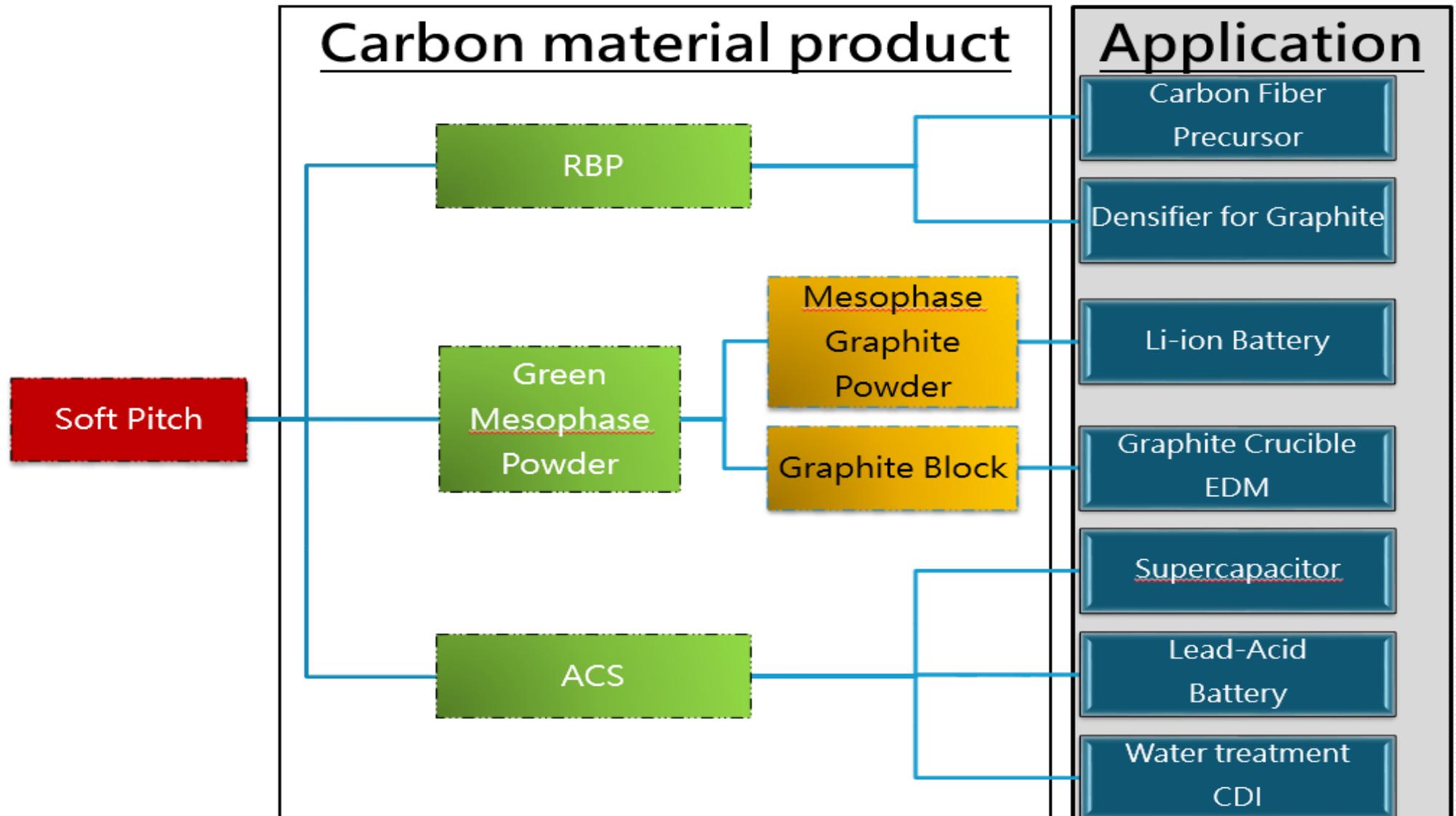
Carbon Fiber
Precursor



Densifier for
Graphite



Applications of Carbon material product

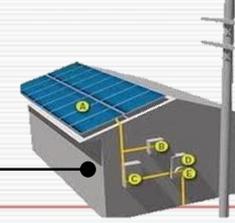
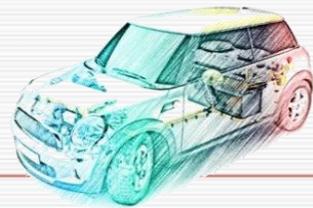
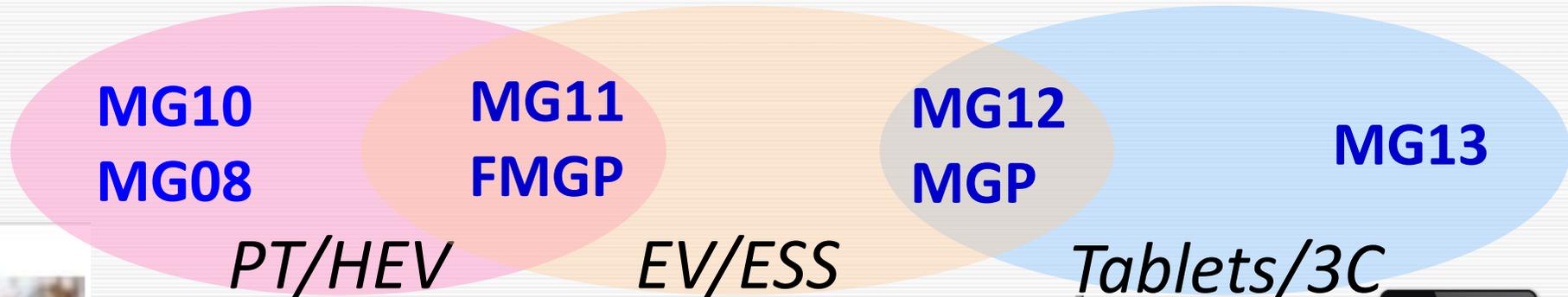


CSCC's Meso-Graphite

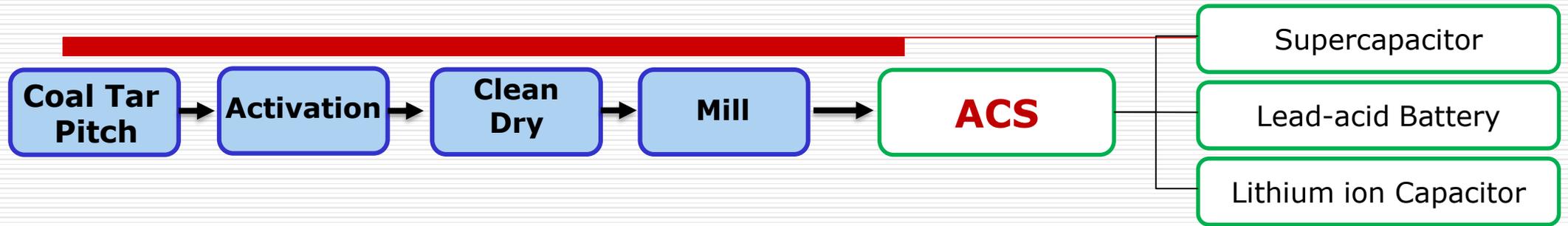
- Application: High Energy & Power density in LIB
- Feature: High first columbic efficiency, high energy density, high discharge capability and long cycle life.

Energy Density(Wh/Kg): Low  High

Power Density(W/Kg): Strong  Low



Advanced Carbon for Supercapacitors (ACS)



Features of ACS

- ✓ High Surface Area
- ✓ High Capacitance
- ✓ High Quality

- ACS annual production capacity is 45MT/year, and the second production line is planned to increase total annual production capacity to 90MT/year ◦

Applications of Supercapacitors

Light Rail Transit



Wind turbine

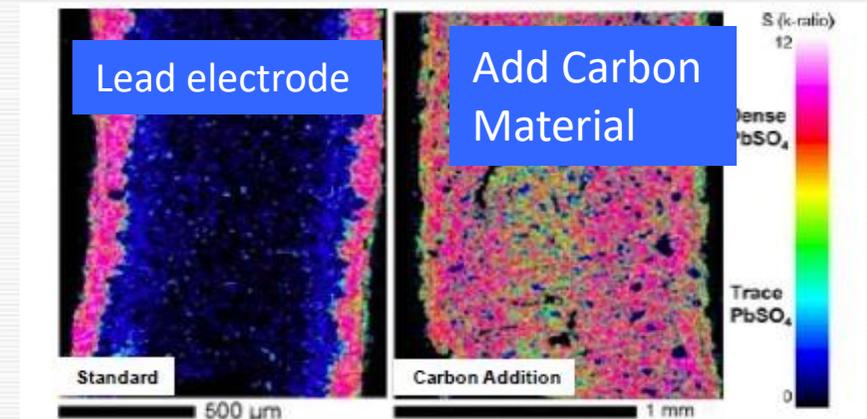
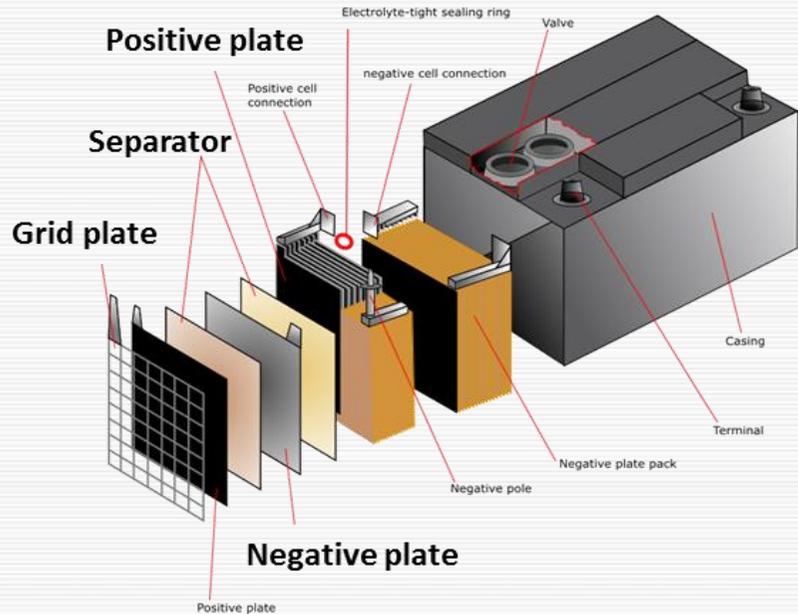


Introduction of Advanced Lead-Acid Battery

Advantages of addition activated carbon into LAB

1. Increasing conductivity
2. Improving the uniformity of Pb/PbSO₄
3. Capacitance effect
4. Low amount of maintenance
5. Extending the life of LAB

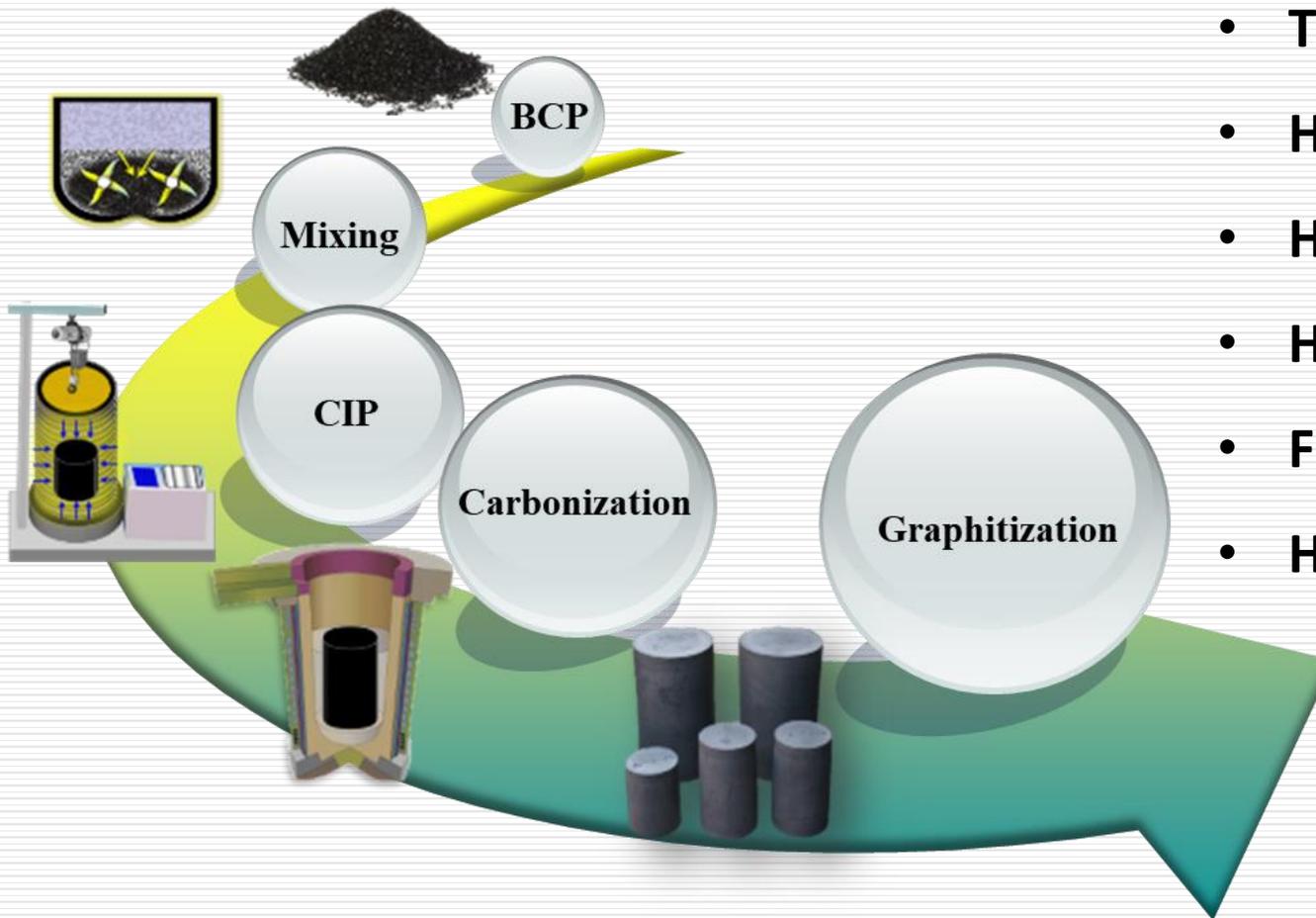
Structure of Lead-Acid Battery



Elimination of hard sulfation by carbon additions, allowing more complete usage of the battery (both images are from cells at end of life). Fernandez et al., 2010.



Graphite Block



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

Graphite Block Application

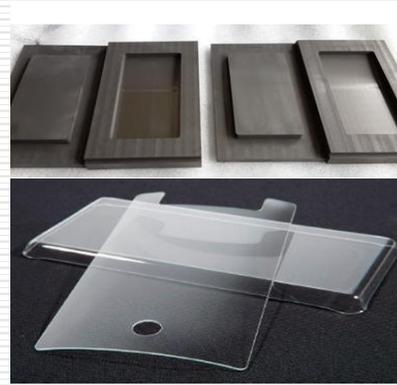


Continuous Casting



EDM

Graphite Block for large Size (>30cm) EDM continuously study high-end product.



3D Glass Mold

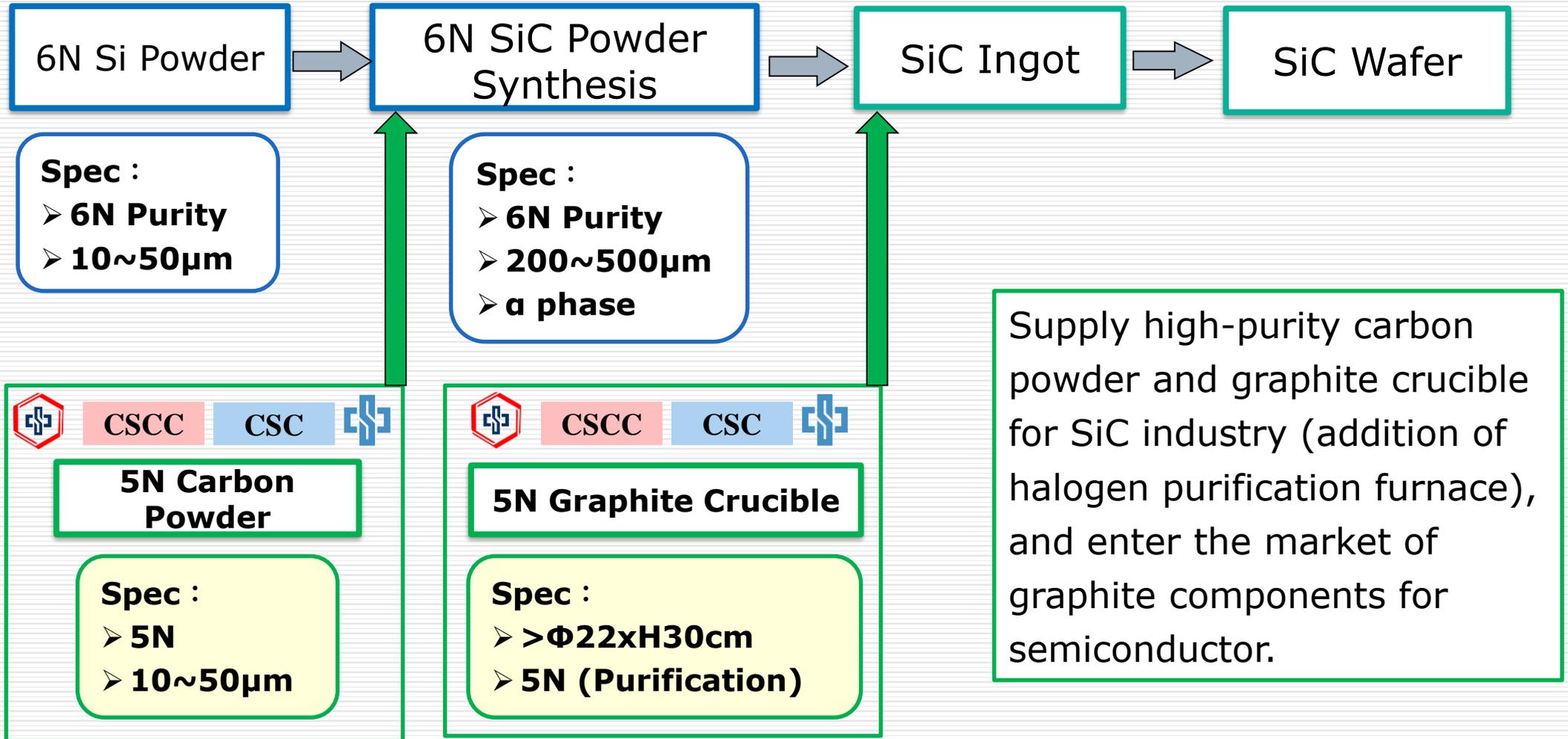
Being verified by customers.



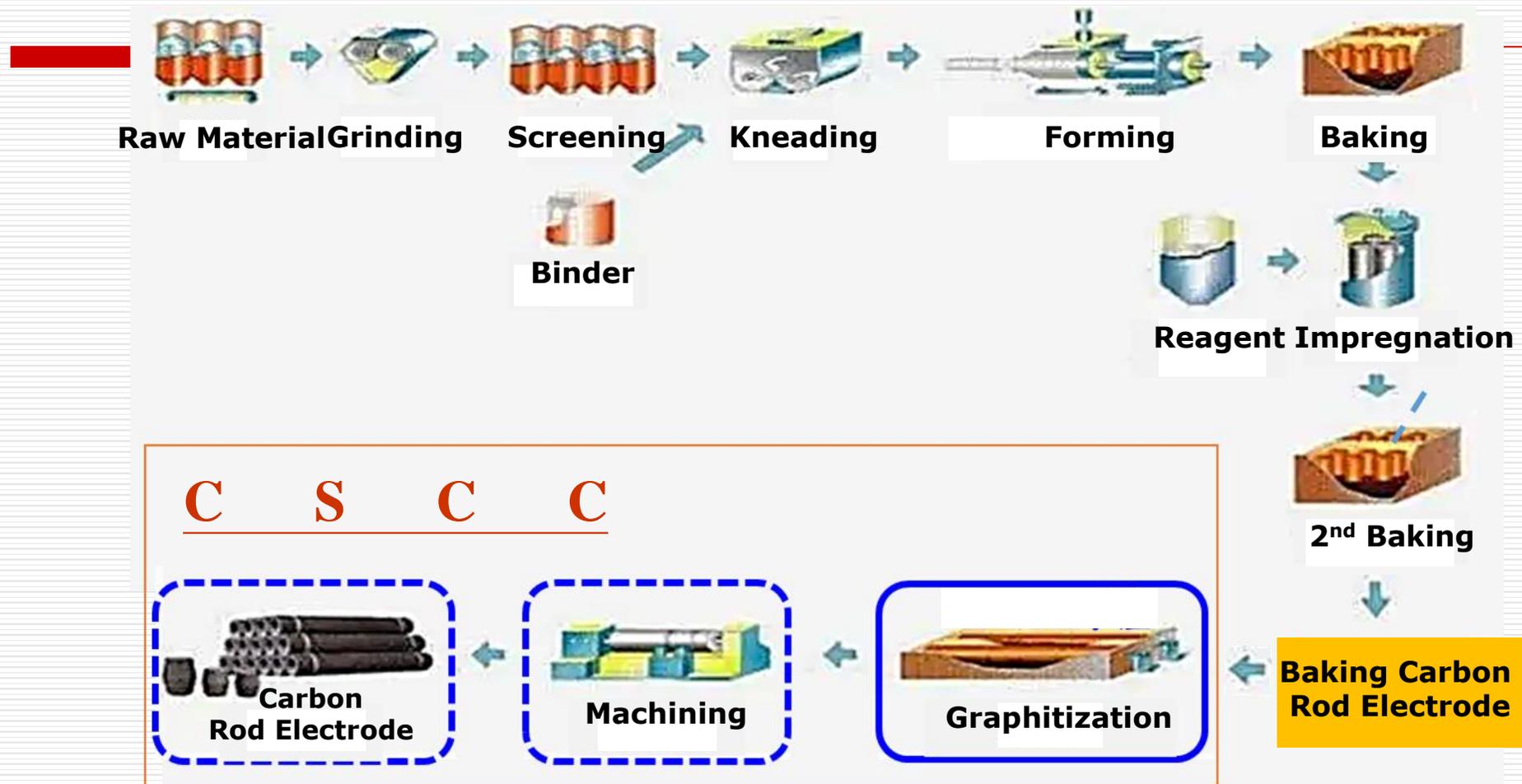
Crucibles

Graphite crucible for SiC industry are being verified by customers.

Carbon Material for Compound Semiconductor (SiC)



Graphite Rod Electrode Manufacturing Flow



- Introduce roasted carbon rods for graphitization and machining for home market.



Q&A

