



# CHINA STEEL CHEMICAL CORPORATION (1723) Investor Conference

June 2023

# Safe Harbor statement

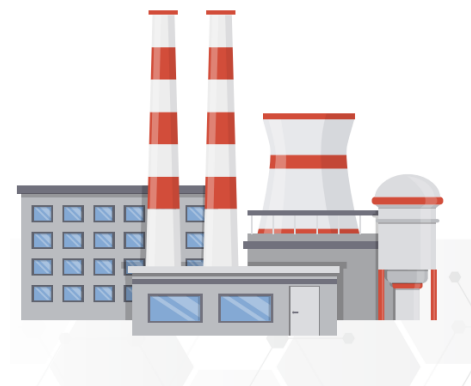
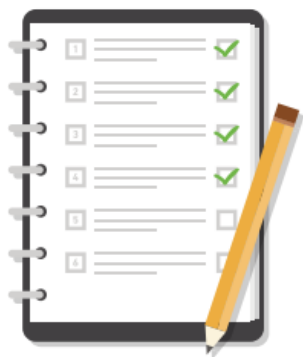
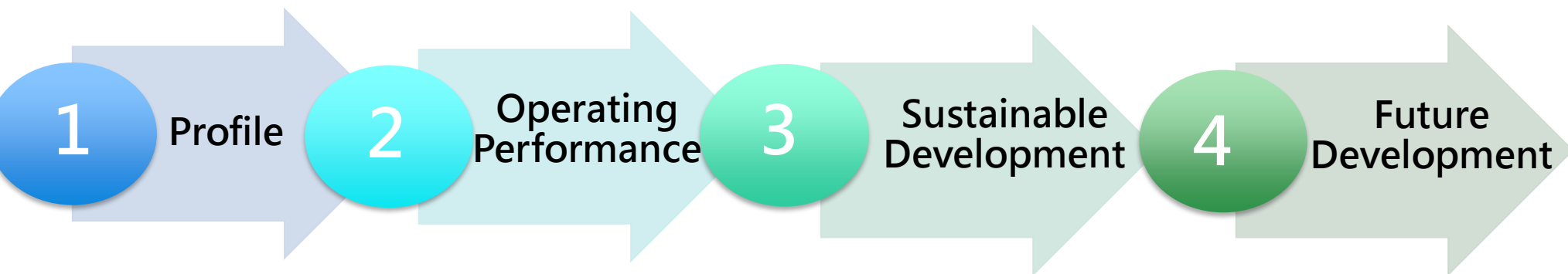
- This presentation may contains forward-looking statements. All statements other than historical and current fact, without limitation, including business outlook, predictions, estimates, are forward-looking statements.
- Such statements are based upon management's current beliefs and expectations and are subject to various risks, uncertainties and other factors that could cause actual outcomes and results to differ materially.
- We caution readers not to place undue reliance on forward-looking statements as these statements speak only as of the date they are made, and we disclaim any obligation to, update or alter any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law or regulation.
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# Recap of Recent Major Events

- CSCC Board of directors approved the setup of the halogen purification furnace to facilitate development of highly pure carbon materials.(2021/08/03) ,estimated completion date is second quarter 2023.
- CSCC Board of directors approved the investment in a second line of graphitization furnaces at the Pingnan Carbon Materials Plant.(2022/05/05),estimated completion date is second quarter 2024.
- CSCC Board of directors approved to cancel joint venture collaboration agreement with Formosa Ha Tinh Steel Corporation (FHS).(2022/12/28)



# Agenda



# 1、Profile



# Basic information

<b>Company name</b>	<b>China Steel Chemical Corporation</b>
<b>Inception</b>	<b>February 3, 1989</b>
<b>Company Address</b>	<b>25F, No. 88, Chenggong 2nd Road, Qianzhen District, Kaohsiung City, 806</b>
<b>Capital</b>	<b>NT\$2,369,044,800</b>
<b>Listed Date</b>	<b>November 27, 1998 ( Stock symbol : 1723 )</b>
<b>Number of Employees</b>	<b>318 ( PhD-10 、 Master-90 ; Male-87% 、 Female-13% )</b>

- the only coal chemical company with Graphitization Furnace in Taiwan



## The structure of shareholder

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%
Chi Cheng Teh Invstment Co., Ltd.	1.46%

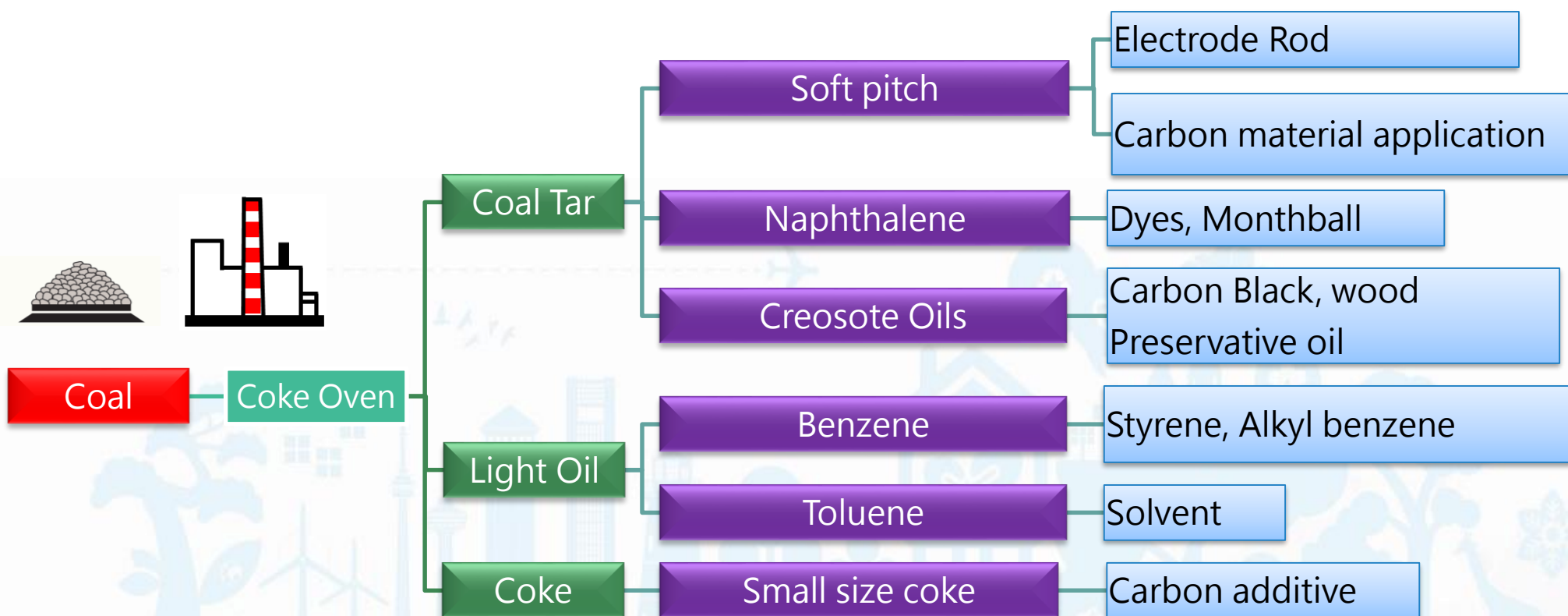
As of : April 15,2023

# The Relating Product Map of Coal Chemical Industries

Upstream  
( CSC · DS )

Midstream  
( CSCC )

Downstream

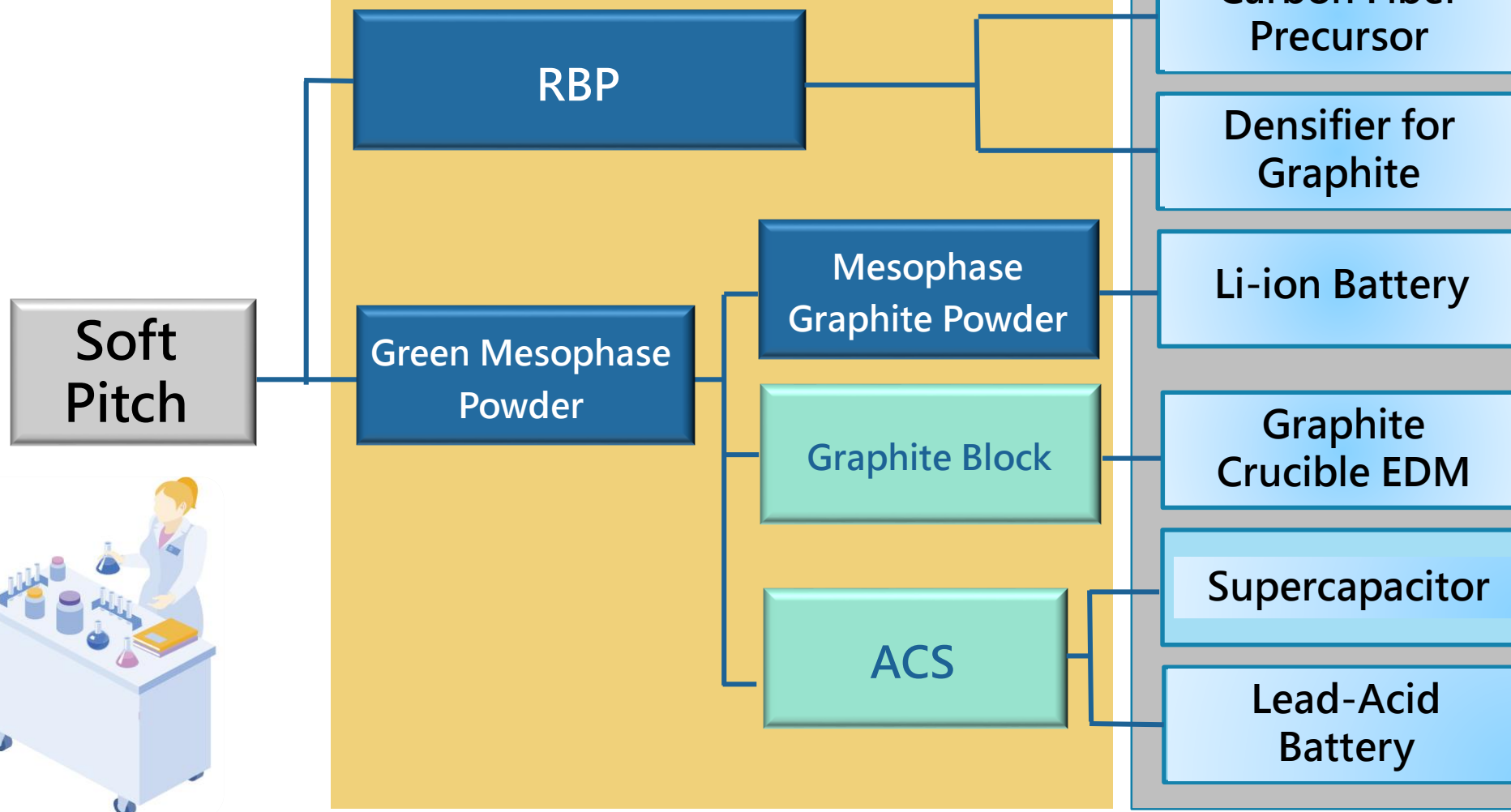




# Applications of Carbon material product

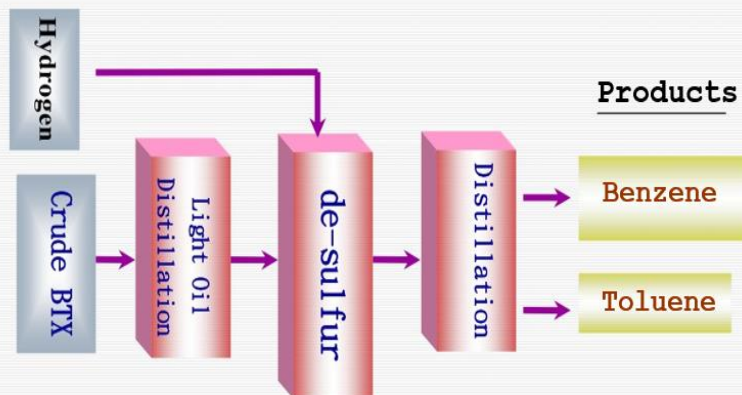
## Carbon material product

## Application

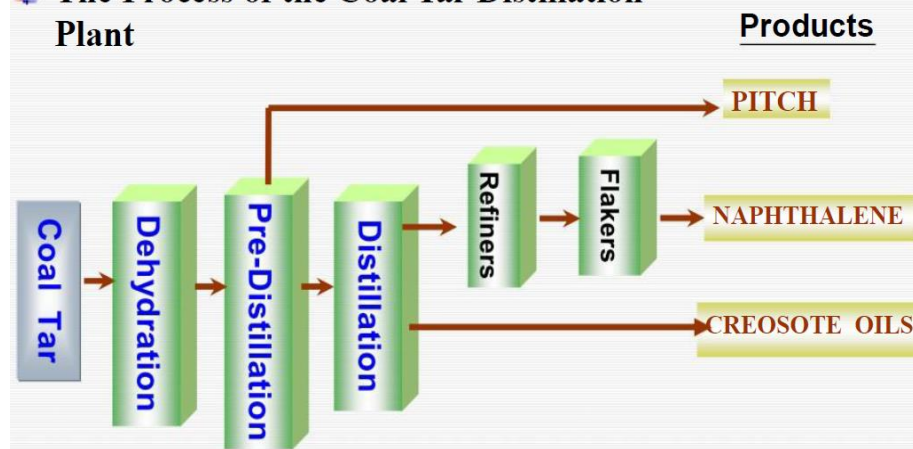


# The Relating Product Map of Coal Chemical Industries

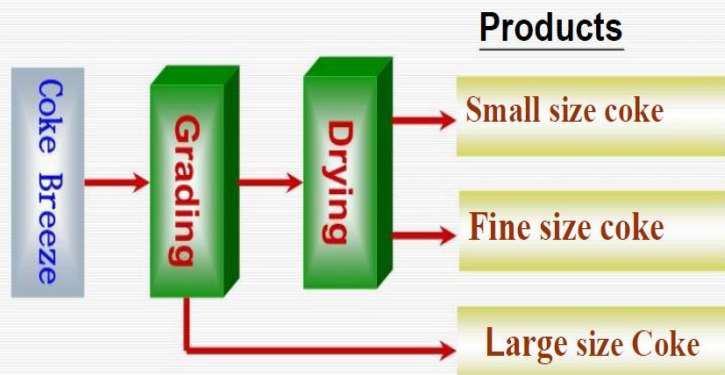
The Process of the Light Oil Distillation Plant



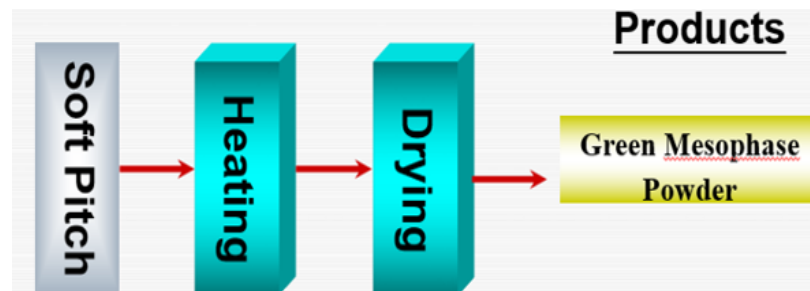
The Process of the Coal Tar Distillation Plant



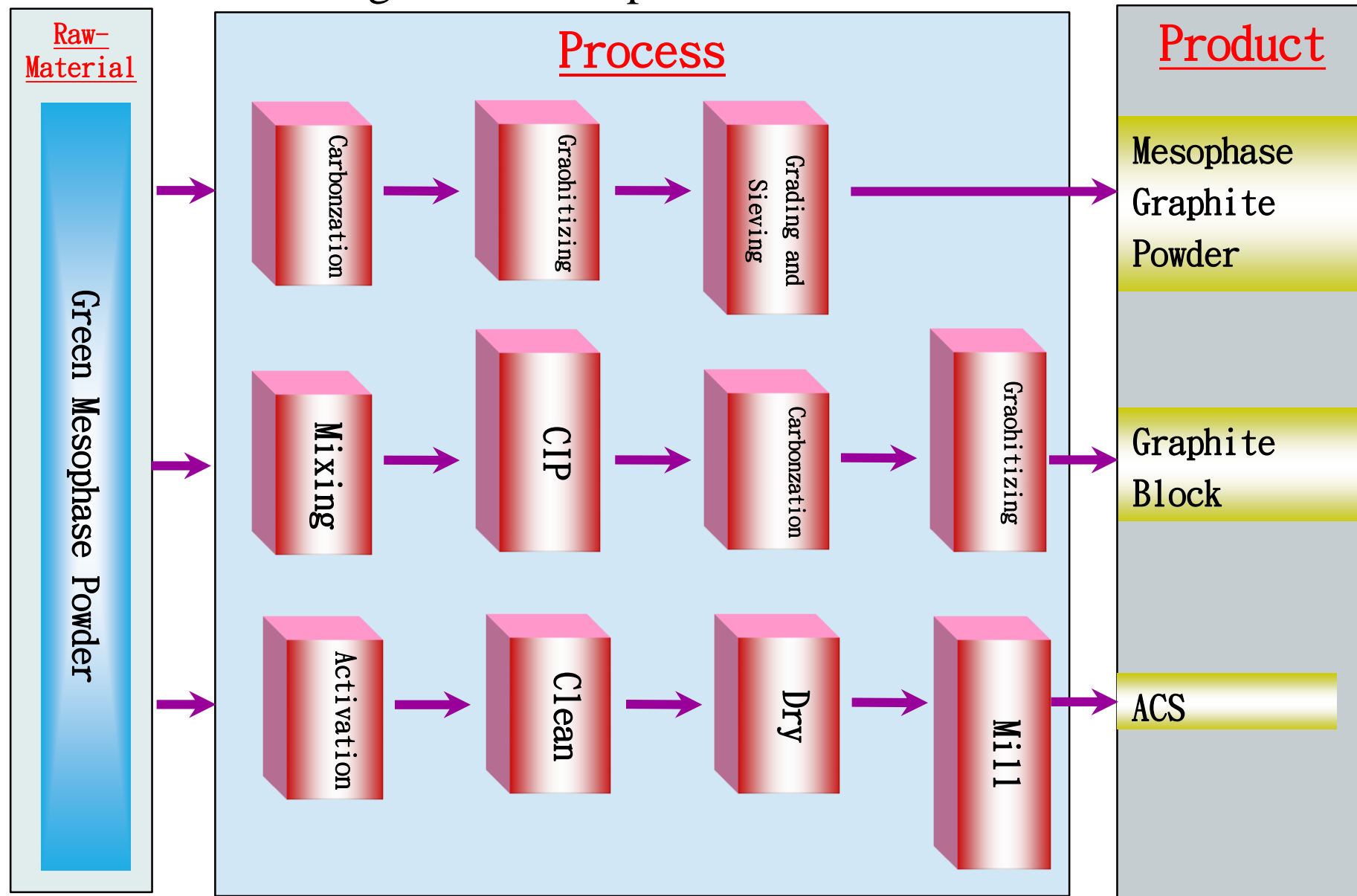
The Process of the Coke Breeze Plant



The Process of the Green Mesophase Powder plant



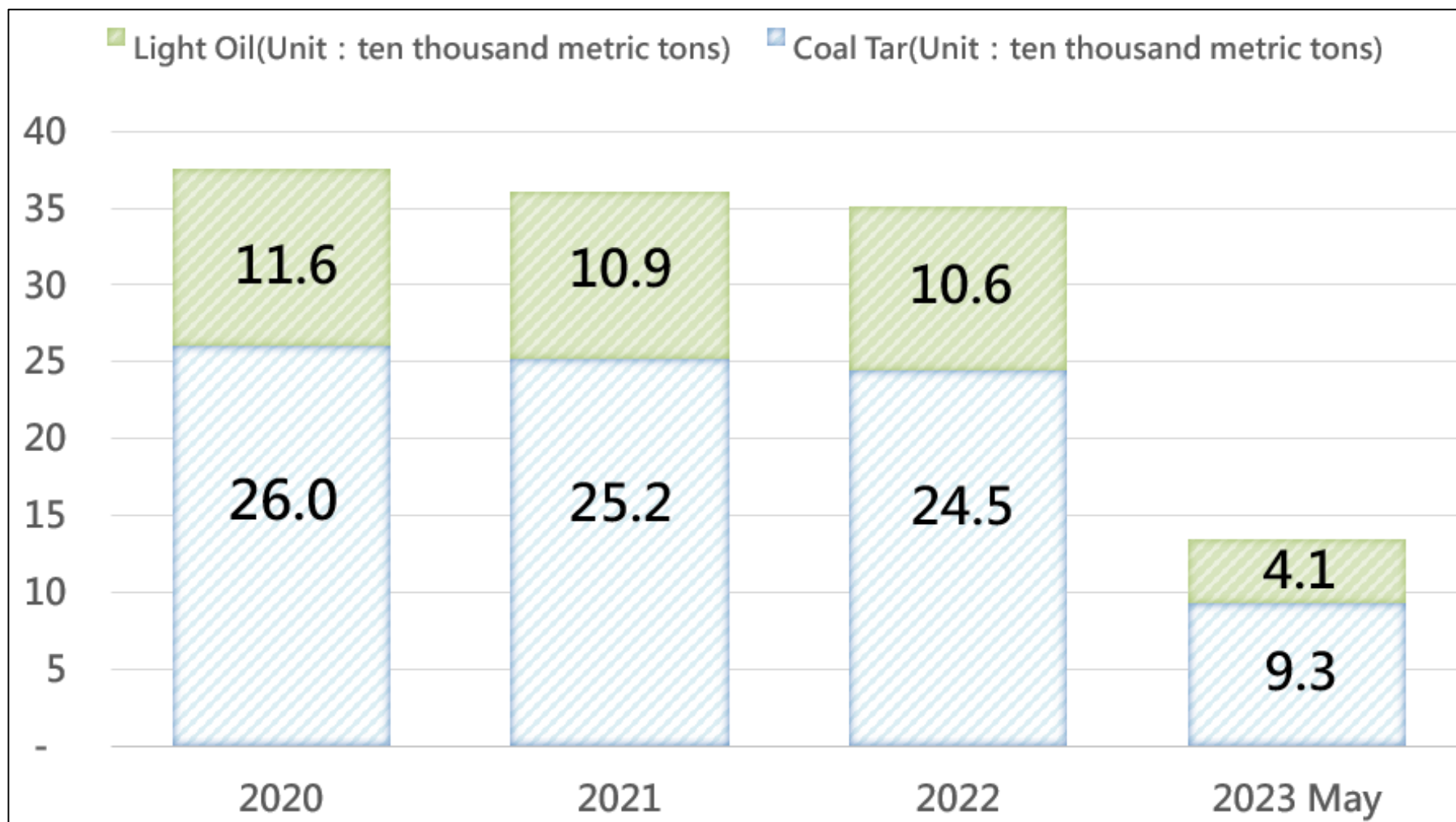
# The Relating Product Map of Carbon Material Industries



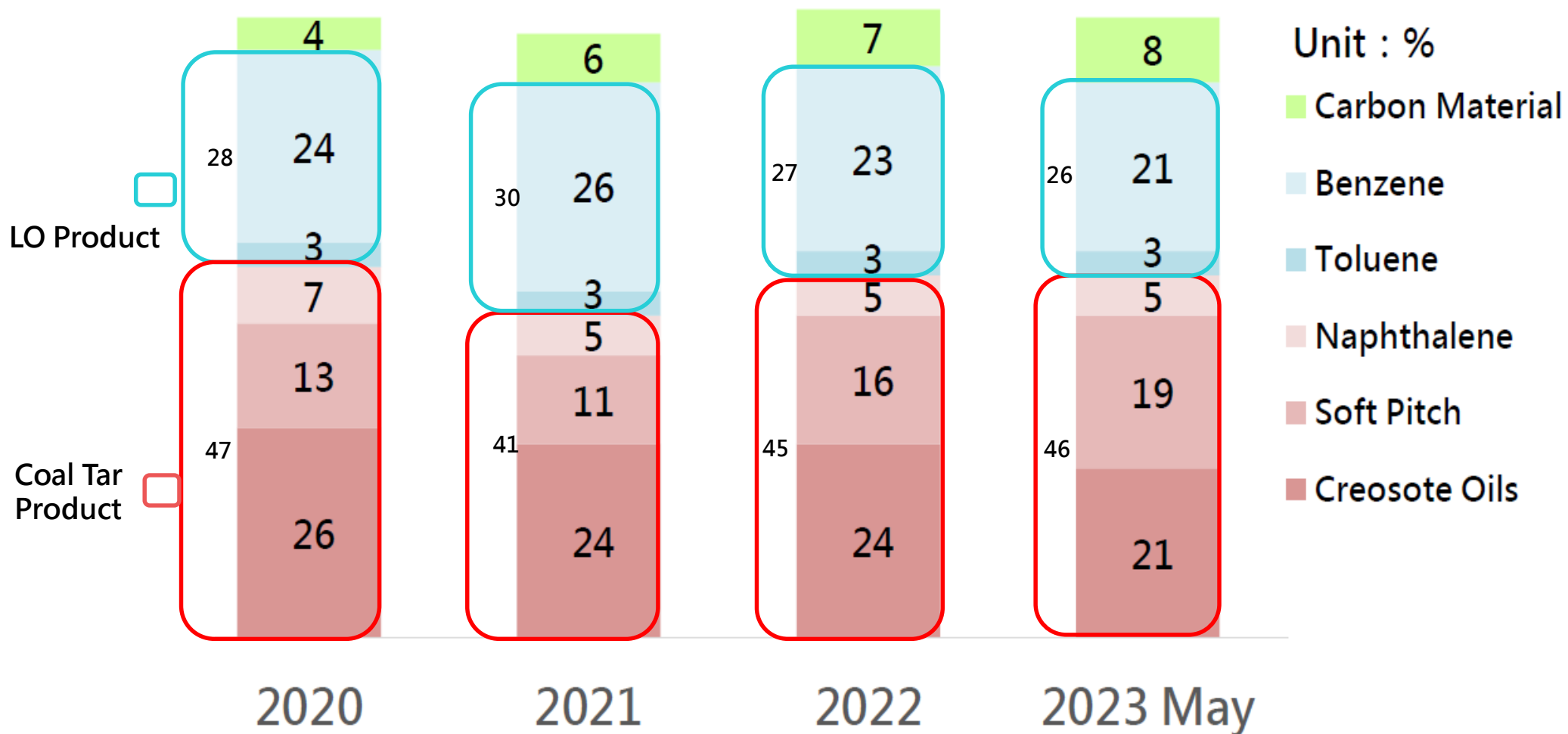
## 2、Operating Performance



# Raw material inputs

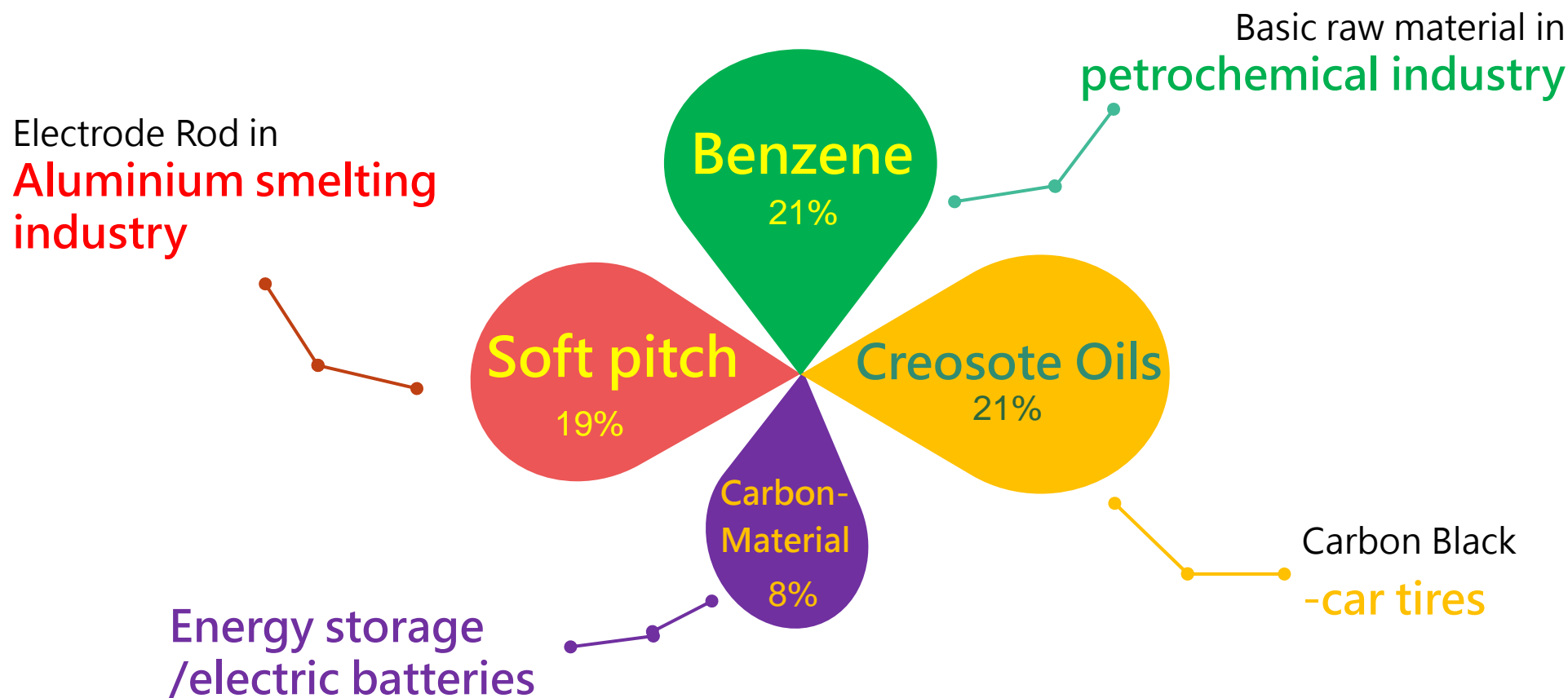


# Revenue breakdown by products in the past three years



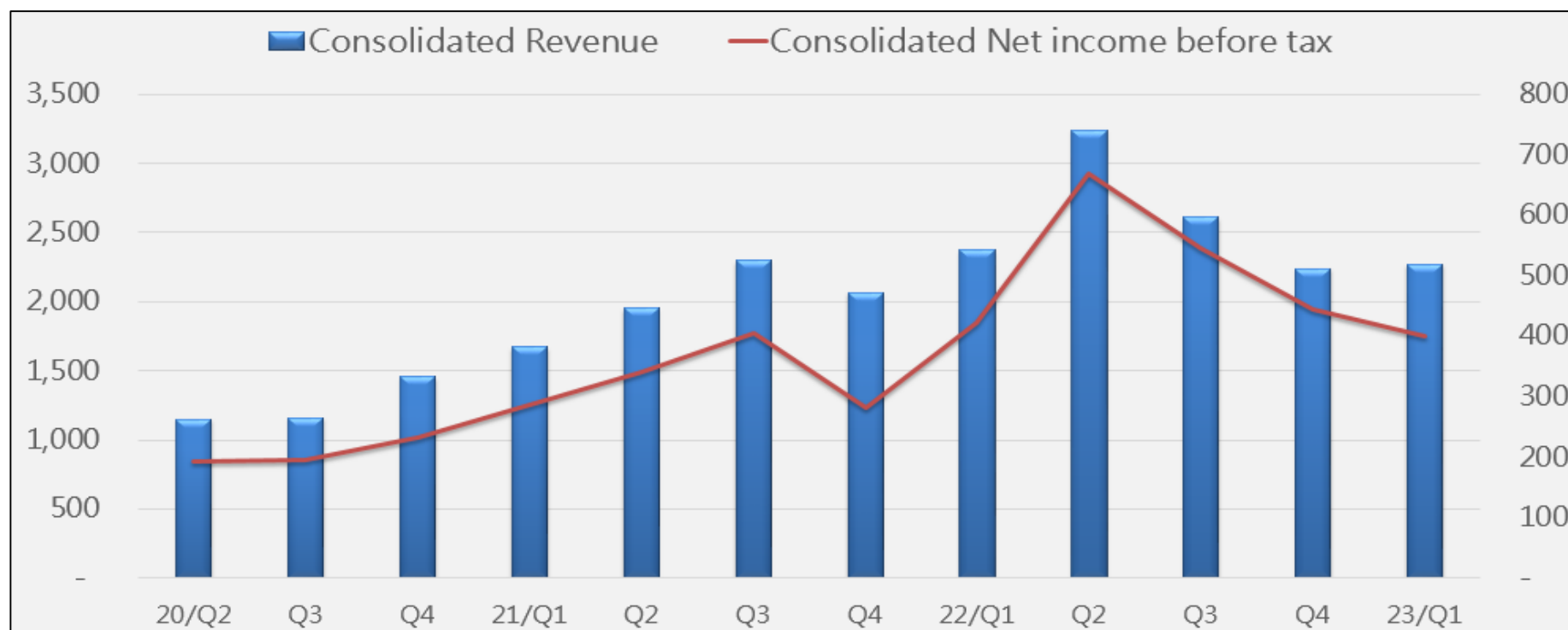


# Coverage of a variety of industries



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

Unit : NTD Million



	2023 April	2023 May
Consolidated Revenue	972	584
Consolidated Net income before tax	250	129

### 2022

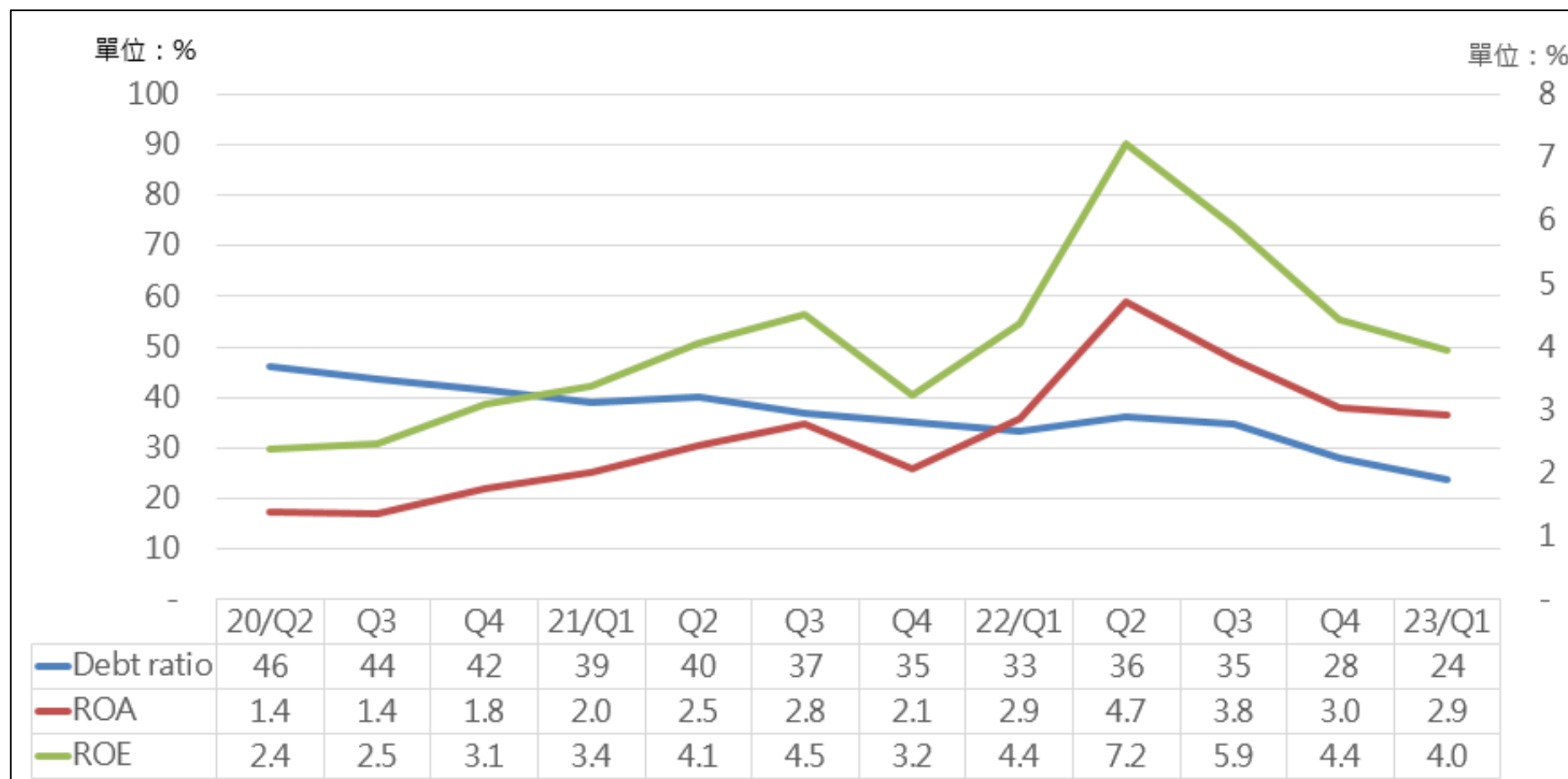
Revenue : 10,459 ; Net income before tax : 2,078

### 2023 January to May

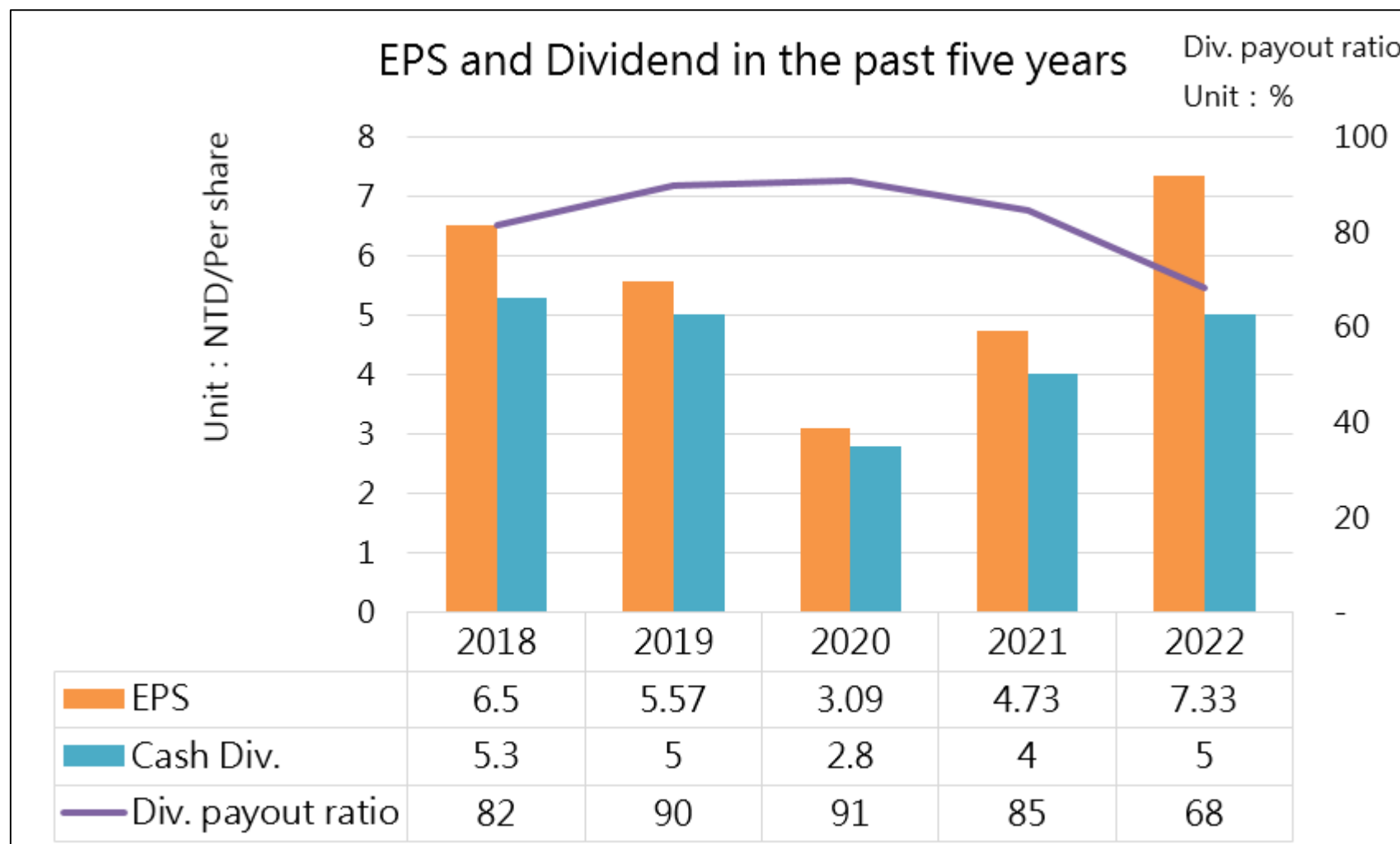
Revenue : 3,827 ; Net income before tax : 779

# Major financial indicator

Unit : %



# Dividend Policy



## 3 、 Sustainable Development



# 節能減碳

	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 (2023)	2015~2022年>1%	Reduce by 1	SOx : less than 5 tons	2
Medium-term goals (2024-2027)	2015~2027年>1.05%	Reduce by 1.5	SOx : less than 3 tons NOx : less than 20 tons	2
Long-term goals (2028~)	2015~2032年>1.1%	Reduce by 2	NOx : less than 15 tons	5



# Corporate governance Evaluation

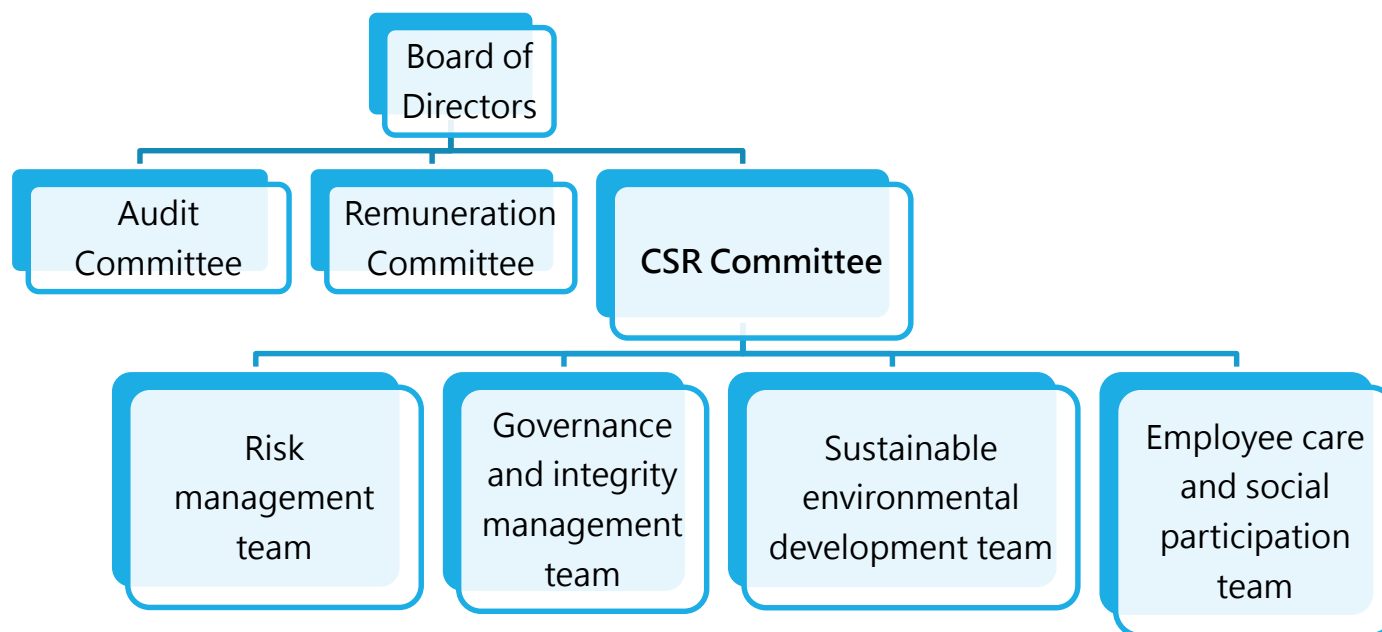
To establish Sustainable Development Committee.

## Governance



CSCC was in the second grade(6%~20%,Grade : 101.48) according to the lastest corporate governance evaluation results(2022).

CSCC was involved TWSE Corporate Governance 100 index.



# ESG Awards

SGS-2019  
Elite Award

TCSA - 2019  
Taiwan Corporate  
Sustainability Award

Gold Award from  
TCSA (2019~2022)

Annual Enterprises  
Protection Award-  
2022



Awarded TIPS Level A Patent and  
certification



Commence the introduction of the Task  
Force on Climate related Financial  
Disclosures( disclose guide for financial  
information in CSR report.

Awarded Badge of Accredited Healthy Workplace

Sustainability Linked Loan

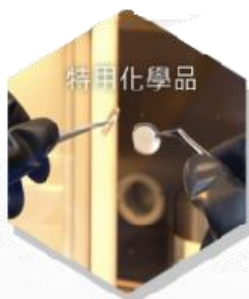
Top 100 Carbon materials competitiveness  
on Business Weekly



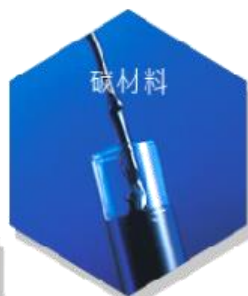
## 4、Future Development



顧客至上



特用化學品



碳材料

品質第一

誠信為先



展望未來

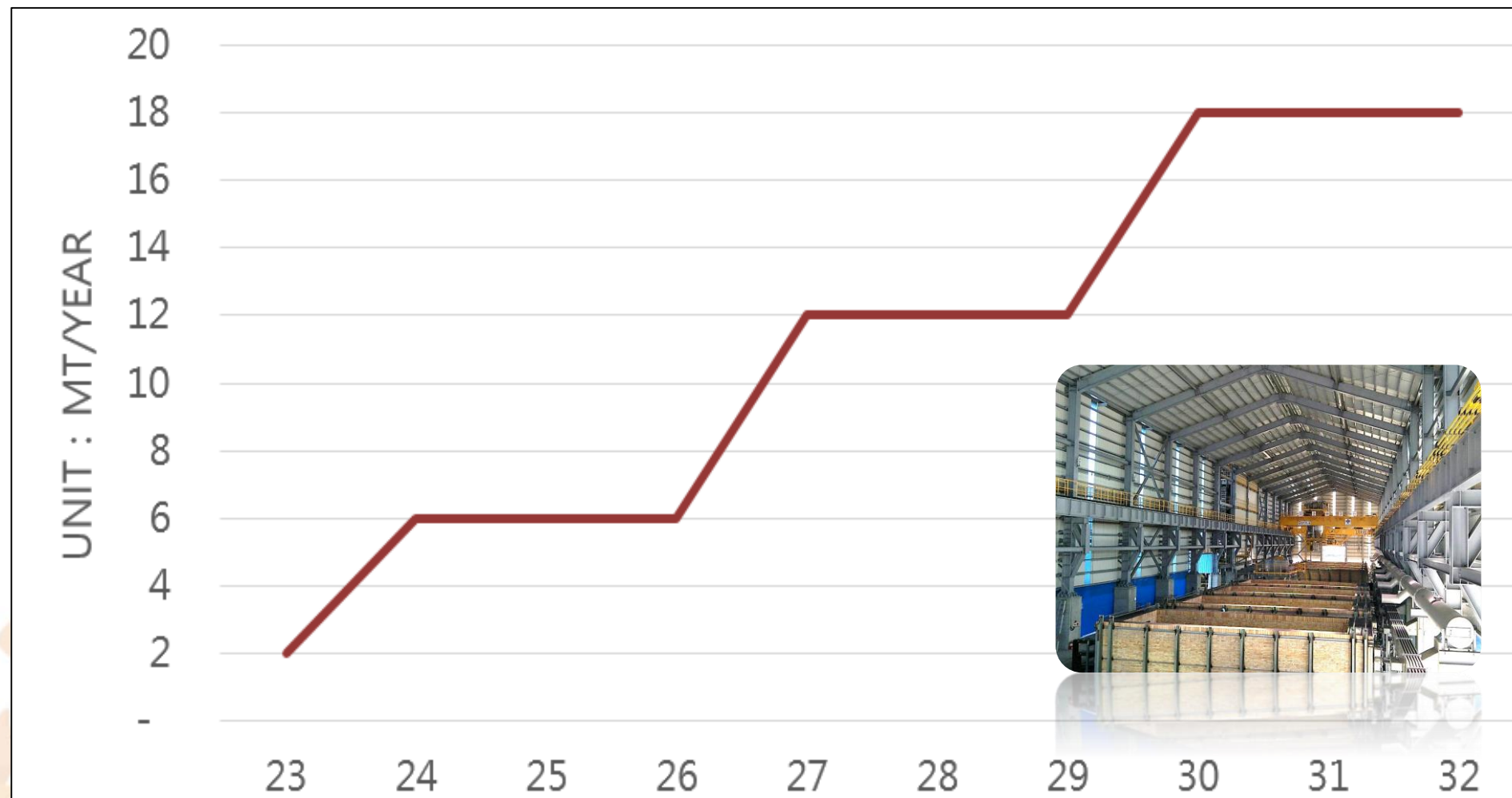
合作無間

Anode material

Advanced Carbon for Supercapacitors

Graphite Block

# Carbonization Furnaces Expansion



# CSCC's Meso-Graphite

■ Feature: High first columbic efficiency, high energy – density, high discharge capability and long cycle life.

■ Application: High Energy & Power density in LIB

Energy Density(Wh/Kg):Low

High

Power Density(W/Kg):Strong

Low

## Future Development

- ✓ High efficient discharge characteristics(100C-200C)
- ✓ High Capacitance of Silicon Carbide products(520/550mAh/g)
- ✓ High Capacitance of fast charge products(5C/8C)
- ✓ Composite development of Mesophase and artificial graphite

**MG10**  
**MG08**

**MG11**  
**FMGP**

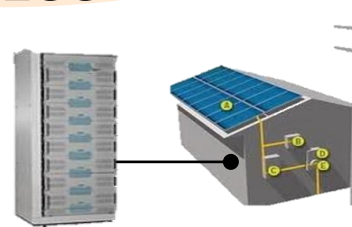
**MG12**  
**MGP**

**MG13**

*PT/HEV*

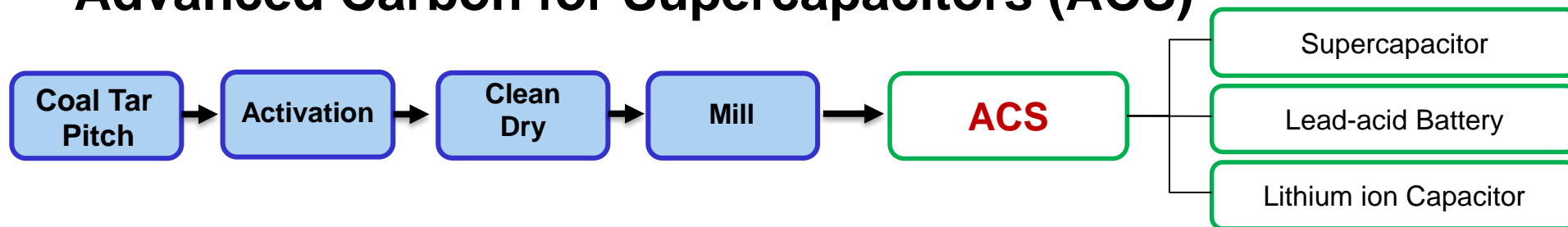
*EV/ESS*

*Tablets/3C*





## Advanced Carbon for Supercapacitors (ACS)



### Features of ACS

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

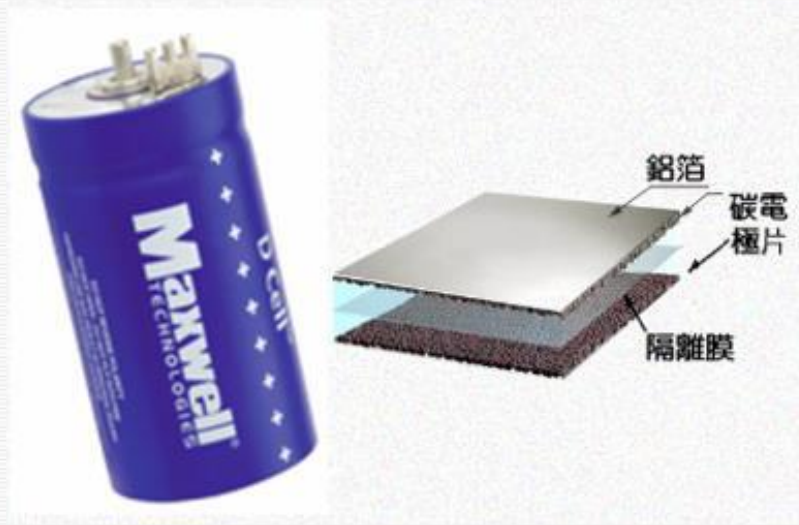
- ACS annual production capacity is 90MT/year



# Applications of Supercapacitors

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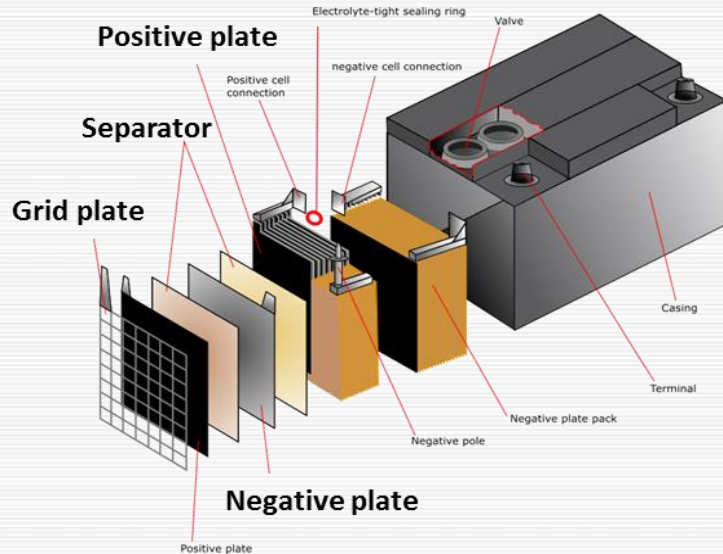
- Supercapacitors have high efficient charge and discharge characteristics. Cycle life is more than twenty thousand times.
- High power discharge application



- Automotive field
- Smart grid
- Smart appliances

# Introduction of Advanced Lead-Acid Battery

## Structure of Lead-Acid Battery



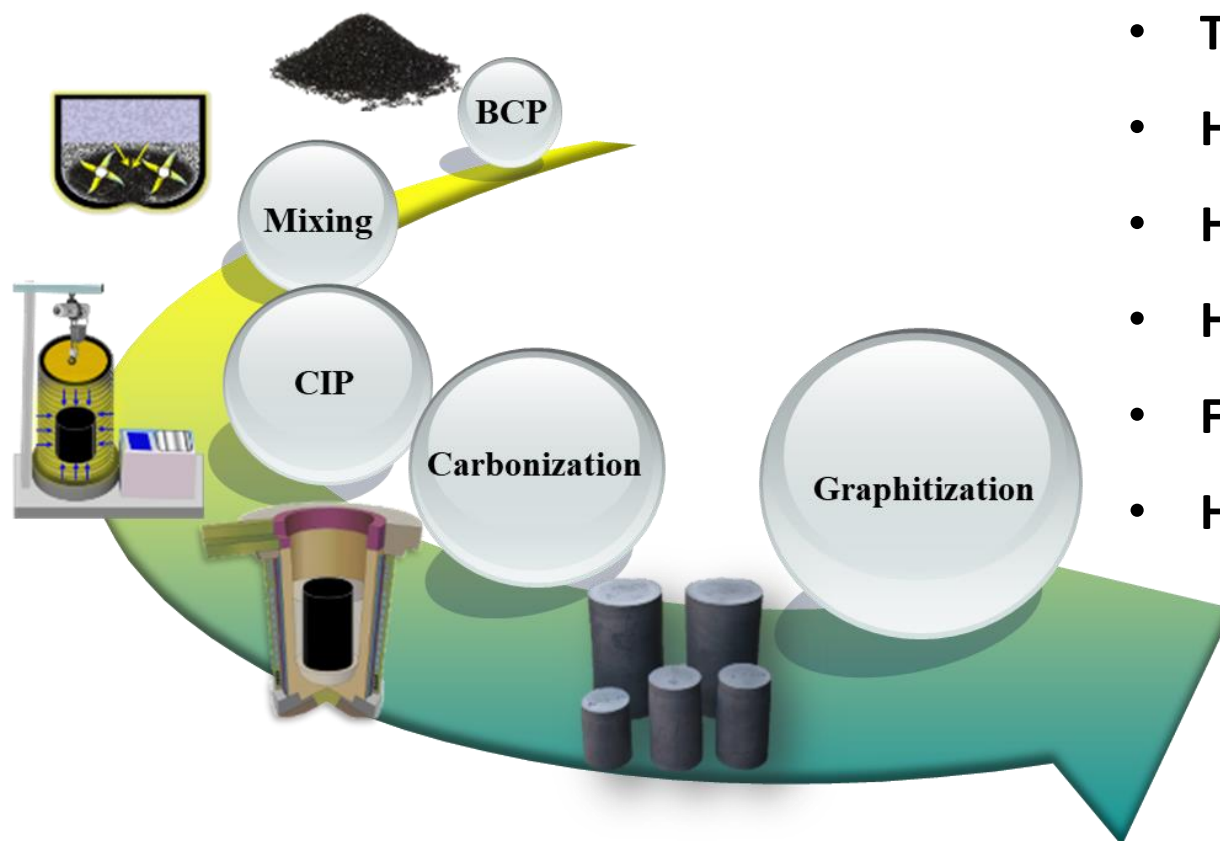
Advantages of addition activated carbon into LAB

1. Increasing conductivity
2. Improving the uniformity of  $\text{Pb/PbSO}_4$
3. Extending the life of LAB

- Start-Stop Battery
- UPS uninterruptible power system



# Graphite Block



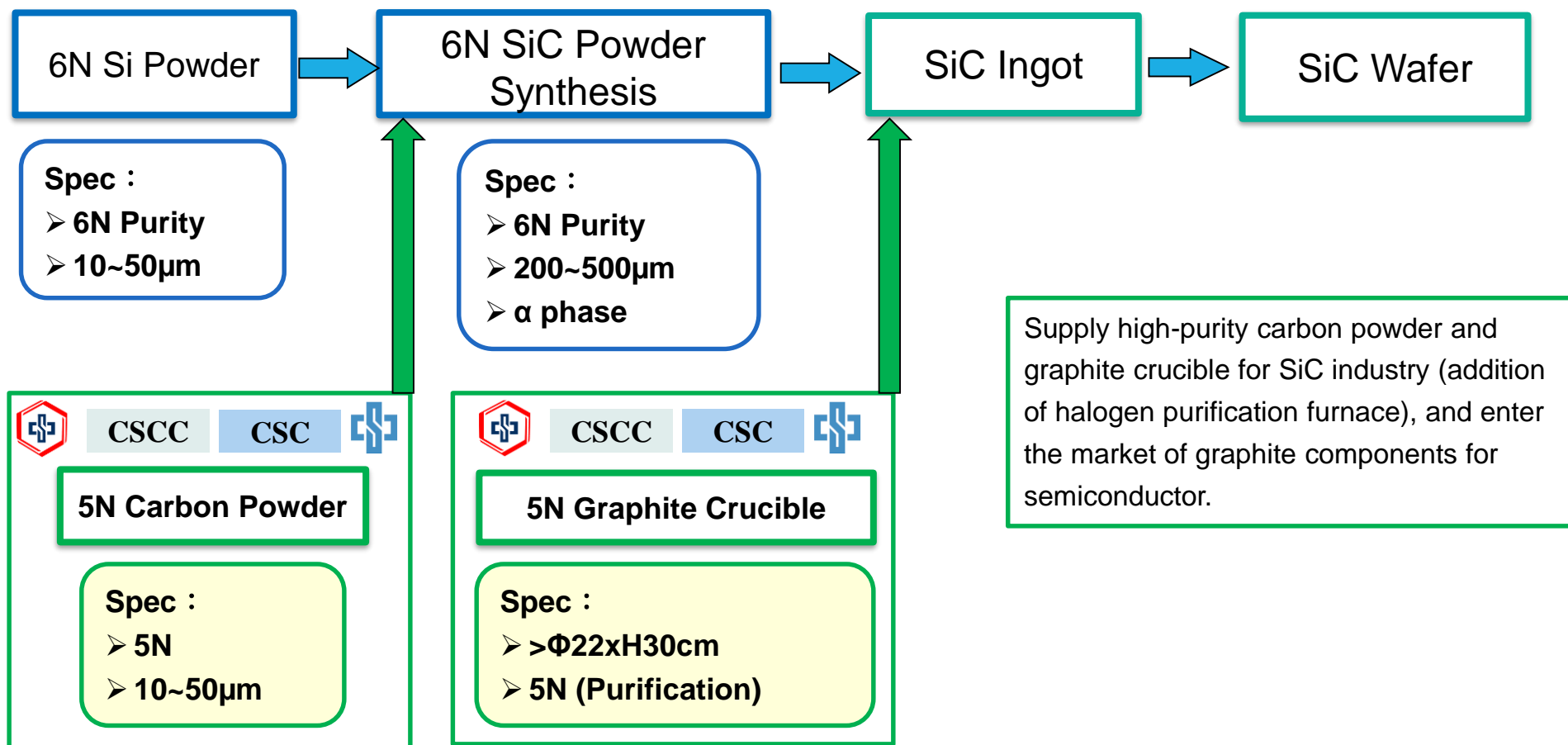
- Thermal and Chemical Resistance
- High Thermal Conductivity
- High Purity
- High Density
- Fine Structure
- Homogeneous

# Graphite Block Application





# Carbon Material for Compound Semiconductor (SiC)



# Our Vision

煤化學及碳材料的領航者

顧客至上、誠信為先、品質第一、合作無間







Q&A

