



# CHINA STEEL CHEMICAL CORPORATION (1723) Investor Conference

December 2023



# Safe Harbor statement

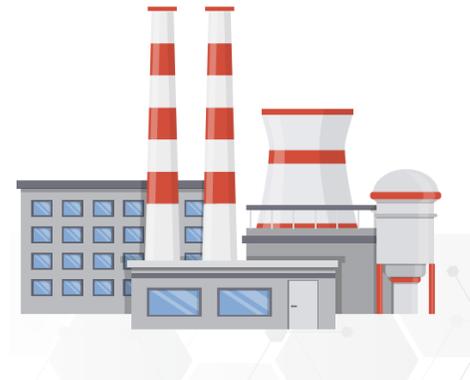
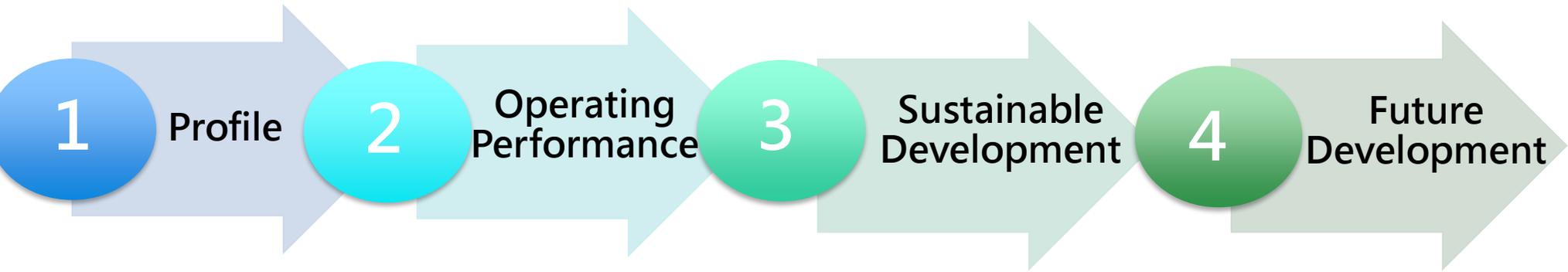
- This presentation may contains forward-looking statements. All statements other than historical and current fact, without limitation, including business outlook, predictions, estimates, are forward-looking statements.
- Such statements are based upon management’s current beliefs and expectations and 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.
- This cautionary statement is applicable to all forward-looking statements contained in this presentation.

# Recap of Recent Major Events

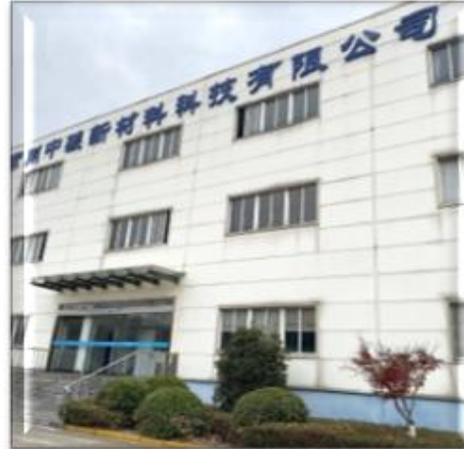
- CSCC Board of directors approved the setup of the halogen purification furnace to facilitate development of highly pure carbon materials.(2021/08/03) , the installation has been completed and is being debugged.
- CSCC Board of directors approved the investment in a second line of graphitization furnaces at the Pingnan Carbon Materials Plant.(2022/05/05),estimated completion date is second quarter 2024.
- CSCC Board of directors approved 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.



# 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-9 、 Master-94 ; Male-87% 、 Female-13% )</b>

- **the first coal chemical company with Graphitization 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%

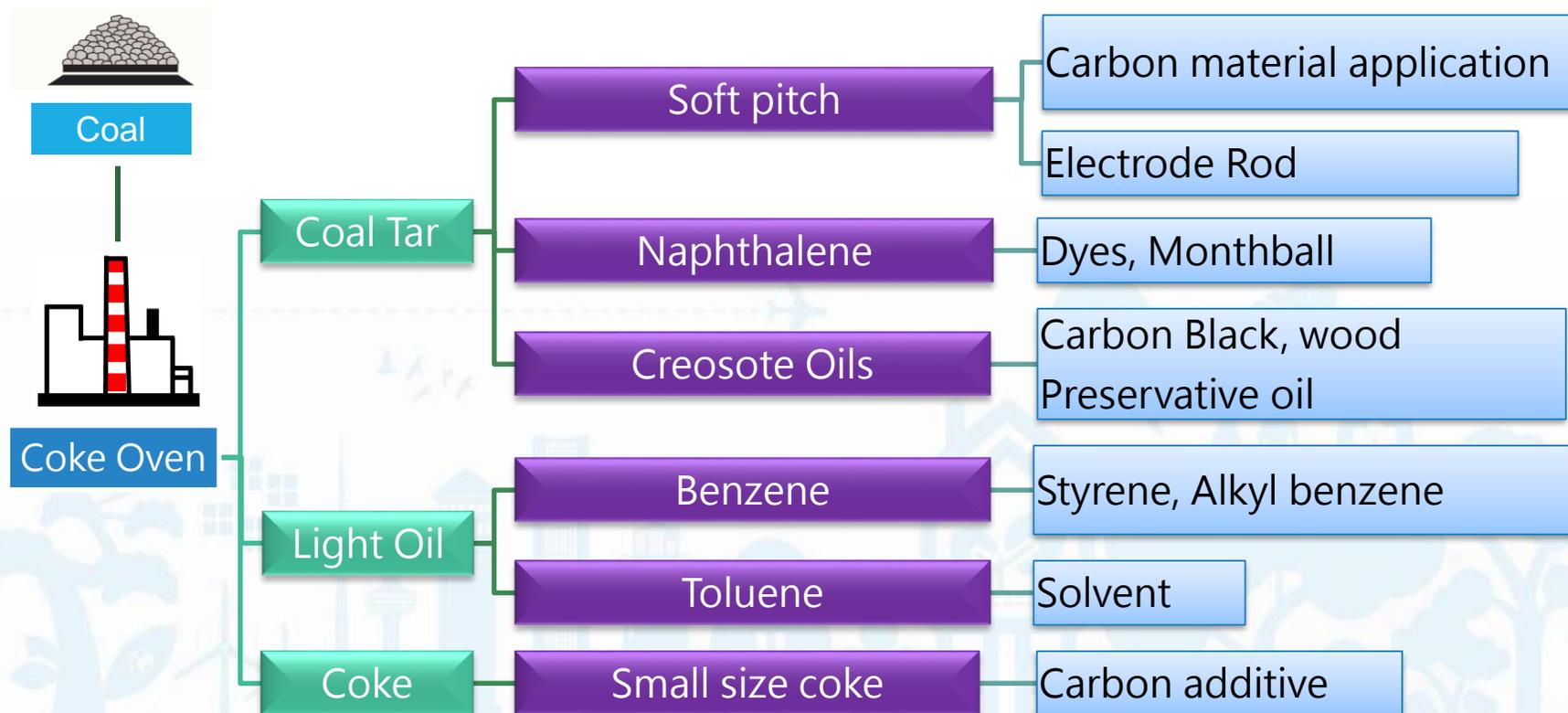
As of : July 20,2023

# The Relating Product Map of Coal Chemical Industries

Upstream  
( CSC · DS )

Midstream  
( CSCC )

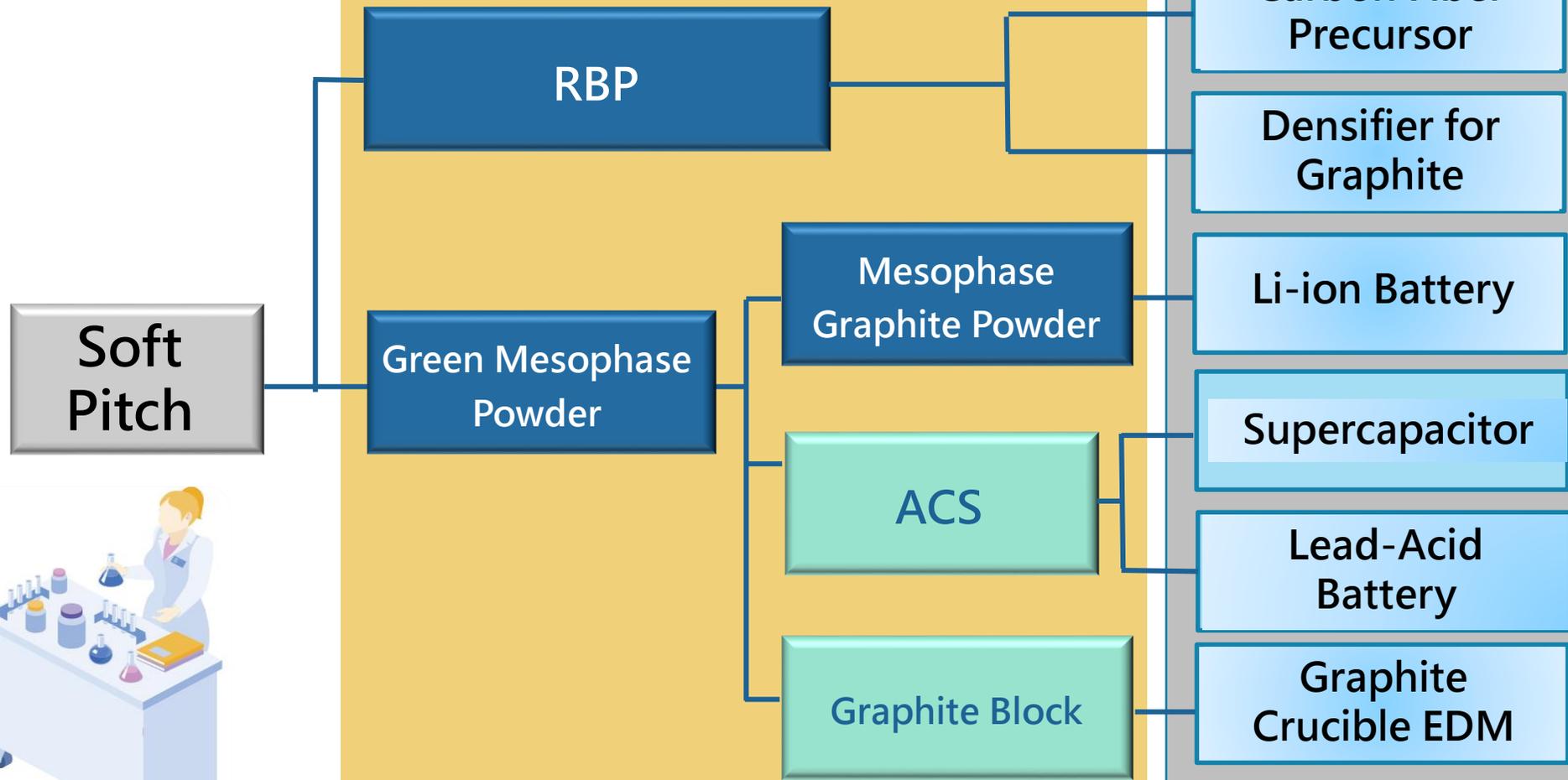
Downstream



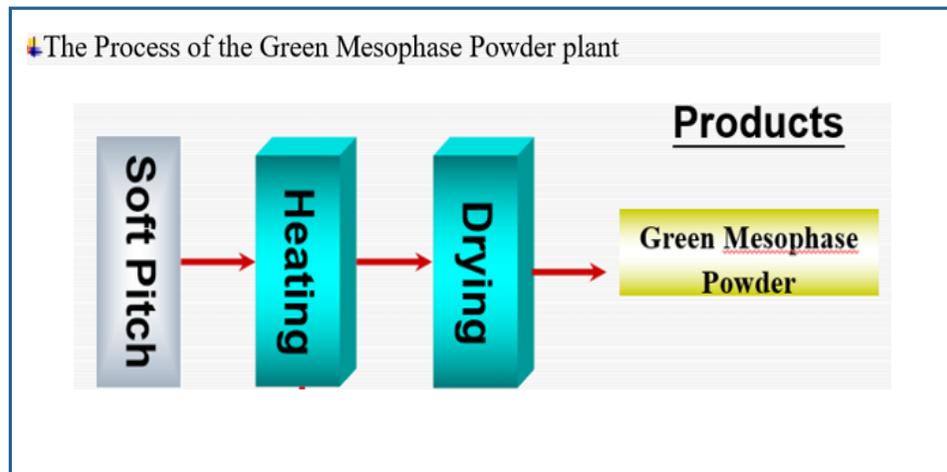
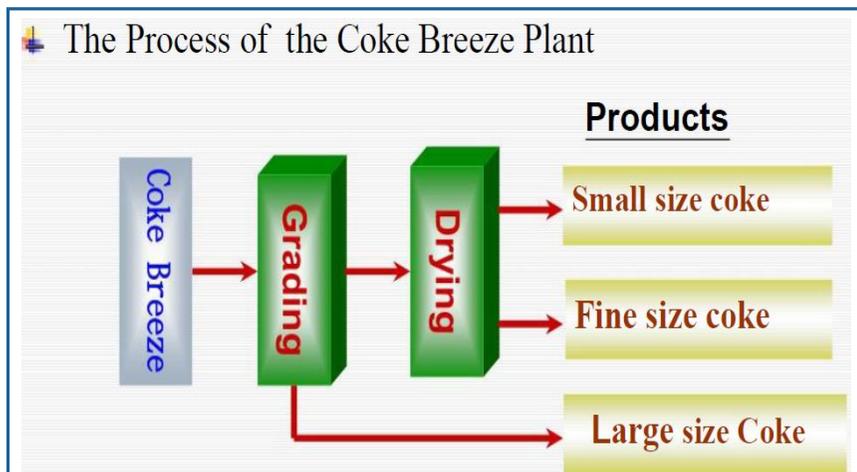
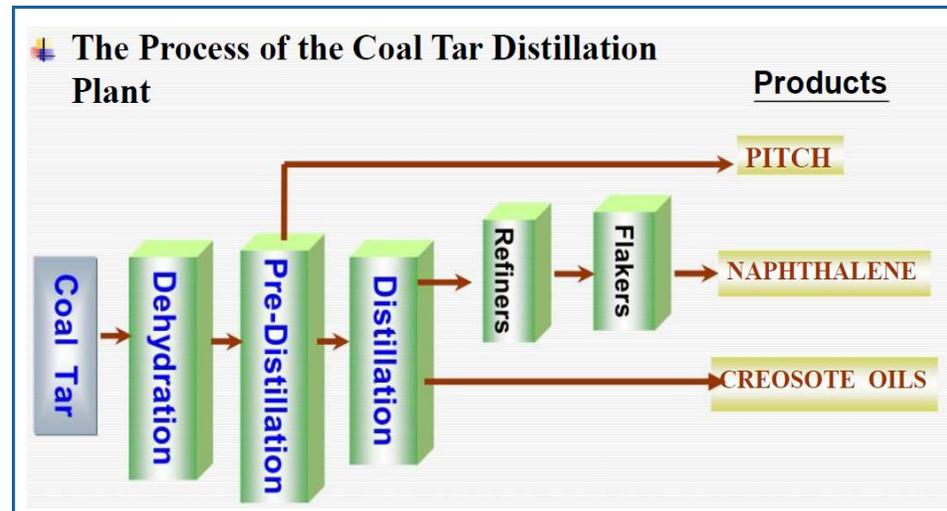
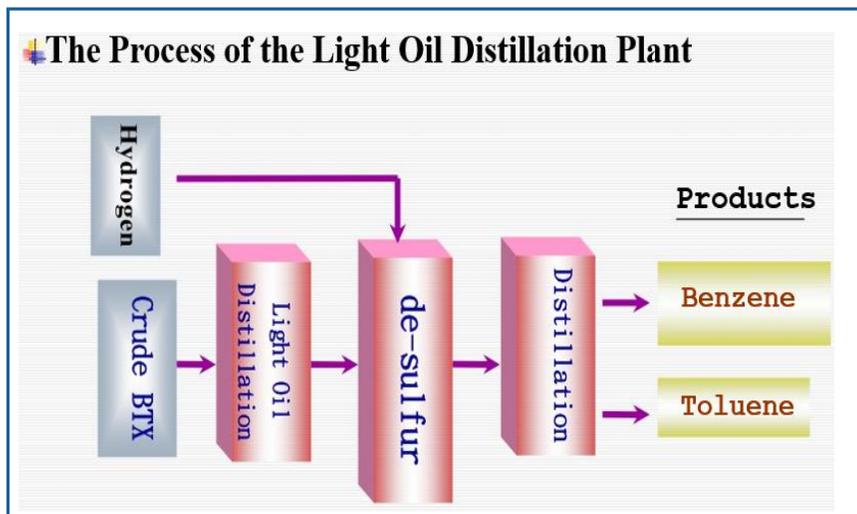
# Applications of Carbon material product

## Carbon material product

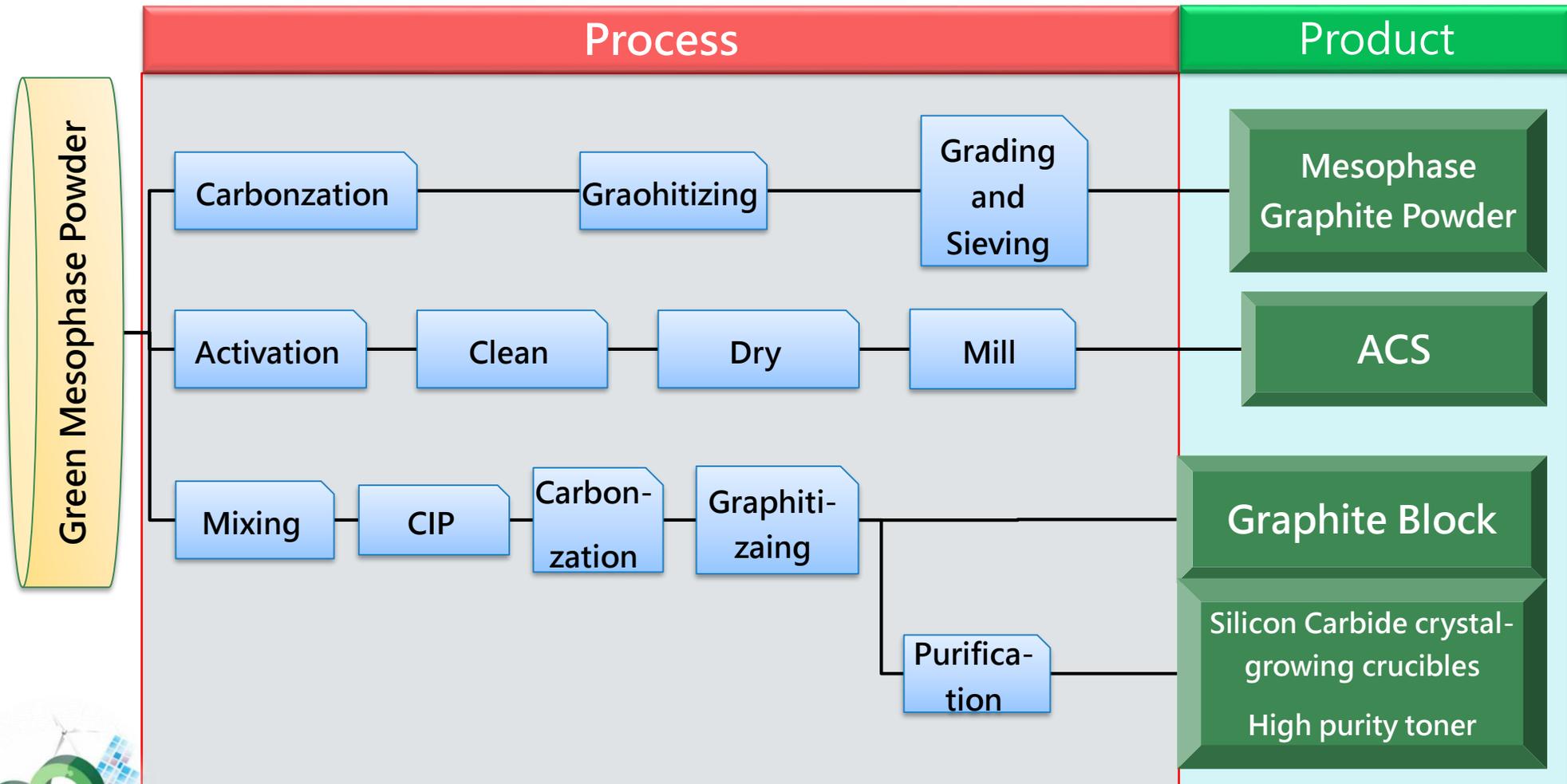
## Application



# The Relating Product Map of Coal Chemical Industries



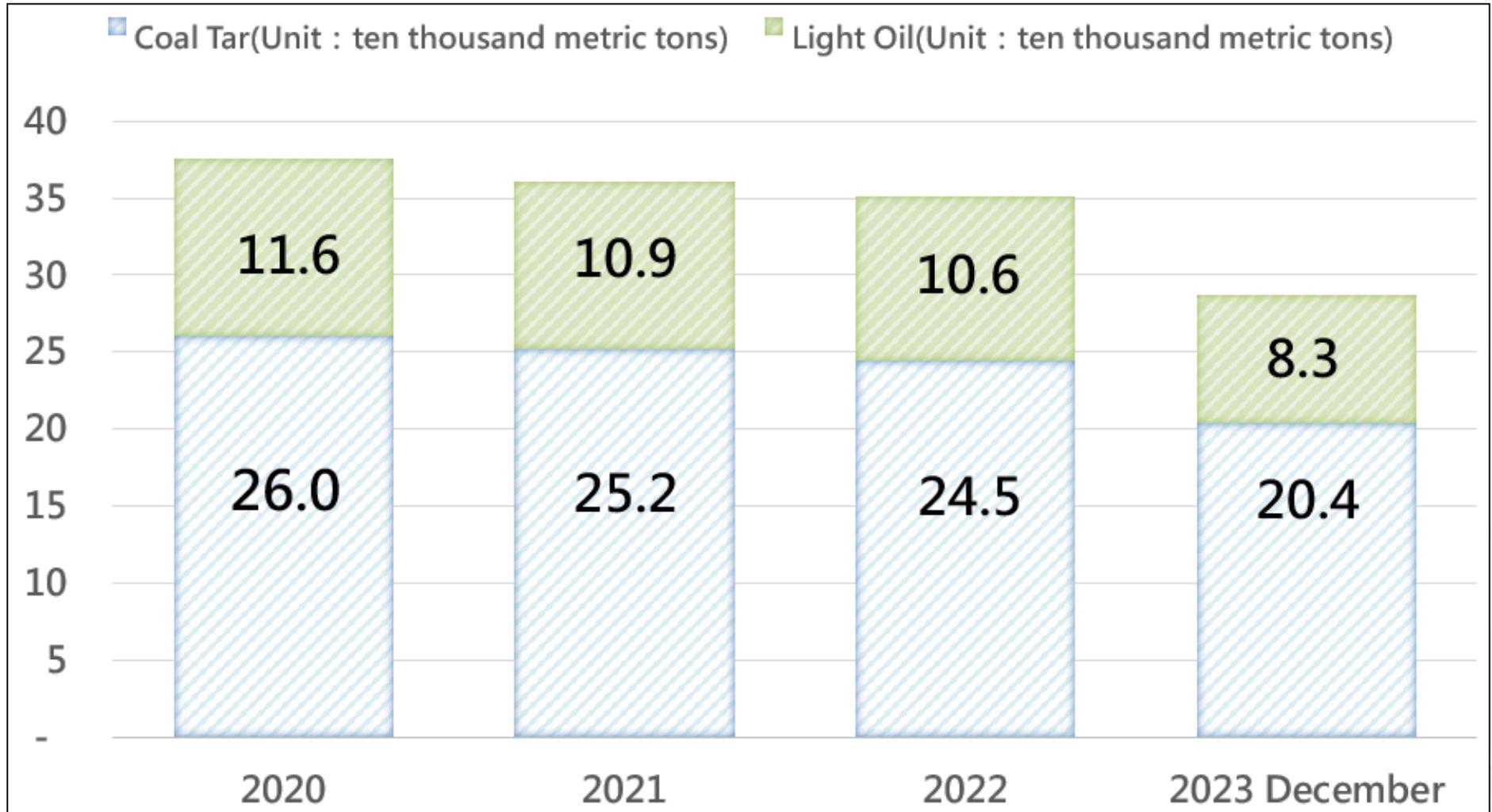
# The Relating Product Map of Carbon Material Industries



## 2 · Operating Performance

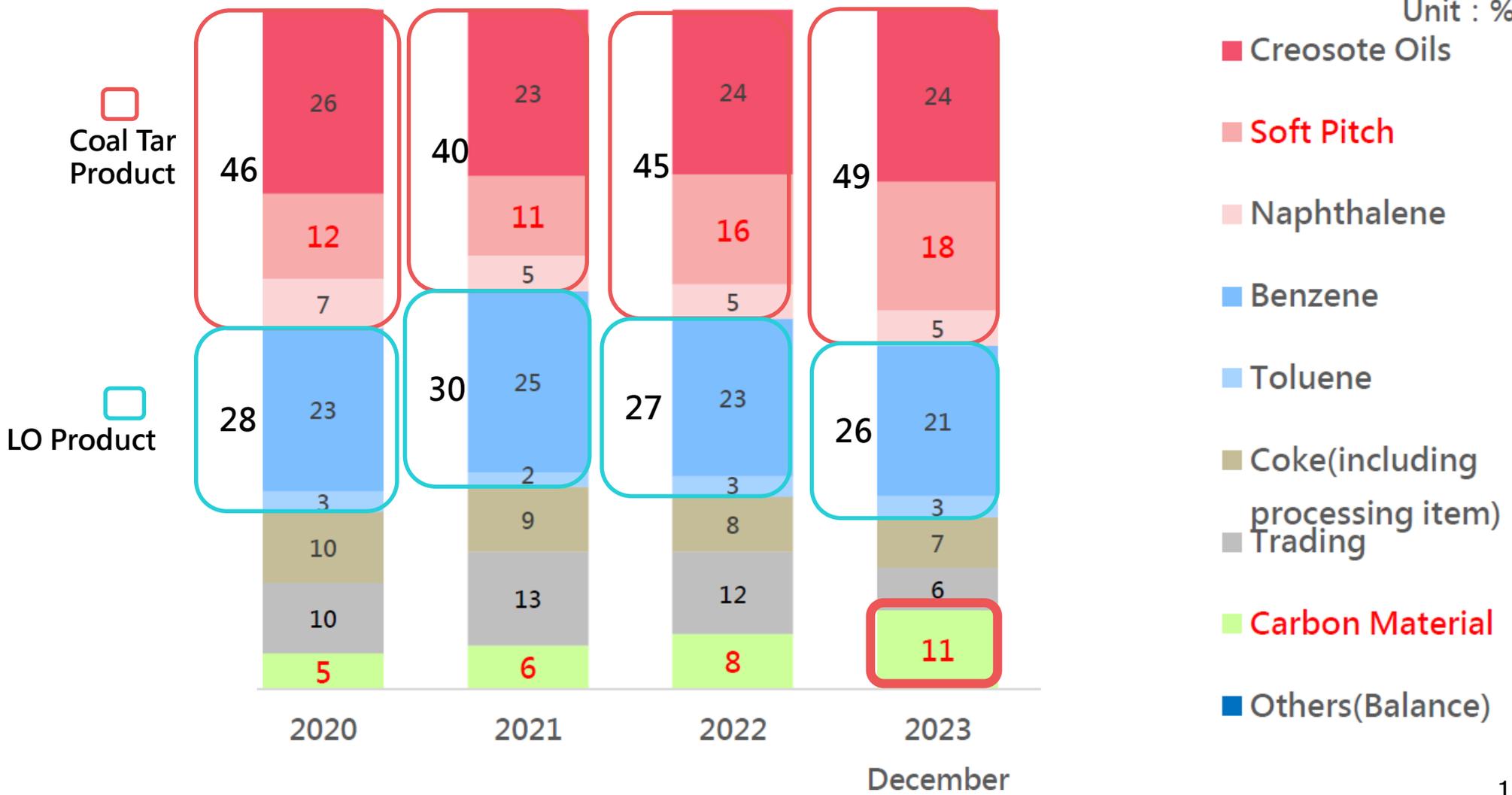


# Raw material inputs



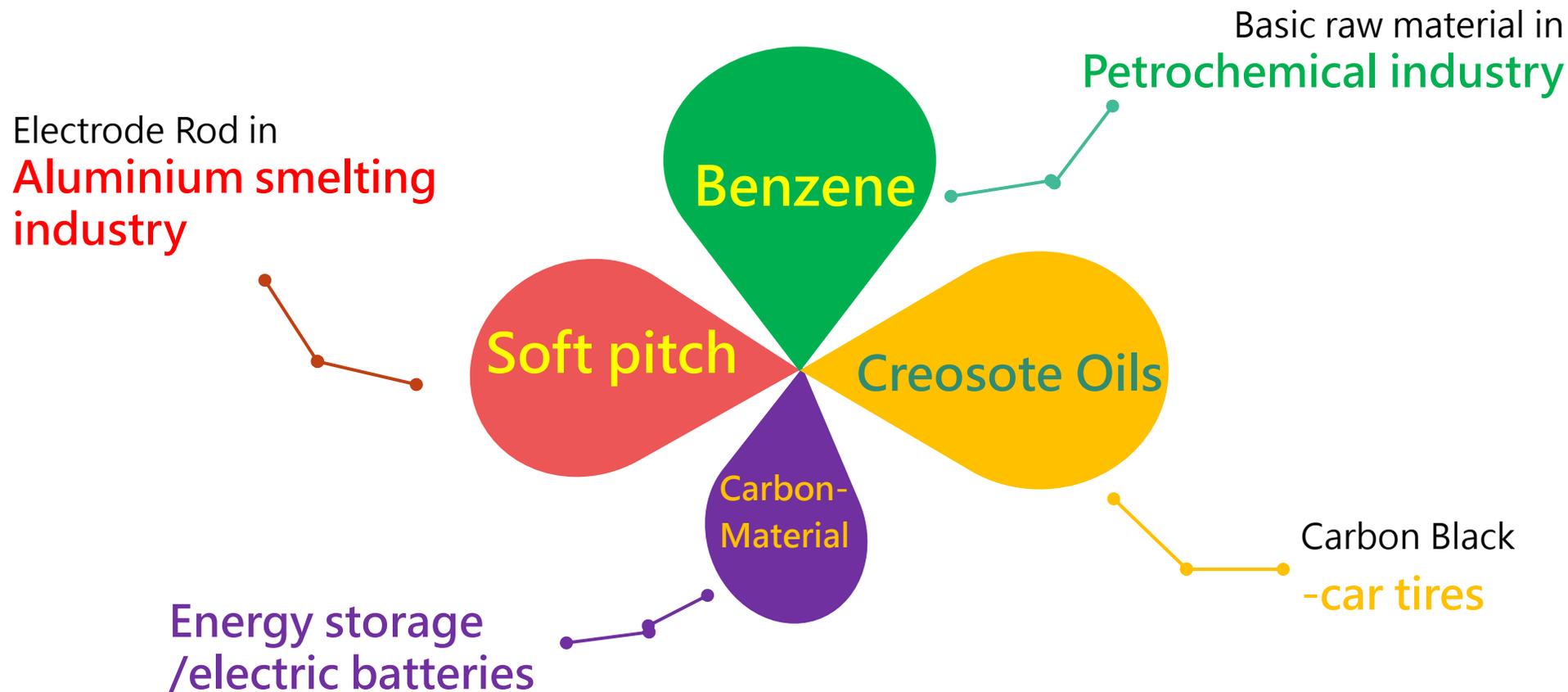
# Revenue breakdown by products in the past three years

Unit : %



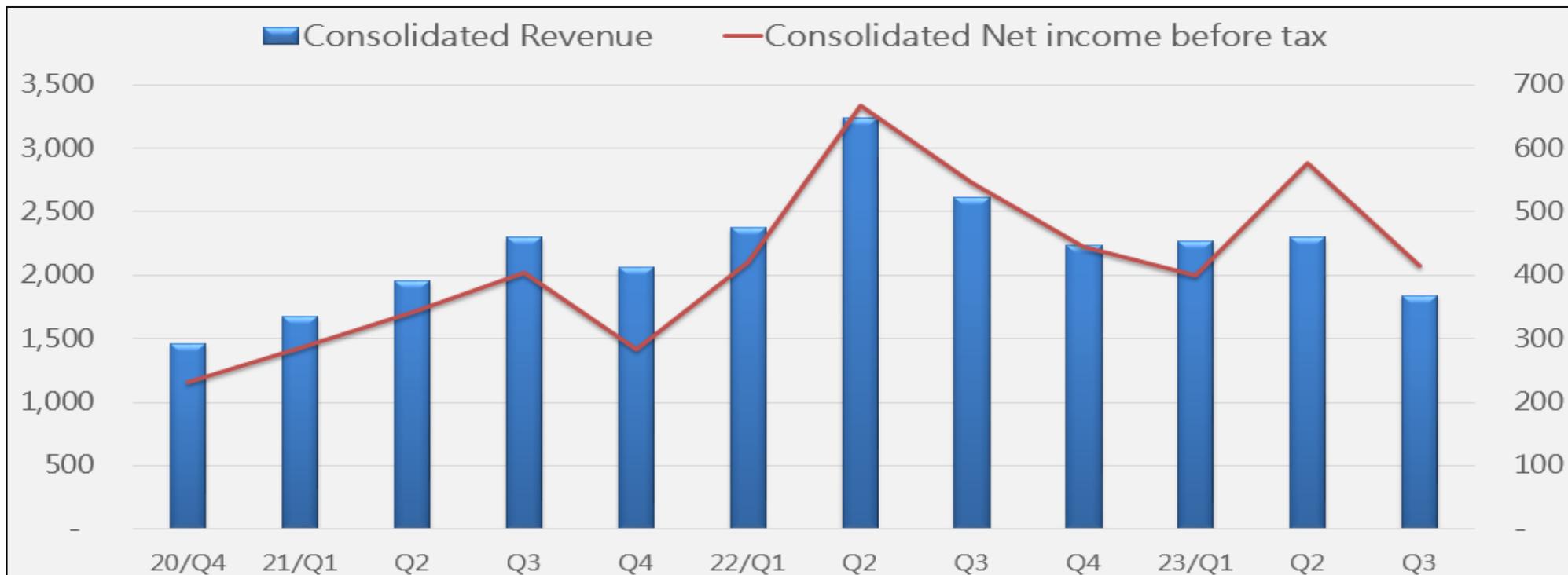
December

# Coverage of a variety of industries



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

Unit : NTD Million



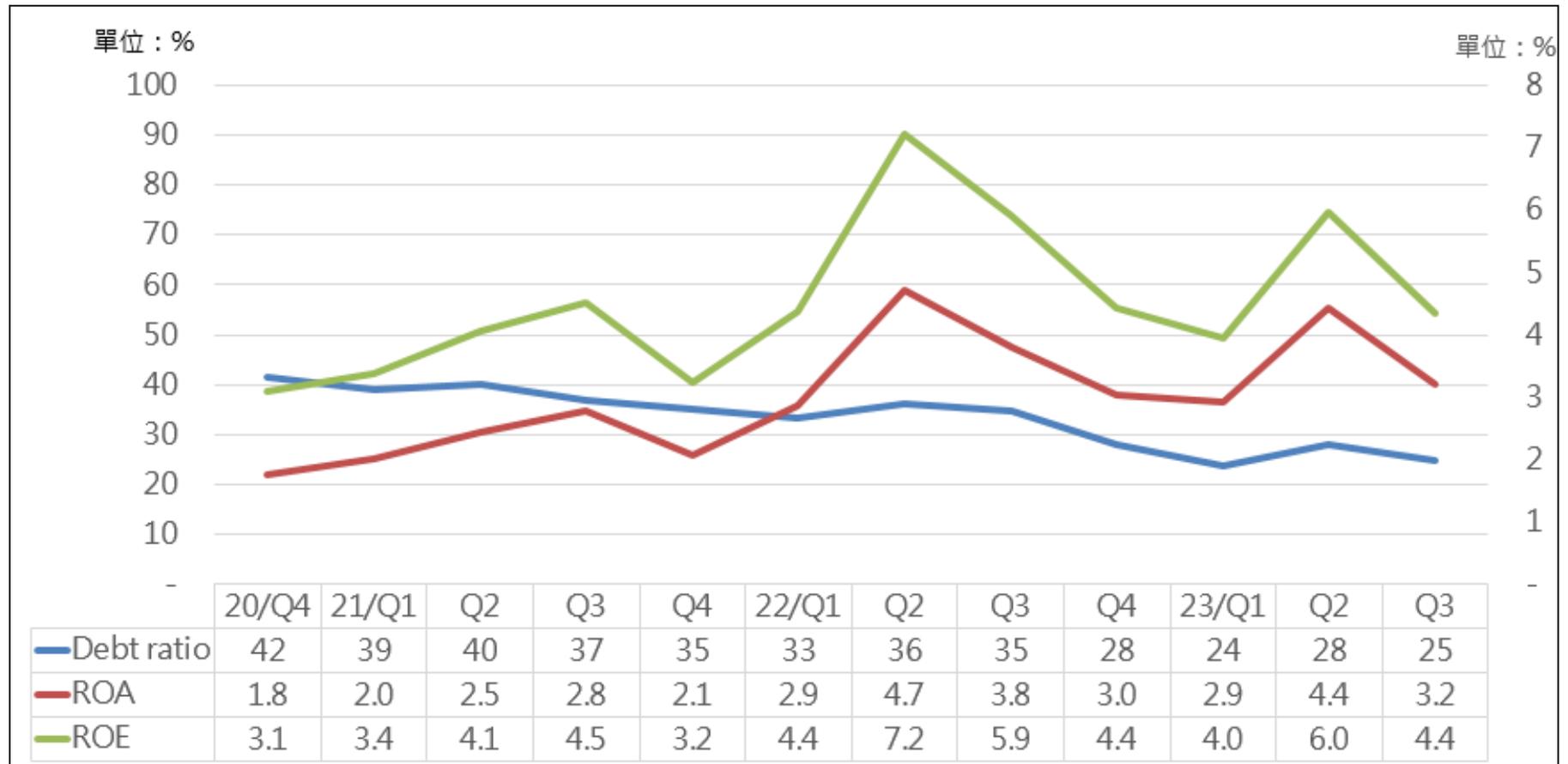
**2022**  
Revenue : 10,459 ; Net income before tax : 2,078

**2023 January to November**  
Revenue : 7,646 ; Net income before tax : 1,622

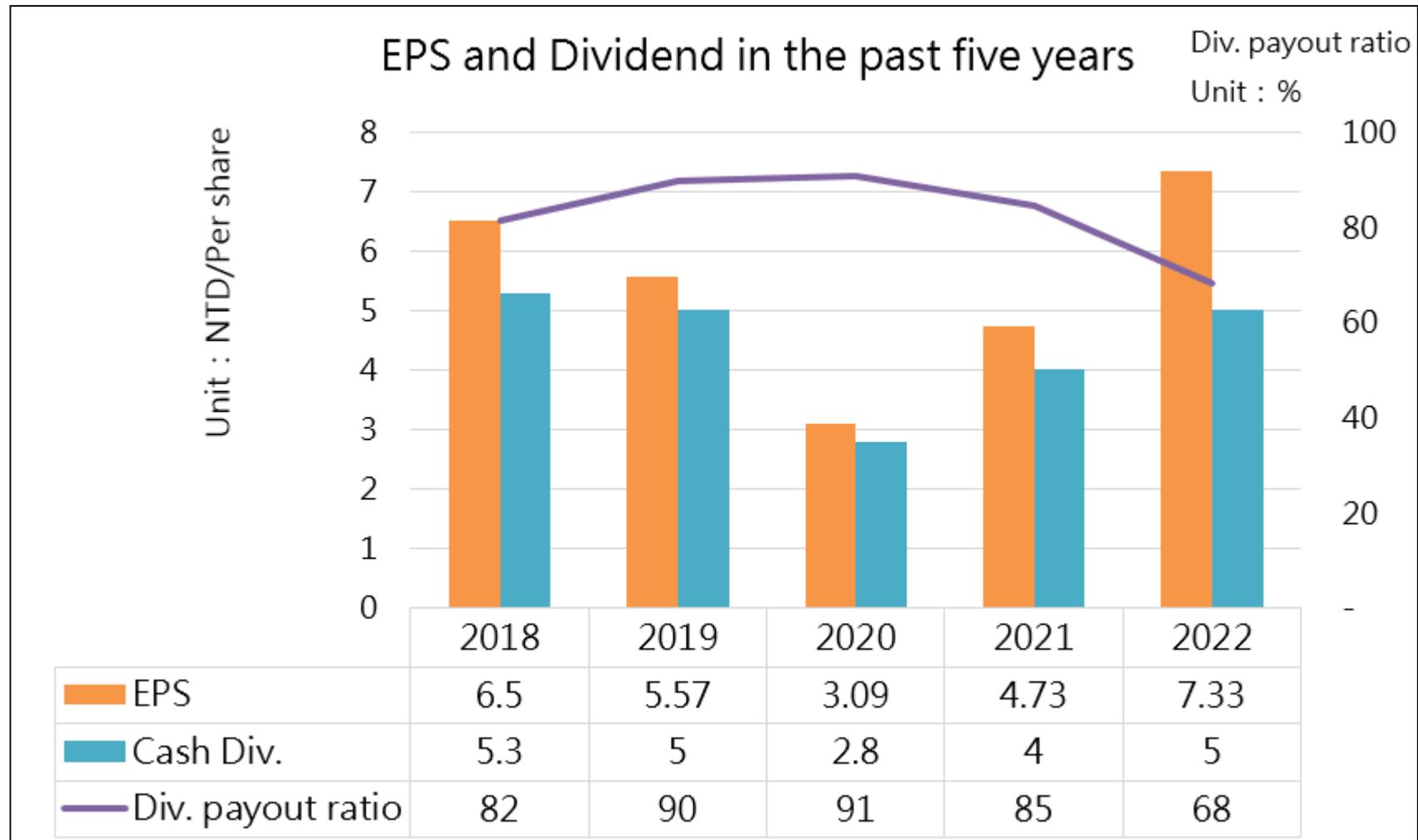
	2023 October	2023 November
Consolidated Revenue	744	498
Consolidated Net income before tax	163	68

# Major financial indicator

Unit : %



# Dividend Policy



# 3、Sustainable Development



# 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 (2023)	2015~2022 > 1	Reduce by 1	SOx : less than 5 tons NOx : less than 25 tons	2
Medium-term goals (2024-2027)	2015~2027 > 1.05	Reduce by 1.5	SOx : less than 3 tons NOx : less than 20 tons	2
Long-term goals (2028~)	2015~2032 > 1.1	Reduce by 2	NOx : less than 15 tons	5

# Corporate governance Evaluation

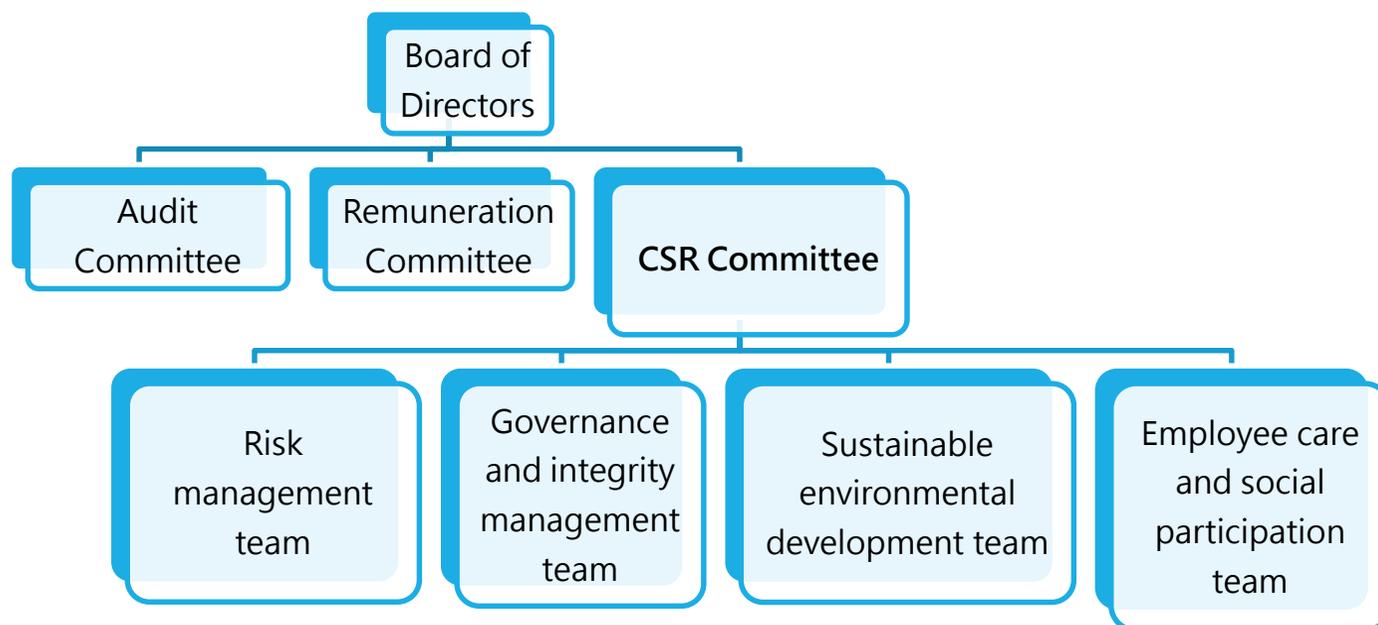
To establish Sustainable Development Committee.

## Governance



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

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



# ESG Awards

National Enterprise Environmental Protection Award-Bronze medal(2022)

Environmental Protection and Sustainability Award(2023)

Taiwan Corporate Sustainability Award(2019)

SGS-Elite Award(2019)

Gold Award from TCSA (2019-2023)



Awarded TIPS Level A Patent and certification(2021-2024)

Awarded Certification of information security ISO 27001(2023)



Commence the introduction of the Task Force on Climate related Financial Disclosure in CSR report

Awarded for Pingtung County Environmental Education Award(2023)

Awarded for Excellent Trading Business(2023)

Top 100 Carbon materials competitiveness on Business Weekly(2022)

Awarded Badge of Accredited Healthy Workplace(2022)

Sustainability Linked Loan(2022-2023)

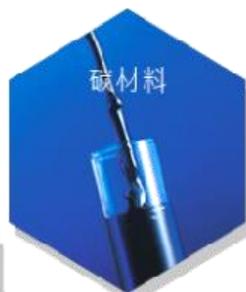
# 4、Future Development



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

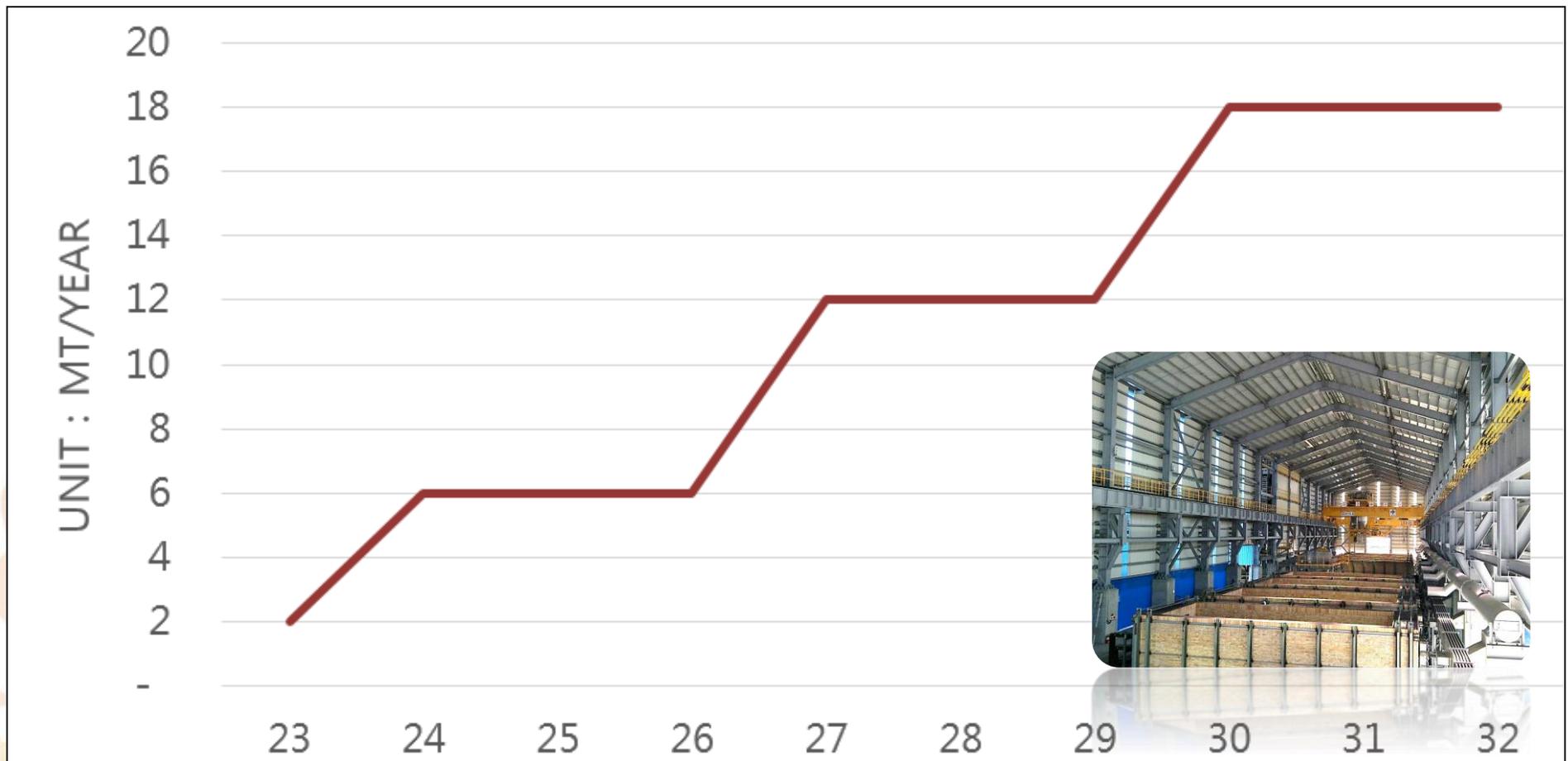
Anode material

Advanced Carbon for Supercapacitors

Graphite Block

# Carbonization Furnaces Expansion

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



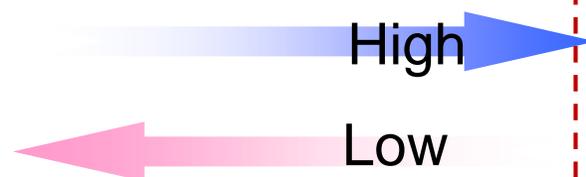
# CSCC's Meso-Graphite

■ 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

Power Density(W/Kg):Strong



## 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

**UF1**

**UF2**

Racing car / HEV



**MG11**

**MG10**

PT / Drone



**MG12**

**TAG11**

EV / ESS



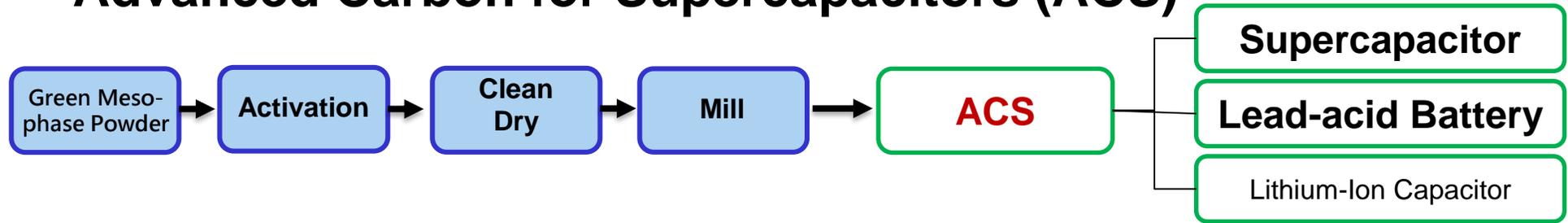
**MG13**

**BS481**

Tablets / 3C



## Advanced Carbon for Supercapacitors (ACS)



### Features of ACS

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

- ACS annual production capacity is 90MT/year(two production line)

# Applications of ACS

## Supercapacitors

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

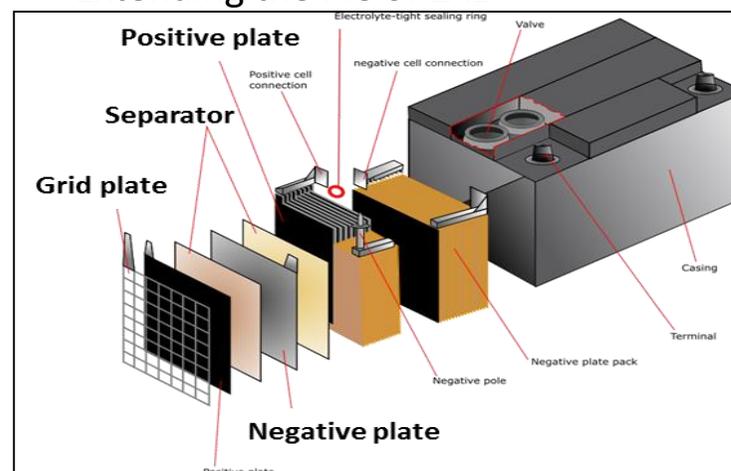


- Rail vehicle, wind power, automobile field, smart grid, smart appliances

## Advanced Lead-Acid Battery

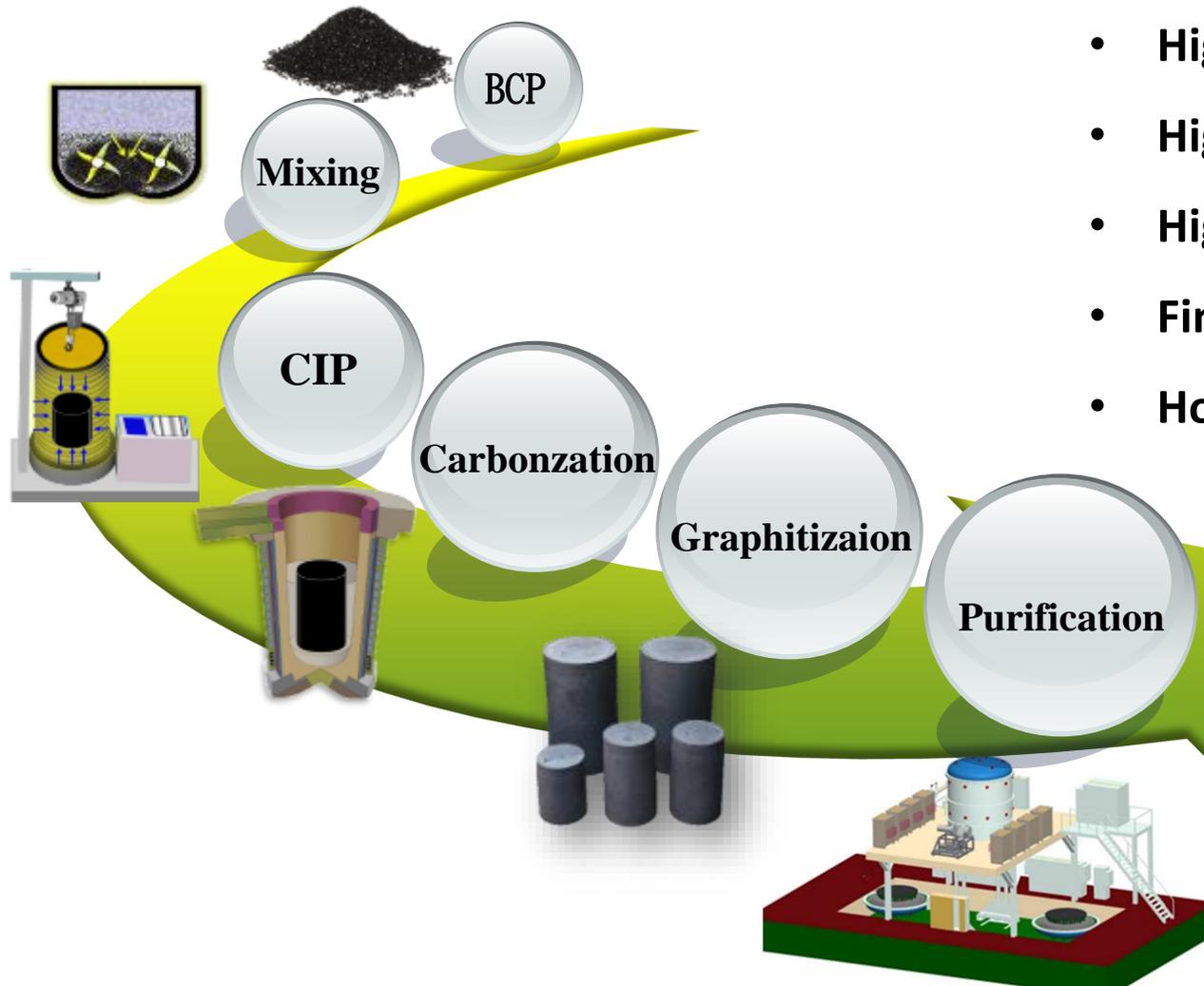
Advantages of addition activated carbon into LAB

- Increasing conductivity
- Improving the uniformity of Pb/PbSO<sub>4</sub>
- 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

✓ Supply 5N Level high-purity carbon powder and graphite crucible, which is the key material in graphite components for semiconductor industry.

# Graphite Block

連接板



螺帽



連鑄治具



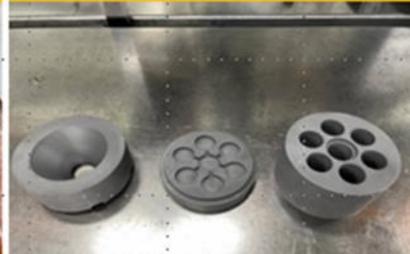
3D玻璃模具



支撐軸件



連鑄模具



加熱器



石墨電極



半導體構件



SiC長晶坩堝



SiC長晶坩堝



高純碳粉



# 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

