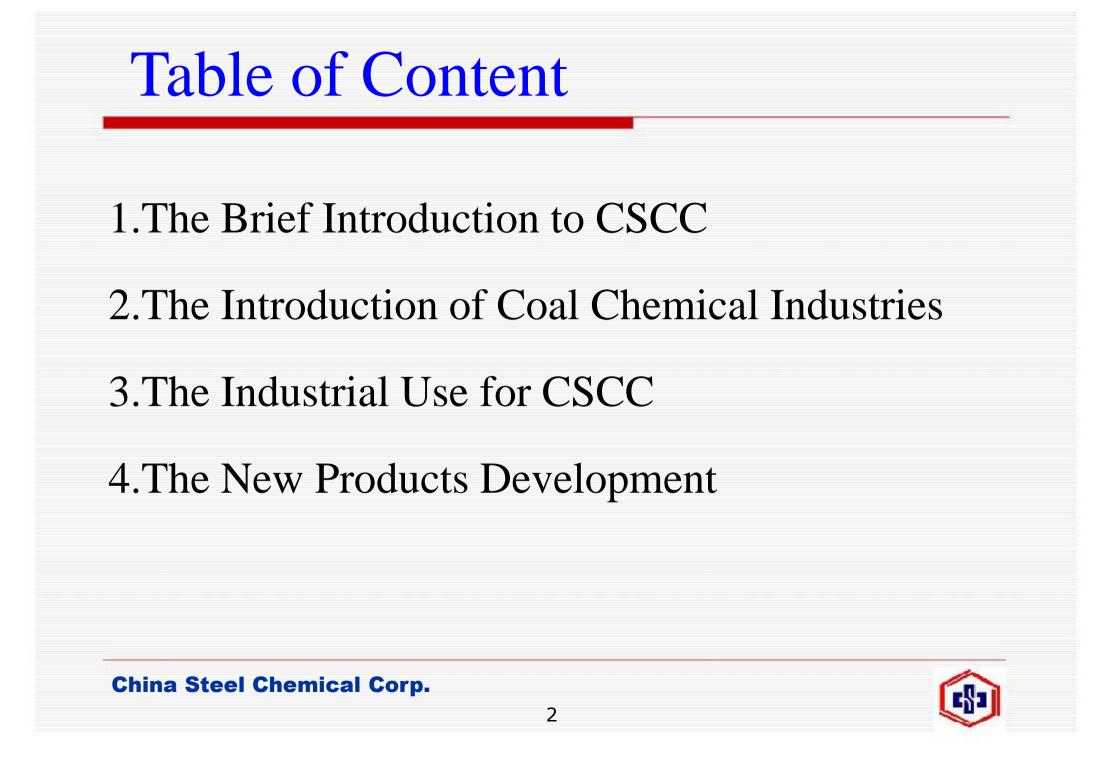
China Steel Chemical Corp.

March, 2020





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 2000 and 2001.

5.CSCC achieved OHSAS 18001 certification during 2001~2008.

6.CSCC achieved CNLA in April, 2002. And granted authentication in April 2005 and November, 2008.

7.Refined Naphthalene Unit expansion completed in April 2009.

8. The capacity 1,400 MT/YR of Green Mesophase Powder Plant completed in January 2010.

9. The Light Oil Distillation plant phase 2 completed in April 2010.

10.The line G5/G6 of Green Mesophase Powder Plant reaching capacity to 2,600 MT/YR completed during the third quarter 2011.

11.The line G1N/G2N of Green Mesophase Powder Plant reaching capacity to 5,000 MT/YR completed by the end of 2012.



The Structure of Shareholder

	unit · pe	I thousand stocks
Major shareholder	Shares	Percentages
China Steel Corp.	68,787	29.04%
HSBC Hosts Matthews Asia Dividend Fund Investment Account	15,589	6.58%
International CSRC Investment Holdings Co., Ltd.	11,759	4.96%
Fubon Life Insurance Co., Ltd.	12,159	5.13%
Ever Wealthy International Corp.	4,754	2.10%
As of : Apr., 2019		•

China Steel Chemical Corp.



unit : per thousand stocks

Table of academic degree in CSCC's employees

Academic Degree	No.	Percentages
Ph.D.	8	3%
Master's Degree	84	28%
Bachelor's Degree	143	47%
Junior College and Senior High School	67	22%
Total	302	100%

As of : Mar., 2020



Unit: NT\$ thousands

2018	01	02	03	04	05	06	07	08	09	10	11	12	Total
Revenue	708,454	583,994	720,069	675,634	678,831	664,972	743,662	779,066	793,703	754,445	768,359	688,930	8,559,970
Operating Income	156,645	111,915	152,960	139,986	145,933	133,353	169,181	174,206	157,365	135,629	156,050	143,032	1,776,255
Net income before tax	149,252	133,860	135,791	146,578	169,513	150,865	163,175	184,811	192,252	160,260	147,542	151,768	1,885,667
WTI Oil Price	64	62	63	66	70	67	71	68	70	71	56	49	65
2019	01	02	03	04	05	06	07	08	09	10	11	12	Total
Revenue	689,967	584,475	744,685	631,257	648,487	586,009	758,858	712,468	687,702	607,351	377,379	513,352	7,541,990
Operating Income	154,816	117,582	157,996	137,680	122,028	106,951	154,404	146,911	145,296	116,123	26,297	56,309	1,442,393
Net income before tax	167,368	126,085	184,027	147,816	141,191	117,374	164,915	156,459	180,478	106,054	31,554	72,004	1,595,325
WTI Oil Price	51	55	58	64	61	55	57	55	57	54	57	60	57
2020	01	02	03	04	05	06	07	08	09	10	11	12	Total
Revenue	554,160	518,292											1,072,452
Operating Income	101,421	69,825											171,246
Net income before tax	109,439	73,576											183,015
WTI Oil Price	58	51											54

* The announcement of 2020 is based on self-reported consolidated net income before tax.



Unit: NT\$ millions

	2015	2016	2017	2018	2019	2020/ 1~2
Revenue	5,737	5,143	6,242	8,560	7,542	1,072*
Net income after tax	1,239	1,038	1,207	1,516	1,595	183*
EPS(NT\$)	5.37	4.45	5.00	6.50	5.57	

* The announcement is based on self-reported	2016 2				20	17 2018			2019									
consolidated net income	EPS	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	
before tax.		1.02	1.04	1.10	1.29	1.14	1.16	1.31	1.39	1.40	1.63	1.92	1.55	1.68	1.45	1.78	0.66	

7



unit : metric tons

Period Input	2015 2016		2017	2017 2018		2020/1~2
Coal Tar	257,506	258,193	253,172	257,637	255,066	44,529
Light Oil	100,219	94,834	100,590	117,102	124,062	20,686



Dividend Payout

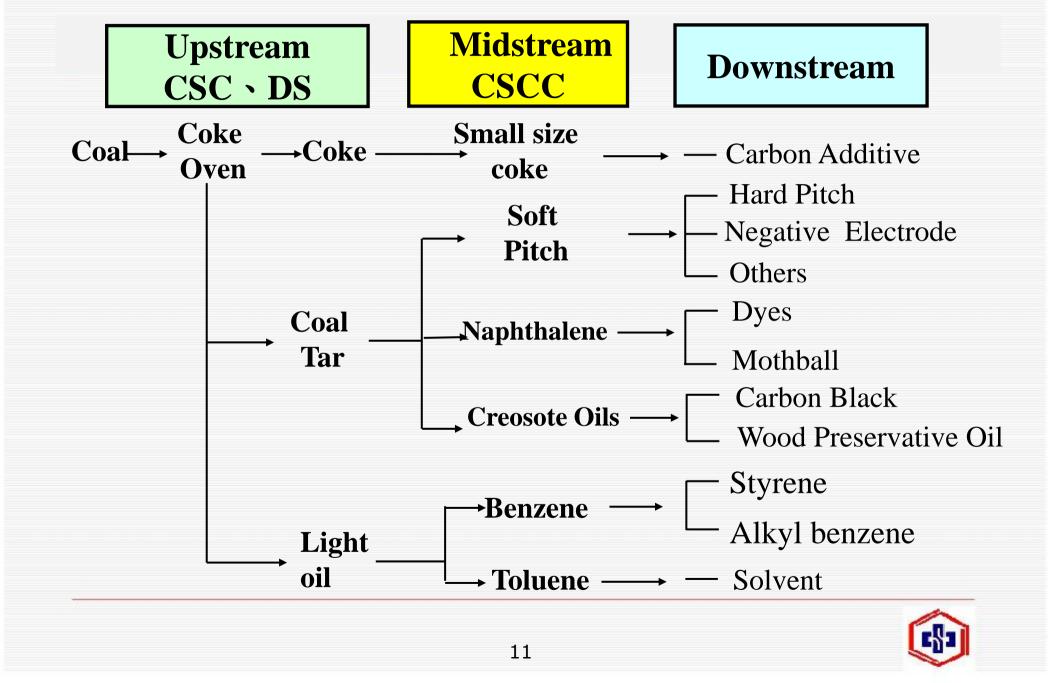
	2013	2014	2015	2016	2017	2018	2019
EPS	9.6	9.5	5.37	4.45	5.0	6.5	5.57
Cash Div.	8.3	8.3	4.5	4.5	4.6	5.3	5.0
Stock Div.	0	0	0	0	0	0	0

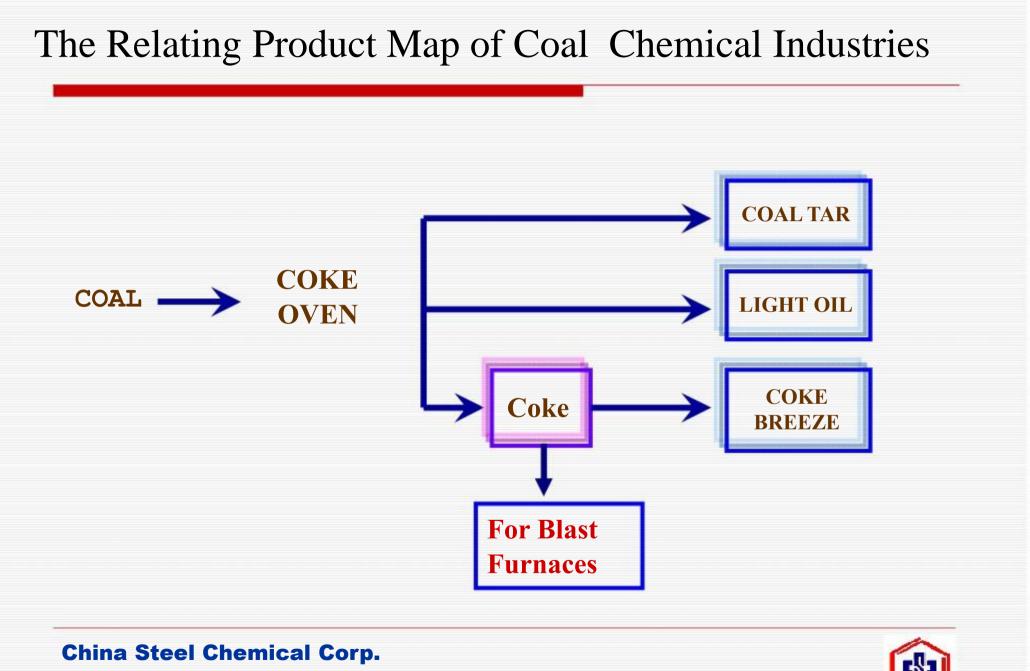


Sales Revenue breakdown by products

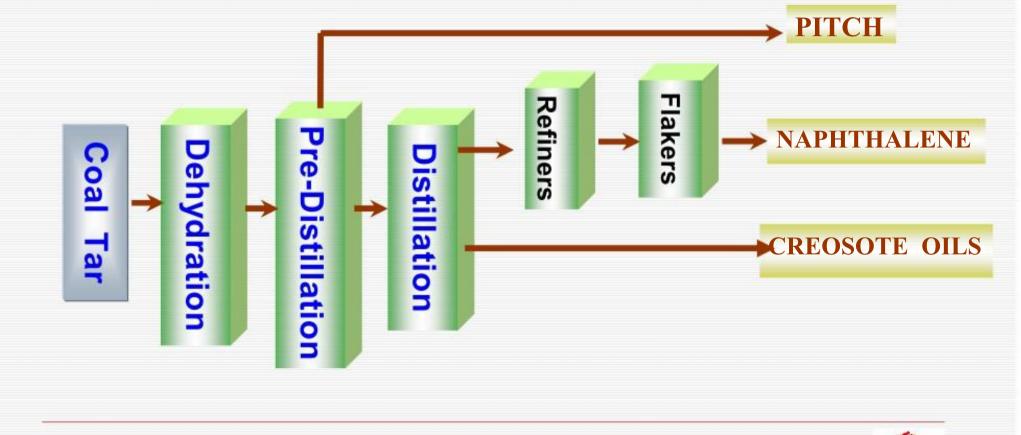
	2018	2019/1Q	2019/2Q	2019/3Q	2019/4Q	2019	2020/1~2
Light Oil	29%	26%	29%	30%	33%	29%	36%
Benzene	25%	21%	24%	25%	28%	24%	30%
Coal Tar	44%	50%	44%	48%	39%	47%	43%
Creosote Oils	21%	28%	29%	25%	25%	26%	28%
Soft Pitch	15%	13%	6%	17%	7%	12%	9%
Naphthalene	7%	7%	7%	5%	6%	7%	6%
Carbon Material	8%	6%	6%	6%	3%	5%	4%
Coke Breeze	8%	6%	8%	6%	8%	7%	7%
Trading	9%	11%	14%	9%	14%	11%	9%



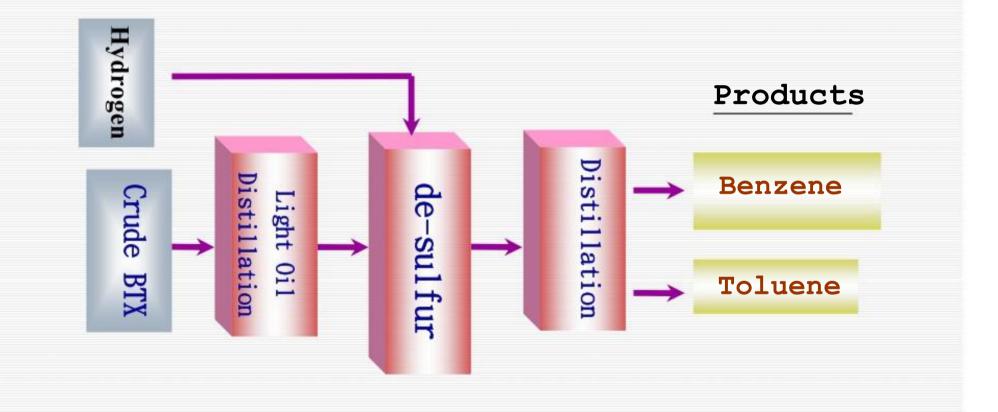




The Process of the Coal Tar Distillation Plant Products

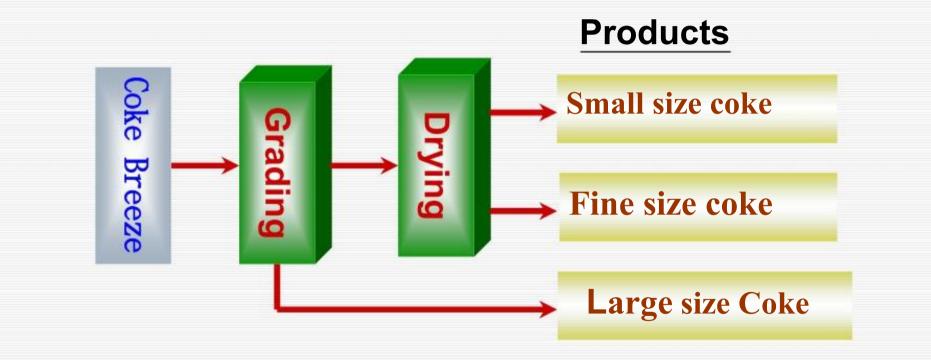


The Process of the Light Oil Distillation Plant

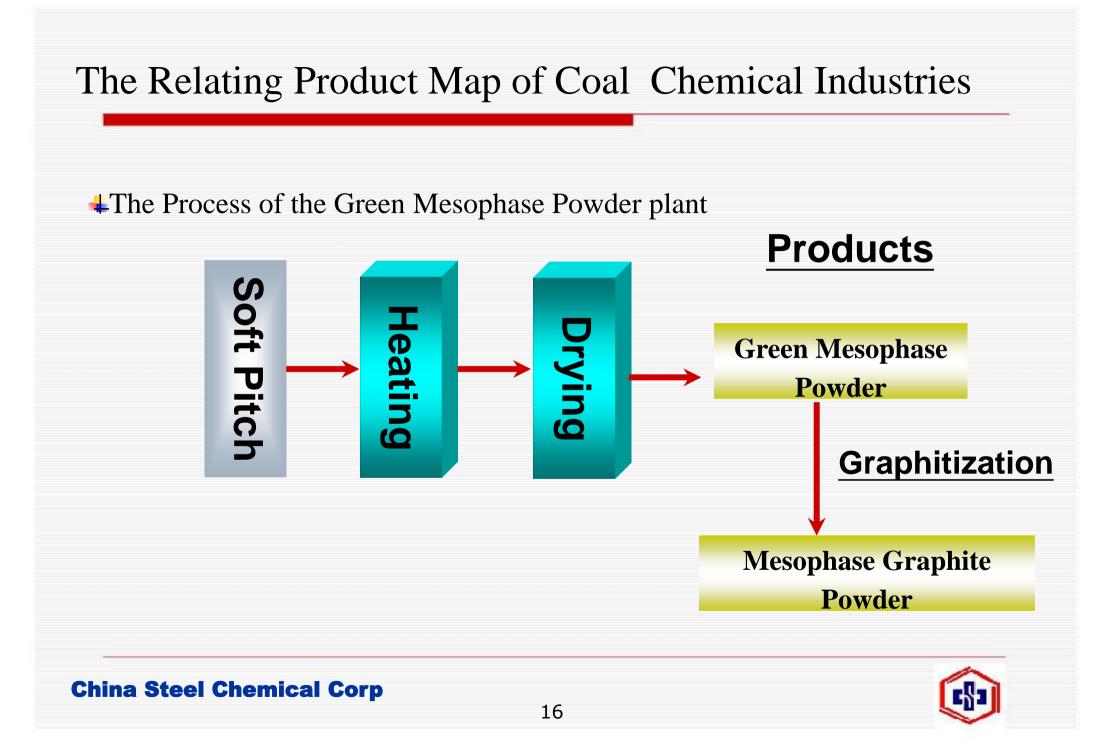




The Process of the Coke Breeze Plant

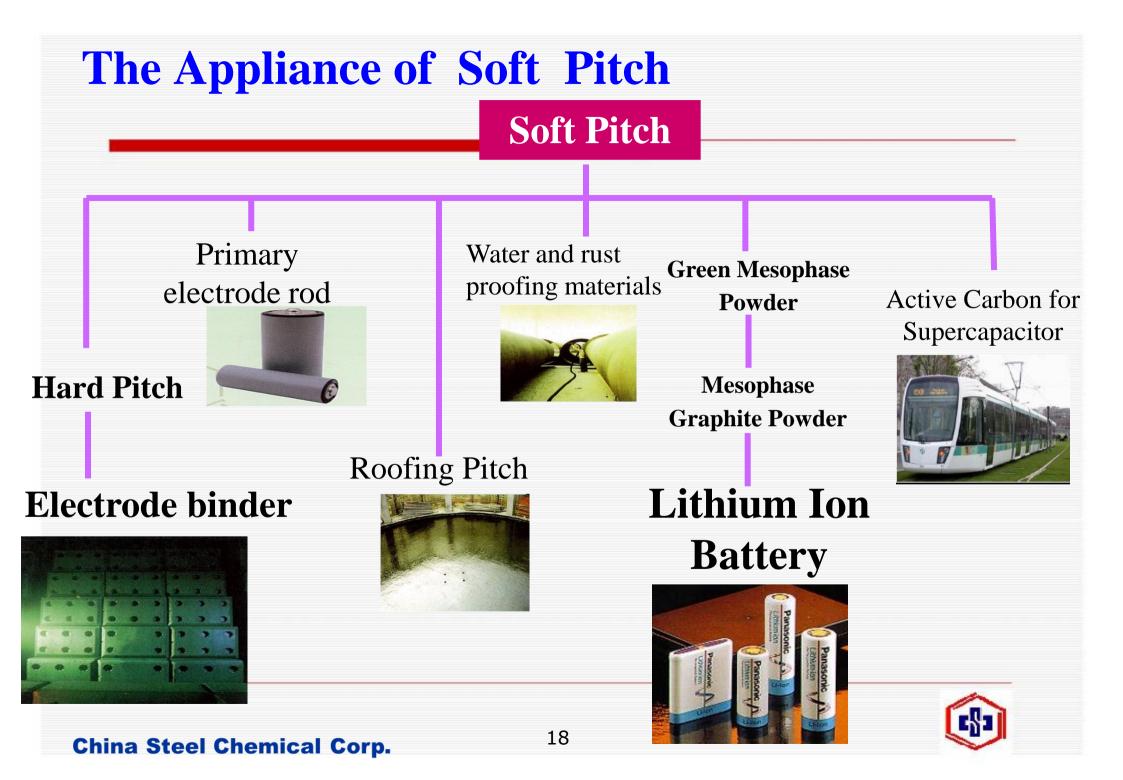


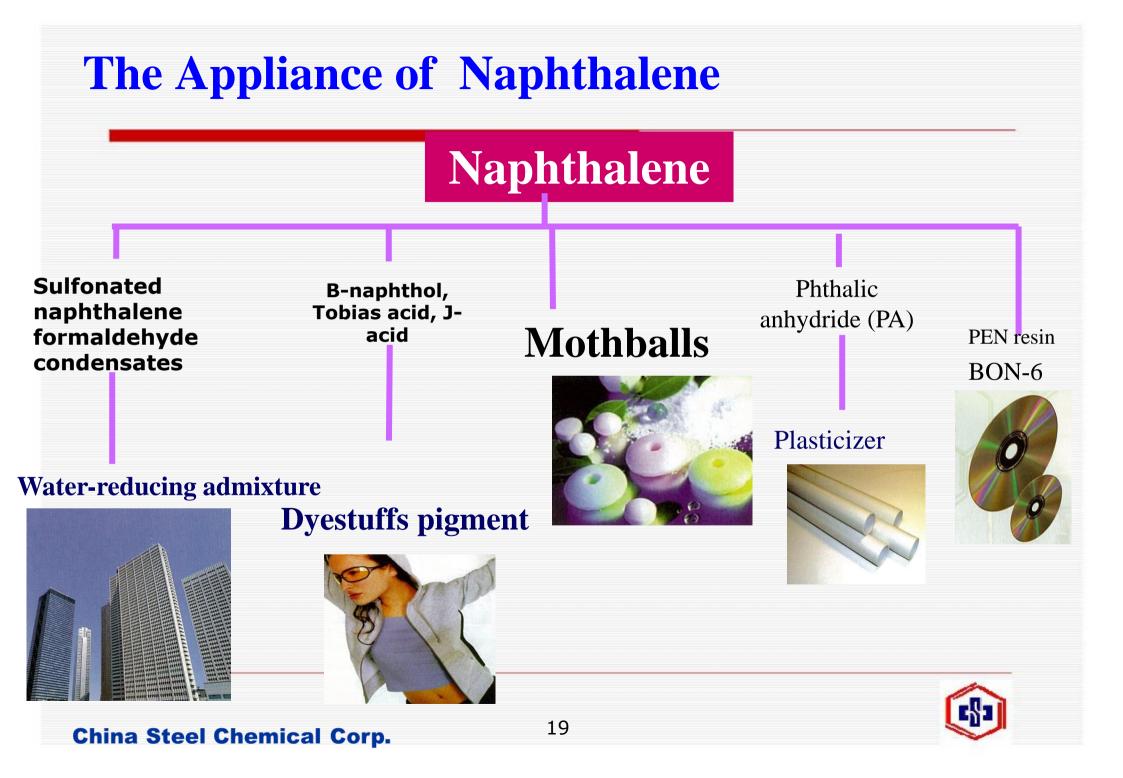


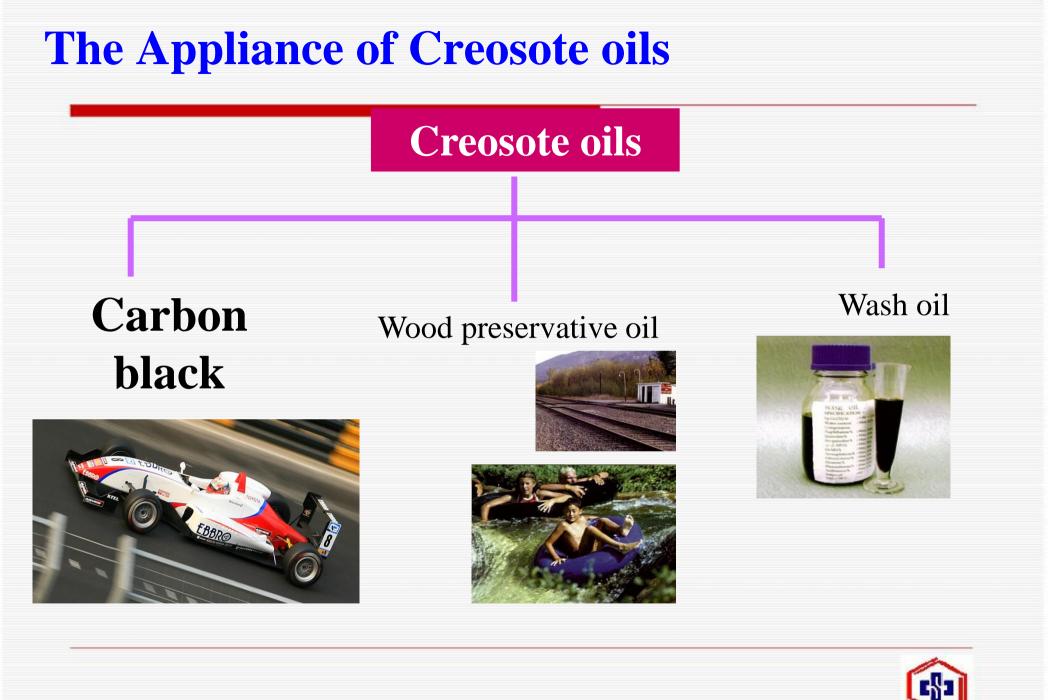


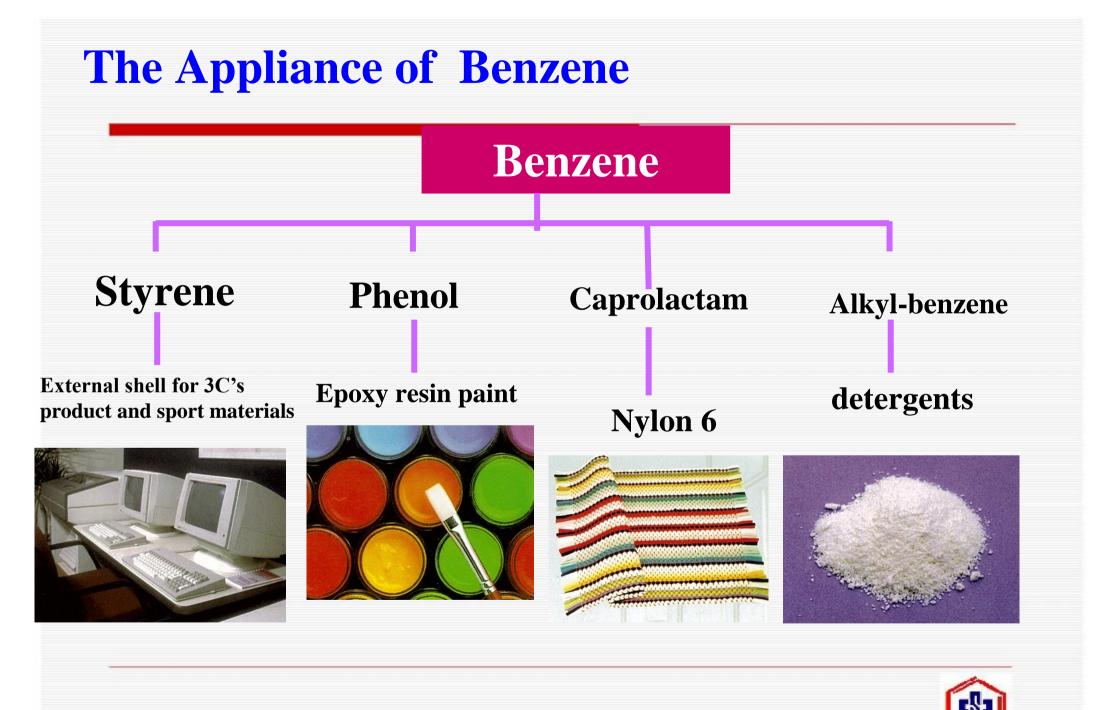
The Industrial Use for CSCC













New Products Development

- High Soft Point Pitch (HSP):utilized as wrapping materials to cover carbon for Li-ion Batteries anode or as binder material for fireproofing material.
- ♣ High Soft Point Pitch is a special pitch which possesses a soft point higher than 260°C and have high fixed carbon ratio (ca. 80-85%). It is also utilized as carbon fiber precursor, because the production procedure of HSP is similar to the one of carbon fiber procedure.
- A Nowadays, the pre-launch sample is provided to customers for testing as wrapping material for Li-ion batteries anode and fireproofing material. Mass production process design had been completed and evaluation of mass product line will be made after market expands.

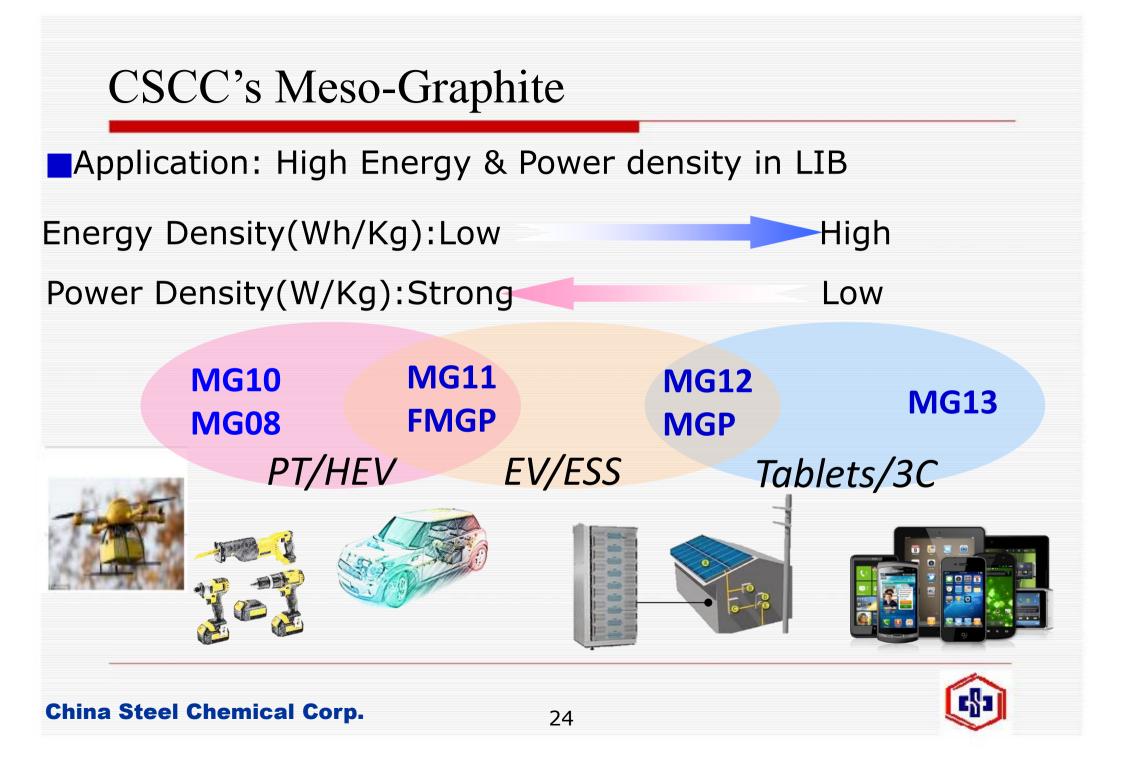


New Products Development

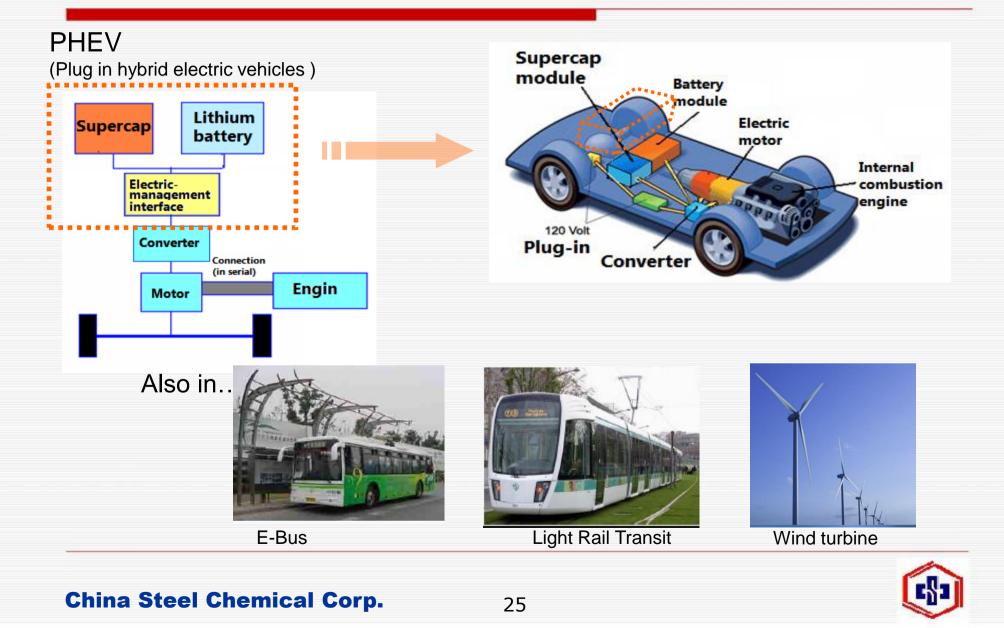
The quality of AC is great as Japan leading brand. The AC has already been sold worldwide.

Due to the expansion of Li-ion batteries anode material, establishing graphitizing factory is planning. Studying abroad techniques of graphitization, evaluation of inductive graphitizing furnace and mass production plan are progressing.





Applications of Supercapacitors



Introduction of Advanced Lead-Acid Battery

Advanced Lead-Acid Battery

Disadvantages

only around 70%

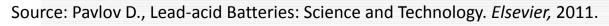
materials (Pb, Acid)

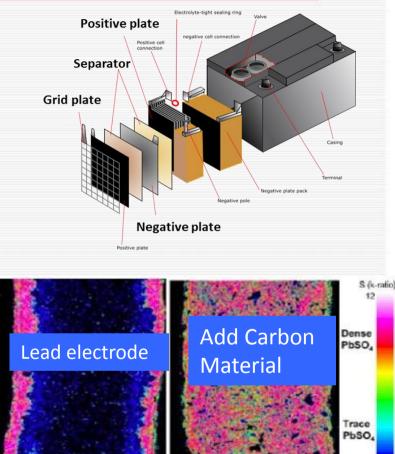
Unfriendly environmental

•Typical charging efficiency

Advantages

- Lower costs
- •High battery recycling
- High ambient tolerance
- Low amount of
- maintenance
- Extending the life of LABLarge current capability
- Advantages of addition activated carbon into LAB
- 1. Increasing conductivity
- 2. Improving the uniformity of Pb/PbSO₄
- 3. Capacitance effect
- 4. Adsorption of sulfuric acid, suppling of electrolyte in the plate nearly.





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.

500 µm

Carbon Additio





Thank You

