



Your True Partner
Chunbo Co., Ltd.

2022 2Q Investor Relations

August 18, 2022



Disclaimer

The financial information in this document are consolidated earnings results based on K-IFRS.

This document is provided for the convenience of investors only, before the external review on our Q2 2022 financial results is completed. The external review outcomes may cause some parts of this document to change.

This document contains "forward-looking statements" -that is, statements related to future, not past, events.

In this context, "forward-looking statements" often address our expected future business and financial performance, and often contain words such as "expects", "forecast", "anticipates", "intends", "plans", "believes", "seeks" or "will". "Forward-looking statements" by their nature address matters that are, to different degrees, uncertain.

The uncertainties may cause our actual results to be materially different from those expressed in this document.

Company Status

Summary

Company Name	Cheonbo Co., Ltd.
Establish	Oct 08, 2007
listing	February 11, 2019
Location	Chungju-si, Chungcheongbuk-do, Gunsan-si, Jeollabuk-do
History	<p>2008 Display Process Materials</p> <p>2009 Pharmaceutical Intermediates</p> <p>2011 Semiconductor process material</p> <p>2013 OLED common layer material</p> <p>2013 Secondary Battery Electrolyte Additive</p> <p>2016 Secondary Battery Lithium Salts</p> <p>2017 Established a local subsidiary in China</p> <p>2021 Venture Company Reselection</p> <p>2022 Appointed as the leading company in materials, parts and equipment</p> <p>2022 Saemangeum plant construction begins</p>

CEO Profile



Lee Sang-yul (CEO)

- Development of semiconductor process chemicals
- First localization of display etching materials
- Commercialization of LiFSI for the first time in the world

2022. Awarded Gold Tower Order of Industrial Service Merit

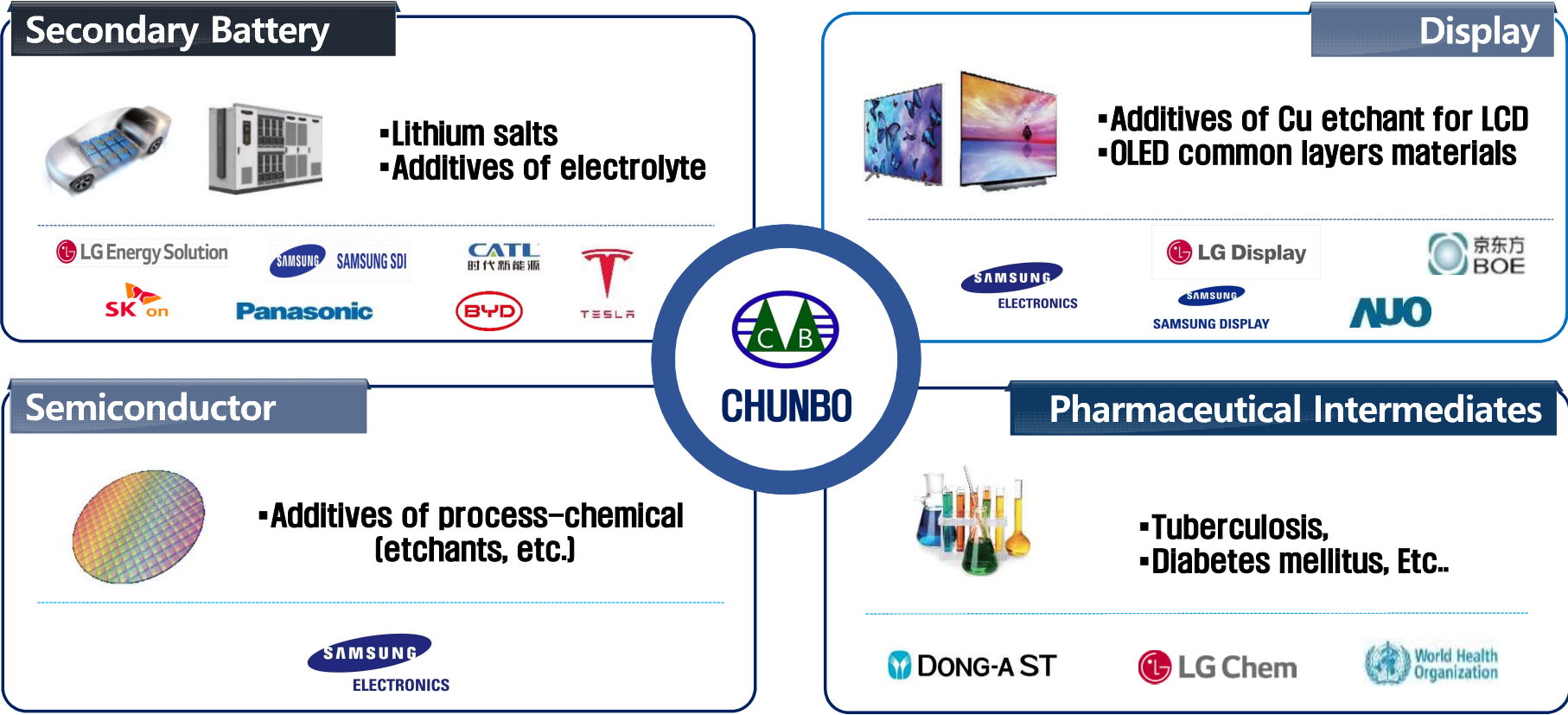
2007. Established Chunbo Co., Ltd.

1997. Established Chunbo Fine Chemical Co., Ltd.

1992. Researcher, OCI Central R&D Center

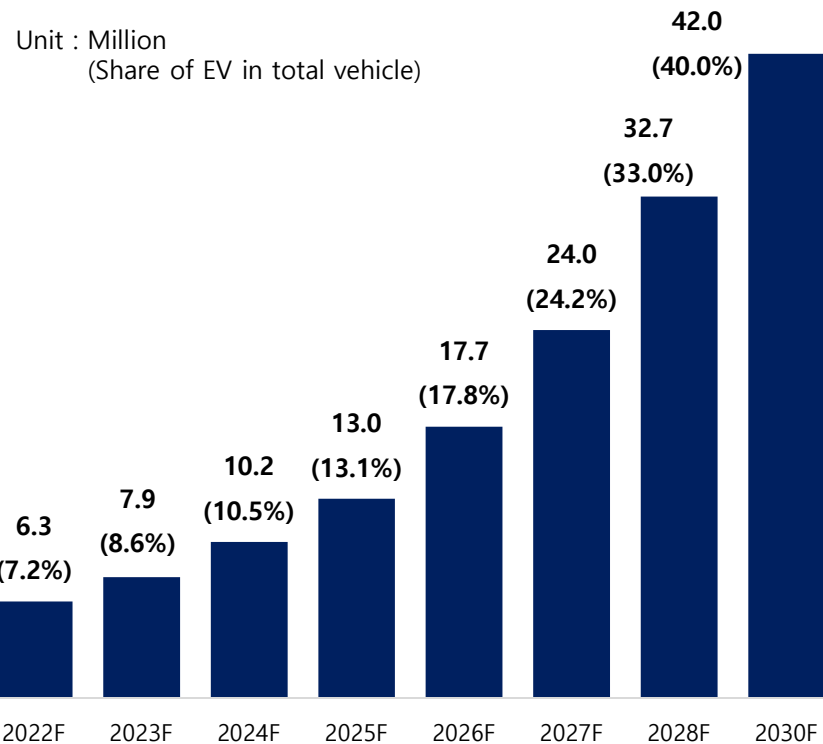
1993. Master of Chemical Engineering, Hanyang University

Business positioning

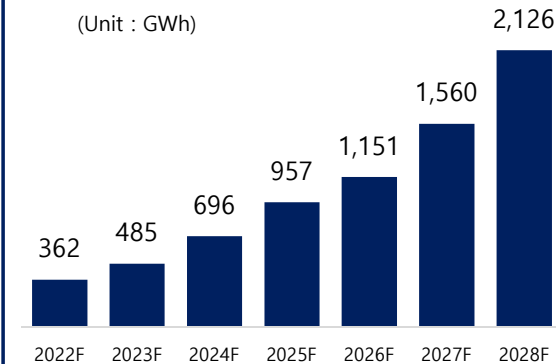


Lithium-ion Secondary Battery

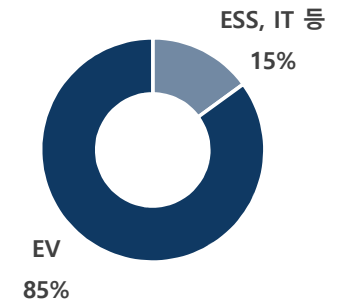
Electric vehicle(EV) market outlook



Battery market outlook for Electric Vehicle(EV)



LIB's EV Share Forecast (2030)



2030 : EV 60% target
2035 : To ban the sale of internal combustion engines



2030 : EV 50% target
2030 : Target to build 500,000 charging stations



Mandatory EV production share (2023 : 18%)
2035 : To ban the sale of internal combustion engines

* Source : SNE Research, EV volumes. IHS

Lithium-ion Secondary Battery

On Sale

LiFSI (F)

Improved safety and cycle number, suppressed discharge at low temperature of batteries

LiPO₂F₂ (P)

Improved cycle number, high power, and shortened charging time of batteries

LiDFOP (D)

Improved cycle number, high power, and shortened charging time of batteries

LiBOB (B)

Improved high power and instantaneous power boost

TMSB

Suppression of side reactions during high voltage charging
Reduce the increase in the cathode film resistance

SN

Suppression of side reactions during high voltage charging
Anode gas generation suppression

**Large type(EV, ESS)
Secondary battery**



Lithium-ion Secondary Battery

To be released

Unit : Metric ton/year

Item	Characteristic	Factory completed	Capacity			Site
			2023	2024	2025	
TDT	Improved safety and cycle number	2022.4Q	200	600	800	Gunsan
FEC	Reduced interfacial resistance, Conductivity improvement	2023.1Q	3,000	3,000	6,000	Gunsan
VC	Improved safety and cycle number, Heat deterioration suppression	2023.1Q	2,000	4,000	6,000	Gunsan
ESA	Suppression of anode surface decomposition, reducing interfacial resistance	2023.3Q	500	1,000	1,500	Gunsan
FA	Suppression of internal gas generation	2024.1Q	0	2,000	4,000	Gunsan
WCA-6 (22% Solution)	Improved cycle number, high power, and shortened charging time of batteries	2023.4Q	1,200	1,200	1,200	Chungju
PS	Suppression of side reactions occurring at the cathode during high-temperature storage and improvement of high-temperature storage characteristics	2023.3Q	500	500	1,000	Chungju
PRS	Suppression of internal gas generation	2023.3Q	100	100	200	Chungju
PIC	Suppression of cathode surface decomposition, improved high-temperature performance	2023.1Q	30	100	200	Chungju

Lithium-ion Secondary Battery

R&D Items

Item	Characteristic	To be marketed
Dry binder	Dry process essential material	2024.1Q
CNT Slurry	Anode additive	2025.1Q

Lithium-ion Secondary Battery

Li electrolyte materials (Lithium Salts) CAPA Plan

Unit : Metric ton/year

Description	Current	2022 (P)	2023 (P)	2024 (P)	2025 (P)	12/31/2025 CAPA (E)
LiFSI (F)	1,000		5,000	5,000	10,000	21,000
LiPO ₂ F ₂ (P)	2,000	1,000		1,000	1,000	5,000
LiDFOP (D) (22% Solution)	1,200					1,200
LiBOB (B)	500			500		1,000
TDT		200		400	200	800
FEC			3,000		3,000	6,000
VC			2,000	2,000	2,000	6,000
SUB Total	4,700	1,200	10,000	8,900	16,200	41,000

Lithium-ion Secondary Battery

Li electrolyte materials (Additives) CAPA Plan

Unit : Metric ton/year

Description	Current	2022 (P)	2023 (P)	2024 (P)	2025 (P)	12/31/2025 CAPA (E)
WCA-6 (22% Solution)			1,200			1,200
ESA			500	500	500	1,500
PS			500		500	1,000
PRS			100		100	200
PIC			30	70	100	200
FA				2,000	2,000	4,000
SUB Total			2,330	2,570	3,200	8,100
GRAND Total	4,700	1,200	12,330	11,470	19,400	49,100

Lithium-ion Secondary Battery

Target Market Expansion Strategy



Strategy 1. Utilization of overseas branches

- Strengthening the sales organization of the Chinese branch
- Establishment of EU branch to secure supply base
- Established a US branch to secure a global supply base
- Established a joint venture in the United States (production and sales)

Strategy 2. Collaboration with customers

- Joint development and research with 3 domestic battery companies (Samsung, LG, SK)
- Long-term supply agreements, and item diversification with major customers on World-wide.

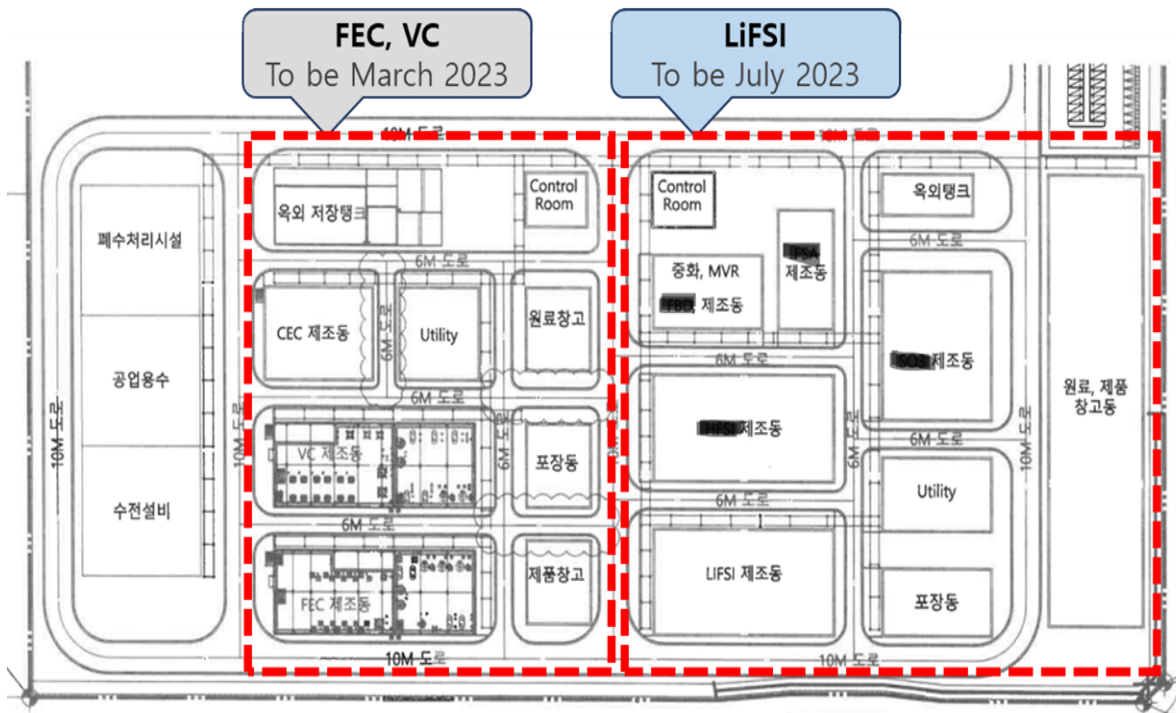
Strategy 3. Strengthen Product Competitiveness

- Optimize supply quantity and supply unit price required by customers
- Securing competitiveness with ultra-low cost compared to competitors
- Optimized quality assurance compared to competitors

Lithium-ion Secondary Battery

Saemangeum National Industrial Complex Plan
(Investment 600 Billion (Korean Won) ,
Employment 470 Persons)

- ▣ Land area : 205,336m²
- ▣ Item : LiFSI, FEC, VC

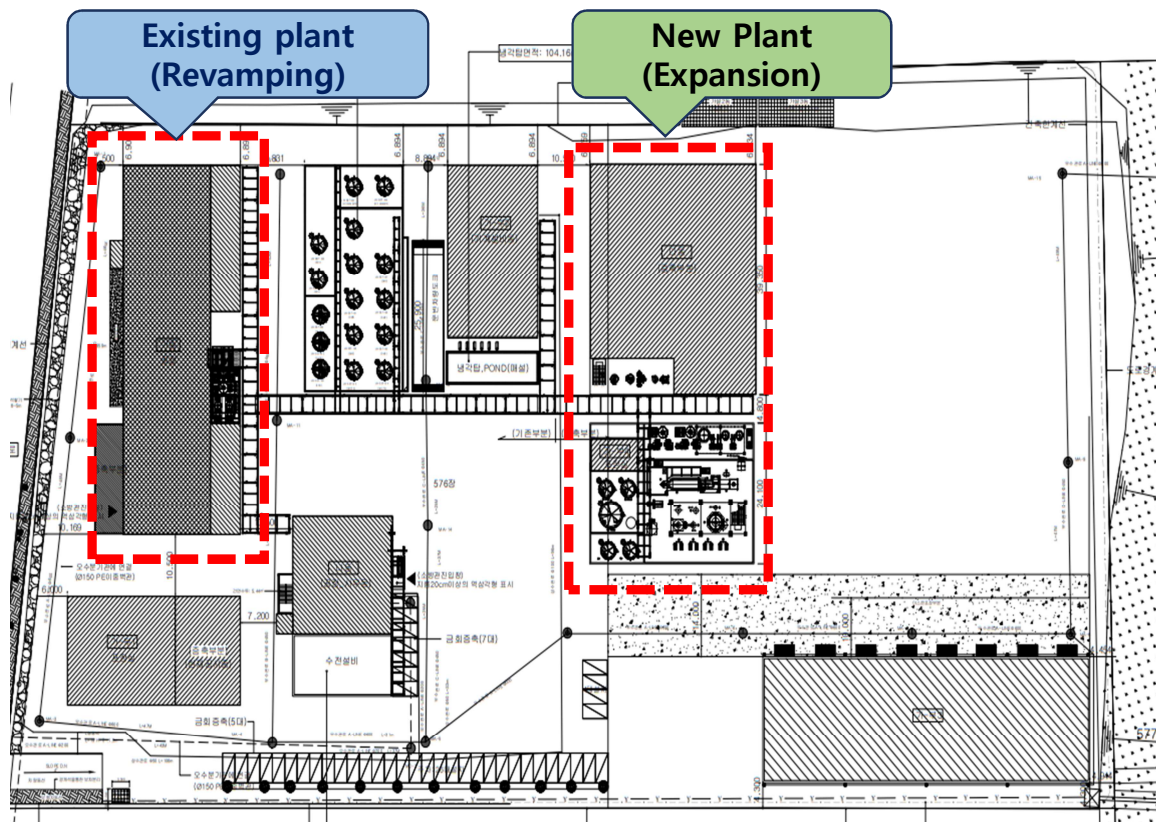


Projected site for Saemangeum(Gunsan) project



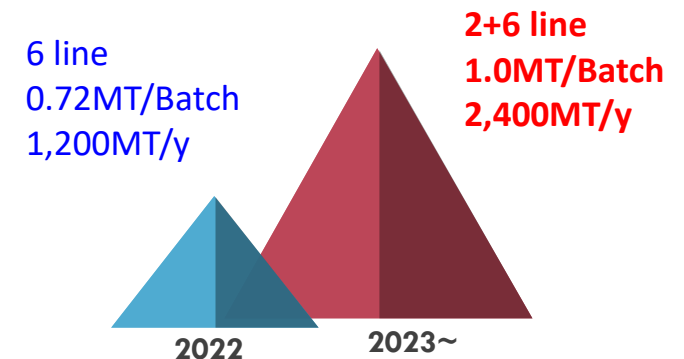
Lithium-ion Secondary Battery

■ Lithium difluoro phosphate (LiPO_2F_2)



Revamping of existing plant and expansion of new plant with innovative new manufacturing methods

- 57 billion (Korean Won) in facility investment
- 50 new hires
- To be Completed in **December 2022**



LCD Etching material

Role of LCD Etchant additive material

- Etching time adjustment
- Fine pattern formation
- Reduction of defective products

Global M/S
95%+

OLED material

- RED luminescent material (RS-85)
- Intermediate (BD-81, BD-83)
- Common layer material (H-369, H-668)
- Response to demand as an OLED producer
(collaboration from development to mass production)

Materials for semiconductor micropattern processing

Process
chemical

Etchant
additive

- Heat resistance
- Improved precision, Fine pattern formation
- Reduction of defective products

M/S **90%+**

Pharmaceutical Intermediates

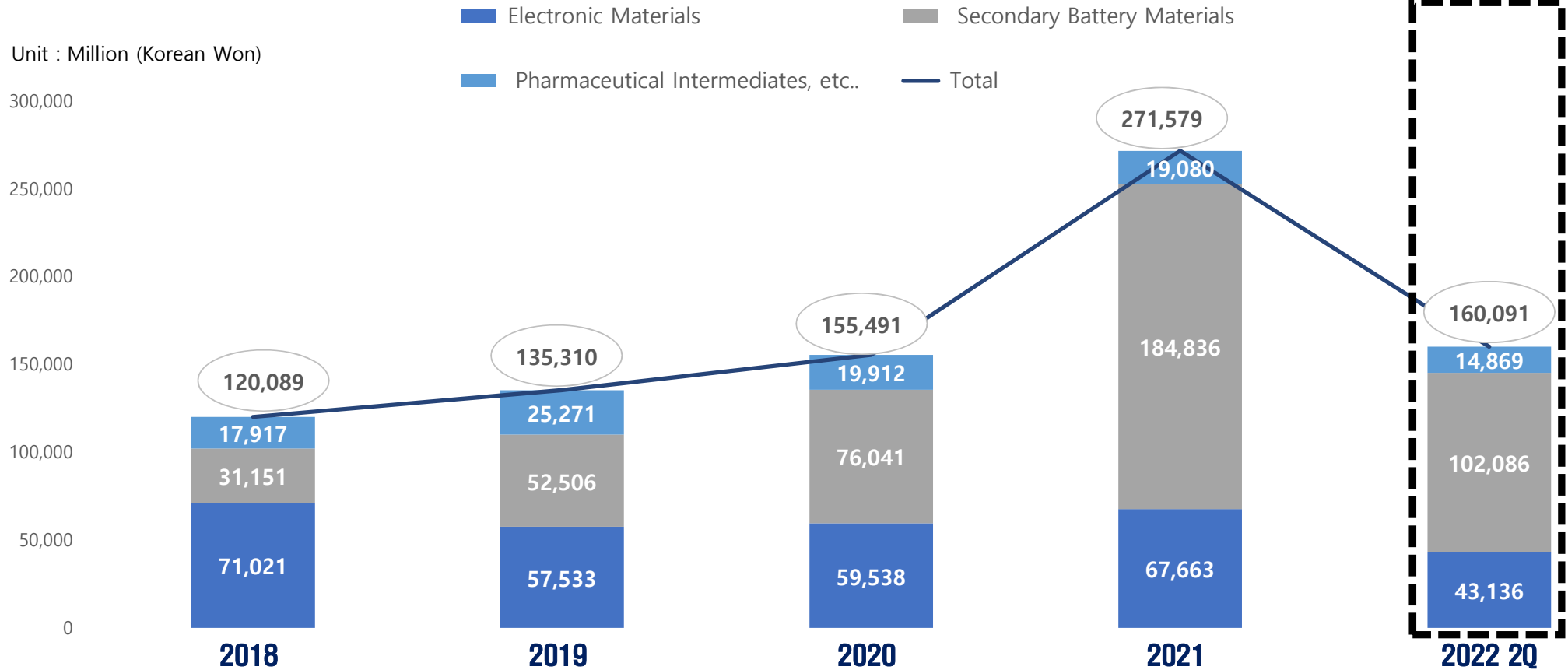
Tuberculosis

 **DONG-A ST**

Diabetes mellitus

 **LG Chem**

Consolidated Sales (ITEM)



Consolidated Financial Report

» CONSOLIDATED BALANCE SHEETS

Unit : Million (Korean Won)

Description	12/31/2020	12/31/2021	06/30/2022
CURRENT ASSETS	140,142	227,645	522,300
NON-CURRENT ASSETS	120,559	176,949	232,131
TOTAL ASSETS	260,701	404,594	754,431
CURRENT LIABILITIES	19,847	68,053	345,402
LONG-TERM LIABILITIES	16,304	30,486	30,067
TOTAL LIABILITIES	36,151	98,539	375,469
CAPITAL STOCK	5,060	5,060	5,060
CAPITAL SURPLUS	77,036	96,291	119,277
RETAINED EARNINGS	142,420	183,441	205,581
NON-CONTROLLING INTEREST	34	21,263	49,044
TOTAL STOCKHOLDERS' EQUITY	224,550	306,055	378,962

» CONSOLIDATED INCOME STATEMENTS

Unit : Million (Korean Won)

Description	2020/Year	2021/Year	2022/2Q
SALES	155,491	271,579	160,091
COST OF SALES	123,209	217,168	126,533
GROSS PROFIT	32,282	54,411	33,558
SELLING AND ADMINISTRATIVE EXPENSES	2,150	3,782	3,477
OPERATING INCOME	30,132	50,629	30,081
NON-OPERATING REVENUES	2,078	5,841	8,308
NON-OPERATING EXPENSES	1,882	1,527	6,217
INCOME BEFORE INCOME TAX EXPENSES	30,328	54,943	32,172
NET INCOME	27,371	48,015	27,892