



EcoPro BM

**Global Leading Company
in Rechargeable Battery Industry**

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This document has been prepared for the purpose of providing investors with information such as business prospects and management goals of EcoProBM. Exporting, copying, or redistribution of the document to others is prohibited.

The forward-looking information in this document relates to events in the future, not the past, and is inherently uncertain. Please note that the actual operating results of the company may not match the results of the company's actual business due to uncertainties such as fluctuations in the market environment and risks beyond the control of the company.

The financial information in this document has been prepared in accordance with Korean Accounting Standards (K-IFRS) and Korean Accounting Standards (K-GAAP). As this material has been prepared for the convenience of investors without being audited by an external auditor, some of the contents may change during the auditing process.

Lastly, this material is prepared as a reference for investors to make investment decisions. We do not provide any guarantees or assume any responsibility to investors with respect to the contents of this material.



EcoPro Overview

Stable Governance Structure for Reinforcement of Management Efficiency

* The share is as of June 30, 2021

EcoPro

Founded	`98. Oct
Main biz.	Holding company

Battery material businesses

EcoPro^{BM}

Founded	`16. May
Main biz.	Cathode materials
Sales('20)	KRW 855.2 bn
Shares of Ecopro	48.1%

EcoPro^{EM} (JV with SDI)

Founded	`20. Feb
Main biz.	NCA Cathode materials
SOP	22. 1Q
Shares of EcoproBM	60.0%

EcoPro^{GEM}

Founded	`17. Apr
Main biz.	Precursor for LiB
Sales('20)	KRW 216.7 bn
Shares of Ecopro	58.3%

EcoPro^{Innovation}

Founded	`05. Jul
Main biz.	Lithium sourcing/processing
Sales('20)	KRW 12.9 bn
Shares of Ecopro	96.7%

EcoPro^{CnG}

Founded	`20. Mar
Main biz.	Battery scrap recycling
SOP	`21.2Q
Shares of Ecopro	45.1%

EcoPro^{AP}

Founded	`19. Nov
Main biz.	Oxygen/Nitrogen production
SOP	`21.4Q
Shares of Ecopro	90.4%

Other businesses

EcoPro^{HN}

Founded	`21. May
Main biz.	Noxious/Greenhousegas control
Shares of Ecopro	1.0%

iSQUARE VENTURES

Founded	`20. Aug
Main biz.	Investment to start-up
Capital	KRW 5 bn
Shares of Ecopro	45.0%

EcoLogistics

Founded	`21. Apr
Main biz.	Freight and logistics services
Shares of Ecopro	100.0%

Main Products

Unrivalled Advanced NCM(CSG) & Expansion of NCA model for EVs

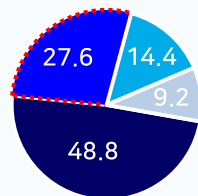
NCA Series

Nickel Cobalt Aluminum

Second-largest share in the NCA cathode market

- Commercialization of High-Nickel NCA for the first time in Korea ('08)

- Sumitomo
- EcoproBM
- BTBM
- Others



* Fuji Keizai 2020

Continuous growth in Non-IT, Rapid growth in xEVs

- Joint venture with Samsung SDI('20. Feb)
 - Constructed CAM6 factory for 30,000ton/yr ('20.09)
- Mass production of High-nickel NCA Cathode for EV('22)



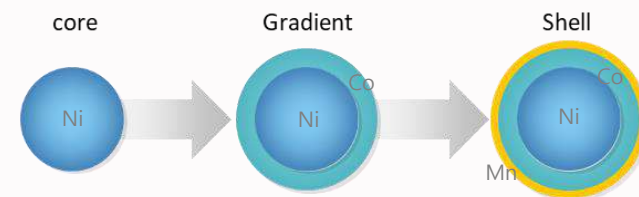
Non-IT(Power applications) to EV

CSG (NCM811)

Nickel Cobalt Manganese

The world's first commercialization of CSG for EV('16)

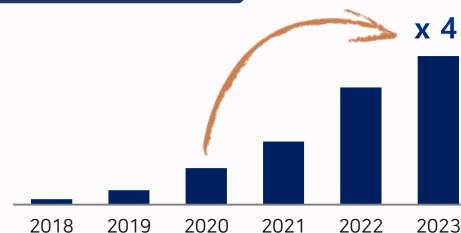
- High energy density with increased battery life & safety



High increase in sales with EV market growth

- LTA worth KRW 2.7trillion with SK Innovation for 4 years
- Extension of NCM811 battery operated EV

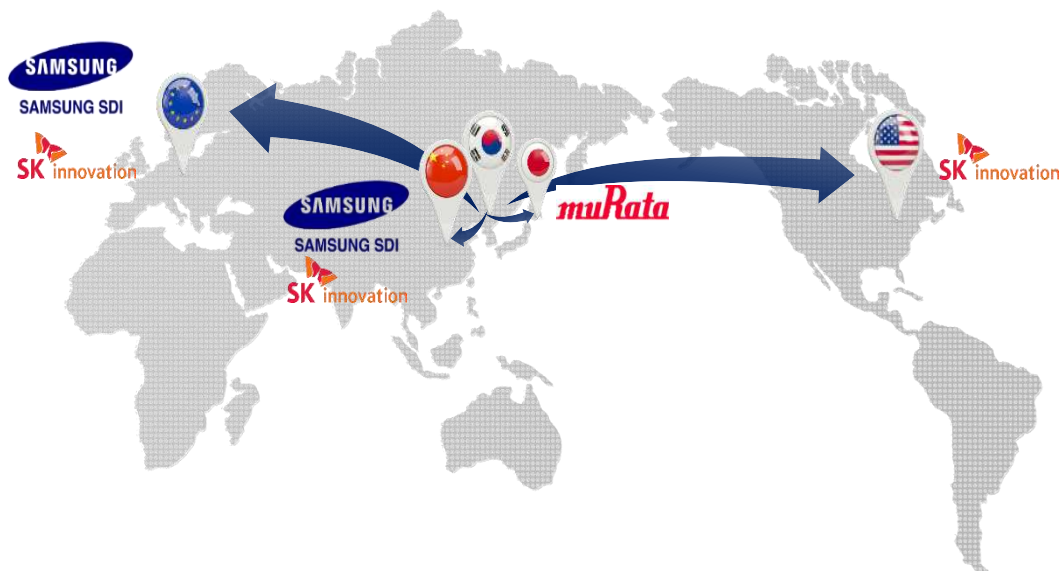
CSG Shipment Trend



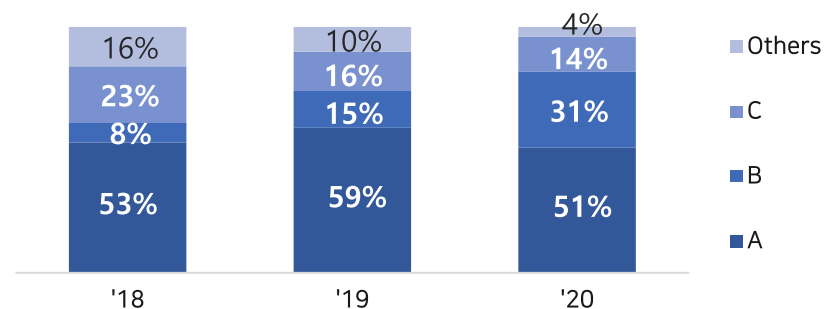
Sales Network

Settled sales network based on Global Top-tier battery cell makers

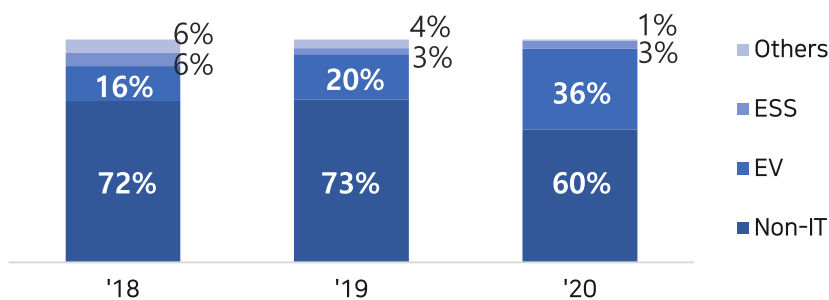
Global Sales Network



Customers share



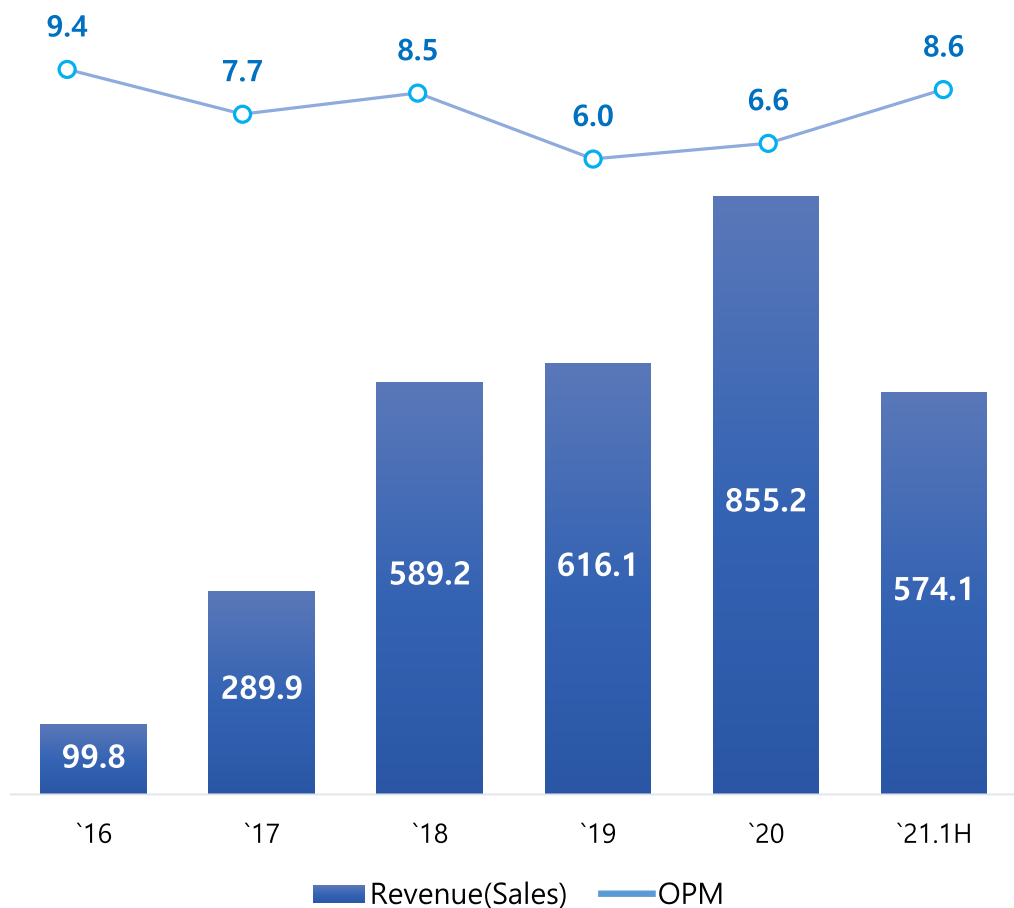
Application share



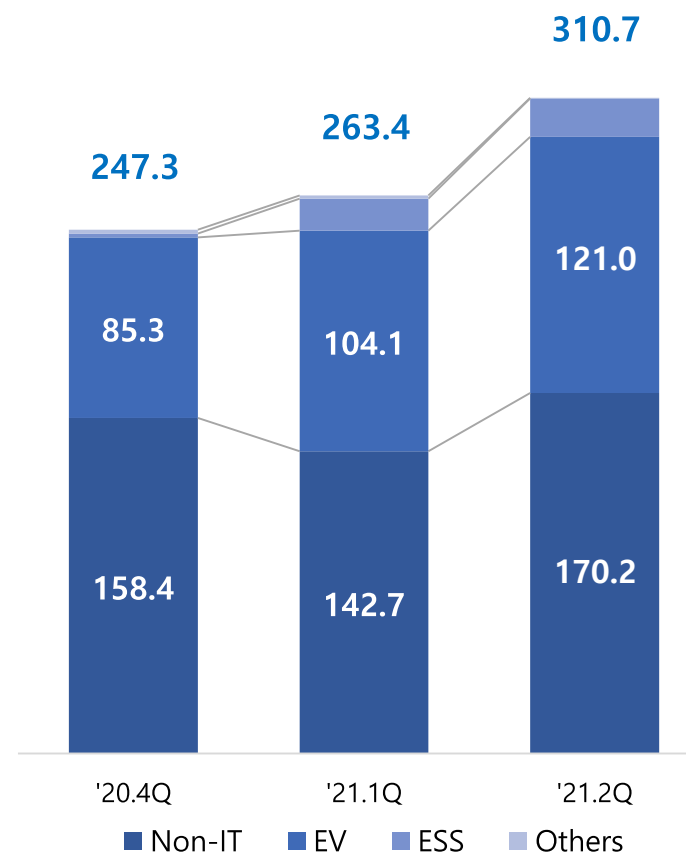
Revenue Trend

 The overall growth trends will be continued in 2021

Revenue and OPM by Years (KRW bn, %)



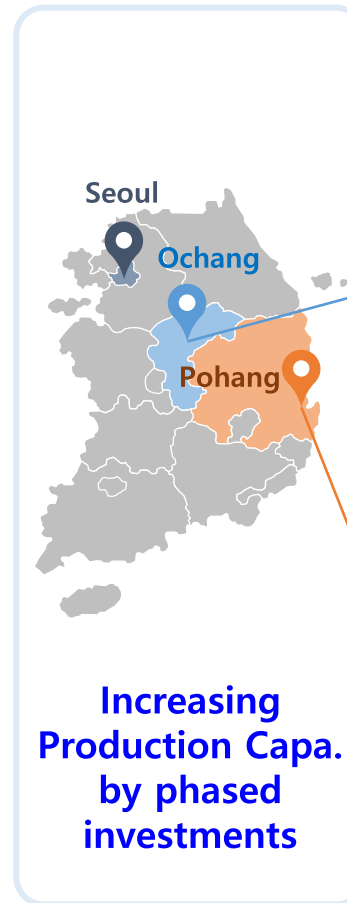
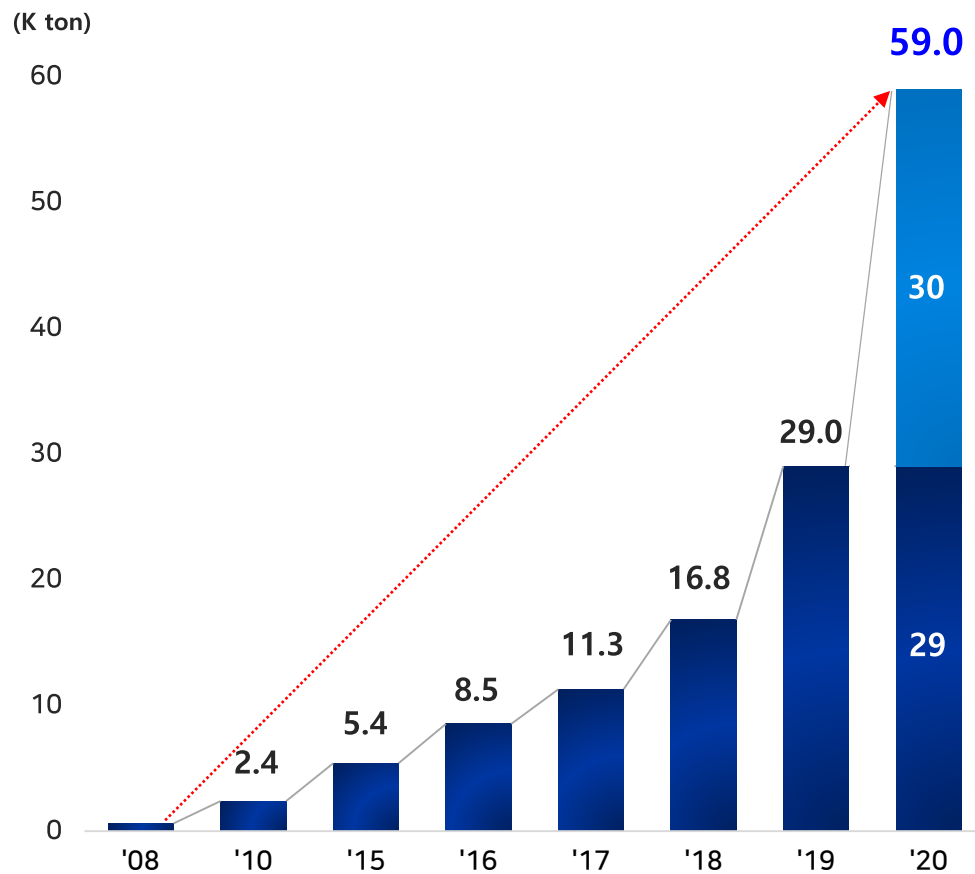
Product Share by Quarter (KRW bn)



Production Capacity

Expansion of production efficiency through Mass production system for EV Cathodes

Production Capacity Trend



HQ / Ochang factory(CAM1~4)



Pohang factory (CAM5)



Investment Status

Cathode material businesses

EcoPro_{BM}

- CAM5
 - #1 Line(NCM) : in production
 - #2 Line(NCM) : Starting production in 3Q21
 - #3 Line(NCA) : in production
- CAM5N
 - Construction starts in 2Q21
 - #1 Line(NCM) : Starting production in 1Q23
 - #2 Line(NCM) : Starting production in 2Q23

EcoPro_{EM} (SamsungSDI JV)

- CAM6 : Starting production in 1Q22
- CAM7 : Construction starts in 2Q21, starting production in 1Q23

Precursor businesses, etc.

EcoPro_{GEM}

- Sulfuration (MHP) process : Starting production in 3Q21
- Precursor Plant 2 : Construction starts in 2Q21, starting production in 2Q22

EcoPro_{Innovation}

- LH conversion: starting production in 4Q21

EcoPro_{CnG}

* MCP : Metal Composite Precipitate
* LS : Lithium Sulfate

- Black powder : Starting production in 3Q21
- MCP, LS (Wet materials): Starting production in 4Q21

EcoPro_{AP}

- Oxygen, Nitrogen: Starting production in 4Q21

R&D Roadmap

 A product portfolio with core competitiveness, responding to various market demands

Core Technologies

- ① High energy density, ② Long cycle life, ③ Low cost
→ Cobalt-Free, Single crystal, Li-rich ...

- High Nickel : 80~90%→94~98%
- Li-rich Cathode, Mn-rich Cathode

High Energy Density

No.1
Cathode
Competitiveness

Low Cost

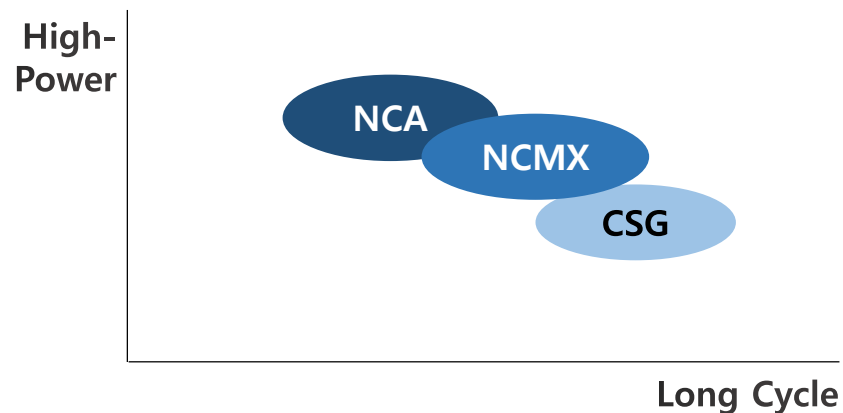
- Co-free
- Process Innovation

Long Cycle Life

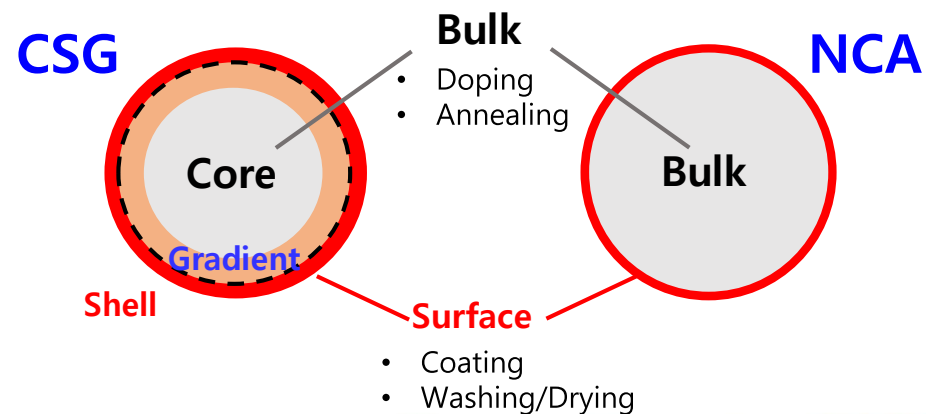
- Single crystal
- Multi-coating

Portfolio

EcoproBM's Cathode



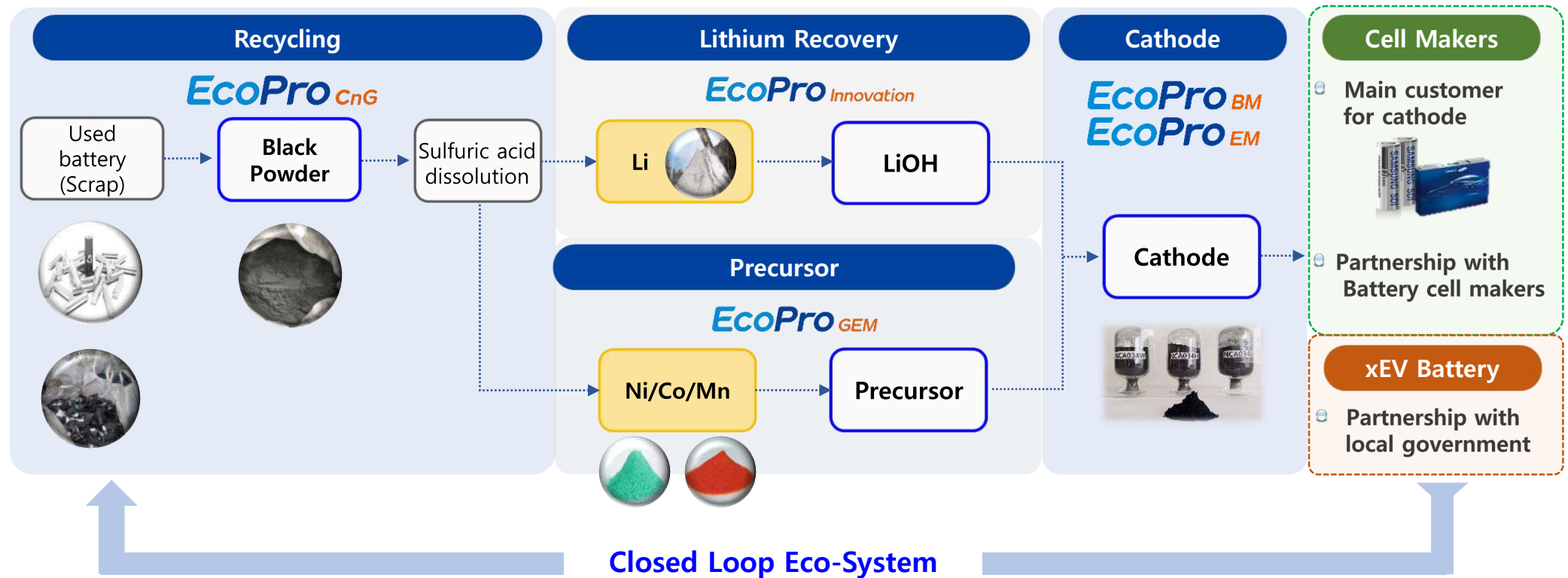
Our technologies



Cost Competitiveness

■ Integrated production system from raw materials to precursor, cathode through recycling

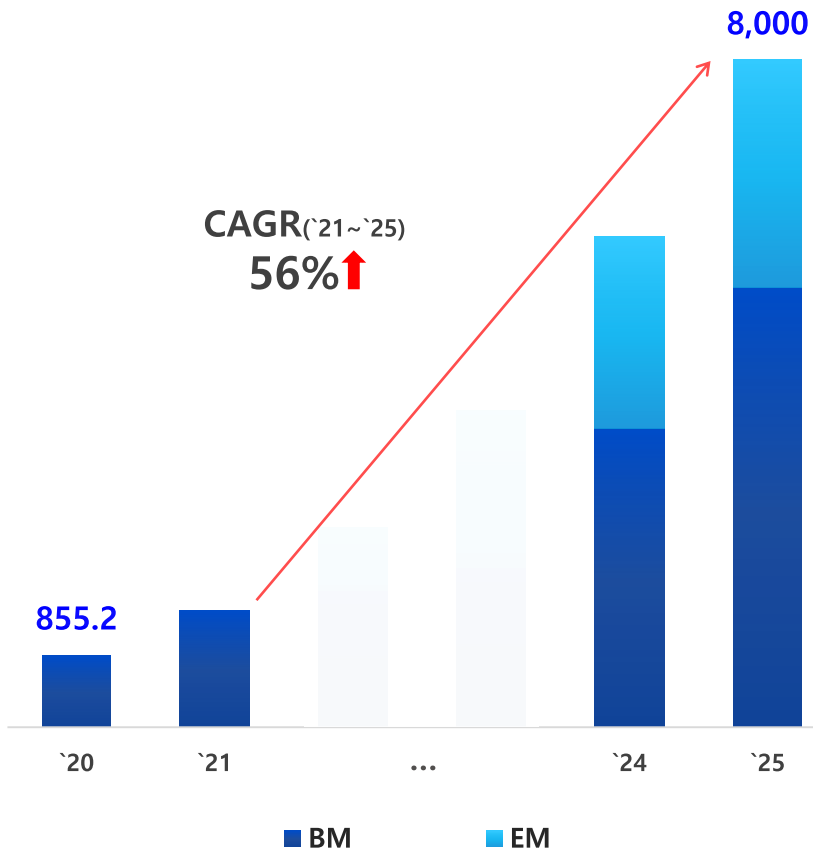
Lithium ion Battery Value Chain



Business Goals

Fast and stable growth based on strategic partnership with key customers(JV, LTA)

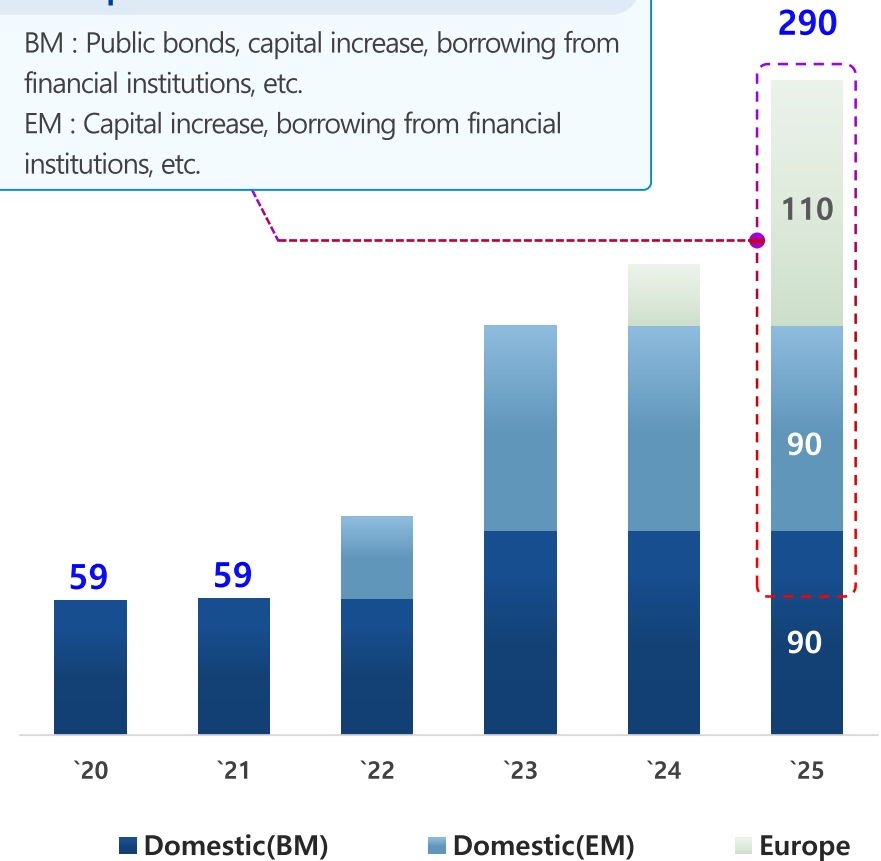
Mid- to long-term sales forecast
(consolidated) (KRW bn)



Mid- to long-term expansion plan
(Designed Capacity) (K ton)

Total expansion investment: KRW 1.4 trillion

- BM : Public bonds, capital increase, borrowing from financial institutions, etc.
- EM : Capital increase, borrowing from financial institutions, etc.



Appendix

- Condensed financial statement (Separate)

Balance Sheet (Separate)

Statement of financial position

(KRW bn)

	2019.12.31	2020.12.31	2021.03.31	2021.06.30
Assets				
Current assets	245.5	270.1	305.6	430.3
Quick assets	86.6	113.3	116.2	176.8
Inventories	158.9	156.8	189.4	253.5
Non-current assets	404.8	501.2	506.6	533.4
Investments	-	35.4	34.8	52.2
Property, plant and equipment	376.7	407.7	415.1	428.0
Intangible assets	14.1	13.3	12.9	12.5
Other non-current assets	14.0	44.8	43.8	40.6
Total assets	650.3	771.3	812.2	963.7
Liabilities				
Current liabilities	137.9	185.4	222.9	319.7
Non-current liabilities	142.3	142.2	140.7	163.4
Total liabilities	280.2	327.6	363.6	483.2
Equity				
Issued capital of common stock	10.3	10.5	10.5	11.0
Share premium	267.6	272.7	272.7	282.1
Other stockholder's equity	(0.7)	24.7	24.8	24.6
Retained earnings	93.0	135.8	140.7	162.8
Total equity	370.2	443.7	448.7	480.5

Income statement (Separate)

Statement of comprehensive income

(KRW bn)

	2019	2020				2020	2021	
		1Q	2Q	3Q	4Q		1Q	2Q
Revenue (Sales)	616.1	167.7	189.9	250.2	247.4	855.2	263.4	310.7
Cost of sales	543.0	149.1	162.7	219.6	217.8	749.2	230.7	264.1
Gross profit	73.1	18.6	27.2	30.6	29.6	106.0	32.7	46.5
Selling general administrative expenses	36.0	9.8	13.3	12.7	14.2	50.0	13.8	15.8
Operating income	37.1	8.8	13.9	17.9	15.4	56.0	18.9	30.7
Finance income	6.1	3.4	0.8	0.8	1.9	7.0	0.1	0.1
Finance costs	10.8	2.6	2.5	3.2	1.7	10.0	1.3	0.9
Other gains	0.3	0.3	0.0	0.0	1.2	1.4	3.5	1.6
Other expenses	4.3	0.1	0.1	0.2	5.3	5.7	3.0	1.6
Loss on Valuation using the Equity Method of Accounting	-	(0.0)	0.0	0.1	0.5	0.6	0.5	1.0
Profit (Loss) before tax	28.3	9.8	12.1	15.1	11.0	48.1	17.8	29.0
Income tax expense (income)	(6.1)	1.4	(1.9)	1.4	0.1	1.1	3.4	7.0
Profit (Loss)	34.5	8.4	14.0	13.7	10.9	47.0	14.3	22.1

Q&A



EcoPro BM