

LOTTE ENERGY MATERIALS Overseas NDR

2023. 12. 04

Disclaimer



This data is for the purpose of providing information at presentations conducted for investors

This is to inform you that it was written by LOTTE ENERGY MATERIALS CORPORATION (hereinafter referred to as the "Company") and the removal, copying, or redistribution of it to others is prohibited.

Please note that attendance at this presentation will be considered an agreement to comply with the above, and that violations of the above may constitute violations of the relevant "Capital Markets and Financial Investment Business Act".

The "predictive information" included in this data is information that has not undergone individual verification procedures. This is related to future events rather than the past, meaning the company's expected management status and financial performance, and includes words such as "Expectation," "Outlook," "Plan," and "(E)" in terms of expression.

The above "Prediction Information" is affected by changes in the business environment in the future, and inherently contains uncertainties, and due to this uncertainty, actual future performance may differ significantly from what is stated or implied in "Prediction Information".

Also, please note that the future outlook is based on the presentation date, and it may be changed due to changes in the market environment and strategy in the future, and it may be changed without notice. The Company and its employees shall not be liable for any loss arising from the use of this data (including negligence and other cases)

This document does not constitute a solicitation for the sale and investment of shares and I would like to inform you that no part of the data is the basis for making relevant contracts and agreements or investment decisions.

Company Profile

Main business



LEM Profile

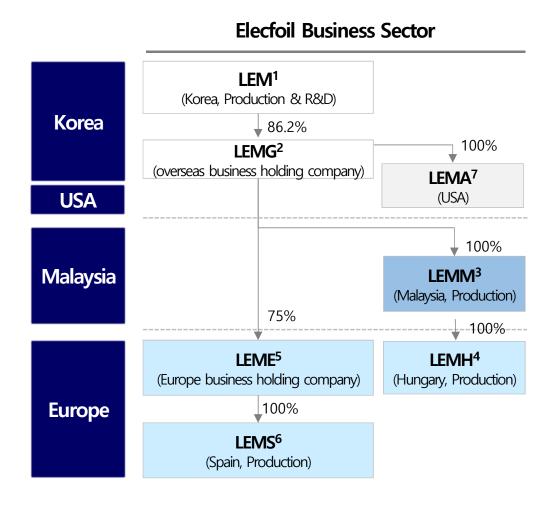
LEM Governance

CEO	Kim Yeon-seop
Date of establishment	1987.08.11
Date of flotation	2011.03.04
Capital Stock	23.1(KRW bn) as of 2023.09.30
Number of employees	543 as of 2023.09.30

Shareholders / Stock Status

Elecfoil

Total number of issued stocks Par value The largest shareholder Composition of shareholders 46,110,835 500 KRW LOTTE CHEMICAL CORPORATION (24,578,512 / 53.61%) The largest shareholder 53.6%, General shareholder 26.1%, Institutional investor11.0%, Foreign investor 9.2% (2022.12.31 List of shareholders)	Market of flotation	KOSPI
The largest shareholder Composition of shareholders LOTTE CHEMICAL CORPORATION (24,578,512 / 53.61%) The largest shareholder 53.6%, General shareholder 26.1%, Institutional investor11.0%, Foreign investor 9.2%		46,110,835
shareholder (24,578,512 / 53.61%) The largest shareholder 53.6%, General shareholder 26.1%, Institutional investor11.0%, Foreign investor 9.2%	Par value	500 KRW
The largest shareholder 53.6%, General shareholder 26.1%, Institutional investor11.0%, Foreign investor 9.2%	The largest	LOTTE CHEMICAL CORPORATION
Composition of shareholders shareholders shareholder 26.1%, Institutional investor11.0%, Foreign investor 9.2%	shareholder	(24,578,512 / 53.61%)
shareholders Foreign investor 9.2%		The largest shareholder 53.6%, General
	Composition of	shareholder 26.1%, Institutional investor11.0%,
(2022.12.31 List of shareholders)	shareholders	Foreign investor 9.2%
		(2022.12.31 List of shareholders)



^{1.} LOTTE Energy Materials 2. LOTTE Energy Materials Global 3. LOTTE Energy Materials Malaysia 4. LOTTE Energy Materials Hungary 5. LOTTE Energy Materials Europe 6. LOTTE Energy Materials America

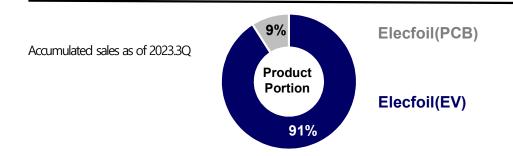
Company Overview

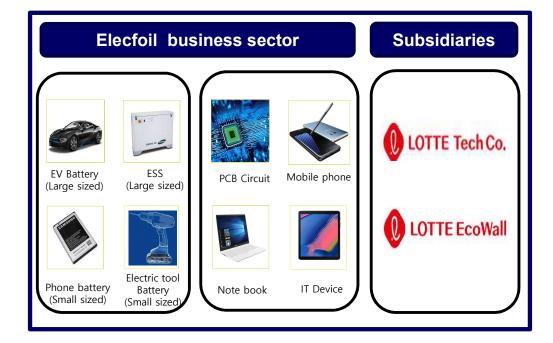


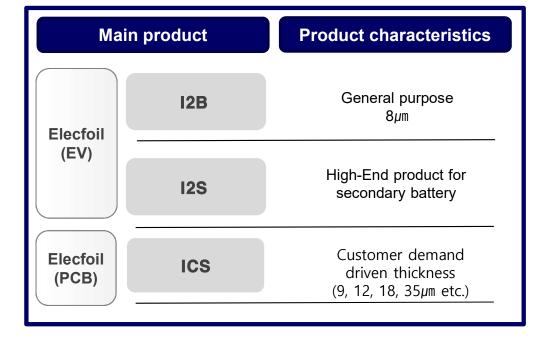
LEM Business Introduction

LEM Elecfoil Business Product





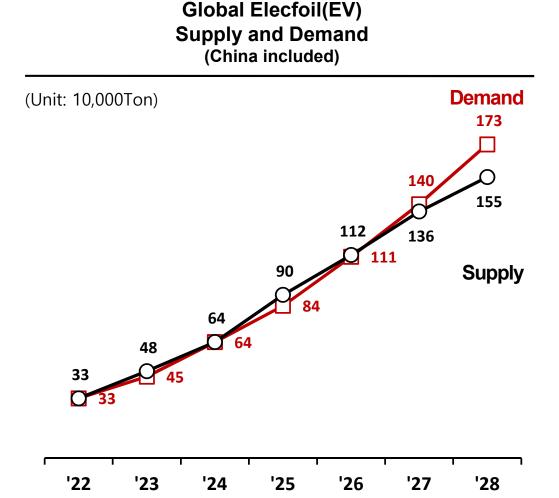




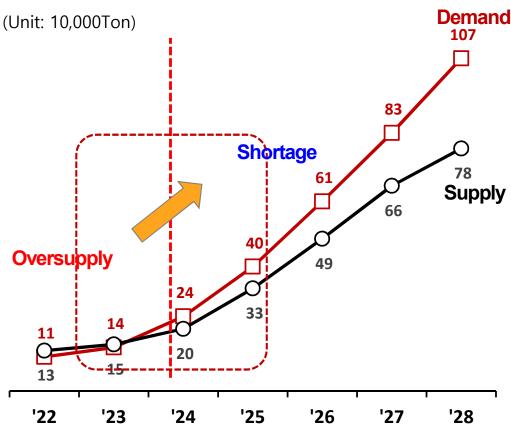


Current Status and Outlook of Elecfoil market

- ✓ In contrast with expansion made in advance by Elecfoil manufacturer through out the world, delay in expansion by battery manufacturers in Europe and America has caused temporary imbalance between supply and demand
 - → Above mentioned imbalance in our target market is expected to improve after stabilization in '24



Elecfoil(EV) in Target Market
(Europe/North America)
Supply and Demand (China excluded)



Source: consulting resource

Outlook of High-End Elecfoil market Growth



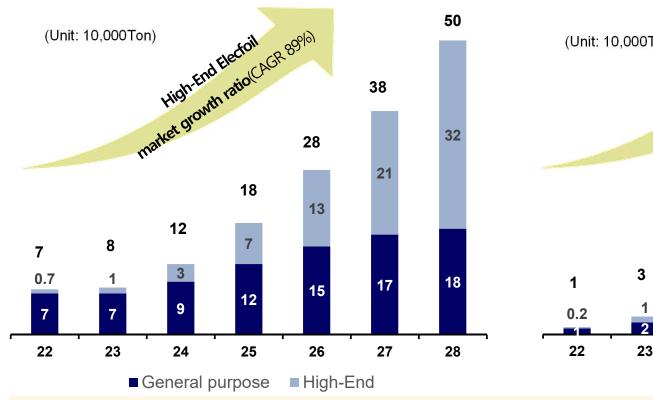
✓ Rapid growth outlook of High-End product¹ after '25 in Europe/North America

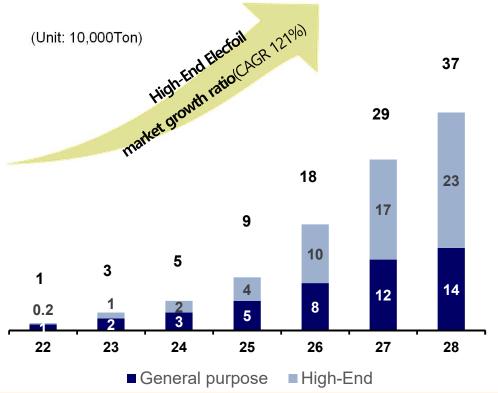
More European battery manufacturers' entrance into the market is expected after '25

High-End Demand Outlook in Europe

High-End Demand Outlook in North America

Regional characteristic(long distance travel) and initiation of mass production for 4680 battery





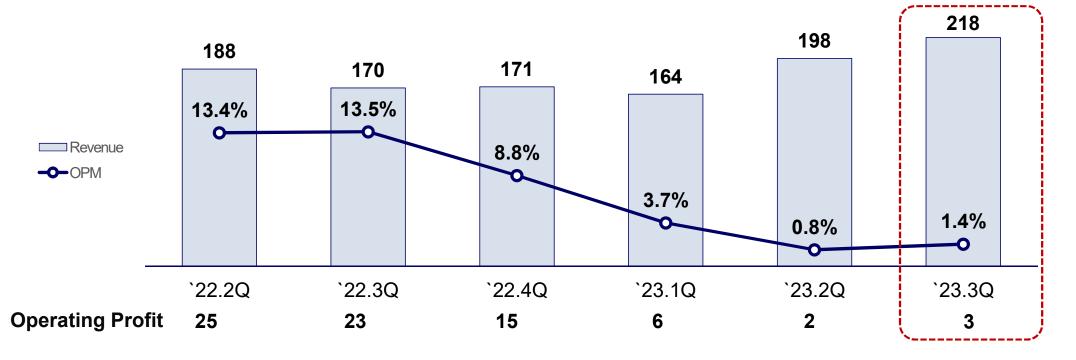
¹ High-End Elecfoil: High-strength Elecfoil, High-elongation Elecfoil, High-strength and High-elongation Elecfoil

Source : Consulting resource

Quaterly Business Results & Outlook



(Unit: KRW bn, %)



3Q Earnings Review

- Solid growth in Elecfoil sales volume and revenue resulting the highest quarterly revenue
- Operating profit margin was slightly improved resulting from Improvement in manufacturing costs per unit due to recovery in utilization

4Q Outlook

- Stable demand forecast from major customers and customer diversification are expected to increase utilization and sales volume in 4Q
- Although improvement in profitability is expected to be limited due to fixed cost burden, 4Q profitability is expected to increase compared to 3Q



3Q Highlight – '24 & Long-term Business Direction

- ✓ Production and High-End Elecfoil portion are expected to continuously grow despite slowing demand for forward industries
 - Continuing long-term business goals by expanding LTA³ and the status of various customers' first vendors

3Q

2024 Outlook

Long Term Goal

CAPA 60,000ton

(3Q cumulative production: 26,587ton)

High-End Electoil portion

5%

CAPA 80,000ton²

(4Q 20,000ton production available through Malaysia 5&6 plant expansion)

High-End Electoil portion
High-Single

240.000ton CAPA achievement

High-End Electoil portion 75%

Revenue based on LTA expanded to 90% Level

Expanding to Various customers' first vendor

Revenue based on LTA 60% Level

Continued surplus by securing stable customer¹

Maintaining the status of main customer's first vendor

2. End of 2024 standard

Long-Term Agreement

3Q Highlight – Expansion and Financing plan



- ✓ Debt/Equity 23% (High Financial stability and Borrowing capacity)
- ✓ Future expansion-related financing utilizes internal reserved cash + operating cash flow
 - +financial leverage through borrowing

Expansion Plan

(Unit: 10,000Ton)

24 10 10 3 4 2 2023 2028E

□Korea ■Malaysia □Europe □Not defined

Financing Plan

(Unit: KRW)

Financing resource 3.4 trillion KRW over¹



→ '28(E) Debt/Equity 100% under

maintaining

- Note: 1. Capex per 10,000ton 0.187trillion KRW (23.08.07 Average application of Spain expansion investment in publicized future business plan)
 - 2. Cash and equivalents (Cash&short term financial instruments 0.5trillion + other financial asset 0.2trillion)

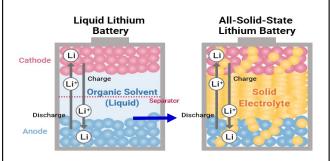
Next Generation Product Portfolio



✓ Increasing corporate value through next-generation product development

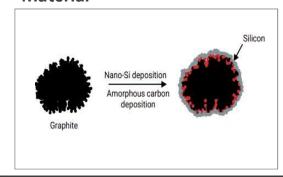
Solid electrolyte

- Participating and leading national program for technical development in cooperation with institutes and renowned companies
- Factorial equity investment
- Technical completeness in LAB
 Scale
- Pilot Scale production(~'24)



Silicon composite cathode active material

- High manufacturability / High
 Performance / Low Cost (Si-C series)
- Enwires 7.9bn equity investment
- Enwires France pilot factory on operation
- Research and Development of 4th Generation Cathode Active Material



LFP electrode active material

- Customized high manufacturability
- LMO production experience
 - + Track record in Solid state method
- Construction of production line(~'24)
 - LMO → LFP Conversion

electrode active material	Energy capacity	Safety	Life span
NCM/ NCA	High	Mid	Mid
LMO	Mid	High	Low
LFP	Low	High	High

Appendix_3Q 2023 Business Results : Income Statement O LOTTE ENERGY MATERIALS



(Unit: KRW bn, %)

	`23.2Q	`23.3Q	QoQ	`22.3Q	YoY
Revenue	198	218	9.8%	170	28.3%
Operating profit (%)	2	3	99.8%	23	△86.7%
	0.8%	1.4%	(+06%p)	13.5%	(△12.1%p)
Pre-tax Profit (%)	△15	12	Turn around	12	△0.9%
	△7.4%	5.6%	(+13.0%p)	7.2%	(△1.6%p)
Net Profit	△8	7	Turn around	14	△ 51.4 %
(%)	△3.8%	3.2%	(+7.0%p)	8.5%	(△5.3%p)

Appendix_3Q 2023 Business Results: Financial Position



(Unit: KRW bn, %)

	`23.2Q	`23.3Q	QoQ (Change)	Remarks
Asset	2,426	2,432	5	
Cash and Equivalents ¹	370	520	150	Cash Increase through sell of other financial asset
Liabilities	456 (23.1%)	448 (22.6%)	△8	Debt/Equity 22.6%
Borrowings ²	245	214	△31	
Shareholder's Equity	1,971	1,984	13	

 $[\]ensuremath{\mathbb{X}}$ Note : 1. Cash and Equivalents = Cash and Equivalents + Short-term financial instruments

^{2.} Borrowings = Short-term borrowings + Liquidity Long-term borrowings + Long-term borrowings + Loans (Current, Non-current)

Appendix_Consolidated Financial Statements



(Unit: KRW bn)

	`23.2Q	`23.3Q
Assets	2,426	2,432
Current Assets	1,413	1,387
Cash and Equivalents ¹	370	520
Non-Current Assets	1,013	1,044
Tangible/ Intangible Assets	971	1,003
Liabilities	456	448
Borrowings ²	245	214
Shareholders' Equity	1,971	1,984
Equity attributable to the parent	1,441	1,450
Capital Stock	23	23
Non-controlling interests	530	534

	`22.3Q	`23.2Q	`23.3Q
Revenue	170	198	218
Operating Profit	23	2	3
Finance Income/Expense	△17	△20	8
Equity Method Income/Loss	-	-	-
Other Income/Expense	6	4	1
Pre-tax Profit	12	△15	12
Net Profit	14	△8	7
Profit attributable to the parent	20	△3	3

X Note: 1. Cash and Equivalents = Cash and Equivalents + Short-term financial instruments

^{2.} Borrowings = Short-term borrowings + Liquidity Long-term borrowings + Loans (Current, Non-current)