2022
LG Chem INVESTOR DAY
Towards Top Global Science Company
WeConnectScience
To Life for a Better Future
LG Chem
Towards **Top Global Science Company**

- **Sustainable Growth**
  - 3 Future Growth Drivers
  - R&D Capabilities
- **Carbon Neutral Growth**
3 Future Growth Drivers

Sustainability Business

Battery Materials

Innovative New Drugs
Sustainability Business

- Recyclable Material
- Bio/Biodegradable Material
- Energy Transition for Low Carbon

Sustainable Growth 3 Future Growth Drivers
Sustainability Business

3 Future Growth Drivers

Sustainable Growth

Mechanical & Chemical Recycling

Recyclable Material

Bio/Biodegradable Material

Energy Transition for Low Carbon

PCR

PC

PCR

ABS

LG Chem
Sustainability Business

Bio/Biodegradable Material

PLA

Recyclable Materials

Energy Transition for Low Carbon
Sustainable Growth - 3 Future Growth Drivers

Sustainability Business
Energy Transition for Low Carbon Photovoltaic Encapsulants (PVEN, Solar Panel Encapsulant)

POE/EVA

Sustainable Growth

3 Future Growth Drivers

Sustainability Business

Recyclable Material

Bio/Biodegradable Material

Energy Transition for Low Carbon
Sustainable Growth  3 Future Growth Drivers

Sustainability Business - LG Chem Sustainability Business Sales

(Units: KRW tr)

50x Growth in 9 Years

Total Sustainability Business

<table>
<thead>
<tr>
<th>Year</th>
<th>Sales (KRW tr)</th>
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<tbody>
<tr>
<td>2021</td>
<td>1.4</td>
</tr>
<tr>
<td>2026</td>
<td>3.6</td>
</tr>
<tr>
<td>2030</td>
<td>8.0</td>
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</tbody>
</table>

※ The estimated amount of the business target is based on our business plan and may differ from the actual amount due to changes in the business environment and strategy modifications.
Battery Materials

Global Top
Comprehensive
Battery Materials
Company

Global Top
Separator
Cathode

Additional Battery Materials
Sustainable Growth  3 Future Growth Drivers

Battery Materials - Cathode

Expansion of Capacity

Increase in High Performance Product

Diversification of Client Portfolio

36
76
260

2020  2021  2026

Ni > 80%

2021
2022
2026

LG Chem
New Battery Materials

- CNT (Carbon Nanotubes)
- TCA (Thermally Conductive Adhesive)
- Binder
- BAS (Battery Assembly Solution)
Battery Materials - Sales Forecast for Battery Materials Business

12x Growth in 9 Years

<table>
<thead>
<tr>
<th>Year</th>
<th>Additional Battery Materials</th>
<th>Separator</th>
<th>Cathode</th>
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<tr>
<td>2021</td>
<td>1.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2022</td>
<td>2.8</td>
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<tr>
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<td>8.4</td>
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<td>21.0</td>
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Sustainable Growth

3 Future Growth Drivers

Innovative New Drugs

A Global Pharmaceutical Company With Innovative Drugs

Main Therapeutic Area

Category Leader

Oncology & Immunology

Diabetes & Metabolism

Platform Technologies

Multi-Modality

Biologics

Small Molecule

Cell Therapy
Innovative New Drugs - New Drugs Pipeline

Key Progress for 2022

- **Initiation of Global Phase 3**
  - Gout (Tigulixostat)
- **Initiation of Global Phase 2**
  - NASH
- **Completion of Global Phase 1**
  - Obesity

<table>
<thead>
<tr>
<th>Year</th>
<th>Marketed</th>
<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
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</thead>
<tbody>
<tr>
<td>2022.2</td>
<td>3</td>
<td>7</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>2030.12</td>
<td>2</td>
<td>6</td>
<td>12</td>
<td>23</td>
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3 Future Growth Drivers

Sustainability Business

Battery Materials

Innovative New Drugs
Revenue Outlook for LG Chem’s 3 Future Growth Drivers

10x Growth in 9 Years

- Innovative New Drugs
- Battery Materials
- Sustainability Business

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Sustainable Growth

Revenue Outlook for LG Chem (Excluding LG ES)

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LG Chem
Towards Top Global Science Company

Sustainable Growth

- 3 Future Growth Drivers
- R&D Capabilities
- Carbon Neutral Growth
Investment on R&D Technology

- **Workforce (Unit: Person)**
  - 2021: 2,800
  - 2022: 3,300
  - 2026: 3,900

- **R&D Investment (Unit: KRW bn)**
  - 2021: 710
  - 2022: 960
  - 2026: 1,300

**R&D Strategic Area**
- Sustainability
- Battery Materials
- Innovative New Drugs

**R&D Workforce / Investment (Excluding LG ES)**

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LG Chem
Bioplastics & Low Carbon Technology

Development for Sustainability Business

Chemical Recycling: Exploring Breakthrough Technology

Bio-degradable Plastic: PLH

Mechanical Recycling: Enhancing Recyclability

CO₂ Capturing: Open Innovation

CO₂ based Polymers

PCR-PVC

CO₂ Plastics

Sustainable Growth
R&D Capabilities

LG Chem
Development of Advanced Technology for Battery Materials

- Gas Generation
- High Temp. Safety
- Energy Density of Pure-Si Anode

- Single Crystal Cathode Material
- Ceramic Separator
- Pure Silicon Anode

LG Chem
Our Capabilities and Beyond

Additional Inorganic Growth Opportunities
INORGANIC PROJECTS

30+

Sustainable Growth

JV with Toray for Separator Business

Acquisition of LG Electronics’ Separator Coating Business

JV plan with ADM for PLA Business

Sustainability Business

Battery Materials

Innovative New Drugs

M&A Records in 2021
Additional Growth Potential to be Top Global Science Company

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LG Chem
Towards **Top Global Science Company**

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<td>• R&amp;D Capabilities</td>
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**Carbon Neutral Growth**
Committed to Carbon Neutral Growth by 2050 (in July 2020)

- 20 M ton/yr in 2019
- 9.5 M ton/yr (Excluding LG ES) in 2050
- 10,000,000 t of Pine Trees
- 4.2 M ton/yr of Fossil Fuel Vehicles' Carbon Emissions a year
- 71 M Pine Trees
Actions to Reduce Carbon Emissions

Reduce

Avoid

Compensate
The First CEO of Korean Company
to Speak at WEF Davos Agenda Climate Session

The Only CEO Representing Korean Company
in the Alliance of CEO Climate Leaders

Engaged with the World’s Leaders

World Economic Forum

The Alliance of CEO Climate Leaders

Largest CEO-led Climate Alliance In the World

119 Companies

12 Industries

27 Countries
New Target: Net Zero

Carbon Neutral Growth by 2050 & Net-Zero by 2050

20M

Unit: ton/yr

9.5M

BAU
(Business As Usual)

2019
2030
2050
(Excluding LG ES)
To Life for a Better Future