



Leading with **Science**  
for **Sustainability**

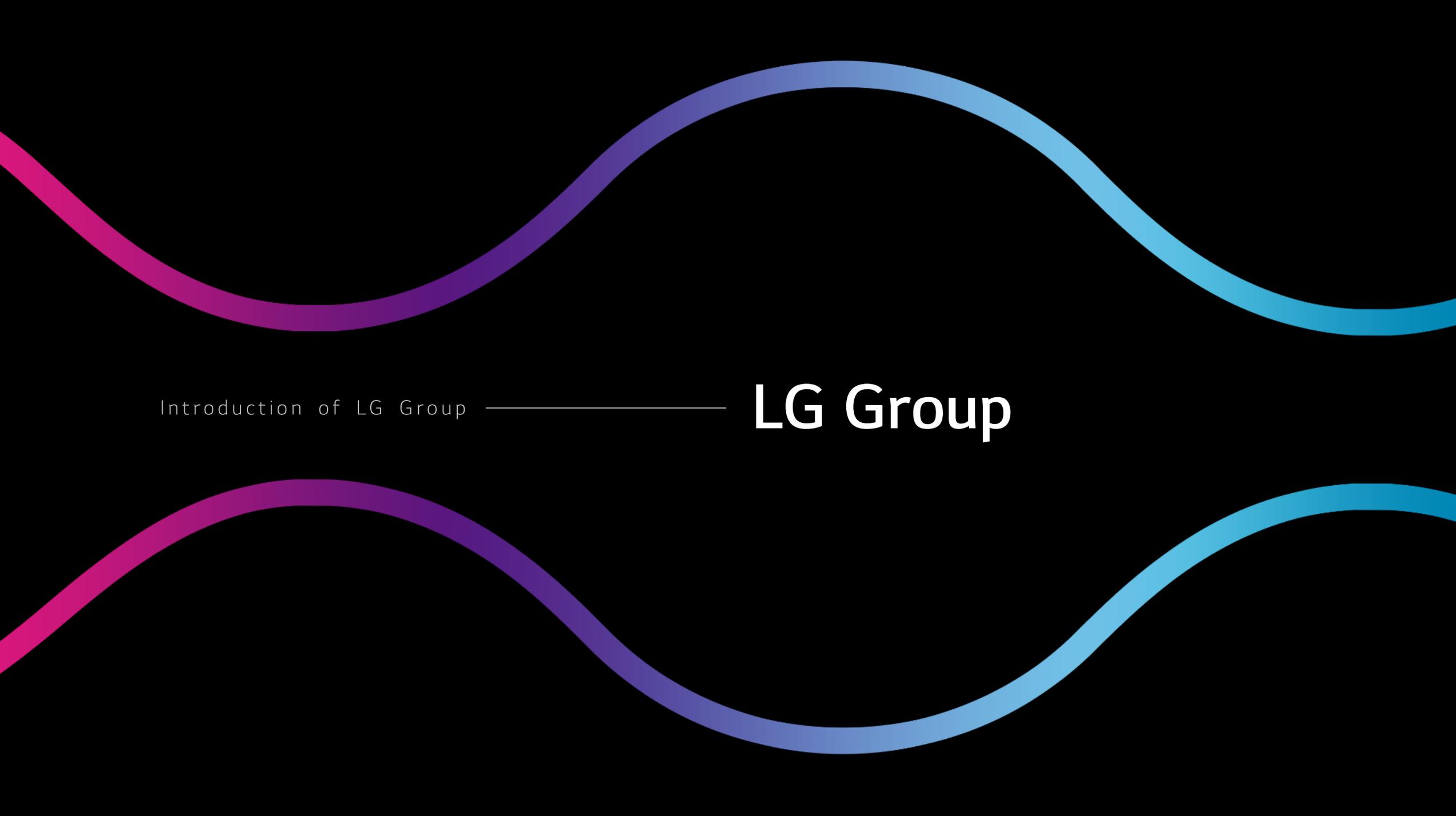
**LG Chem**

*We* **Connect** *Science*

# Contents

Introduction of LG Chem

- 01 — Introduction of LG Group
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- 03 — Business of LG Chem



Introduction of LG Group

**LG Group**

# LG Group | History

**1947**



Established as  
Lucky Chemical  
Industrial Co.  
(now LG Chem)

**1958**



Established as  
Goldstar Co.  
(now LG Electronics)

**1987**



Completed  
'Lucky Gold Star Tower'

**1995**



Established as a New  
Corporate Identity  
(Lucky Goldstar → LG)

**1996**



Established as  
LG Telecom  
(now LG U+)

**2003**



Established as  
LG Corp.

**2017**



LG Group's 70th  
Anniversary

**2021**



LG Group spined-off  
LX Group

## Chemicals



LG Chem  
LG Energy Solution  
LG Household & Healthcare  
etc.

## Electronics



LG Electronics  
LG Display  
LG Innotek  
etc.

## Telecommunications & services



LG U+  
LG CNS  
LG Sports  
etc.



Affiliates

**63**

\*Overseas Corporations 290(Approx.)



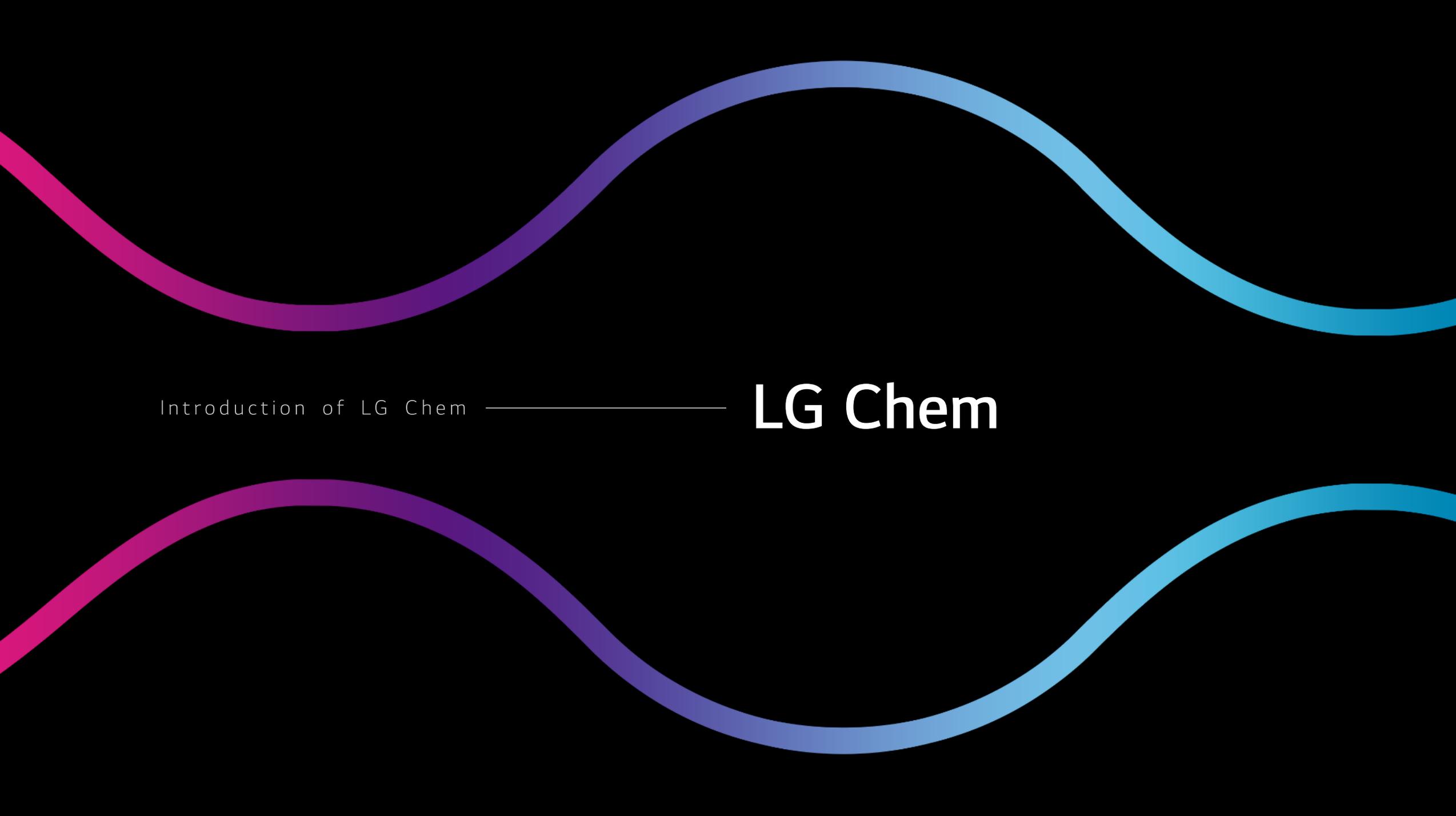
Workforce(Worldwide)

**270,000** (Approx.)



Annual Revenue

**KRW 202trn** (Approx.)



Introduction of LG Chem

**LG Chem**

Since its founding, LG Chem is vigorously moving forward towards a sustainable future



Established the CS Center of Ohio in USA

## 1947 - 1999

- 1947** Established as Lucky Chemical Industrial Corporation
- 1969** Listed on Korea Stock Exchange
- 1974** Renamed as Lucky Corporation
- 1976** Completed construction of Yeosu PVC Resin Plant
- 1979** Opened Daedeok Central R&D Center
- 1991** Developed the world's first 4th-generation cephalosporin antibiotics
- 1995** Renamed as LG Chem, Ltd.  
Completed construction of Tianjin PVC plant in China

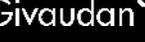
## 2000 - 2009

- 2001** Spinned off business entities (LGCI, LG Chem, LG Household & Healthcare)
- 2003** Acquired Hyundai Petrochemicals  
Factive became first Korean new drug to receive U.S. FDA approval
- 2004** Developed the world's first nanotechnology-applied new EP material
- 2005** Established LG Chem (China) Investment Co., Ltd.  
Established a sales subsidiary in Europe (in Germany)
- 2007** Merged with LG Petrochemicals Co., Ltd
- 2008** Developed Korea's first metallocene-based elastomer
- 2009** Spinned off Industrial Materials Business (now LX Hausys)

## 2010 - 2023

- 2016** Acquired Dongbu Farm Hannong (Farm Hannong)
- 2017** Merged with LG Life Sciences Co., Ltd.
- 2020** Spinned-off battery business (now LG Energy Solution)
- 2021** Launched LETZero of Eco-friendly Materials brand
- 2022** Established a Cathode Material joint venture LG-HY BCM (in Gumi)
- 2023** Acquired AVEO Oncology
- 2024** Established the Customer Service Center of Ohio in USA
- 2025** Started Construction of Korea's first eco-friendly HVO fuel plant (in Daesan)

## Top 10 Strongest\* Chemicals Brands 2025

1	 DUPONT	—	
2	 سابك sabik	▲	
3	 BASF We create chemistry	▲	
4	 LG Chem	▼	
5	 Air Liquide	▲	
6	 Linde	▼	
7	 Givaudan <sup>o</sup>	▼	
8	 Dow	—	
9	 SUMITOMO CHEMICAL	▲	
10	 DSM	▼	

\* Source: Brand Finance Group, U.K.

Brand value of  
chemical companies

# “Global No.4”

\* Strongest Brand : A metric indicating the influence and status of the brand itself,  
excluding financial performance

To achieve our vision, “We Connect Science to Life for a Better Future,”  
LG Chem will become **Top Global Science Company** that leads with **Science for Sustainability**.

# We *Connect* Science to life for a Better Future



Leading with Science for Sustainability.

Through the execution of our sustainability strategy,  
we will **secure future growth engines and strengthen ESG competitiveness**

## LG Chem Innovative Sustainability



\* LG Chem's top priority

Towards Top Global Science Company

# Carbon-neutral growth by 2030, Net-Zero by 2050



## Acceleration of low-carbon transition

Expansion of eco-friendly  
product portfolio

Transition to renewable energy

Offset carbon emissions



## Enhancement of competitive edge in low-carbon products

Introduction of new processes and  
expanded use of eco-friendly  
raw materials and fuels

Establishment of Scope 3 management  
standards and implementation system for  
low-carbon strategy in the supply chain



## Implementation of Net-Zero through partnerships

Demonstration of global leadership to  
combat Net-Zero

Development of innovative  
technologies and a circular economy  
through cross-industry collaboration

Towards Top Global Science Company

# World-class Science company with strong R&D capability



## Fostering high-value & Eco-friendly technologies

High-value innovative  
in differentiation technology

Bio-based Feedstock /  
Recycling technology

Carbon Capture & Utilization(CCU)  
Technologies



## Development of next-generation materials

Cost innovation /  
high-capacity cathode material

Semiconductor & Adhesive materials

AI-Non-memory packaging, Display Films,  
High-performance EP Materials



## Innovative Drug & Technology Development to address Customers' Unmet needs

Global innovative oncology drugs

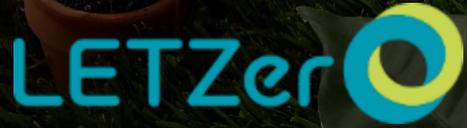
Next-generation drug modality platforms

Formulation & Process Innovation for  
Enhanced Patient Convenience



LG Chem

Eco-friendly Materials Brand



### Eco-friendly Materials Brand LETZero

A compound word of "Let" and "Zero," which means "to turn harmful substances to the environment and the net increase in carbon emissions into zero."

#### LETZero Products

##### Recycle

Produce the PCR materials by enables the recycled waste plastics

**PCR (Post Consumer Recycled)**  
ABS, PC, PC/ABS, PE, PP, PVC, Plasticizer

**Circular Balanced**  
Most Materials Produced by LG Chem

##### Bio

Bio-Based Materials blended with renewable Vegetable Oil-derived Feedstocks and Fossil-Based Feedstocks

**Bio-Circular Balanced**  
Most Materials Produced by LG Chem

#### LETZero Co-Marketing



**PCR (Post Consumer Recycled)**  
EV Chargers, Home application POP

**BCB(Bio-Circular Balanced)**  
Descent Shoe, Kitchen Furniture Film

# LG Chem | R&D Status

\* Included Subsidiaries

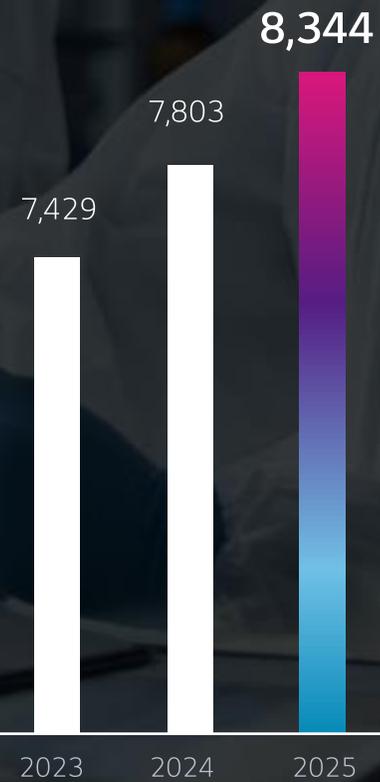
## R&D Expense

Unit : Billion KRW



## R&D Workforce

Unit : Person

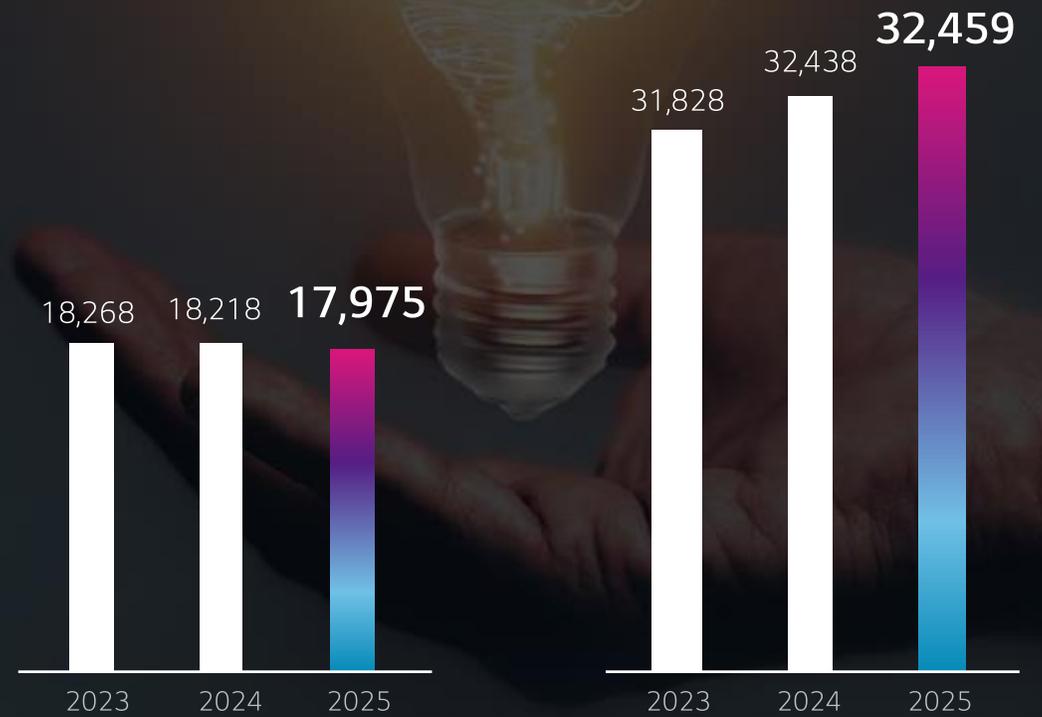


## Intellectual Properties (Patents & Trademarks)

Unit : Number of registrations

| Domestic

| Overseas



# LG Chem | Financial Results

\* Included Subsidiaries



Sales in 2025

KRW **45.9**trn  
(Approx.)



Workforce

**17,389** (Person)

Domestic 12,943 / Overseas 4,446



Sites of business

**63**

Domestic 15 / Overseas 48

## Sales

(Unit : Tillion KRW)

## Operating profit

(Unit : Tillion KRW)



# LG Chem | Domestic Sites



**Headquarter/R&D Campus Magok**  
(Est.1987/Est.2018)



**Daesan Complex** (Est.2005)  
NCC, SSBR, PVC



**Osong Plant** (Est.2009)  
Bio Similar, Vaccine



**R&D Campus Daejeon**  
(Est.1979)



**Iksan Plant(2)**(Est.1991 / Est.1995)  
EP / Pharmaceutical



**Naju Plant** (Est.1984)  
Plasticizers

**Leadership Center / CS Center**  
(Est.1991/Est.2019)



**Ochang Plant** (Est.2005)  
Stripper



**Cheongju Complex(2)**(Est.1980 / Est.2009)  
OLED Material, Cathode Material / Battery Separator



**Onsan Plant**(Est.1979)  
Fine Chemical



**Yeosu Complex** (Est.1976)  
NCC, PVC, ABS, SAP, PE, AA



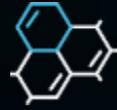
# LG Chem | Overseas Sites





## Petrochemicals

- NCC / Polyolefins
- PVC / Plasticizers
- ABS
- Acrylates / SAP
- HPM(High Performance Materials)



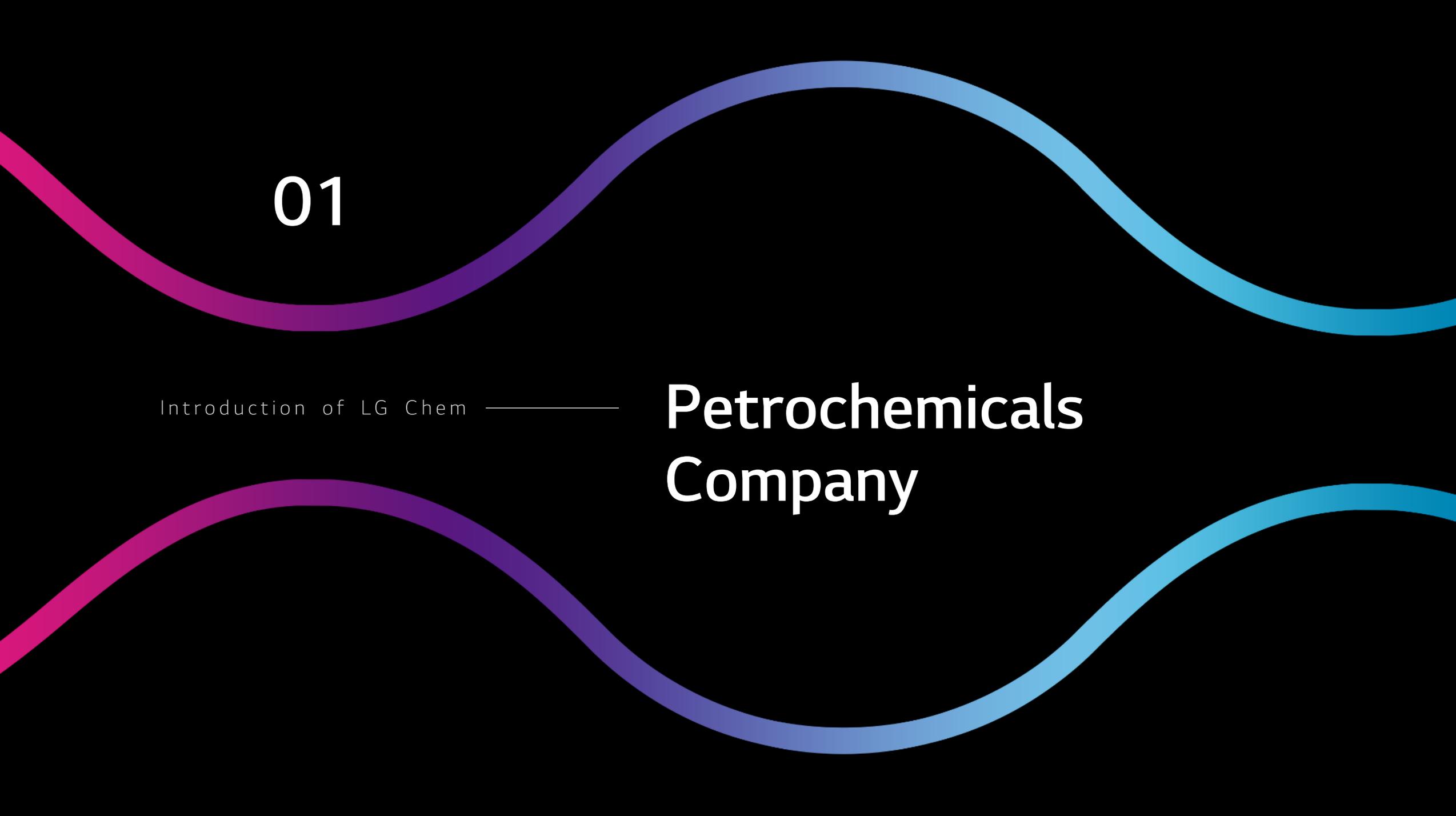
## Advanced Materials

- Cathode Materials
- Engineering Materials
- Electronics Materials
- Battery Separator



## Life Sciences

- Primary Care
- Specialty Care
- AVEO Oncology



01

Introduction of LG Chem

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# Petrochemicals Company



# Petrochemicals Company

**Establishment** (Year)

1976

**Sales** (₩) \*As of 2025

17.9trn (Approx.)

**Workforce** (Person)

Domestic 5,735 / Overseas 2,269

**Business Area**

Petrochemical Products

- **2025** Started Construction of Korea's first eco-friendly HVO fuel plant (in Daesan)
- **2024** Established of Asia's first next-generation insulator Aerogel plant (Dangjin)  
Established the CS Center of Ohio in USA
- **2023** Established the CS Center of Europe in Germany
- **2022** Launched Asia's first plant-based eco-friendly ABS
- **2021** Acquired \*ISCC for Korea's first eco-friendly (bio-circular balanced, Chemical Recycle) product. \* ISCC (International Sustainability and Carbon Certification)  
Launched digital CRM system LG Chem On
- **2019** Established the largest petrochemical tech center in Korea (Osan CS Center)
- **2015** Established the CS Center of Hwanam , Guangzhou in China
- **2003 ~ 2010** Acquired Dow Polycarbonate business(10)  
Merged with LG Petrochemicals Co., Ltd.(‘07)  
Acquired PVC Business of Hyundai Petrochemicals Co., Ltd.(‘03)
- **1995 ~ 1998** Established Manufacturing Subsidiary in China / India / Vietnam (PVC, ABS)
- **1976** Completed construction of Yecheon PVC resin factory  
Entry into the petrochemical business

# Providing Differentiated Customer Value with High Value-Added and Sustainable Materials



## High Value-Added / Specialty

- Expanding Differentiated Business Centered on Customers and Application
  - Eco-Friendly, High-Gloss, Heat-Resistant ABS/ASAS for Automotive Application
  - Cutting-Edge Solutions with Modified SSBR for Hight-Performance Tires
  - Ultra-High-Purity IPA for Semiconductor Manufacturing Process



## Recycle

(Establish circular economy of waste plastics)

- A Global Branded Product Portfolio incorporating PCR Materials
- 50+ ISCC Plus Certified CB(Circular-Balanced) Products
- Securing Stable Feedstock Supply and Establishing a Closed-Loop system through Strategic Partnerships



## Bio

- World's First Commercialization of BCB(Bio-circular balanced) SAP
- Asia's First Launch of BCB ABS
- 50+ ISCC Plus Certified BCB Products
- Securing Stable Supply through In-House Eco-Friendly Feedstock (HVO) Integration

# Production Capacity (As of 4Q, 2025)

Unit : KTA

Ethylene	3,350	HDPE	530	Acrylic Acid	650
Propylene	1,980	LLDPE	600	IPA	265
BD	510	PP	380	NPG	175
BZ	900	LDPE/EVA	460	Synthetic Rubber	365
BPA	505	PVC	1,125	Specialty Resin	310
ABS/SAN	2,350	Plasticizer	175	POE	280
PS	40	Alcohol	125	CNT	3
EPS	90	PC	170	SAP	500
Aerogel	200,000m <sup>2</sup>	NAOH	1,000	NBL	565
Chemical Recycle	20	Binder	23		



# Specialty Materials / Sustainability

LG Chem is expanding its portfolio to secure future competitiveness, focusing on high value-added specialty materials and diverse sustainability-driven business such as Bio and Recycling. In particular, through 'LETZero', eco-friendly materials brand embodying the commitment to achieve(NetZero)eliminating environmental harm and net increases in carbon emissions. LG Chem delivers customer and application centered differentiated products and solutions. By proactively proposing new value that customers demand, the company contributes to future growth in the global market and to the creation of sustainable value.

Specialty(ABS/ASA, SSBR, IPA, etc.)

Bio(Bio-Circular balanced)

Recycle(PCR, Circular balanced)



Applications



Automotive interior and exterior parts



Tires



Semiconductor cleaning agent



Cosmetic containers



Flooring

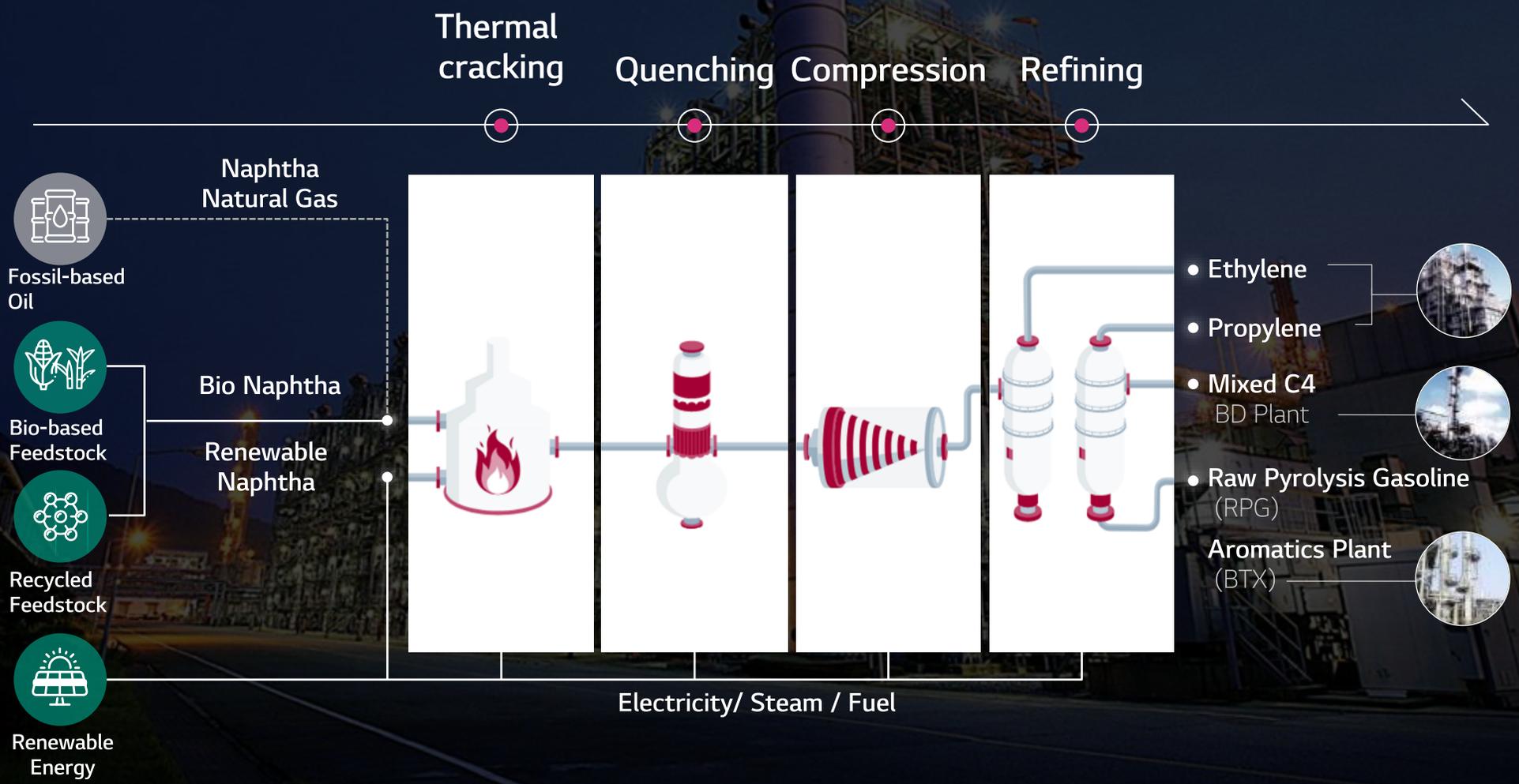


Recycle materials (PCR)

# Naphtha Cracking Center (NCC)

NCC (Naphtha Cracking Center) is a process for producing base oils for petrochemical products, such as ethylene and propylene. They are supplied as raw materials for various products such as PO, synthetic rubber, and ABS.

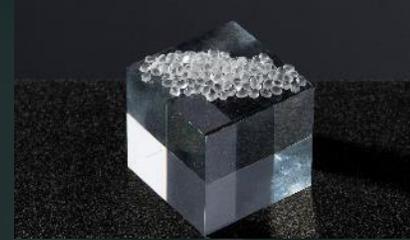
LG Chem discovers and supplies alternative raw materials such as bio-materials and pyrolysis oil from waste plastic to reduce carbon, and develops various technologies for renewable energy and carbon capture for the eco-friendly conversion of our petrochemical plants.



# Polyolefin (PO)

PE and PP are widely used general-purpose plastics for containers, packaging, and medical devices. LG Chem offers eco-friendly PO solutions such as BCB(Bio Circular Balanced) products made from bio-based materials. Used products are mechanically recycled into PCR PE and PCR PP for secondary packaging. LG Chem also develops world-class ultra-thin mono-material PE films to improve recyclability, and through chemical recycling, produces CB(Circular Balanced) products with quality comparable to virgin materials.

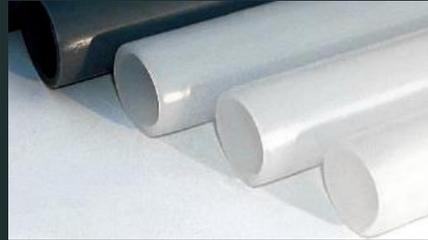
LD, LLD, HD, EVA  
MDO, BOPE



## Applications



Medical equipment



Ondol pipes



Product containers



Cable insulators



Packaging film



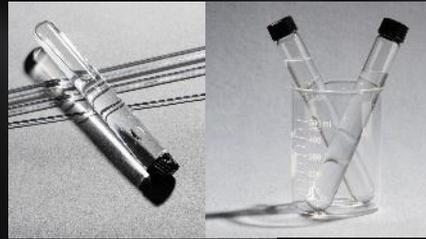
Automotive interior  
and exterior parts

# PVC/Plasticizers

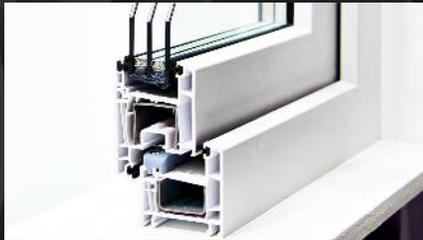
PVC (Polyvinyl Chloride) is highly durable and has excellent insulation performance, making it suitable for processing with plasticizers to provide flexibility. It is used in various building materials and household products such as flooring, windows, and artificial leather. LG Chem leads the eco-friendly trend with BCB (Bio-Circular Balanced) products using bio-based raw materials, PCR PVC through recycling technology, and recycled plasticizers based on waste PET. Additionally, LG Chem produces caustic soda, which is widely used in advanced industries such as cathode manufacturing, and PC (Polycarbonate), known for its impact resistance and heat resistance, providing solutions for various fields.

PVC, Plasticizers

Caustic soda, Alcohol, PC



Applications



Sashes



Flooring



Pipes



EV Charging cable



Interior Car sheet



Car headlamps

# Acrylonitrile Butadiene Styrene (ABS)

Acrylonitrile Butadiene Styrene (ABS) is a highly functional material mainly used in automobiles, home appliances, and IT devices for its excellent heat resistance, shock absorbance, and processability. LG Chem provides differentiated solutions to our customers, from producing chemical industry's very first white-colored PCR ABS and Asia's first eco-friendly BCB(Bio-Circular Balanced)ABS made of plant-based materials.

ABS, PCR-ABS,  
SAN, PS, EPS



Applications



Automotive interior/  
exterior materials



Home application housing



Building materials



Toys



Cosmetic containers



Recycle materials(PCR)

# Acrylates / SAP(Super Absorbent Polymer)

LG Chem is the only manufacturer of acrylic acid, IPA, and NPG in Korea, and produces high-quality products based on proprietary technology. Mainly used in paints, plasticizers, and SAP, Acrylates, Acrylic Acid have a myriad of applications in various fields for its excellent chemical reactions. Additionally, the super absorbent polymer (SAP), used in diapers and hygiene products, has applied plant-based raw materials and obtained the world's first ISCC+ international certification, providing it to customer.

Acrylic Acid/Acrylates,  
SAP, IPA, NPG



Applications



Semiconductor cleaning agent



Eco-friendly powder coating



Diapers



Paint



Hand sanitizers



Bathroom appliances

# High Performance Materials (HPM)

LG Chem's high-performance materials (HPM) provide various solutions to customers. Synthetic rubber is used as a raw material for tires and golf balls, and NBR latex is used for medical and industrial gloves, recognized for its excellent tensile strength and chemical resistance. MBS is used to enhance adhesion between other resins in impact modifiers and bio-plastic compounds, while SBS is used as a special additive for asphalt modifiers to impart various functions. Aerogel, with its high insulation and durability properties, is used for industrial insulation applications and battery thermal barriers. CNT, with high conductivity and dispersibility, and anode binders, with excellent adhesion and resistance performance, are utilized in lithium-ion batteries.

Rubber, NBL, MBS, SBS  
SBS, Aerogel, CNT, Binder



## Applications



Tires



Medical Gloves



Petrochemical plant Insulant



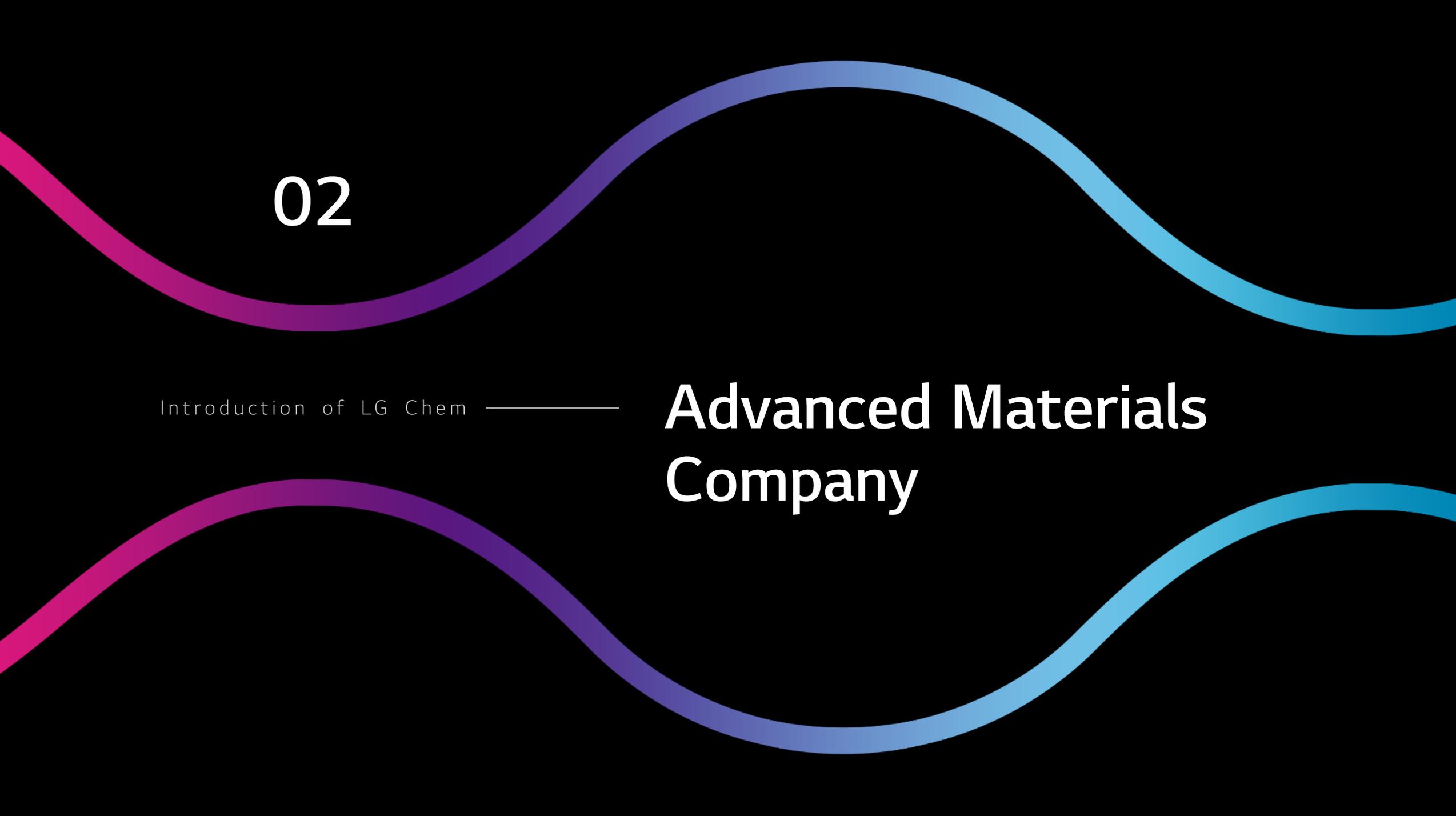
Impact modifiers



Asphalt



Lithium-ion batteries

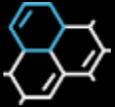


02

Introduction of LG Chem

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# Advanced Materials Company



# Advanced Materials Company

**Establishment** (year)

1999

**Sales** (₩)\* As of 2025

4.1trn (Approx.)

**Workforce** (Person)

Domestic 3,628 / Overseas 1,614

**Business Area**

Battery Materials,  
Engineering Materials,  
Electronics Materials,

- **2024** Signed a 25 trillion KRW supply contract for cathode materials with GM
- **2023** Started construction of Cathode Material Plant (in Tennessee)
- **2022** Established a cathode material joint venture LG-HY BCM (in Gumi)  
Established a separator joint venture LG-Toray (in Hungary)
- **2021** Commercialized battery separators  
(Acquired separator business from LG Electronics)
- **2019** Reorganized Advanced Materials Company  
(to provide customized solutions in high-performance materials)
- **2018** Established Chinese joint venture for manufacturing  
Precursor and cathode material
- **2016** Acquired GS E&M, a renowned cathode manufacturer
- **2006** Commercialization of battery materials (cathode material, electrolyte)
- **2003** Established IT&E Manufacturing Subsidiary in Nanjing, China
- **2000 ~ 2004** Commercialized LCD, OLED, Process materials
- **2000** First to develop PDP fluorescent substance in Korea.

# Technology Leading Global Top-tier Battery & Electronic Materials



## Advancing Technology Leadership In Next-Generation Battery Materials

- Accelerating the Development of innovation Materials
  - High-performance Cathode Materials (High Voltage / Cost Innovation)
  - High-Safety, Eco-Friendly Separators



## Establishing New Growth Engines In Electronic Materials

- Developing New Material opportunities for Semiconductors and Automotive applications to Drive Business Expansion
- Diversifying the Customer Base for Display Materials and Preparing for the Future



## Leading Future Technologies and Driving Innovation Acceleration

- Expanding Strategic R&D Investments
  - Securing Core Technologies Centered on Winning Technologies
- Strengthening R&D Execution Capabilities Based on AX

# Battery Materials

In addition to cathode binders and dispersants, LG Chem is producing over 10 types of battery materials, including cathode materials and separators, which are core materials for secondary batteries.

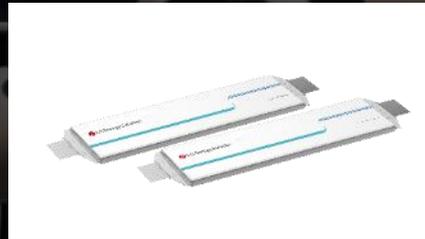
We are also bolstering R&D across a wide range of fields, such as developing new materials for the technological advances in the next-generation batteries.

LG Chem will continue to strive to become the world's No. 1 comprehensive battery materials company with the highest level of safety and competitiveness.

Cathode materials  
Separators etc.



Applications



Automotive batteries



Mobility & IT batteries



ESS batteries

Major Customers



# Engineering materials

In mega trends such as e-mobility and sustainability, LG Chem is striving to create world no. 1 products by producing high-strength, lightweight automotive materials and eco-friendly PCR materials that are optimized for customer products and processes.

EPC (PC, PBT, PA , etc.)



Applications



Automotive interior and exterior materials



Engine parts



Recycled materials(PCR)

Major Customers



# Electronics Materials

LG Chem produces light-emitting materials for OLEDs and semiconductor back-end process materials, which are key materials for IT devices. We are also working to accelerate the growth of our electronic film and adhesive products used in e-mobility.

Display Materials,  
Advanced semiconductor,  
E-mobility Materials



Applications



OLED Mobile/TV



Board for Semiconductor packages



Automotive interior and exterior parts

Major Customers



03

Introduction of LG Chem —————

# Life Sciences Company



# Life Sciences Company

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## Establishment (Year)

1984

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## Sales (₩) \*As of 2024

1.4trn (Approx.)

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## Workforce (Person)

Domestic 1,828 / Overseas 293

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## Business Area

Oncology, Diabetes,  
Metabolic Disorders, Vaccines

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- **2024** Export of new drug technology for rare obesity treatment (to Rhythm Pharmaceuticals in the USA).
- **2023** Acquired AVEO, a US-based cancer drug company
- **2022** Applied for global Phase III clinical trial for Tigulixostat (new drug for gout) in the US
- **2021** Established LG Jiansheng Life Science in China  
Successfully completed Phase II clinical trial for new gout drug in the US
- **2019** Established Life Sciences Innovation Center in Boston, US (Now LG Chem Life science USA, Inc.)
- **2012** Developed 1<sup>st</sup> Korean diabetes medicine, 'Zemiglo'
- **2003** 1<sup>st</sup> Korean new chemical entity (NCE) approved by U.S. FDA (Factive)
- **1996** 1<sup>st</sup> Korean hepatitis B vaccine 'Euvax' approved by WHO PQ
- **1991** Developed World's first 4<sup>th</sup> generation Cephalosporin
- **1984** Start of pharmaceutical business (Established Pharmaceuticals business division)
- **1961** Acquire of manufacturing license pharmaceuticals products

# An Oncology-focused Global Specialty Pharma Company



## Strengthening the Oncology Innovative Drug R&D Portfolio

- Enhancing the Quality and Efficiency of the New Drug Pipeline
- Expanding and Accelerating Global Oncology Clinical Programs
- Sustaining Investment in New Drug R&D



## Expansion of Global Business

- Securing Market Leadership in Renal Cancer in the U.S
- Strengthening the Global Oncology Product Portfolio
- Maximizing Growth Potential through Expanded Partnerships



## Market Leadership & Overseas Market Expansion

- Strengthening Market Position of Leading Products
- Securing Next-Generation Flagship Products
- Expanding into Asian Markets, Including Thailand

# Primary Care

LG Chem has strengthened its competitiveness in both domestic and global markets by developing Korea's first diabetes treatment, Zemiglo, as well as the osteoarthritis treatment Synovian and the anemia treatment Espogen.

The company is also expanding its new drug development and global partnerships across key therapeutic areas, including diabetes, musculoskeletal disorders, cardiovascular diseases, and autoimmune diseases.

## Representative Products



Diabetes (Zemiglo, Zemimet SR, Zemidapa)



Musculoskeletal Disease (Hyruan One)



Anemia (Espogen)



Autoimmune Disease (Eucept)

# Specialty Care

LG Chem successfully developed Korea's first growth hormone stimulator and is dedicating its R&D capabilities to the development of specialty pharmaceuticals, including infertility treatments. In addition, the company is strengthening its position as a global supplier of essential vaccines through the provision of WHO-prequalified pentavalent vaccines and polio vaccines.

## Representative Products



Grow Hormone (Eutropin S pen)



Ovulation Induction (Follitrope)



Pentavalent Combinatin (Eupenta)



Polio Vaccine (Eupolio)

# AVEO Oncology

AVEO Oncology, acquired by LG Chem in 2023, is an oncology-focused biopharmaceutical company based in Boston, U.S.

Approved by U.S. FDA in 2021, AVEO is expanding its Kidney cancer drug(Fotivda®) sales, and is accelerating pipeline development including Head and Neck cancer drug.

Through AVEO Oncology, LG Chem aims to strengthen competitive edge in U.S. market for New drugs and become a global leading Oncology company.

## Representative Product



Kidney Cancer Drug FOTIVDA®

## Pipeline

Projects	Indications	Stage
Ficlatusumab	Head and Neck Cancer	Phase III
Ficlatusumab	Acute Myeloid Leukemia	Phase I
Rilogrotug	Cancer Cachexia	Phase I



# THANK YOU

*We*ConnectScience

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