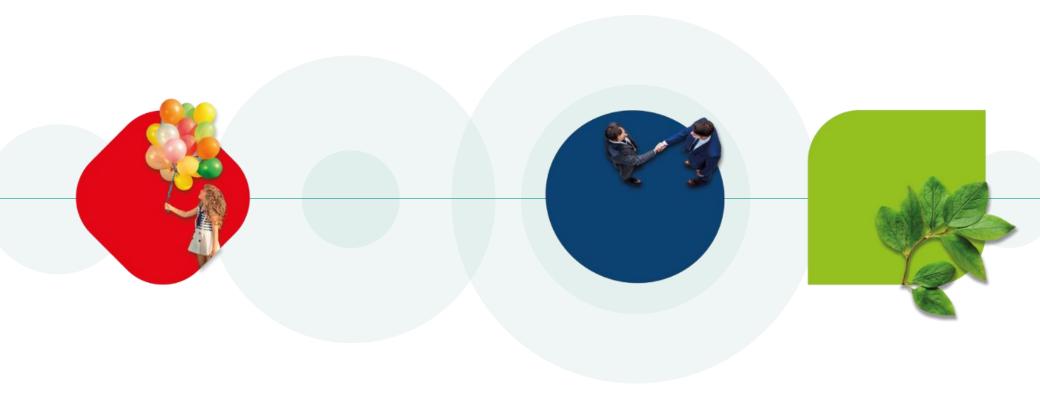
LOTTE CHEMICAL CORPORATION

COMPANY PROFILE







CONTENTS

- / LOTTE GROUP
- / LOTTE GROUP Chemical Head Quarter
- / LOTTE CHEMICAL CORPORATION
- / LOTTE CHEMICAL Business Overview



LOTTE GROUP

LOTTE, a Lifetime Value Creator that enriches the lives of all.

LOTTE continues to challenge beyond and pursue innovation across the diverse areas of food, retail, tourism and chemicals to offer the most up-to-date lifestyle.

LOTTE aims to create a flourishing future of shared growth for all, paired with a life of greater convenience and delight.





New Today, Better Tomorrow

VISION

Lifetime Value Creator

MISSION

We enrich people's lives by providing superior products and services that our customers love and trust.

LOTTE possesses a stable financial structure that lays the foundation for continuous sustainable growth. Committed in a diversified business portfolio of chemical, shopping, food, hotel, construction, rental, and more.

Total revenue 64.9 trillion KRW (2020)

* Since 2017, total revenue has been reported in financial accounting standards instead of management accounting standards.





Subsidiaries

86 (2021)



Business ranking in Korea

 $5 \, \mathrm{th}$



 $\textbf{Asset}^{\ (1)}$

125.7 trillion



Sales (2)

56.4 trillion

^{*} Source: May 2021 announcement by the Korea Fair Trade Commission

^{*} Note: Excluding public corporations and asset-based

(1) Fair assets (2) Fair sales (based on domestic market sales, excluding internal transactions)

LOTTE GROUP's Chemical Head Quarter

LOTTE Group Chemical Division leads the chemical industry in Korea built upon a history of challenges and innovation

LOTTE Group's Chemical Division, consisted of LOTTE CHEMICAL, LOTTE FINE CHEMICAL, LOTTE ALUMINIUM, LC TITAN, LC USA, offers products that enhance the value of life ranging from basic materials to high value-added & specialty products, headed to become the world's best chemical company.



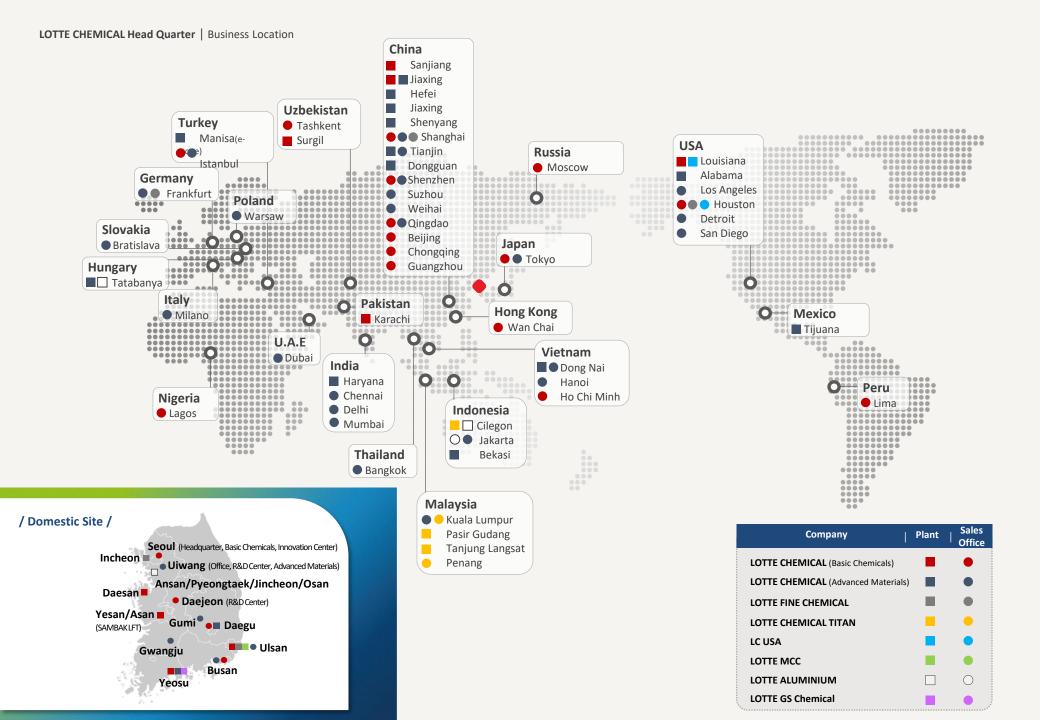
LOTTE Group's chemical unit has expanded to 22 countries across the globe, including Asia and Europe. Its business portfolio ranges from chemical raw materials to polymers, monomers, aromatics, synthetic rubbers, interior/construction materials, and even high-value businesses such as engineering plastics and fine chemicals.

LOTTE GROUP's Chemical Head Quarter

- · LOTTE CHEMICAL
- · LOTTE FINE CHEMICAL
- LOTTE ALUMINIUM
- · LOTTE CHEMICAL TITAN
- · LC USA
- LOTTE MCC
 [JV with Mitsubishi Chemical (JPN)]
- LOTTE MITSUI CHEMICALS
 [JV with Mitsui Chemicals (JPN)]
- LOTTE INEOS CHEMICAL [JV with INEOS (UK)]
- LOTTE Versalis Elastomers
 [JV with Versalis (ITA)]
- LOTTE GS Chemical [JV with GS Energy (KOR)]



[LOTTE CHEMICAL]





Global leading chemical company

that creates a healthier humanity and enriches lifestyle through creative challenges and innovations



(2021)



Employees

10,765

Domestic 4,981, Overseas 5,784

(Including major domestic & foreign subsidiaries)



Sales Status

18,120 billion KRW



Total Equity

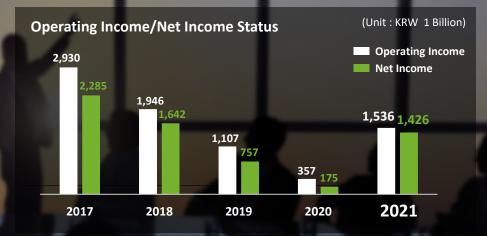
15,451 billion KRW



Operation Income

1,536 billion KRW





STOCK INFORMATION

As of February 25. 2022 (%)

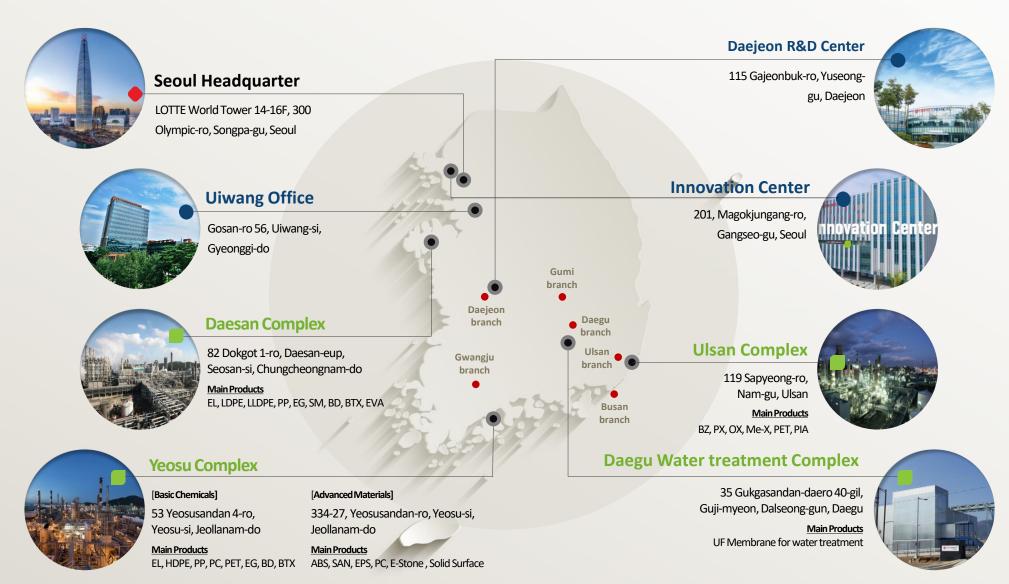
Other Stockholders 46.69%

LOTTE Corporation (The largest shareholder) 25.59%

LOTTE Property & Development 20.00%

National Pension Service 7.72%

LOTTE CHEMICAL is located in Seoul HQ, Uiwang Business Office, Magok/Daejeon Research Centers. And operates three major petrochemical complexes in Korea – Yeosu, Daesan and Ulsan.







22

countries



26 **Production** Base



Exported to 120 countries

Manufacturing/sales Manufacturing Corporation

18

Basic Chemicals: 7 Advanced Materials: 11

Corporation

Basic Chemicals: 2 Advanced Materials: 1

Sales Corporation

Basic Chemicals: 3 Advanced Materials: 6

Branch

Basic Chemicals: 7

Branch / Office

22

Basic Chemicals: 4 Advanced Materials: 18

LOTTE CHEMICAL is leading Korea's chemical industry through active changes and challenges, and will build the history of creation to become the world's top chemical company.

1970 - 2000

1976.3

Established Honam Petrochemical

1979.6

LOTTE Groups, Acquired Honam Petrochemical

(Privatization completed)

1979.12

all plants

1982.11

1991.5

Completed construction of the Daejeon R&D Center





2010-2019

2010, 11,

Acquired TITAN Chemicals (LOTTE CHEMICAL TITAN)

2011, 11,

2012, 12

Merged KP Chemical and changed the corporation name to "LOTTE CHEMICAL"

2014.4

Established Hyundai Chemical (JV with Hyundai Oil Bank)



Established LOTTE MITSUI CHEMICALS



2020 - Present

2020.1

Merged LOTTE Advanced Materials

2020.2

Established LOTTE-GS CHEMICAL (JV with GS Energy)

2021.2

Announcement of Eco initiative 'Green Promise 2030'

Started commercial production at

Achieved USD 100 Million Export

Initial public offering

1991.6

2000-2010

2003.6

Acquired Hyundai Petrochemical (LOTTE CHEMICAL Daesan Plant)

2004.7

Acquired KP Chemical (LOTTE CHEMICAL Ulsan Plant)

2006.7.

Established Honam Petrochemical Trading in Shanghai (The first subsidiary in China)

2006.8.

Established LOTTE MCC (JV with Mitsubishi Chemical)



2015, 10

Completed the Uzbekistan gas project (UZ-Kor)

2016.5

Acquired LOTTE ADVANCED MATERIALS, LOTTE FINE CHEMICAL from SAMSUNG Group

2019.5

Completed construction of the Ethane Cracking Center and Ethylene Glycol Plant in U.S.

2021.7

Announced the '2030 Hydrogen Growth Roadmap'

2022.1

Investment in the Indonesia LINE project (3.9 billion USD)

2022.4

Establishment of the

'Hydrogen energy business division' and

'Battery materials business division'





We Lead Every Step for a Greener and Better Tomorrow

Every Step for GREEN.



People Oriented

Value toward people – stability and harmony



Forward Thinking

Start of innovation – products and technology



Life Enriching

Abundant life and sustainable future

GREEN PROMISE 2030



Net - Zero

Carbon neutral and eco-management



Circulation and Coexistence

creation of circulating/coexisting social values



Green Innovation

Leading sustainable future industries

LOTTE CHEMICAL's research center is constructing an assorted product portfolio through ceaseless platform technology procurement and development of high-value products, while continuously strengthening its R&D infrastructure.

Furthermore, it is creating new value for the future by leading eco-friendly technology development.



Basic Chemicals

PolyolefinAromaticMonomerCatalyst & processEco-firendlyEnergyPE, PPPET, PIA, PTAEO(A), EG, PIAMetallocene · Z-N Catalyst,
Computational Chemistry,
New Process DevelopmentRecylced/BioBattery Material
plastic

Advanced Materials

Engineering plastics Fur PC, PP/PC Compounds

Functional materials

ABS, ASA, EPP HMSPP, TPV, etc

Construction & Interior Materials

UF Membrane for water treatment

Innovation Center

Future business exploration

Future trend analysis

environmental solutions

Waste-to-energy, carbon collection & utilization

Provision of



OUR BUSINESS

LOTTE CHEMICAL possesses international-scale production facilities in the major Korean petrochemical complex of Yeosu, Daesan and Ulsan

The diverse product lineup of LOTTE CHEMICAL such as synthetic resins, basic petrochemicals, monomers, construction/interior materials, etc. and they are being applied in everyday goods as well as for farming, industry, medical products, automobiles, and advanced new materials.

Basic Chemicals

- Basic/Intermediate Petrochemicals
- Polymers, Monomers, Aromatics

Advanced Materials

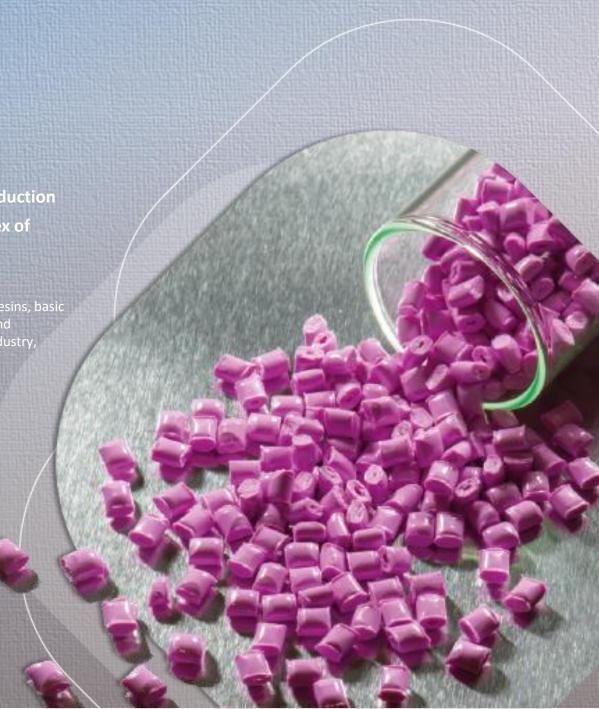
- High Performanced Plastics
- Construction Materials
- Water Treatment Membrane

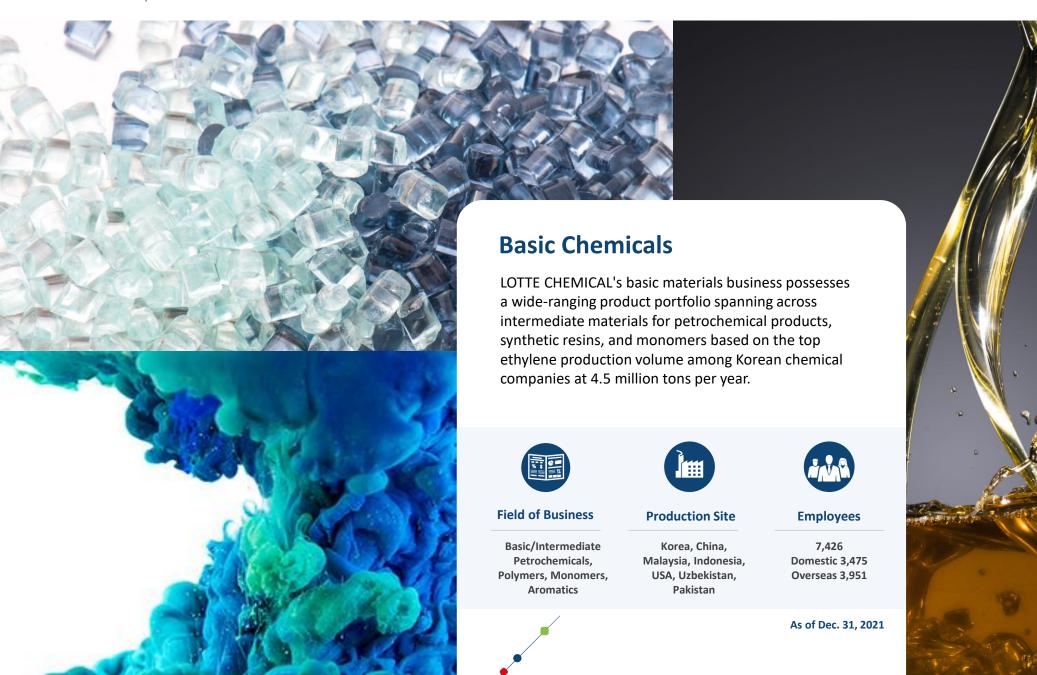
Hydrogen energy business

- By-product / reformed hydrogen
- Clean hydrogen and ammonia
- Hydrogen energy utilization business

Battery material business

- LiB battery materials
- Solid-state battery materials
- Vanadium battery materials





Basic / Intermediate Petrochemicals

LOTTE CHEMICAL has global petrochemical production bases in the US, Malaysia, Indonesia, Uzbekistan, as well as in Yeosu, Daesan and Ulsan, and it is producing a variety of chemical product materials using diversified petrochemical raw materials such as naphtha, LPG and ethane.



[Malaysia, Indonesia] LC

Uzbekistan Uz-Ko

Advanced Materials

LOTTE CHEMICAL's Advanced materials offer specialized material solutions for innovating customer products throughout various businesses ranging from materials for household appliances and internal/external materials of IT devices, and high-tech materials for construction, medical devices, and automobiles.



Field of Business

Plastics,
Construction Materials,
Water Treatment Membrane



Production Site

Korea, China, Mexico, Hungary, Vietnam, India, Turkey

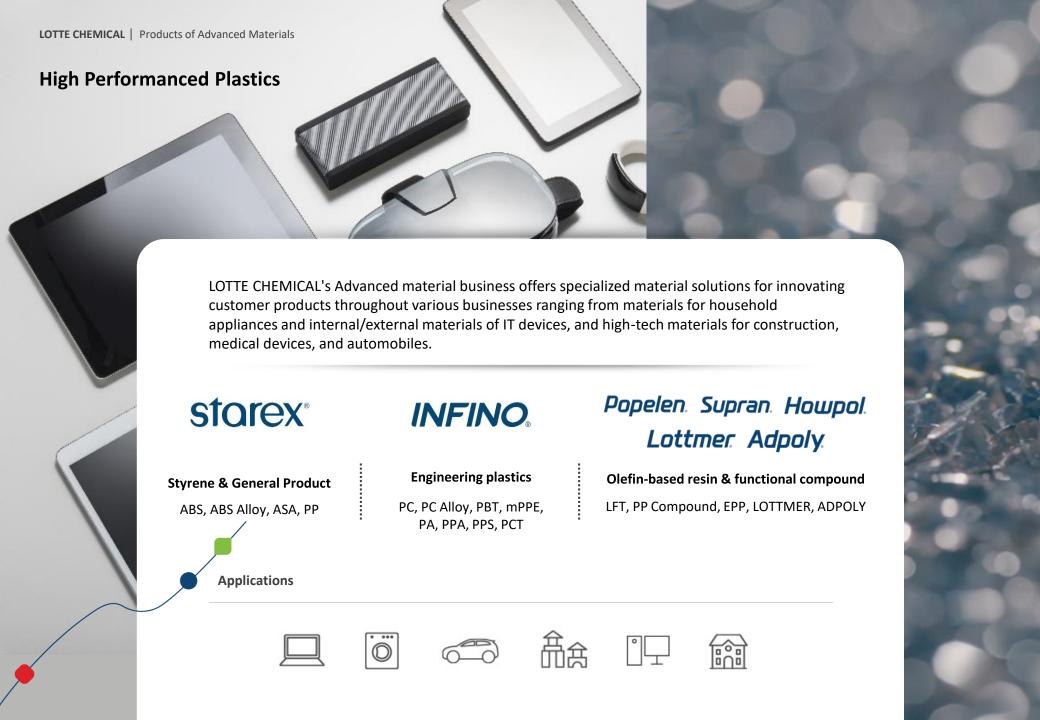


Employees

3,339 Domestic 1,506 Overseas 1,833

As of Dec. 31, 2021





Construction / Interior Materials & Water Treatment Membrane



The construction/interior materials of LOTTE CHEMICAL supplements the weaknesses of native rocks and it is applied in various spaces by enhancing aesthetics and functionality to create a beautiful and pleasant living space.

Furthermore, LOTTE CHEMICAL offers clean and safe water based on the world's best water-treating separation membrane technologies..

Construction / Interior Materials

storon[®]

Acrylic solid surface

Radianz®

Natural quartz engineered stone

Locelain°

Engineered porcelain surface

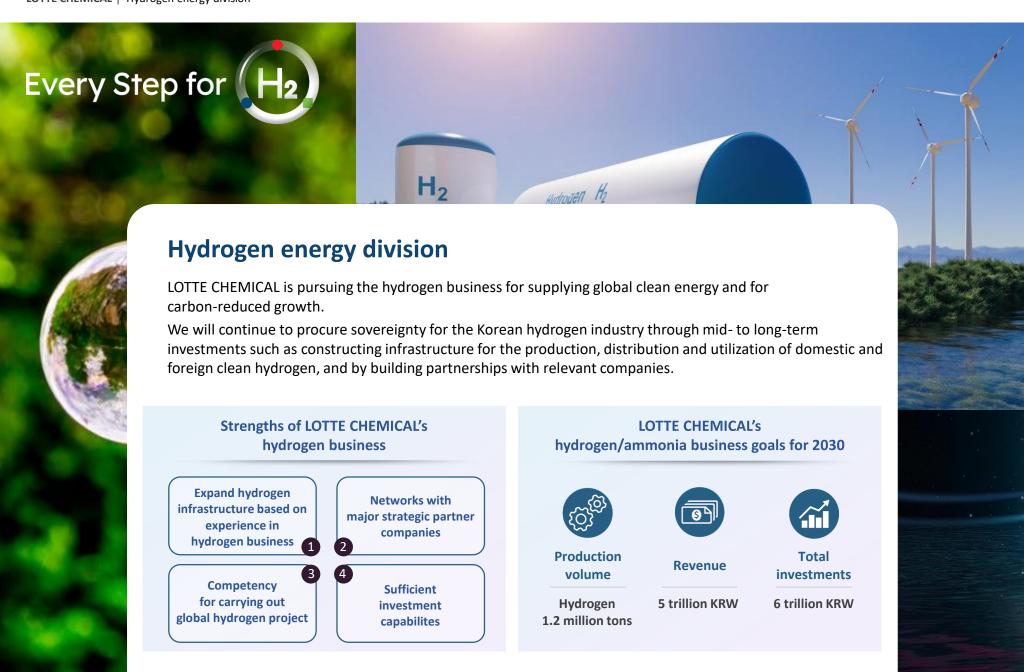
Water Treatment Membrane



UF Membrane for water treatment

Product

Membrane, Module, Cassette







Battery materials division

LOTTE CHEMICAL is expanding its battery materials business to keep pace with the growing demand for batteries and eco-friendly mobility. We will grow into a global supplier specializing in battery materials by collaborating with subsidiaries in the LOTTE Group's Chemical Unit and companies possessing core technologies, and through the multifaceted development of battery

Strengths of LOTTE CHEMICAL's Battery materials business

Global business capacities

Networks with major strategic partners

Sufficient investment funds

Assertive will to invest

LOTTE CHEMICAL's Battery materials business goals for 2030

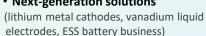


Business

• Lithium-ion battery materials (anodes, cathodes, separation membranes,

electrolyte organic solvents)

• Next-generation solutions





5 trillion KRW

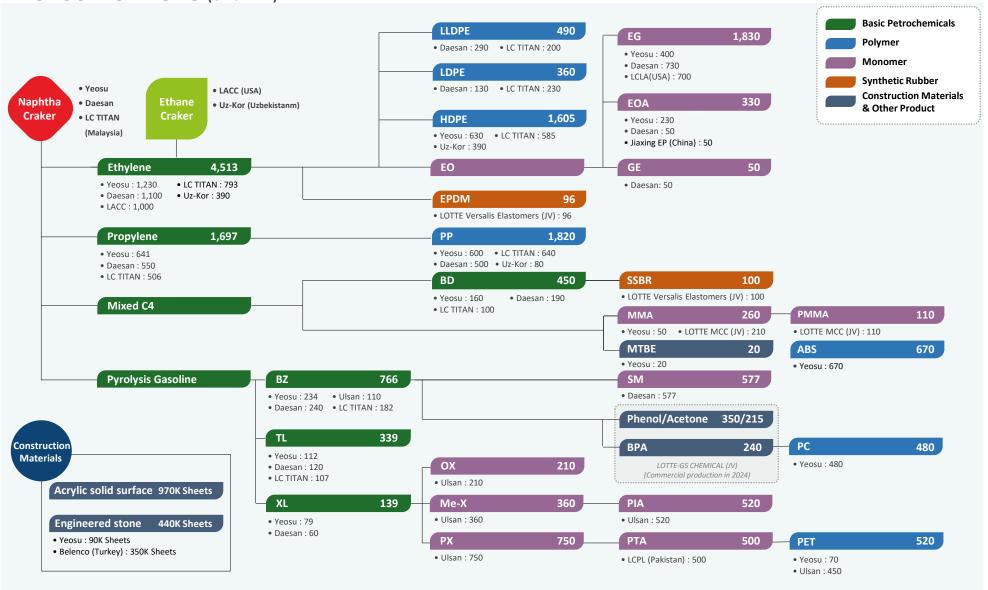


4 trillion KRW

Total investments

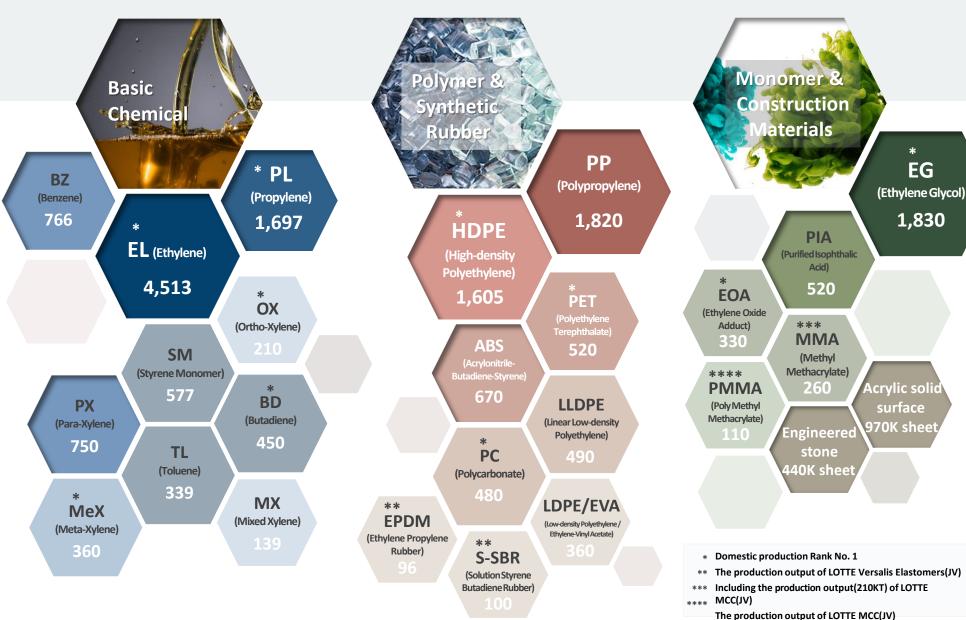


PRODUCT PORTFOLIO (Unit: KTA)



^{*} Source: [2022 Korea petrochemical statistics]

CAPACITY (Unit: KTA)



New Business / Joint Venture

Joint venture with Hyundai Oilbank in the HPC Project		
Business Contents	Investment in construction of ethylene plant and petrochemical complex based on petroleum residuum	
Total Investment cost	3,364 billion KRW	
Products	Ethylene 950KTA, Propylene(PL) 510KTA	

PE 850KTA, PP 500KTA, BD 185KTA

Commercial In trial production Production

Investment in production facilities of Battery electrolyte organic solvent

Business Implementation of eco-friendly EV
Contents battery electrolyte organic solvent
production facility

Total Investment cost EC/DMC 210 billion KRW EMC/DEC 140 billion KRW

Products EC/DMC 48KTA EMC/DEC 68KTA

Commercial EC/DMC 2023 Production EMC/DEC 2024

D-EOA Expansion Project

D EGA Expansion i roject		
Business Contents	High-value specialty material EOA for construction and expansion of raw material HPEO production line	
Total Investment cost	250 billion KRW	
Products	HPEO 250KTA, EOA 150KTA	
Commercial	2023	

GS Energy joint venture 'LOTTE-GS Chemical'

Daesan

Business Contents	New joint venture business for stable procurement of PC product raw material(C3 product) and to
	increase C4 petrochemical products

Total 950 billion KRW Investment cost

Products [C3] Phenol 350KTA, Acetone 215KTA, BPA 240KTA [C4] BD 90KTA, TBA 70KTA, BN-1 40KTA, MTBE 15KTA

Commercial [C3] 2024 / [C4] In trial production Production

Chemical Recycling PET Project

Business Waste PET chemical recycling plant for plastic Contents Circular economy

Total Investment cost

Production

Ulsan

Products BHET 45KTA, C-rPET 110KTA

Commercial 2024 Production

* BHET: bis-hydroxyethyl terephthalate (process for converting polymers to raw materials)

Indonesia LINE Project

Business
Contents
Construction of first naphtha cracking center(NCC)
in Indonesia and vertical integration with existing
Polyethylene (PE) plant

Total Investment cost 4,877 billion KRW (3.9 billion USD)

Products

Ethylene 1,000KTA, PL 520KTA, PP 250KTA, etc

Commercial Production

al 2025

* LINE Project : LOTTE Indonesia New Ethylene Project

Cilegon (Banten, Indonesia)



* HPEO: High Purified Ethylene Oxide) / EOA: Ethylene Oxide Adduct

^{*} HPC: Heavy Feed Petrochemical Complex

^{*}EC: Ethylene Carbonate / DMC: Dimethyl Carbonate EMC: Ethyl Methyl Carbonate / DEC: Di Ethyl Carbonate

^{*} C-rPET: Chemical recycling PET

AWARD & CERTIFICATION



OK

SPE Award



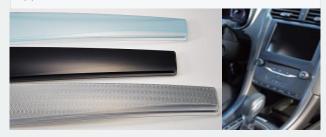
[2014]

Non-stamped metallic materials Luminous PC/ABS

Application in the 2015 Ford Mondeo

[2017]

Dual injection dimensional patterns Luminous ABS+PC Application in the 2018 Ford Fiesta



IR52 Jang Young Sil Award



[2013]

Interior

LFT rear seat cushion frame

[2018]

Engine room

thermal aging blocking PPA

[2017, 2020, 2021]

PC alloys for TVs

thin film/highly-durable materials

NET new technology certification

strengthening long-fiber compound material

Development of carbon fiber

[2015]

[2013]

Automobile interior

dual injection dimensional patterns technology

Automobile interior

non-stamping foaming injection technology

[2016]

Engine room

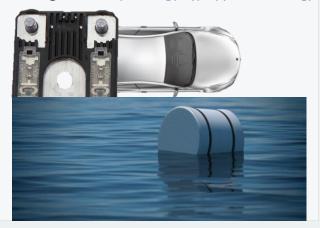
thermal aging blocking PPA technology [2017]

Automobile injection stiffener

3D-tow insert technology

[2020]

Floating eco-friendly foaming polypropylene technology



iF Design



[2015, 2016]

- Touch, paper texture, emotional materials
- Starex® extrusion ABS, thin film vacuum molding resin
- Resin with colors changed by LED



reddot Award



reddot design award

[2016, 2017, 2018, 2020, 2021]

- starex[®] Luminous XM
- Metal contact plastic PBT/GF
- Color Blending Effect in Plastics
- Meeting space that applied anti-bacterial Staron®
- Natural lighting and plastic for peace of mind









Top talents driving execution

· Attracts Top Talent

· Action Oriented

New opportunities and tough challenges with high energy and enthusiasm

Top talents in their fields who take on

· Collaborates

· Values Differences



Harmonious talents respecting diversity

Talents who recognize values of different perspective and culture to organization therefore collaborate for shared objectives

Expert

Talents with business Insight and Strategic Mindset

Talents who anticipates future possibilities and build strategies within knowledge of business and the marketplace to reach organizational goal

- · Strategic Mindset
- · Business Insight



Talents who are self-develope runder responsibility

- · Drives Engagement
- · Ensure Accountability

Talents who do their best to achieve organizational goal based on sense of ownership and accountability



MISSION

We enrich people's lives by providing superior products and services that our customers love and trust



05551

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