



# Future in Business Solution

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LX International contributes to enhancing customer competitiveness by delivering value that exceeds expectations.  
We discover and provide differentiated customer value to shape the future of Business Solution.

2025

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## About LX

- + Overview
- + History
- + Affiliates



## About LX International

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## LX International Business Overview

- + Natural Resources Development
  - Minerals
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  - Industrial Materials & Components
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- [Link to a sustainable Future](#)
- 

# About LX

+  
**Overview**

+  
**History**

+  
**Affiliates**

LX is a leading business group in Korea that creates new value by connecting advanced technologies with customers’ lives, building on the legacy of its founding company, which has long transformed everyday life through innovation.

(as of 2024)

\* Figures do not include performance and headcount of LX Holdings.

Total Revenue

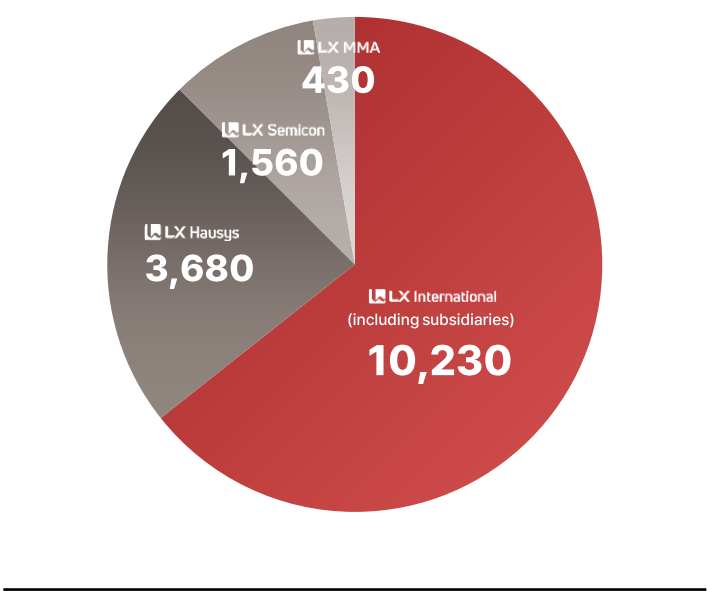
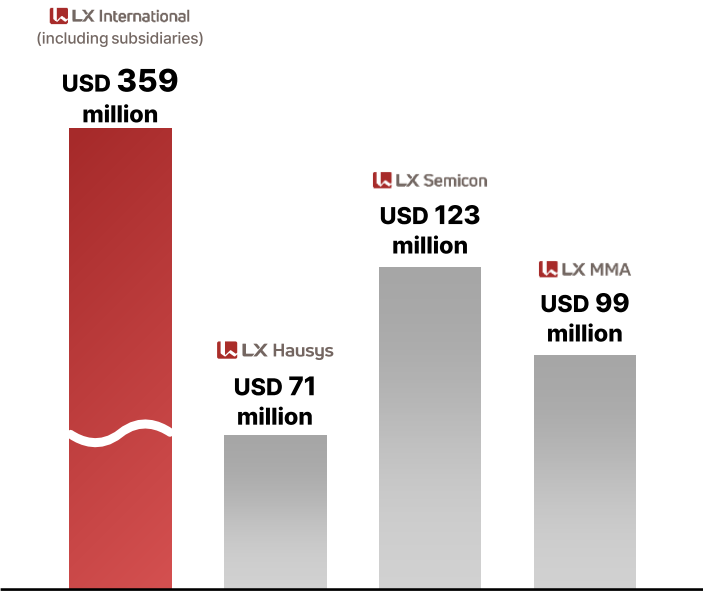
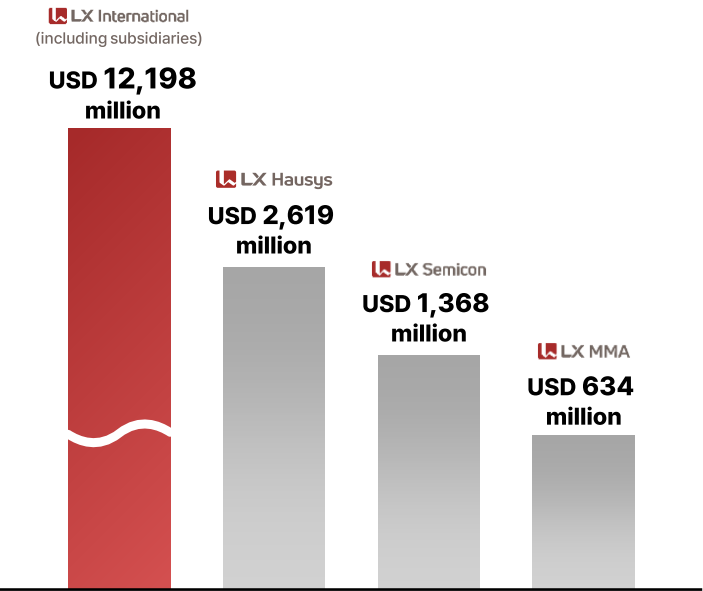
USD 16,818 million

Operating Profit

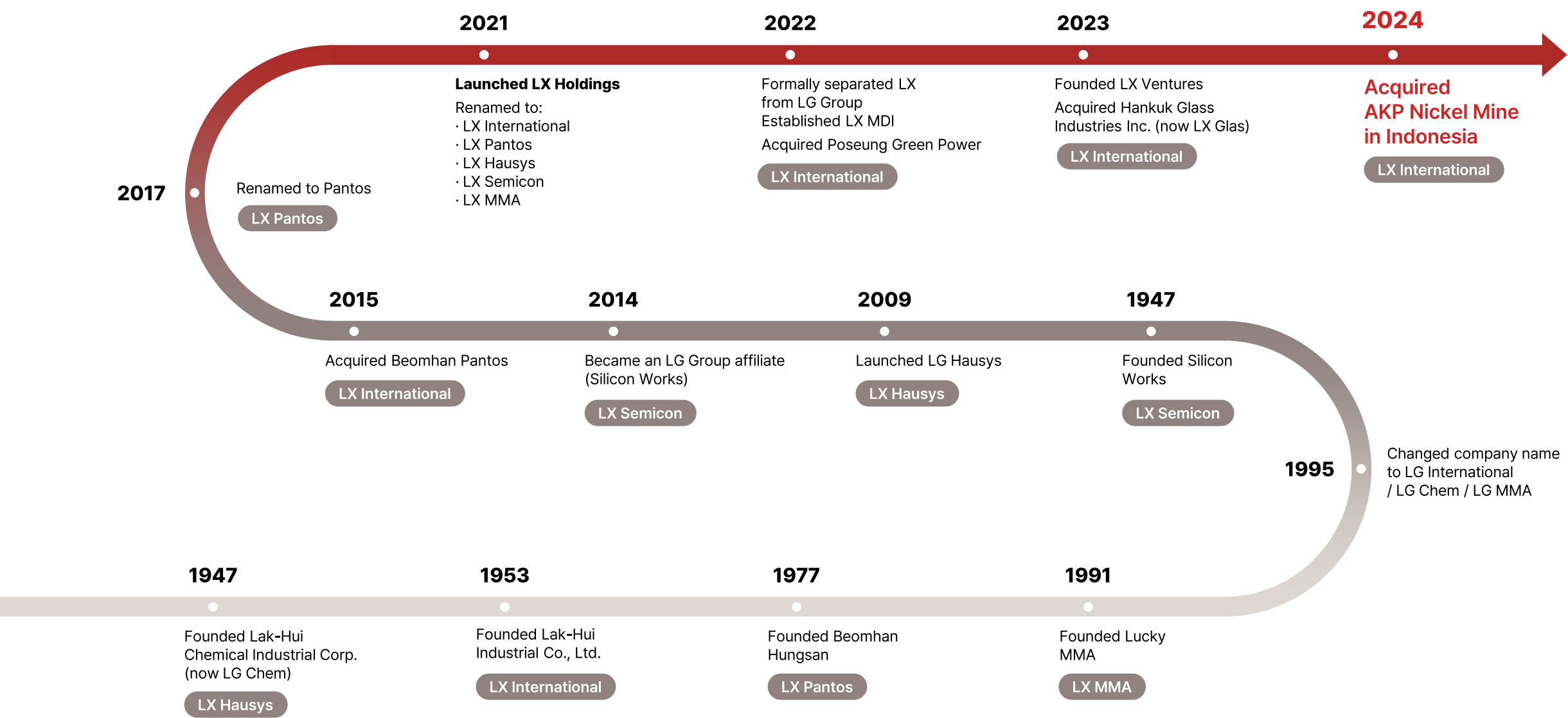
USD 651 million

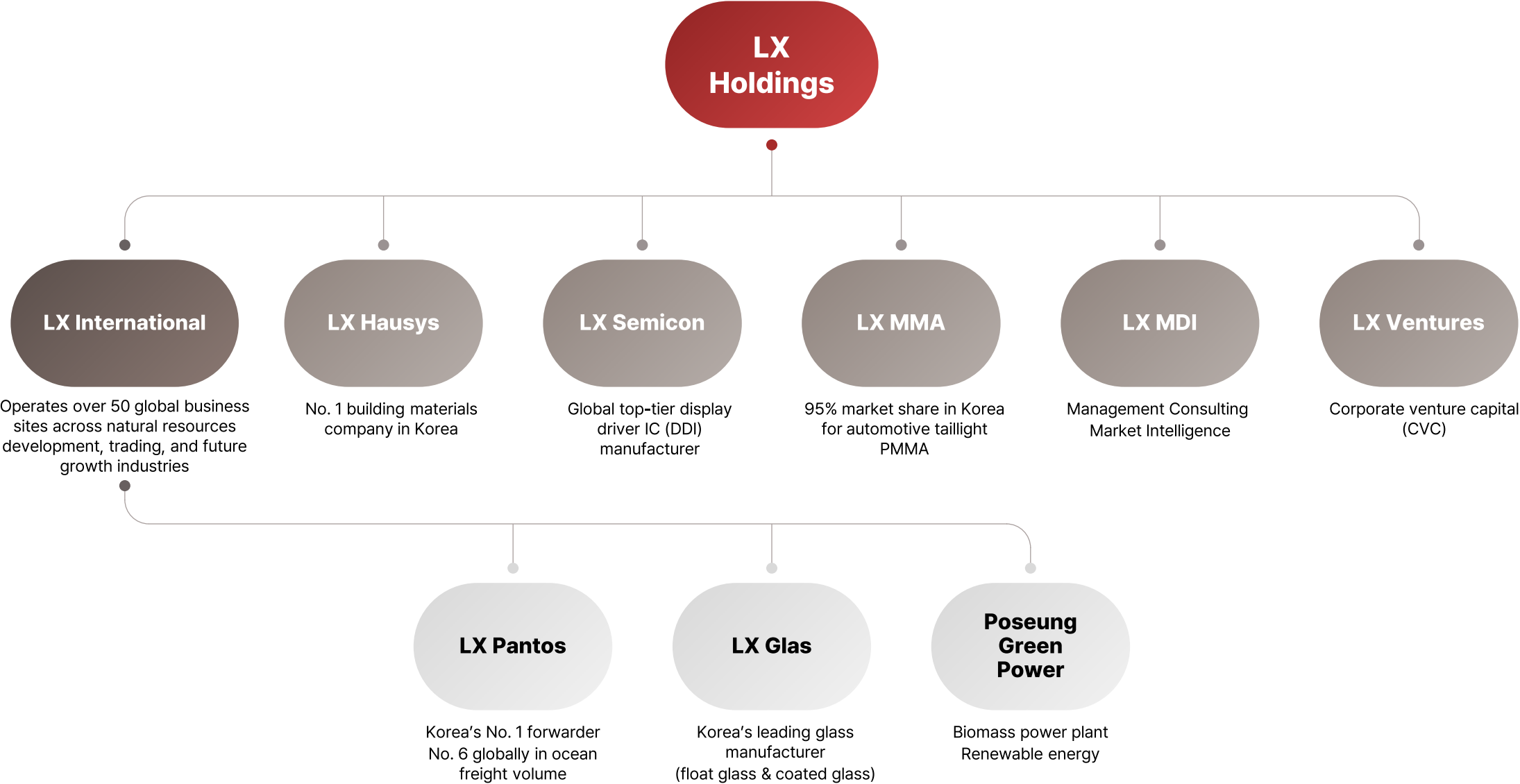
Total Employees

15,900











# About LX International

+

**Overview**

+

**Management  
Philosophy**

+

**History**

+

**Subsidiaries**

+

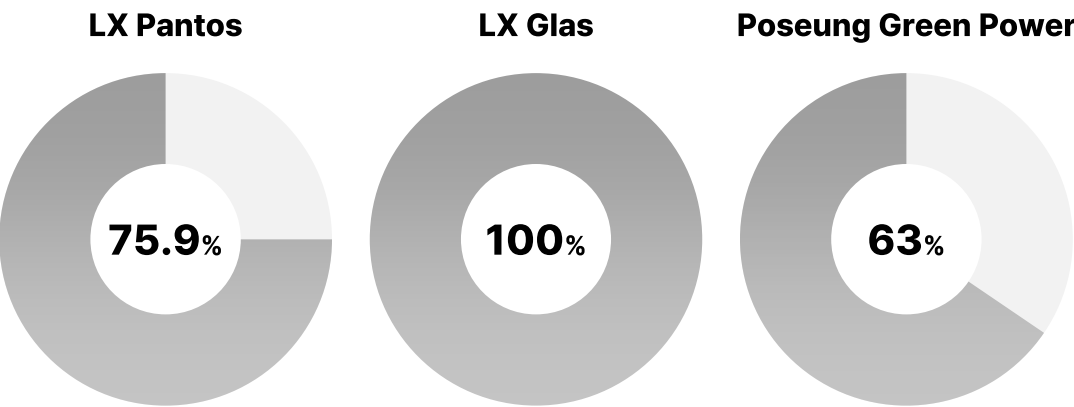
**Global  
Networks**

LX International contributes to strengthening customer competitiveness by delivering value that exceeds expectations. We discover and provide differentiated customer value to shape the future of Business Solution.



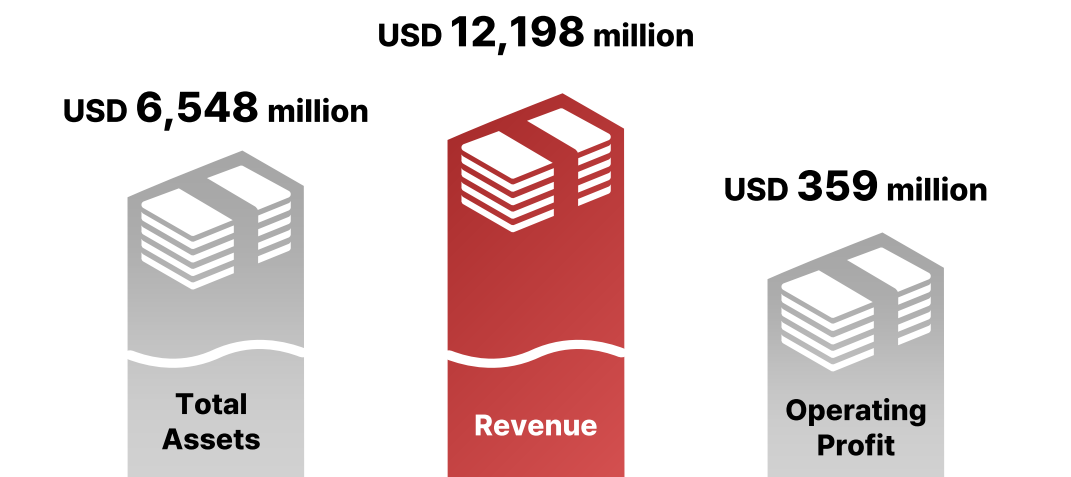
Key Subsidiaries

(Equity stakes in consolidated subsidiaries)



Business Performance

(as of 2024)





# Future in Business Solution

+

## Vision

LX International creates business solutions that preemptively solve client's pain points and differentiated values.

+

## Mission

- Provide Critical resources to humanity
- Develop new business solutions
- Improve Client's competitiveness

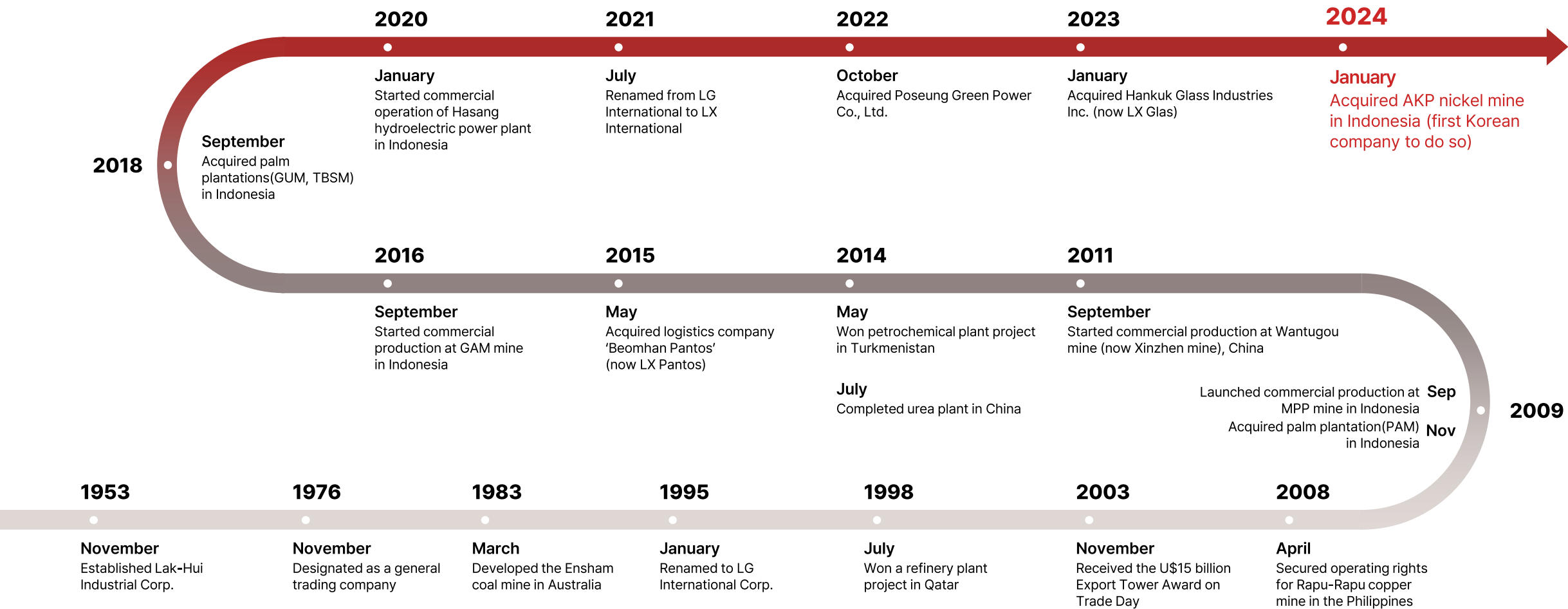
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## Principles

- Stand by client's side always
- Try something new and difficult
- Become competitive talents
- Break down organizational barriers


LX International is dedicated to creating customer value and enhancing business value based on its vision of Future in Business Solution, aiming to become a forward-thinking and innovation-driven company.

Since its establishment in 1953 as Lak-Hui Industrial Corp., LX International has continuously evolved and grown, building the foundation of Korea’s trade industry and contributing to national economic development.







# LX Pantos




**Freight Transportation**  
(Sea / Air / Rail)




**Contract Logistics**



**Project Logistics**



**e-Commerce Logistics**

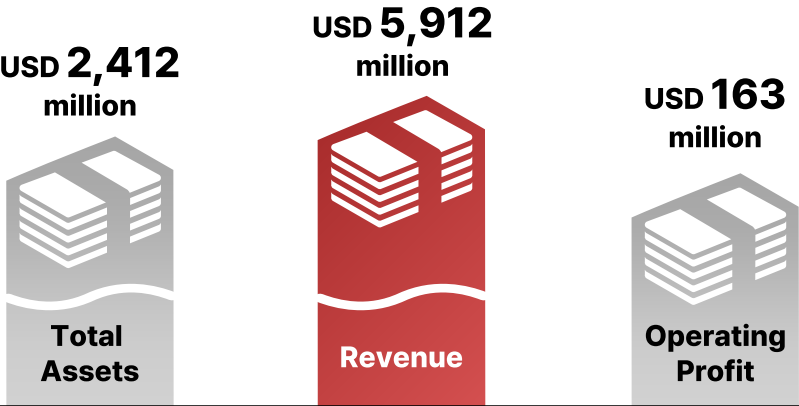


**SCM & Logistics Consulting**

LX Pantos is Korea’s leading global logistics company, solidifying its position as a comprehensive logistics provider.

With an expansive global network and advanced logistics information systems, the company connects major ports and airports around the world—creating value beyond logistics through its integrated network systems.

**Business Performance** (as of 2024)



# LX Glas



Flat Glass for Architectural and Automotive Applications



Coated Glass for Architecture



Processed and Specialty Glass


Founded in 1957 as Korea’s first glass manufacturer, LX Glas has become a leader in the Korean glass industry. It built the nation’s largest coated-glass processing plant and secured exceptional technological capabilities. As a leading glass specialist, LX Glas is pioneering eco-friendly and smart residential environments.

## Business Performance (as of 2024)





# Poseung Green Power



Electricity and  
Steam Supply

Poseung Green Power operates a biomass combined heat and power(CHP) plant located in the Poseung Industrial Complex in Pyeongtaek, Gyeonggi-do. Using wood-based biomass as fuel, the plant generates up to 43MW of electricity per hour and also supplies steam to tenant companies within the complex as part of a district energy business.

## Business Performance (as of 2024)

USD 180  
million



USD 48  
million



USD 6.7  
million





Headquarters & Subsidiaries

- Headquarters: Seoul, Korea
- Subsidiaries :  
LX Pantos (Seoul)  
LX Glas (Seoul, Gunsan, Ulsan)  
Poseung Green Power (Pyeongtaek)

Regional Strongholds (4)

- Indonesia Regional HQ
- India Regional Office
- China Regional Office
- Middle East Regional Office

Overseas Corporations (7)

- Indonesia
- Japan
- Singapore
- China (Hong Kong)
- China (Shanghai)
- United States
- Europe (Germany)

Overseas Branches (18)

- |                    |             |           |
|--------------------|-------------|-----------|
| • Beijing          | • Bangkok   | • Qingdao |
| • Ordos            | • Dubai     | • Lanzhou |
| • Guangzhou        | • Muscat    | • Yangon  |
| • Shenzhen         | • Moscow    | • Manila  |
| • Ho Chi Minh City | • Istanbul  |           |
| • Hanoi            | • Mumbai    |           |
| • Taipei           | • New Delhi |           |

Invested Assets (17)

- |  |  |   |
|--|--|---|
| • PT.AKP Nickel Mine (Indonesia)               | • Xinzheng Bituminous Mine (China)             | • Haiphong Steel Processing Plant (Vietnam) |
| • PT.GAM Bituminous Mine (Indonesia)           | • Tianjin Steel Processing Plant (China)       | • PWPC Coil Center (Poland)                 |
| • PT.MPP Bituminous Mine (Indonesia)           | • LG Bohai Chemical Plant (China)              | • LX Sakha Center (Russia)                  |
| • PT.PAM Palm Plantation (Indonesia)           | • Wuwei Cogeneration Power Plant (China)       | • LNG Project (Qatar)                       |
| • PT.TBSM Palm Plantation (Indonesia)          | • Inner Mongolia Urea fertilizer Plant (China) | • Musandam Power Plant (Oman)               |
| • PT.GUM Palm Plantation (Indonesia)           |  |   |
| • PT.BNE Hydroelectric Power Plant (Indonesia) |  |   |



# LX International Business Overview

+

**Natural  
Resources  
Development**

- + Minerals
- + Palm

+

**Trading**

- + Minerals & Oils
- + Industrial Materials & Components

+

**New Growth**

- + Power & Infrastructure
- + Carbon Credits & New Growth





## **Natural Resources Development**



## **Trading**



## **New Growth**

**LX International contributes to enhancing customer competitiveness by delivering value that exceeds expectations.**

We organically link diverse business areas while actively venturing into new fields, building a stable and balanced business portfolio.

To prepare for a sustainable future, we are expanding into promising future businesses aligned with ESG trends.



# Minerals

## Securing Key Resource

LX International is developing strategic mineral resources such as bituminous coal, nickel, and copper in Indonesia, China, and other countries. Leveraging its capabilities in resource development, trading, and project organizing, the company is expanding its presence across the value chain for secondary batteries and electric vehicles. It actively pursues upstream (e.g., key mineral development), midstream (e.g., battery materials supply), and downstream business opportunities (e.g., battery recycling and component supply chain management), strengthening its long-term competitiveness.

### Bituminous Coal Mine Development & Operations

- ✓ End-to-end execution of mine development, investment, production, operations, and sales
- ✓ Continuously expanding volume, diversifying procurement and sales channels

### Investment Asset Status

Type	Bituminous Coal		Nickel	Copper
	GAM Mine	Xinzhen Mine	AKP Mine	Rapu Rapu Mine
Location	Indonesia	China	Indonesia	Philippines
Equity Stake	60%	30%	69.57%	42%
Reserves (Est.)	300M tons	120M tons	36M tons	-
Production (2024)	18M tons	8M tons	1.8M tons	Completed Environmental Restoration

### Nickel Mine Development & Operations

- ✓ AKP Nickel Mine in Indonesia (Acquired in January 2024)

### Nickel Production Expansion Plan



## Pursuing Business Opportunities in 'Future-Critical Minerals'





# GAM Bituminous Coal Mine, Indonesia

## Diversifying the resource portfolio through proven operational capabilities

LX International has successfully operated the GAM bituminous coal mine in Indonesia, leveraging stable operations and strong profitability to build a competitive edge in the resource development sector. Based on this foundation, the company is actively pursuing strategic portfolio diversification into future-critical minerals such as nickel and copper.

+

**Indonesia**

Location

+

**60%**

Equity Stake

+

**18M tons**

Annual Production  
(as of 2024)



# Xinzhen Bituminous Coal Mine, China

## Diversifying the resource portfolio through proven operational capabilities

LX International has invested in a bituminous coal mine located in China's largest coal-producing region, Inner Mongolia. By partnering with a local operator, the company has established a stable and reliable operational structure. The high-calorific-value bituminous coal produced from the Xinzhen Mine is primarily supplied to the domestic Chinese market, strengthening its role as a strategic hub capable of responding flexibly to changes in China's energy demand.

+

**China**

Location

+

**30%**

Equity Stake

+

**8M tons**

Annual Production  
(as of 2024)





## AKP Nickel Mine, Indonesia

### Development of core battery minerals and materials

LX International became the first Korean company to acquire management control of an overseas nickel mine and is currently operating the AKP Nickel Mine in Indonesia. The company is also working to secure additional nickel assets while expanding into the battery materials value chain, including Nickel Sulfate, MHP(Mixed Hydroxide Precipitate), precursors, and cathode materials.

**Indonesia**

Location

**69.57%**

Equity Stake

**1.8M tons**Annual Production  
(as of 2024)



## Rapu Rapu Copper Mine, the Philippines

### New investment in copper assets – a key resource in the power sector

LX International became the first Korean company to acquire management control of an overseas nickel mine and is currently operating the AKP Nickel Mine in Indonesia. The company is also working to secure additional nickel assets while expanding into the battery materials value chain, including Nickel Sulfate, MHP(Mixed Hydroxide Precipitate), precursors, and cathode materials.

+

**Philippines**

Location

+

**42%**

Location

+

**Completed  
Environmental  
Restoration**



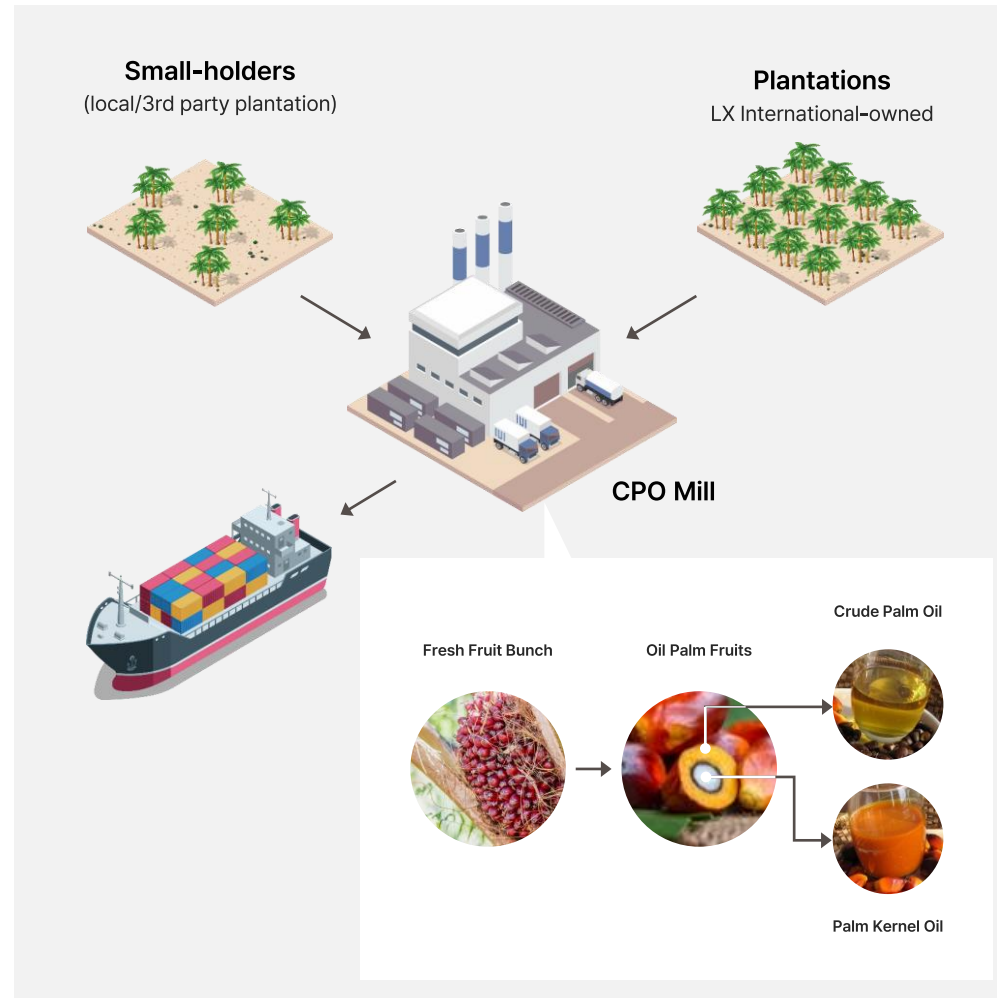
# Palm

## Securing Key Resources

LX International operates three palm plantations and CPO(Crude Palm Oil) production facilities in West Kalimantan, Indonesia. Through these assets, the company ensures stable supply of CPO to the global market.

## Palm Plantation Operations

- ✓ Investment, development, and operation of three palm plantations in Indonesia
- ✓ Production and distribution of Crude Palm Oil(CPO)



LX International has obtained RSPO(Roundtable on Sustainable Palm Oil), a global sustainability certification, as well as ISPO(Indonesia Sustainable Palm Oil), the national certification scheme of Indonesia. The company is building an eco-friendly plantation model by operating biogas power plants that utilize wastewater generated from its plantations.





# Palm Plantations



+

**Indonesia**

Location

+

**100%**  
Equity Stake

+

**24,000ha**  
Planted Area

## PAM Plantation

+

**91,000 tons**  
(As of 2024)

+

**RSPO\***  
Certification

\*RSPO : Roundtable on Sustainable Palm Oil

## TBSM Plantation

+

**58,000 tons**  
(As of 2024)

+

**ISPO\***  
Certification

\*ISPO : Indonesia Sustainable Palm Oil

## GUM Plantation

+

**41,000 tons**  
(As of 2024)

+

**ISPO\***  
Certification



# Minerals & Oils Trading

**Providing integrated trading solutions**

LX International trades key resources and materials such as bituminous coal, nickel ore, palm oil. Leveraging its global network, infrastructure, and industry-specific trading capabilities, the company provides differentiated customer value through integrated business solutions that connect suppliers and buyers.

## Minerals Trading

- ✓ **Stable supply of resources and raw materials based on strategic investments**
  - Diversifying the mineral trading portfolio with bituminous coal, nickel, and new minerals over the mid to long term
  - Entering targeted markets by region and mineral type, securing large-scale supply channels, and exploring joint investment opportunities

Category	Bituminous Coal	Nickel Ore	New Minerals
Volume (per year)	30M tons	3.5M tons	Copper, Bauxite, etc.
Investment Assets	GAM Mine in Indonesia, Xinzhen Mine in China	AKP Mine in Indonesia	
Supply Regions	China, Indonesia, India, Southeast Asia, Korea, etc.		



Bituminous Coal



Nickel



Copper



# Minerals & Oils Trading

## Providing integrated trading solutions

LX International trades key resources and materials such as bituminous coal, nickel ore, palm oil. Leveraging its global network, infrastructure, and industry-specific trading capabilities, the company provides differentiated customer value through integrated business solutions that connect suppliers and buyers.

## Oil Trading

- ✓ **Stable supply of palm oil(CPO) based on investment assets**
  - Continuously expanding sales and distribution volume by leveraging the palm industry network
  - Expanding the supply of palm-related products while identifying new oil trading opportunities and reviewing potential co-investments

Category	CPO, RPO	Palm byproducts, Used Cooking Oil(UCO), Soybean Oil, Other edible oils
Volume (per year)	1.2M tons	Under development
Investment Assets	Pam Plantations(PAM, TBSM) in Indonesia	
Supply Regions	China, Indonesia, India, Southeast Asia, Korea, Middle East	



Crude Palm Oil



Oil Palm Fruits



Oil Palm Tree



# Industrial Materials & Components Trading

## Providing integrated trading solutions

LX International trades key resources and materials such as petrochemicals, steel products, and IT components. Leveraging its global network, infrastructure, and industry-specific trading capabilities, the company provides differentiated customer value through integrated business solutions that connect suppliers and buyers.

## Industrial Materials Trading

- ✓ Trading of chemical products such as methanol
- ✓ Equity investments in petrochemical plants and exclusive offtake rights
- ✓ Investment and operation of steel processing plant
- ✓ Exploring new business opportunities in promising sectors such as secondary batteries and EVs

## Investment Asset Status

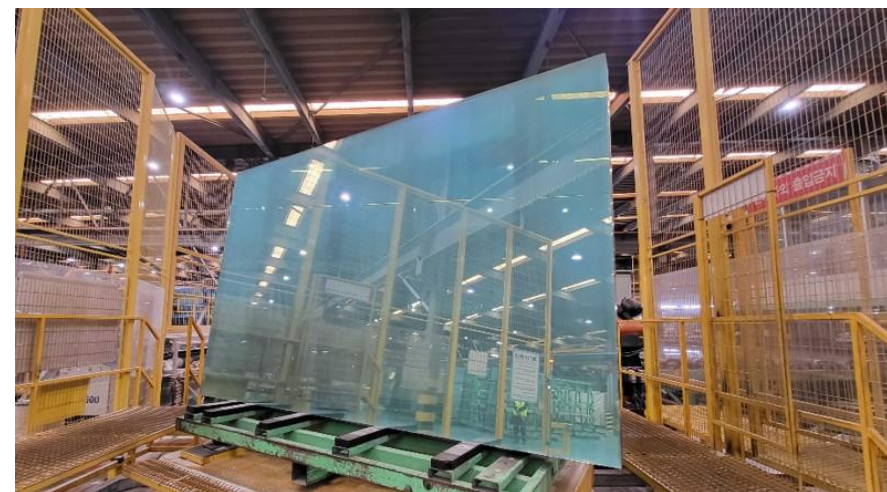
Urea	Inner Mongolia Urea Plant	China
PVC	LG Bohai Plant	
Steel Coil	Tianjin Steel Processing plant	Vietnam
	Haiphong Steel Flower	
	PWPC Coil Center	Poland
Glass	LX Glas	Korea

## New Business Areas

Battery Materials	Nickel intermediates (Nickel Sulfate, MHP), precursors, cathode materials
Metals	Steel sheets, steelmaking raw materials, and auxiliary materials for EVs
Petrochemicals	High-performance chemical materials
Glass Raw Materials	Silica sand, Soda ash



Tianjin Steel Processing plant, China



LX Glas's Manufacturing Plant, Korea



# Industrial Materials & Components Trading

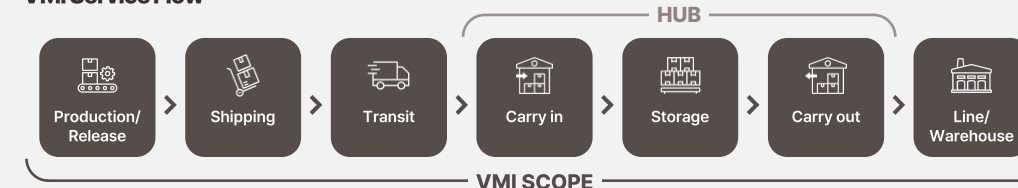
## Providing integrated trading solutions

LX International trades key resources and materials such as petrochemicals, steel products, and IT components. Leveraging its global network, infrastructure, and industry-specific trading capabilities, the company provides differentiated customer value through integrated business solutions that connect suppliers and buyers.

## IT Component Trading

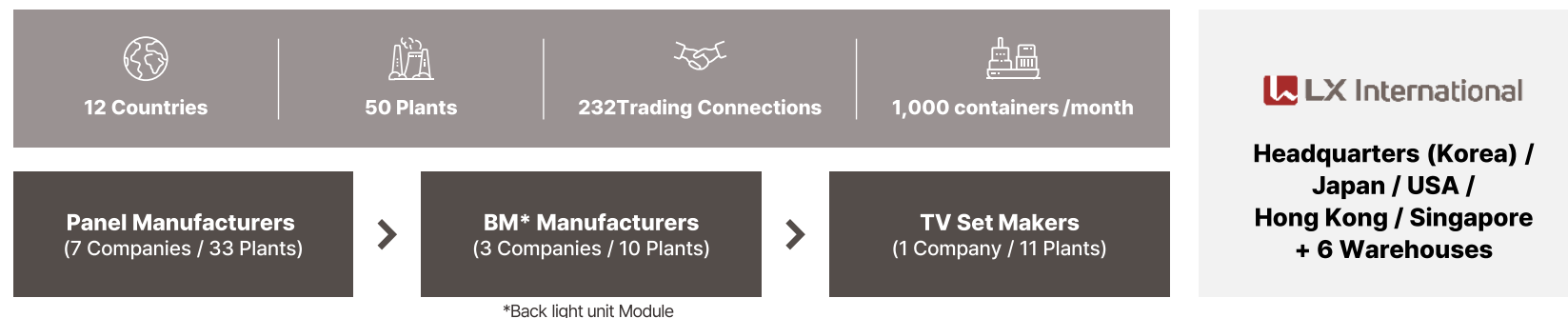
- ✓ Transaction support services for suppliers and buyers
  - Inventory and logistics management
  - Procurement and risk management
- ✓ Integrated supply chain solutions(VMI\*)
  - Optimizing the cost structure across business processes (purchasing, procurement, customs clearance, warehousing, operations, and transportation) and delivering differentiated value to customers

### VMI Service Flow



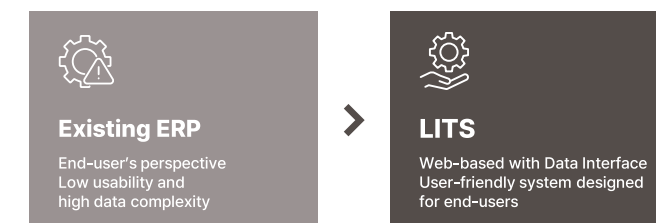
\* VMI (Vendor Managed Inventory): A supply chain management strategy in which inventory is managed by the supplier based on the demand and production plans of the customer, enabling timely and efficient deliveries.

## Display Material VMI Trading Structure



## Real-Time Data Management System (LITS)

LITS (LX International Trading System) is a business support system that enables sustainable operations by integrating data across companies. It is currently connected with over 50 plants of global top-tier LCD manufacturers and 6 international logistics hubs, including logistics partner systems. The system enables real-time visibility into logistics status, warehouse inventory, purchase/sales data, and production information, helping minimize waste and enable fast, data-driven decision-making.





# New Growth

## Developing Next-Generation Energy Sources

LX International is expanding its portfolio in renewable energy, including biomass, hydropower, solar, and biogas. The company secures and trades carbon credits from these activities, while also developing and investing in clean fuel businesses as part of its efforts to discover next-generation energy sources.

## Power & Infrastructure Business

- ✓ **Promoting Renewable Energy Projects**
  - Biomass power in Korea, hydropower and solar energy in Indonesia, etc.
- ✓ **Operation and Management of Infrastructure Assets**
  - Urea fertilizer plant in China, combined heat and power(CHP) plant in China, gas-fired power plant in Oman



Hasang Hydropower Plant, Indonesia

## Carbon Credits & New Growth Business

- ✓ **Carbon Credit Development and Commercialization**
  - Hydropower and palm-based biogas plants in Indonesia
- ✓ **Seeking opportunities for ESS business, a key solution for stable power supply and securing resilience in the power grid**
- ✓ **Developing new businesses aimed at entering emerging markets such as the Middle East and India**



Biogas Power Plant, Indonesia



# Power & Infrastructure Business

## Asset Portfolio Overview



Poseung Biomass Power Plant



Hasang Hydropower Plant



Musandam Gas Power Plant



Wuwei CHP Plant



Inner Mongolia Urea Plant

Location	Pyeongtaek, Korea	Indonesia	Oman	China	China
Equity Stake	63%	95%	18%	30%	29%
Output Type	Electricity	Electricity	Electricity	Electricity	Urea(Prilled)
Capacity / Annual Production	43MWh	41MWh	120MWh	700MWh	1.05M tons



# Carbon Credit Business

## Carbon Credit Project Status

Category	Renewable Energy	Biogas Power Plant	
Description	Contributing to carbon reduction by replacing fossil fuel-based energy with eco-friendly renewable power	Generating electricity and steam by capturing methane gas emitted during wastewater treatment from crude palm oil mills	
Location	Hasang Hydropower Plant, Indonesia	Palm Plantation(TBSM), Indonesia	Palm Plantation(PAM), Indonesia
Annual Carbon Credit Generation	200,000 tons	40,000 tons	60,000 tons(planned)





# Sustainability Management

+

**ESG**

+ Environmental  
+ Social  
+ Governance

+

**Social  
Contribution**

+

**Key  
Achievements**



## Sustainable Future with Business Solution

### Environmental

#### Climate Change Response

- Expanding greenhouse gas emission management
- Establishment 2050 Carbon Neutral Roadmap

### Environmental

#### Resource Usage and Circular Economy

- Control waste, air/water pollutants
- Recycling / Reuse

### Social

#### ESG Risk Management in the Supply Chain

- Establishment of partner management system
- Conduct supply chain ESG assessment

### Social

#### Safety and Health Management

- Introduction of Safety and Health Management System
- Risk assessment, improvement, and preventive activities

### Social

#### Talent Acquisition and Development

- Establishment of strategy to secure talent
- Operation of employee training program

### Environmental

#### Sustainable Business Operations

- Secondary battery core mineral and material business
- Renewable power generation and securing carbon emission rights

### Environmental

#### Environmental Management Strategy and System

- Establishment of company-wide environmental Management system
- Biodiversity conservation activities

### Governance

#### Board Roles and Responsibilities

- Holding ESG Committee
- Operate an integrated risk management system across the enterprise

### Governance

#### Jeong-do Management

- Compliance with LX ethical norms
- Compliance management system certification

### Economy

#### Generating Sound Economic Performance

- Efficiency of asset operations, maximization of profits
- Advance future business portfolio



LX International promotes various social contribution activities centered on LX Group's core values - Link, Future, and Human.

## Link

### Domestic community contribution activities

- Participation in the Gwanghwamun One Team\*

\*A community partnership of companies and organizations located in the Gwanghwamun area, including LX International

## Link

### Overseas community contribution activities

- Building village bridges and repairing local roads
- Providing medical services to local residents
- Supporting primary and secondary education

## Future

### Activities for Children and Youth

- Sponsoring local children's centers
- Supporting the operation of childcare facilities

## Future

### Activities for Environmental Conservation

- Organizing environmental clean-up plogging events
- Promoting biodiversity initiatives

## Human

### Support for the Underprivileged

- Volunteering for kimchi-making to support elderly living alone
- Fulfilling wishes of children with rare and incurable diseases
- Hosting a charity blood donation campaign





# Key Achievements

+ Sustainability Management

Overall	Environmental	Social	Governance
<div>Headquarters</div> <p>Received <b>integrated grade A</b> from KCGS (Upgraded from B+ in 2023)</p>	<div>Headquarters</div> <div>Subsidiaries</div> <div>Overseas Affiliates</div> <p>Established a <b>2050 Carbon Neutral Roadmap</b> (2025)</p>	<div>Headquarters</div> <p>Established <b>ESG Management</b> for Supply Chains (2024)</p>	<div>Headquarters</div> <p>Selected as the <b>Excellent English Disclosure Company</b> from the Korea Exchange (KRX) (2024)</p>
<div>Headquarters</div> <p>Received <b>grade A</b> from MSCI (Upgraded from BBB in 2023)</p>	<div>LX Glas</div> <p>Increased <b>waste recycling rate by 12%</b> (compared to 2022)</p>	<div>Headquarters</div> <p>Certified as a <b>Family-Friendly Company</b> by the Ministry of Gender Equality and Family (since 2021)</p>	<div>Headquarters</div> <p><b>Achieved 100% board meeting attendance rate</b> (2024)</p>
<div>Headquarters</div> <p>Published the Sustainability Report for <b>12 consecutive years</b> (since 2014)</p>	<div>PAM</div> <p>Engaged in <b>environmentally friendly palm oil production</b> certified under international RSPO standards (since 2023)</p>	<div>Headquarters</div> <p>Received the <b>Outstanding Volunteer Company Award</b> from Jongno District Office (2024)</p>	<div>Headquarters</div> <p>Certified for compliance management system under <b>ISO 37301</b> (since 2023)</p>
<div>Headquarters</div> <p>Conducted the first company-wide <b>ESG training</b> for all employees (November 2024)</p>	<div>Headquarters</div> <div>Subsidiaries</div> <div>Overseas Affiliates</div> <p><b>Calculated GHG emissions</b> across a total of 66 entities</p>	<div>LX Pantos</div> <p>Received the <b>Beautiful Companion Award</b> from the National Integration Committee (2024)</p>	<div>Headquarters</div> <p>Certified for information security management system under <b>ISO 27001</b> (since 2023)</p>
<div>Headquarters</div> <p>Joined the <b>UN Global Compact (UNGC)</b> (April 2024)</p>	<div>LX Glas</div> <p>Reduced <b>fine dust emissions by 65%</b> (compared to Q1 2019)</p>	<div>PT GAM</div> <p>Received <b>the Tamasya Award</b> from the Ministry of Energy and Mineral Resources of Indonesia (2024)</p>	<div>Headquarters</div> <p>Certified for occupational health and safety management system under <b>ISO 45001</b> (2024)</p>



# Appendix

+  
**Balance  
Sheet**

+  
**Income  
Statement**



(Unit: USD million)	2022	2023	2024
Assets	5,975	6,125	6,548
Current Assets	3,469	3,090	3,356
Non-current Assets	2,505	3,035	3,191
Liabilities	3,624	3,769	4,114
Current Liabilities	2,272	1,998	2,491
Non-current Liabilities	1,353	1,772	1,623
Equity	2,350	2,356	2,439





(Unit: USD million)

2022	2023	2024
------	------	------

Revenue	14,520	11,119	12,198
Operating Profit	747	332	359
Profit Before Tax	877	263	338
Net Profit	603	148	198







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