



LG ENERGY SOLUTION COMPANY INTRODUCTION

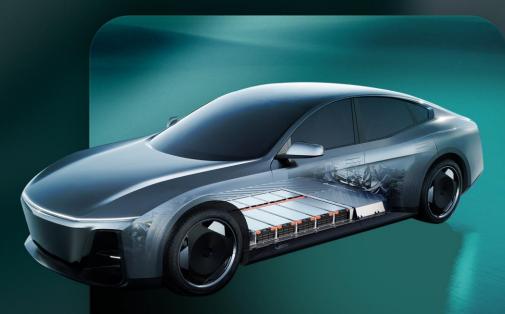


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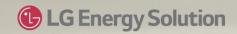
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+ LG Group Introduction LG Group | Overview

1947.1

Established

Affiliated companies

Overseas subsidiaries

Employees

270K+

60+

Korea 140K Overseas 132K

290+

LG Chem Chemicals LG H&H Farmhannong ✿ 31% LG U+ Communications Sales LG CNS / Services LG HelloVision \$142B **10%** LG Electronics Electronics as of Dec. 2024 LG Display LG Innotek **3** 59%

+ LG Group Introduction LG Group | History



2003





(LG Energy Solution

Established Lucky Chemical Co., Ltd. (Today's LG Chem)

Completed the construction of Lucky Goldstar Established Goldstar (Today's LG Electronics) **Twin Tower**

1947





1958



1987



Changed

1995

Group CI from

Lucky Goldstar \rightarrow to LG

1996

Established

LG Telecom (Today's LG U+)

Launched LG Corporation, the holding company 70th anniversary of founding LG

2017

Established LG Energy Solution

2020

+ LG Group Introduction

LG Group | Next-Generation growth engine

Use Electronics

- Telematics E-powertrain
- Head Lights In-vehicle Infotainment

🕒 LG Chem

• Cathode, Separator, CNT

🕒 LG Display

• In-vehicle Display

🕒 LG Innotek

- EV Components
- Camera/Sensors

EV Battery

Use Energy Solution

ENERGY SOLUTION

SIN

0

+ Overview

LG Energy Solution

Company name
LG Energy Solution

Established 2020.12



CEO Kim, Dong-Myung



Employees(2024) **32,071** Domestic 11,760 / Overseas 20,311



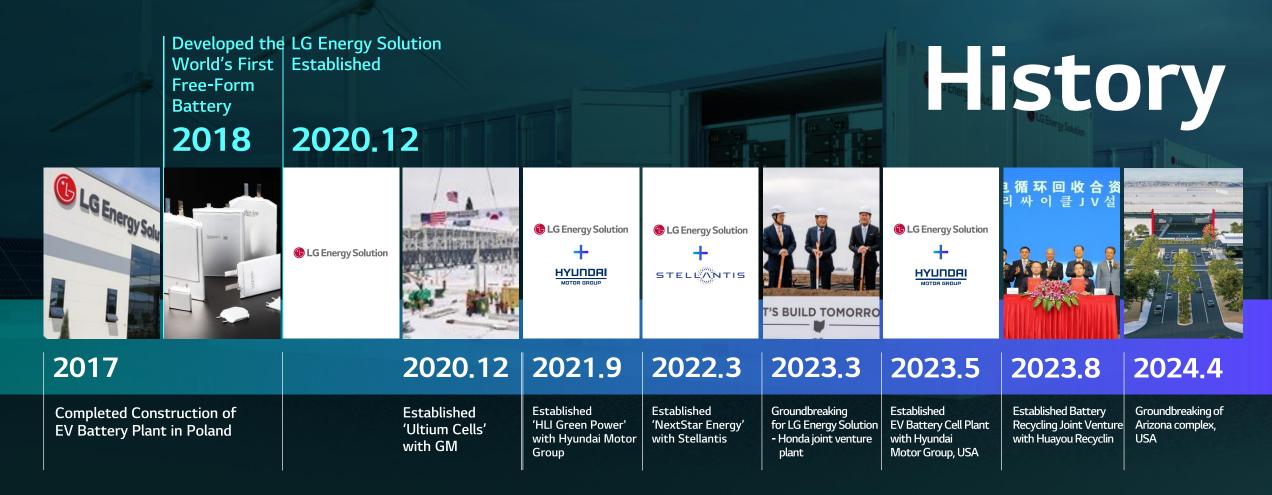
Sales(2024) **\$18.8B**



G LG Energy Solution			U'	verview B	Business R	&D ESG
+ Overview History						
Began Lithium-Ion Battery Research 1992	Mass-Produced Cylindrical Lithium-Ion Batteries 1999			a Energi luti		ory
				C LG Energy Solution		
1947 1996	2000		2009	2012	2013	2015
LG Chem Founded (start of LG Group) Began Lithium-I Development	on Battery Founded United States R&D Office	Completed Construction of Nanjing Plant in China	Supplied the World's First Mass-Produced EV Batteries (GM Volt)	Completed Construction of EV Battery Plant in the U.S.	Developed the World's First Future Batteries (Stepped, Curved, Wire Battery)	Began mass production of ESS battery cell

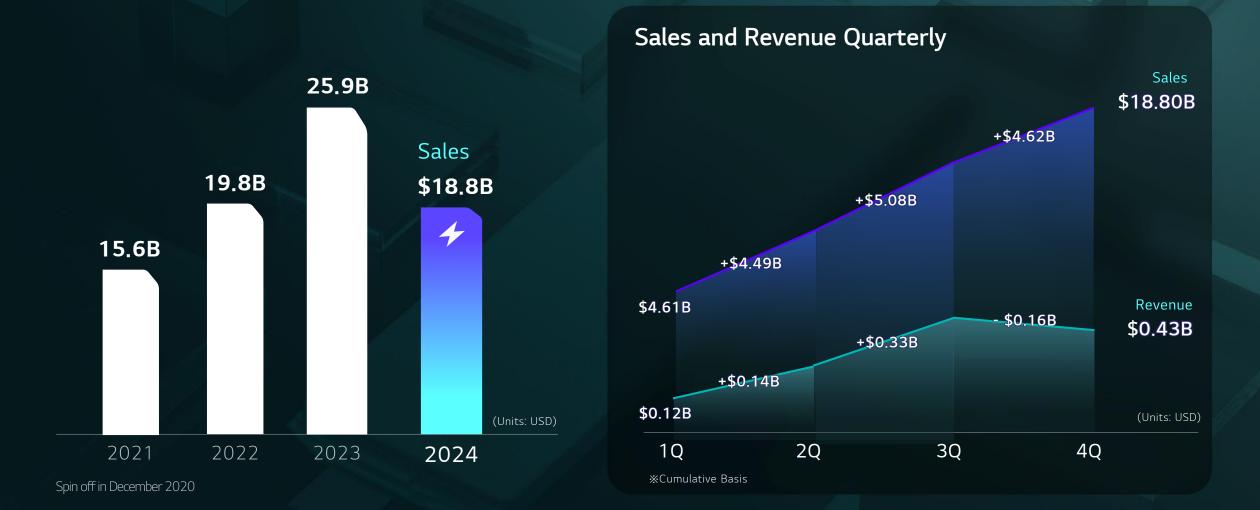
🕒 LG Energy Solution

+ Overview History



+ Overview

Management Performance



+ Business Business Area



Advanced Automotive

Contributing to the popularization of electric vehicles with the world's best high-tech battery products

EV / PHEV / HEV / μ-HEV Cell · Module · Pack · BMS

Mobility & IT

Leading wireless innovation by actively targeting new markets, such as IT and LEV

IT Equipment / Power Tools / LEV Cylindrical · Pouch · Free-Form

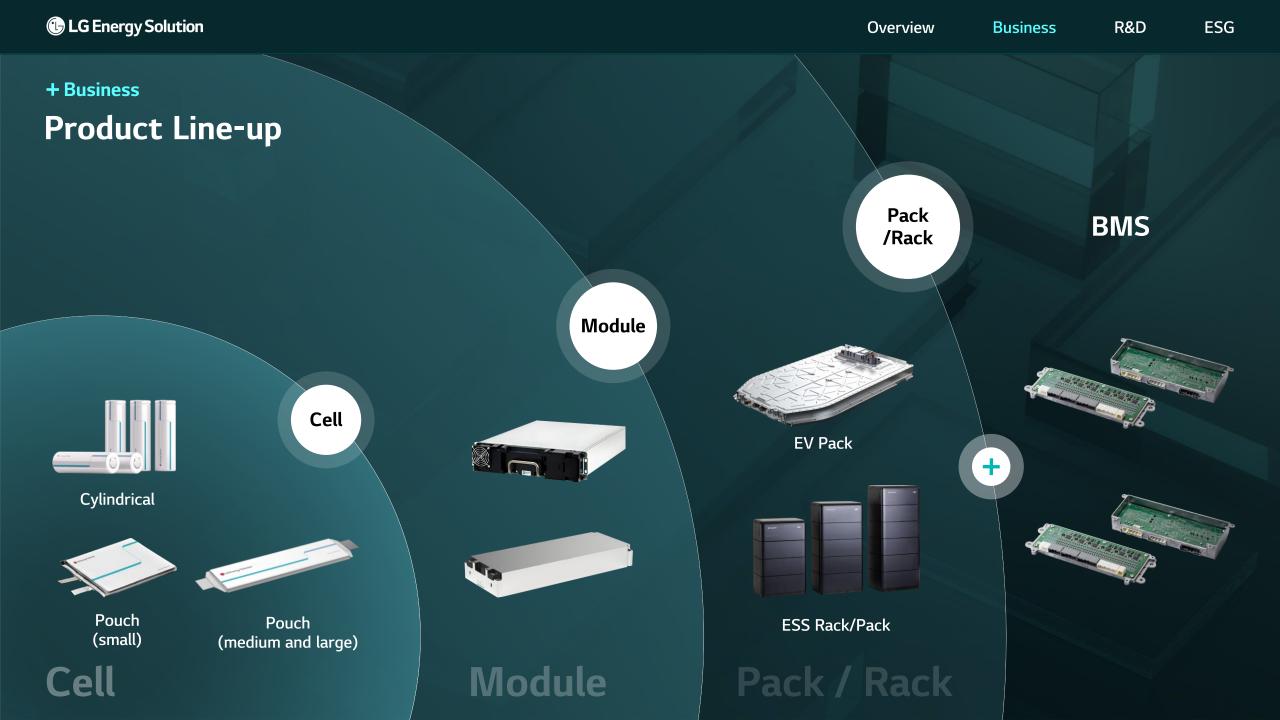


(1) LG Energy Solution

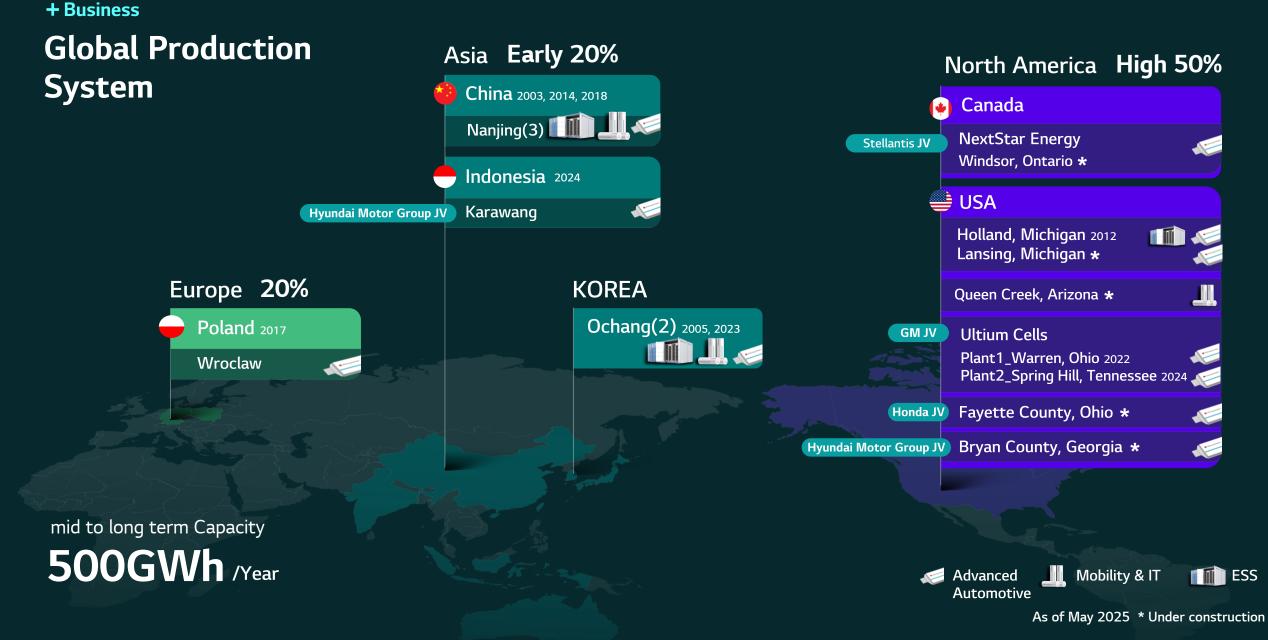
ESS

Unlocking the smart grid era by providing various ESS battery products

Grids / Commercial / Residential Cell · Pack · Rack







+ R&D Core Technologies



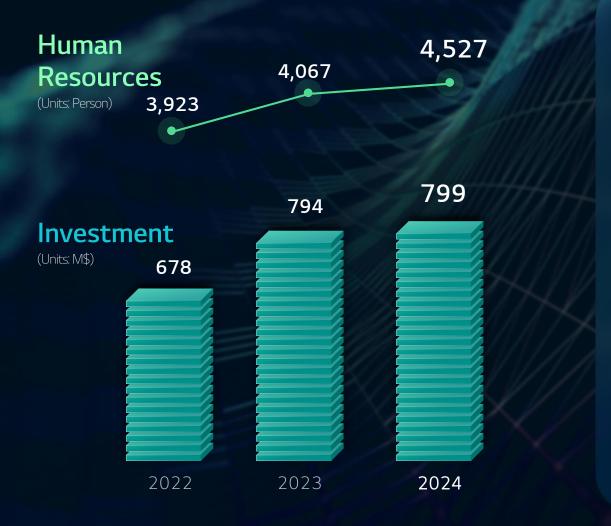


Process /Pack Design / SW Algorithm

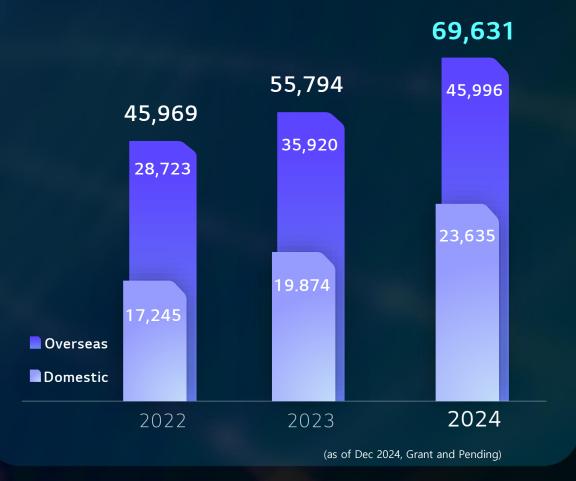
- 01 High-Ni Cathode Material
- 02 HV(High Voltage) Mid-Ni Cathode Material
- 03 Si based Anode Material

- 01 Dry Electrode Process
- 02 CTP (Cell to Pack)
- **03** Diagnostics Technology

+ R&D R&D Status



Intellectual Property Rights



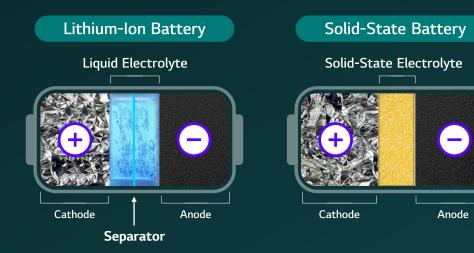
Use Energy Solution

+ R&D The Next-Generation Batteries

Solid-State Battery

E-mobility, Wearable Devices, Ships/Aircraft, Robots

Solid-state batteries are rechargeable batteries with a solid-state electrolyte between a cathode and an anode, enabling high energy density and high capacity with a low risk of combustion



Lithium-Sulfur Battery

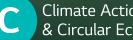
UAM, Drones

Lithium-sulfur batteries are made from lightweight materials, such as sulfur-carbon composite in the cathode and lithium-metal in the anode, giving them an energy density 1.5 times higher than conventional lithium-ion batteries.



+ESG **ESG** Vision

We CHARGE Toward a Better future



Climate Action & Circular Economy

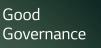
Human Value Η <u>Management</u>

Advanced Α EH & S

R

Responsible & Impactful Business

Good G



ESG Disclosure & Communication

Climate Action

Achieving carbon neutrality by 2050

Circular Economy

Establishing closed loop at global sites

Human Rights
Management
Creating human right

risk-free business sites

Human Capital Management

Fostering diverse talent

Product Stewardship

Managing eco-friendliness, safety and quality across product life cycle

EH&S

Local Communities Environmental impact, Biodiversity protection, Reinforcing brand image for Workplace EH&S managementutual growth and cooperation

Responsible Supply Chain Management Securing over 90% of

ESG low-risk group by 2030

Shared Growth

&Greater Impact on

Compliance & Ethics management

Governance

ESG Disclosure

Stakeholder Communication and Engagement

8 Critical Areas

4 Key Enablers

+ ESG Global Initiatives



UN Global Compact UNGC

Global Compact Network Canada Uphold 10 principles of UNGC in the areas of human rights, labor, environment and anticorruption *Disclose SDGs-related activities & achievements



RE100 Renewable Electricity 100% Aim to source 100% of electricity at all global sites renewably by 2030

EV100

EV100 Electric Vehicles 100% Aim to convert company-owned vehicles to EV 100% by 2030 *First Korean battery manufacturer to

join both RE100/EV100



Taskforce on Climate-related Financial Disclosures TCFD

Strengthen climate-related risks and opportunities assessment and disclosure *First Korean battery manufacturer to officially declare support for the TCFD



Global Battery Alliance GBA

Contribute to establishing ESG standards for sustainable battery ecosystem, and participating Battery Passport system development *Serves the Board of Directors of GBA



Responsible Business Alliance Advances Sustainability (Clearing Control to Classic) Advances Sustainability (Clearing Control to Classic)



Responsible Minerals Initiative RMI

Responsible Labor Initiative

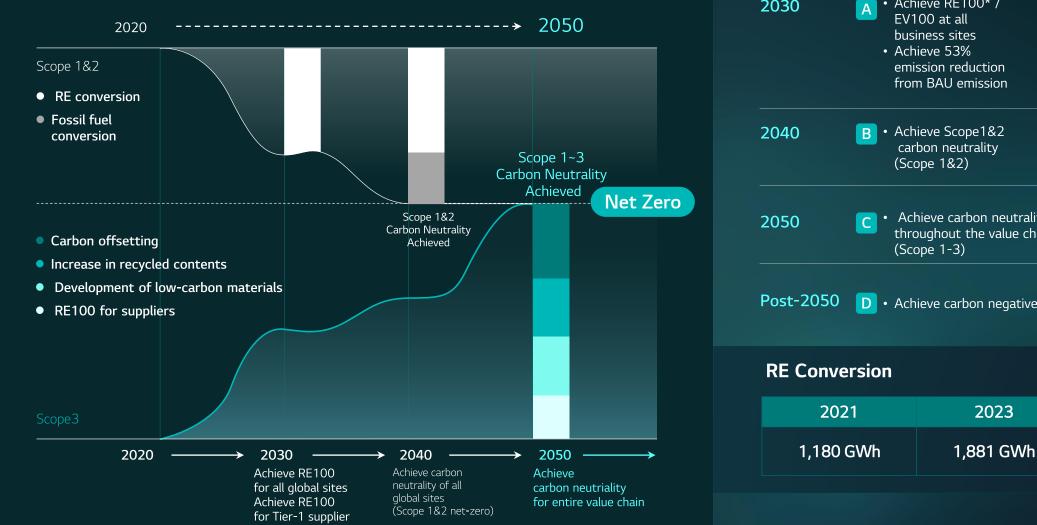
ESG risks management across entire value chain *First Korean battery manufacturer to join RBA



Fair Cobalt Alliance FCA

Alliance du Cobalt Equitable Contribute to eradication of forced labor and child labor in cobalt mines in DRC and supporting local communities *First Korean company to join FCA

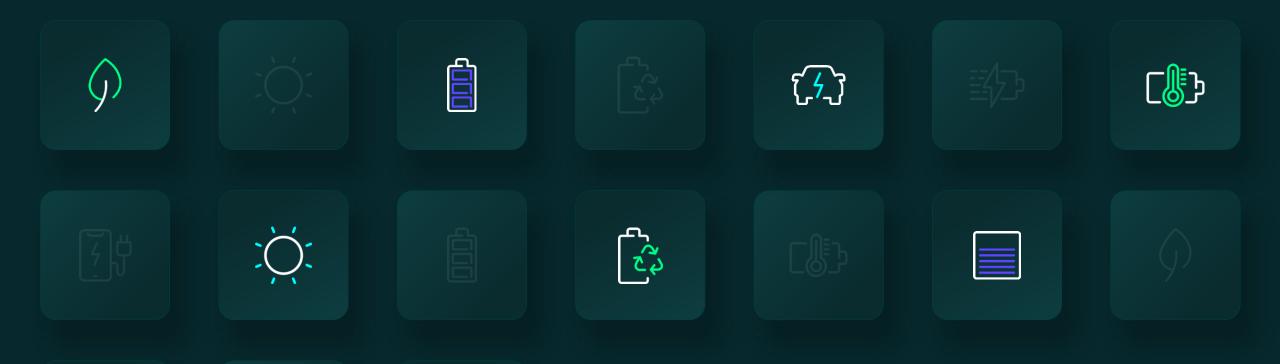
+ESG **Carbon Negative**





7,889 GWh (예상)





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Parc1 tower1,108 Yeoui-daero, Yeongdeungpo-gu, Seoul, Korea 02-3777-1114 | www.lgensol.com Copyright© 2025 LG Energy Solution. All Rights Reserved.