Global Battery leader

Changing Energy, Charging Life

LG Energy Solution

Update : 2021.11

1947

LG Group

Subsidiaries60+Overseas
Offices300+Number of
Employees250k+ (150k domestic/100k abroad)Revenue\$145B

as of Dec 2020

1947 LG Chem

Petrochemicals Advanced Materials Life Sciences Energy Solution

A Global Battery Company is Born

Spun-off from LG Chem's battery division in Dec 2020, unfolding the new era of a global battery frontier.

LG Energy Solution

December 2020

LG Energy Solution

Advanced Automotive Battery Mobility & IT Battery ESS Battery



Overview

Creating LG Energy Solution's Unique Value

LG Energy Solution is building a unique corporate brand value, a specialized company that provides a variety of energy solutions for a better world.





LG Energy Solution pioneered South Korea's untapped battery industry, overcoming a series of concerns and difficulties with a daring spirit, and has recently laid the foundation for the profitable business model before anyone else in the field. Our journey is to become an enterprise: that provides value above expectations through the best technology and product quality, that improves life for mankind innovatively and leads environment-friendly progress; and that grows with its constituents and instills pride.

- CEO's Opening Speech -

C LG Energy Solution

Overview



2009 2013 2017 Dec 2020 Supplied the World's First Developed the World's First Completed Construction of LG Energy Solution Mass-Produced EV Batteries Future Batteries EV Battery Plant in Poland Established (GM Volt) (Stepped, Curved, Wire Battery) 🕒 LG Energy Solution 09,2021 2012 2015 2018 Completed Construction of Began mass production of Developed the World's First EV Battery Plant in the U.S. ESS battery cell Free-Form Battery

LG Energy Solution

History

Management Performance

Achieving Explosive Growth

By leading in the fast-growing green energy sector and global EV market, LG Energy Solution continues to see steady growth.



Business Area

Building a Strong Business Portfolio

Leading the future energy industry by developing Advanced Automotive Battery, Mobility & IT Battery , and ESS Battery enterprises, which are key for the green energy transition.



Business Performance

Land, Sea, Air & Beyond into Space

LG Energy Solution become the first supplier in the industry of electric vehicles, electric ships, drones, and battery-powered spacesuits.



Global Network







Material Technology

- Leader in high-capacity cathode material technology

- Owner of source proprietary technology for ceramic coating on separators

(safety-reinforced separator)

- Stable supply of battery materials (in-house)

Global Production Capabilities

- Experienced in mass production
- Established a global production system (Korea/USA/Poland/China)
- Global R&D Network



Location: Nanjing (3) Location: Wroclaw Location: Holland Location: Ochang Completed: 2011 Completed: 2015/2019 Completed: 2018 Completed: 2018 Market: Korea Market: Asi Market: Europe Market: USA

Korea



Process Technology

- Stacking & Folding
- Lamination & Stacking
- CNT Pre-Dispersion
- Pre-lithiation

Ready to Compete in the Global Market

From raw material technology and manufacturing production technology to mass production systems, LG Energy Solution is at the forefront of technological advancements.

Securing Skills & Technology that Stand Out

Established substantial intellectual property rights, a key source of competitiveness, through active R&D investments and talent acquisitions

R&D





A True Leader in Open Innovation

LG Energy Solution partners with universities, startups, and researchers to promote technological innovation for the global battery industry.

Battery Innovation Contest (BIC)

University/Research Lab Financial Support Program

Ensure research autonomy for universities and research labs to conduct challenging research and match dedicated research teams from LG Energy Solution with institutes to jointly advance technological development in order to ensure the commercialization of research results.

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The Battery Challenge

Battery Industry Startup Competition Program

A biennial event, hosted by LG Energy Solution and run by American startup accelerator New Energy Nexus, where selected startups cooperate to conduct joint R&D and venture projects, resulting in win-win growth.



Innovation Forum

International Battery Experts' Open Forum

Experts from around the world discuss the latest research trends in the battery industry and analyze the possibilities and direction of future development of battery technology.

The Next-Generation Batteries

Leading the way in battery innovation with research on next-generation batteries based on new materials technology that satisfies high safety and capacity standards



Focusing on Renewable Energy to Take the Lead in Climate Change Response

As the first South Korean battery manufacturer to join RE100, LG Energy Solution is protecting the environment by advancing the goal of transitioning all businesses to 100% renewable energy 20 years ahead of the suggested schedule.



RE 100



ESG

We are committed to fulfilling social responsibility for a better future

'Selecting and promoting 8 critical areas related to the environment, human rights, safety, and society, as well as four key areas including climate action, closed-loop, human capital, and responsible supply chain management.

ESG VISION



GGE

Increasing the Value of Batteries with the BaaS Business Model

To expand the EV market and increase the value of batteries to society, LG Energy Solution creates services to cover the entire battery life cycle



Used Battery: a battery that can be reused for other purposes, such as ESS, after being used in an EV BaaS: Battery as a Service

ESG



Transparent Supply Chain Management for a Sustainable Future

LG Energy Solution strives for transparent and responsible mineral procurement by building a system that continuously monitors the ingredient information of the supplied materials from the purchase stage of minerals to the production of the final product.



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