

Second-life Electric Vehicle Batteries Market Forecasts to 2032 – Global Analysis By Battery Type (Lithium-ion, Nickel-Metal Hydride, Lead-Acid and Other Battery Types), Sales Channel, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Second-life Electric Vehicle Batteries Market is accounted for \$1.01 billion in 2025 and is expected to reach \$13.83 billion by 2032 growing at a CAGR of 45.2% during the forecast period. Second-life electric vehicle (EV) batteries refer to used batteries from electric vehicles that, after their automotive life, are repurposed for other applications instead of being discarded. While these batteries may no longer meet the high performance standards required for EVs, they still retain substantial energy storage capacity. Second-life use extends their lifespan, offering cost-effective and sustainable solutions for energy storage, renewable energy integration, and backup power systems. This practice reduces waste, minimizes environmental impact, and maximizes the value of battery resources. By giving EV batteries a “second life,” industries support circular economy principles and promote cleaner, more efficient energy systems.

According to the International Energy Agency, despite the COVID-19 pandemic and associated supply chain bottlenecks, EV sales reached a record high in 2021. EV sales in 2021 almost doubled compared to 2020, reaching 6.6 million units.

Market Dynamics:

Driver:

Rapid EV adoption and rising retired battery supply

The rapid adoption of electric vehicles is significantly driving the Second-life Electric Vehicle Batteries Market by creating a steady and growing supply of retired batteries. As EVs reach the end of their automotive lifespan, their batteries, which still hold considerable capacity, become available for repurposing. This abundant supply lowers costs for energy storage solutions, enhances renewable energy integration, and supports sustainable practices. Consequently, the increasing flow of used EV batteries is fueling market growth while promoting circular economy and environmental benefits.

Restraint:

Fragmented standards, uncertain quality and safety

Fragmented standards, coupled with uncertain quality and safety, hinder the growth of the second-life electric vehicle batteries market by creating confusion and lack of uniformity in operations. Without consistent regulations, manufacturers, suppliers, and end-users face difficulties in ensuring reliable performance and compatibility across applications. Safety concerns further discourage adoption, as doubts over durability and risk management reduce confidence among stakeholders. This lack of standardization limits scalability, slows innovation, and prevents widespread integration of second-life batteries.

Opportunity:

Strong economic and environmental appeal

The strong economic and environmental appeal is a major driving force in the Second-life Electric Vehicle Batteries Market. By offering cost-efficient alternatives to new batteries while significantly reducing environmental impact, second-life batteries attract widespread adoption across industries. Their role in supporting clean energy integration and promoting sustainability enhances market growth. Businesses and consumers alike are drawn to their dual advantage of affordability and eco-friendliness, strengthening demand and positioning second-life batteries as a key solution for sustainable energy storage.

Threat:

Regulatory and liability uncertainties

Regulatory and liability uncertainties negatively impact the second-life electric vehicle batteries market by creating an environment of hesitation and risk aversion. Ambiguities in compliance requirements and unclear accountability for potential failures make companies wary of investing in large-scale deployment. Concerns over responsibility in case of accidents, performance issues, or environmental damage discourage collaboration among stakeholders. This lack of clarity delays market expansion, restricts partnerships, and undermines investor confidence, ultimately slowing the adoption of second-life battery solutions.

Covid-19 Impact

The COVID-19 pandemic negatively impacted the Second-life Electric Vehicle Batteries Market by disrupting global supply chains, halting EV production, and delaying battery repurposing projects. Restricted mobility, factory shutdowns, and logistical challenges slowed the availability of retired batteries for reuse. Additionally, investment priorities shifted as industries focused on immediate recovery, temporarily reducing attention on sustainability initiatives. However, with gradual economic revival, interest in second-life battery solutions has been regaining momentum, supporting long-term market growth.

The nickel-metal hydride segment is expected to be the largest during the forecast period

The nickel-metal hydride segment is expected to account for the largest market share during the forecast period, due to its cost-effectiveness, safety profile, and established recycling infrastructure. NiMH batteries are widely used in hybrid vehicles and retain sufficient capacity for repurposing in stationary applications. Their lower upfront cost and robust thermal stability make them ideal for energy storage in moderate-demand environments. Continued innovation and demand from developing regions further reinforce their market leadership despite competition from lithium-ion technologies.

The energy storage systems segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the energy storage systems segment is predicted to witness the highest growth rate as rising demand for renewable integration and grid stability fuels adoption. Second-life EV batteries offer a cost-effective, sustainable alternative to new batteries for residential, commercial, and utility-scale storage projects. Their ability to store surplus solar and wind energy, provide backup power, and enhance energy efficiency makes them highly attractive. This synergy strengthens market growth while

supporting global clean energy and circular economy goals.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to its booming EV industry, strong manufacturing base, and aggressive renewable energy targets. Countries like China, India, and Japan are investing heavily in battery reuse and recycling, supported by favorable policies and infrastructure. The region's dominance is further fueled by high EV penetration, rapid urbanization, and demand for affordable energy storage solutions. Strategic partnerships and pilot projects are expanding second-life battery applications across residential and industrial sectors.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to robust R&D, supportive regulations, and growing EV adoption. The region's emphasis on sustainability, coupled with federal funding for battery recycling and reuse, is accelerating market growth. Key players are repurposing EV batteries for grid-scale storage, backup power, and renewable integration. Initiatives like the Inflation Reduction Act and collaborations between automakers and energy firms are creating a fertile ecosystem for second-life battery innovation and commercialization.

Key players in the market

Some of the key players profiled in the Second-life Electric Vehicle Batteries Market include Nissan Motor Corporation, Renault Group, BMW AG, Daimler AG, Volkswagen AG, Hyundai Motor Company, General Motors Company, Toyota Motor Corporation, Tesla, Inc., Honda Motor Co., Ltd., Ford Motor Company, Mitsubishi Motors Corporation, Audi AG, BYD Company Limited, LG Energy Solution, Panasonic Corporation, Contemporary Amperex Technology Co. Limited (CATL), Envision AESC, 4R Energy Corporation and Relectrify Pty Ltd.

Key Developments:

In May 2025, Mitsubishi Motors has signed an MOU with Foxconn's EV arm Foxtron Vehicle Technologies to supply an OEM electric vehicle, designed by Foxtron and built in Taiwan by Yulon Motor. The model, geared toward excellent EV performance and infotainment, is slated for Australia and New Zealand.

In March 2025, LG Energy Solution inked an agreement to supply 981 MWh of grid scale ESS batteries to PGE Polska Grupa Energetyczna, Poland's largest energy provider. The project includes a 262 MW facility at ?arnowiec, featuring locally made LFP long cell batteries, containerized systems, EPC services, and liquid cooling technology. It's the first grid scale ESS deployment from LG's Poland plant, supporting Europe's energy transition and reinforcing LG's "Made in Europe" strategy.

In September 2024, Subaru and Panasonic Energy unveiled a joint initiative, to establish a new lithium ion battery plant in Oizumi, Gunma Prefecture. Set to achieve 20 GWh annual capacity by 2030, this partnership underpins Subaru's electrification strategy.

Battery Types Covered:

Lithium-ion

Nickel-Metal Hydride

Lead-Acid

Other Battery Types

Sales Channels Covered:

Original Equipment Manufacturer (OEMs)

Aftermarket

Applications Covered:

Energy Storage Systems

EV Charging Infrastructure

Base Stations

Off-Grid Power Supply

Other Applications

End Users Covered:

Residential

Industrial

Commercial

Utility

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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