

EV Battery Rental and Swapping Market Size, Share, and Analysis, By Battery Type (Lithium-ion, Nickel Metal Hybrid, and Others), By Service Type (EV Battery Rental, EV Battery Swapping), By Application (Electric Vehicle, Hybrid Electric Vehicle, Plug-In Hybrid Electric Vehicle), By Vehicle Type (Two-wheelers, Three-wheelers, Four-wheelers, and Commercial Vehicles), and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

<https://marketpublishers.com/r/EBC0BF07951FEN.html>

Date: February 2025

Pages: 533

Price: US\$ 5,250.00 (Single User License)

ID: EBC0BF07951FEN

Abstracts

EV Battery Rental and Swapping Market Size, Share, and Analysis, By Battery Type (Lithium-ion, Nickel Metal Hybrid, and Others), By Service Type (EV Battery Rental, EV Battery Swapping), By Application (Electric Vehicle, Hybrid Electric Vehicle, Plug-In Hybrid Electric Vehicle), By Vehicle Type (Two-wheelers, Three-wheelers, Four-wheelers, and Commercial Vehicles), and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

PRODUCT OVERVIEW

EV Battery Rental and Swapping Market, valued at USD 193.4 million in 2023, is projected to grow at a remarkable CAGR of 24.9% over the forecast period from 2024 to 2034, reaching a market size of USD 2235.2 million by the end of 2034.

Battery Rental and Swapping offer innovative solutions tailored to the needs of electric

vehicle (EV) users. Battery rental allows drivers to lease batteries for their EVs, reducing the initial purchase cost and offering flexibility for those who prefer not to own the battery. Battery swapping, on the other hand, involves exchanging a depleted battery for a fully charged one at designated stations, significantly reducing downtime compared to traditional charging methods. This system is particularly beneficial for fleets and ride-hailing services, where quick turnaround times are essential. Both models aim to make EV ownership more convenient, extend battery lifespan, and alleviate range anxiety, thereby encouraging broader adoption of electric vehicles across various segments, including two-wheelers, three-wheelers, and industrial vehicles.

MARKET HIGHLIGHTS

EV Battery Rental and Swapping Market is expected to reach USD 2235.2 million, with a growth rate of 24.9% over the forecast period. The market's growth is driven by several factors, including the increasing popularity of electric vehicles, cost savings from rental models, and the quick turnaround offered by swapping stations, which helps alleviate range anxiety. Technological advancements in battery design and swapping technology further enhance performance and convenience, while government support and incentives are playing a crucial role in accelerating market growth. Future trends suggest continued expansion as battery technology improves, infrastructure develops, and acceptance grows in developing economies, aligning with global trends toward sustainability and innovation in transportation.

EV Battery Rental and Swapping Market Segments:

By Battery Type

Lithium-ion

Nickel Metal Hybrid

Others

By Service Type

EV Battery Rental

EV Battery Swapping

By Application

Electric Vehicle

Hybrid Electric Vehicle

Plug-In Hybrid Electric Vehicle

By Vehicle Type

Two-wheelers

Three-wheelers

Four-wheelers

Commercial Vehicles

MARKET DYNAMICS

Growth Drivers

Cost-Effectiveness of Battery Rental and Swapping Has Been a Prominent Growth Driver

Supportive Government Policies and Initiatives Can Accelerate Market Growth

Restraint

Battery Standardization Issues Can Complicate Battery Swapping

Key Players

Gogoro Inc.

NIO Inc.

Ample Inc.

Aulton Ltd.

E-Trio Automobiles Pvt Ltd

Swapfiets

Greenway Grid Global

Sun Mobility

SemaConnect Inc.

EVgo Inc.

Maxim Integrated

Nuvve Corporation

BYD Company Ltd

ChargePoint Inc.

Tesla Inc.

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

Contents

1. EXECUTIVE SUMMARY

- 1.1. Regional Market Share
- 1.2. Business Trends
- 1.3. EV Battery Rental and Swapping Market: COVID-19 Outbreak
- 1.4. Regional Trends
- 1.5. Segmentation Snapshot

2. RESEARCH METHODOLOGY

- 2.1. Research Objective
- 2.2. Research Approach
- 2.3. Data Sourcing and Methodology
- 2.4. Primary Research
- 2.5. Secondary Research
 - 2.5.1. Paid Sources
 - 2.5.2. Public Sources
- 2.6. Market Size Estimation and Data Triangulation

3. MARKET CHARACTERISTICS

- 3.1. Market Definition
- 3.2. EV Battery Rental and Swapping Market: COVID-19 Impact
- 3.3. Key Segmentations
- 3.4. Key Developments
- 3.5. Allied Industry Data

4. EV BATTERY RENTAL AND SWAPPING MARKET – INDUSTRY INSIGHTS

- 4.1. Industry Segmentation
- 4.2. COVID-19 overview on world economy
- 4.3. Industry ecosystem Channel analysis
- 4.4. Innovation & Sustainability

5. MACROECONOMIC INDICATORS

6. RECENT DEVELOPMENTS

7.MARKET DYNAMICS

- 7.1. Introduction
- 7.2.Growth Drivers
- 7.3.Market Opportunities
- 7.4. Market Restraints
- 7.5.Market Trends

8. RISK ANALYSIS

9. MARKET ANALYSIS

- 9.1. Porters Five Forces
- 9.2.PEST Analysis
 - 9.2.1. Political
 - 9.2.2.Economic
 - 9.2.3.Social
 - 9.2.4.Technological

10. EV BATTERY RENTAL AND SWAPPING MARKET

- 10.1.Overview
- 10.2. Historical Analysis (2019-2022)
 - 10.2.1. Market Size, Y-o-Y Growth (%) and Market Forecast

11.EV BATTERY RENTAL AND SWAPPING MARKET SIZE & FORECAST 2024A-2034F

- 11.1.Overview
- 11.2. Key Findings
- 11.3. Market Segmentation
 - 11.3.1.By Battery Type
 - 11.3.1.1. Lithium-ion
 - 11.3.1.1.1. By Value (USD Million) 2024-2034F
 - 11.3.1.1.2.Market Share (%) 2024-2034F
 - 11.3.1.1.3.Y-o-Y Growth (%) 2024-2034F
 - 11.3.1.2.Nickel Metal Hybrid
 - 11.3.1.2.1.By Value (USD Million) 2024-2034F

- 11.3.1.2.2. Market Share (%) 2024-2034F
- 11.3.1.2.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.1.3. Others
 - 11.3.1.3.1. By Value (USD Million) 2024-2034F
 - 11.3.1.3.2. Market Share (%) 2024-2034F
 - 11.3.1.3.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.2. By Service Type
 - 11.3.2.1. EV Battery Rental
 - 11.3.2.1.1. By Value (USD Million) 2024-2034F
 - 11.3.2.1.2. Market Share (%) 2024-2034F
 - 11.3.2.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.2.2. EV Battery Swapping
 - 11.3.2.2.1. By Value (USD Million) 2024-2034F
 - 11.3.2.2.2. Market Share (%) 2024-2034F
 - 11.3.2.2.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.3. By Application
 - 11.3.3.1. Electric Vehicle
 - 11.3.3.1.1. By Value (USD Million) 2024-2034F
 - 11.3.3.1.2. Market Share (%) 2024-2034F
 - 11.3.3.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.3.2. Hybrid Electric Vehicle
 - 11.3.3.2.1. By Value (USD Million) 2024-2034F
 - 11.3.3.2.2. Market Share (%) 2024-2034F
 - 11.3.3.2.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.3.3. Plug-in Hybrid Electric Vehicle
 - 11.3.3.3.1. By Value (USD Million) 2024-2034F
 - 11.3.3.3.2. Market Share (%) 2024-2034F
 - 11.3.3.3.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.4. By Vehicle Type
 - 11.3.4.1. Two-wheelers
 - 11.3.4.1.1. By Value (USD Million) 2024-2034F
 - 11.3.4.1.2. Market Share (%) 2024-2034F
 - 11.3.4.1.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.4.2. Three-wheelers
 - 11.3.4.2.1. By Value (USD Million) 2024-2034F
 - 11.3.4.2.2. Market Share (%) 2024-2034F
 - 11.3.4.2.3. Y-o-Y Growth (%) 2024-2034F
 - 11.3.4.3. Four-wheelers
 - 11.3.4.3.1. By Value (USD Million) 2024-2034F

- 11.3.4.3.2. Market Share (%) 2024-2034F
- 11.3.4.3.3. Y-o-Y Growth (%) 2024-2034F
- 11.3.4.4. Commercial Vehicles
 - 11.3.4.4.1. By Value (USD Million) 2024-2034F
 - 11.3.4.4.2. Market Share (%) 2024-2034F
 - 11.3.4.4.3. Y-o-Y Growth (%) 2024-2034F

12. NORTH AMERICA EV BATTERY RENTAL AND SWAPPING MARKET SIZE & FORECAST 2024A-2034F

- 12.1. Overview
- 12.2. Key Findings
- 12.3. Market Segmentation
 - 12.3.1. By Battery Type
 - 12.3.2. By Service Type
 - 12.3.3. By Application
 - 12.3.4. By Vehicle Type
- 12.4. Country
 - 12.4.1. United States
 - 12.4.2. Canada

13. EUROPE EV BATTERY RENTAL AND SWAPPING MARKET SIZE & FORECAST 2024A-2034F

- 13.1. Overview
- 13.2. Key Findings
- 13.3. Market Segmentation
 - 13.3.1. By Battery Type
 - 13.3.2. By Service Type
 - 13.3.3. By Application
 - 13.3.4. By Vehicle Type
- 13.4. Country
 - 13.4.1. Germany
 - 13.4.2. United Kingdom
 - 13.4.3. France
 - 13.4.4. Italy
 - 13.4.5. Spain
 - 13.4.6. Russia
 - 13.4.7. Rest of Europe (BENELUX, NORDIC, Hungary, Turkey & Poland)

14. ASIA-PACIFIC EV BATTERY RENTAL AND SWAPPING MARKET SIZE & FORECAST 2024A-2034F

- 14.1. Overview
- 14.2. Key Findings
- 14.3. Market Segmentation
 - 14.3.1. By Battery Type
 - 14.3.2. By Service Type
 - 14.3.3. By Application
 - 14.3.4. By Vehicle Type
- 14.4. Country
 - 14.4.1. India
 - 14.4.2. China
 - 14.4.3. South Korea
 - 14.4.4. Japan
 - 14.4.5. Rest of APAC

15. MIDDLE EAST AND AFRICA EV BATTERY RENTAL AND SWAPPING MARKET SIZE & FORECAST 2024A-2034F

- 15.1. Overview
- 15.2. Key Findings
- 15.3. Market Segmentation
 - 15.3.1. By Battery Type
 - 15.3.2. By Service Type
 - 15.3.3. By Application
 - 15.3.4. By Vehicle Type
- 15.4. Country
 - 15.4.1. Israel
 - 15.4.2. GCC
 - 15.4.3. North Africa
 - 15.4.4. South Africa
 - 15.4.5. Rest of Middle East and Africa

16. LATIN AMERICA EV BATTERY RENTAL AND SWAPPING MARKET SIZE & FORECAST 2024A-2034F

- 16.1. Overview

- 16.2. Key Findings
- 16.3. Market Segmentation
 - 16.3.1. By Battery Type
 - 16.3.2. By Service Type
 - 16.3.3. By Application
 - 16.3.4. By Vehicle Type
- 16.4. Country
 - 16.4.1. Mexico
 - 16.4.2. Brazil
 - 16.4.3. Rest of Latin America

17. COMPETITIVE LANDSCAPE

- 17.1. Company market share, 2023
- 17.2. Key player overview
- 17.3. Key stakeholders

18. COMPANY PROFILES

- 18.1. Gogoro Inc.
 - 18.1.1. Company Overview
 - 18.1.2. Financial Overview
 - 18.1.3. Key Product; Analysis
 - 18.1.4. Company Assessment
 - 18.1.4.1. Product Portfolio
 - 18.1.4.2. Key Clients
 - 18.1.4.3. Market Share
 - 18.1.4.4. Recent News & Development (Last 3 Yrs.)
 - 18.1.4.5. Executive Team
- 18.2. NIO Inc.
- 18.3. Ample Inc.
- 18.4. Aulton Ltd.
- 18.5. E-Trio Automobiles Pvt Ltd
- 18.6. Swapfiets
- 18.7. Greenway Grid Global
- 18.8. Sun Mobility
- 18.9. SemaConnect Inc.
- 18.10. EVgo Inc.
- 18.11. Maxim Integrated

18.12.Nuvve Corporation

18.13.BYD Company Ltd

18.14.ChargePoint Inc.

18.15.Tesla Inc.

18.16.Other Prominent Players

19. APPENDIX

20.CONSULTANT RECOMMENDATION

I would like to order

Product name: EV Battery Rental and Swapping Market Size, Share, and Analysis, By Battery Type (Lithium-ion, Nickel Metal Hybrid, and Others), By Service Type (EV Battery Rental, EV Battery Swapping), By Application (Electric Vehicle, Hybrid Electric Vehicle, Plug-In Hybrid Electric Vehicle), By Vehicle Type (Two-wheelers, Three-wheelers, Four-wheelers, and Commercial Vehicles), and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

Product link: <https://marketpublishers.com/r/EBC0BF07951FEN.html>

Price: US\$ 5,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EBC0BF07951FEN.html>