

# **Europe EV Battery Market by Type (Li-ion, Ni-MH, SLA, Ultracapacitors, Solid-state Batteries), Capacity (300 kWh), Bonding Type (Wire, Laser), Form, Application, End User, and Country—Forecast to 2029**

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## **Abstracts**

European EV Batteries Market by Type (Li-ion, Ni-MH, SLA, Ultracapacitors, Solid-state Batteries), Capacity (300 kWh), Bonding Type (Wire, Laser), Form, Application, End User, and Country—Forecast to 2029

The research report titled, 'European EV Batteries Market by Type (Li-ion, Ni-MH, SLA, Ultracapacitors, Solid-state Batteries), Capacity (300 kWh), Bonding Type (Wire, Laser), Form, Application, End-user, and Country—Forecast to 2029', provides an in-depth analysis of the European EV batteries market across countries and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecast till 2028. The European EV Batteries Market is expected to reach a value of \$94.41 billion by 2029, at a CAGR of 45.8% during the forecast period 2022–2029.

The growth of this market is mainly attributed to factors, such as the rising adoption of EVs, decreasing battery prices, and increasing investment by leading automotive OEMs to secure battery supply chains for their future electric vehicles. The rising adoption of electric mobility in emerging economies, growing investments in developing lithium-ion battery capacity, and growing deployment of battery-as-a-service provide significant growth opportunities for players operating in this market.

The study offers a comprehensive analysis of the European EV batteries market based on type (lithium-ion battery, sealed lead acid battery, nickel-metal hydride battery, ultracapacitors, solid-state batteries, and other batteries), capacity (less than 50 kWh, 51 kWh to 100 kWh, 101 kWh to 300 kWh, and more than 300 kWh), bonding type (wire

bonding, and laser bonding), form (prismatic, cylindrical, and pouch), application (electric cars, light commercial vehicles, heavy commercial vehicles, e-scooters and motorcycles, and e-bikes), end user (electric vehicle OEMs, and battery swapping stations), and country. The study also evaluates industry competitors and analyzes the market at the country level.

Based on type, the European EV batteries market is mainly segmented into lithium-ion battery, sealed lead acid battery, nickel-metal hydride battery, ultracapacitors, solid-state battery, and other batteries. The solid-state battery segment is expected to witness the highest growth rate once it gets commercialized. As per Meticulous Research® analysis, the commercialization of solid-state batteries is expected to occur from 2025. This segment's high market growth rate is because a solid-state battery has a higher energy density than a Li-ion battery that uses liquid electrolyte solution. A solid-state battery can effectively increase the energy density per unit area as compared to lithium-ion batteries. Because of these properties, a solid-state battery pack will have a higher capacity than a lithium-ion battery of the same size.

Based on capacity, the European EV batteries market is mainly segmented into less than 50kWh, 51kWh to 100kWh, 101kWh to 300kWh, and more than 300kWh. The 101kWh to 300kWh segment is expected to grow at the highest CAGR during the forecast period. This segment's high growth rate during the forecast period is mainly because 101kWh to 300kWh power capacity batteries are widely used in medium-sized EVs such as light commercial vehicles and utility vehicles. The adoption of these EVs is increasing due to the rise in fuel prices and government initiatives to lower fleet emissions of logistics and public transportation. Also, the increasing launch of new EVs by automotive OEMs for electrification of logistics and public transport fleets and increasing adoption of electric vehicles by e-commerce companies such as Amazon and UPS are expected to support the market's growth during the forecast period.

Based on bonding type, the European EV batteries market is mainly segmented into wire bonding and laser bonding. The laser bonding segment is expected to grow at the highest CAGR during the forecast period. This segment's high market growth rate during the forecast period is mainly due to its ability to withstand higher currents, offer the advantages of narrow welds, high welding speed, and low heat level, which is important for battery tab welding chemicals within the batteries are heat sensitive. Laser welding is a reliable technology to connect battery cells and achieve fast, automated, precise production of battery pack conductive joints. Lasers offer the advantages of precision and non-contact welding, which can be adapted to fit small areas with low accessibility using a concentrated heat source.

Based on form, the European EV batteries market is mainly segmented into prismatic, cylindrical, and pouch. The pouch segment is expected to grow at the highest CAGR during the forecast period. The high growth of this segment is attributed to its higher energy density compared with the same weight of prismatic cells, more safety performance, and lower internal resistance. A pouch cell's energy storage capacity is much greater in a given physical space than cylindrical cells. Leading automotive and battery OEMs are investing in pouch cell formats for powering their upcoming EVs.

Based on application, the European EV batteries market is segmented into electric cars, light commercial vehicles, heavy commercial vehicles, e-scooters & motorcycles, and e-bikes. The light commercial vehicle segment is expected to grow at the highest CAGR during the forecast period. This segment's high growth rate during the forecast period is attributed to the increasing shift of retail MNCs and transport fleet operators to electric light commercial vehicles, growing awareness regarding the role of electric vehicles in reducing emissions, increase in demand for electric vehicles to reduce fleet emissions, and stringent government rules and regulations towards vehicle emissions. The mass production of batteries and the attractive tax incentives offered by governments have further brought down vehicle costs, making electric light commercial vehicles much more cost-effective.

Based on end user, the European EV batteries market is segmented into electric vehicle OEMs and battery swapping stations. The battery swapping stations segment is expected to grow at the highest CAGR during the forecast period. This segment's high growth rate during the forecast period mainly because battery swapping service helps reduce EV acquisition costs, increase battery lifespan, and increase the launch of battery swapping services by various automotive start-up companies. Also, other mobility stakeholders such as oil refining companies are partnering with e-mobility start-ups to set up battery swapping stations, which is expected to support the market growth of this segment.

Based on country, the European EV batteries market is segmented into Germany, U.K., France, Italy, Spain, Poland, Hungary, Sweden, Norway, Austria, Belgium, Croatia, Finland, Greece, Ireland, Portugal, Romania, Slovakia, Rest of Europe (RoE). Germany is expected to account for the largest share and witness the highest growth rate in the European EV batteries during the forecast period, followed by France, the U.K., and Italy. The country's high market growth rate is attributed to the numerous gigafactories planned to be commissioned during the forecast period and the high adoption of electric mobility in the region.

Hungary is expected to hold the second position in terms of market growth rate during the forecast period. The country's high market growth rate is attributed to the growing automotive industry and growing investments by OEMs for the development of EV batteries.

The key players operating in the European EV batteries market are Northvolt AB (Sweden), Lithium Werks B.V. (Netherlands), Faradion Limited (U.K.), BMZ Group (Germany), DR?XLMAIER Group (Germany), E4V (France), Britishvolt Limited (U.K.), Ilika plc (U.K.), and Johnson Matthey Plc (U.K.).

#### Key Questions Answered in the Report-

Which are the high-growth market segments in terms of type, capacity, bonding type, form, application, end user, and country?

What is the historical market size for the European EV batteries market?

What are the market forecasts and estimates for the period 2022–2029?

What are the major drivers, restraints, opportunities, and challenges in the European EV batteries market?

Who are the major players operating in the European EV batteries market, and what shares of the market do they hold?

How is the competitive landscape for the European EV batteries market?

What are the recent developments in the European EV batteries market?

What are the different strategies adopted by the major players in the market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the European EV batteries market, and how do they compete with the other players?

#### Scope of the Report

*Europe EV Battery Market by Type (Li-ion, Ni-MH, SLA, Ultracapacitors, Solid-state Batteries), Capacity (<50 k...*

## European EV Batteries Market, by Type

Lithium-ion Batteries

Sealed Lead Acid Batteries

Nickel-metal Hydride Batteries

Ultracapacitors

Solid-state Batteries

Other Batteries

## European EV Batteries Market, by Capacity

Less Than 50 kWh

51 kWh to 100 kWh

101 kWh to 300 kWh

More Than 300 kWh

## European EV Batteries Market, by Bonding Type

Wire Bonding

Laser Bonding

## European EV Batteries Market, by Form

Prismatic

Cylindrical

Pouch

## European EV Batteries Market, by Application

Electric Cars

Battery Electric Vehicles

Lithium-ion Batteries

Nickel-metal Hydride Batteries

Ultracapacitors

Solid-state Batteries

Other Batteries

Plug-in Hybrid Electric Vehicles

Lithium-ion Batteries

Ultracapacitors

Solid-state Batteries

Other Batteries

Pure Hybrid Electric Vehicles

Lithium-ion Batteries

Nickel-metal Hydride Batteries

Ultracapacitors

Solid-state Batteries

## Other Batteries

Light Commercial Vehicles

Heavy Commercial Vehicles

E-scooters & Motorcycles

E-bikes

## European EV Batteries Market, by End User

Electric Vehicle OEMs

Battery Swapping Stations

## European EV Batteries Market, by Country

Germany

U.K.

France

Italy

Spain

Poland

Hungary

Sweden

Norway

Austria

Belgium

Croatia

Finland

Greece

Ireland

Portugal

Romania

Slovakia

Rest of Europe (RoE)



## Contents

### 1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency and Limitations
  - 1.3.1. Key Stakeholders

### 2. RESEARCH METHODOLOGY

- 2.1. Research Process
- 2.2. Data Collection & Validation
  - 2.2.1. Secondary Research
  - 2.2.2. Primary Research
  - 2.2.3. Market Size Estimation

### 3. EXECUTIVE SUMMARY

### 4. COVID-19 IMPACT ASSESSMENT

- 4.1. Scenario A: Severe Impact
- 4.2. Scenario B: Moderate Recovery
- 4.3. Scenario C: Fast Recovery

### 5. MARKET INSIGHTS

- 5.1. Introduction
- 5.2. Market Dynamics
  - 5.2.1. Drivers
    - 5.2.1.1. Increasing Adoption of EVs in Europe
    - 5.2.1.2. Decreasing Battery Prices
    - 5.2.1.3. Increasing Localization of Battery Manufacturing Capacities
  - 5.2.2. Restraints
    - 5.2.2.1. Potential Shortfall in Lithium Supply
  - 5.2.3. Opportunities
    - 5.2.3.1. Growing Deployment of Battery-as-a-Service
  - 5.2.4. Challenges
    - 5.2.4.1. Potential Safety Issues in Batteries

### 5.3. Value Chain Analysis

### 5.4. Technology Analysis

#### 5.4.1. Improvement in Battery Composition

#### 5.4.2. Improvement in Battery Charging Rate

#### 5.4.3. Improvement in Battery Optimization

#### 5.4.4. Battery Design and Location in EV

### 5.5. Patent Analysis

### 5.6. Raw Material Analysis

## **6. EUROPEAN ELECTRIC VEHICLE BATTERIES MARKET, BY TYPE**

### 6.1. Introduction

### 6.2. Lithium-Ion Battery

### 6.3. Sealed Lead Acid Battery

### 6.4. Nickel-Metal Hydride Battery

### 6.5. Ultracapacitors

### 6.6. Solid-State Battery

### 6.7. Other Batteries

## **7. EUROPEAN ELECTRIC VEHICLE BATTERIES MARKET, BY CAPACITY**

### 7.1. Introduction

### 7.2. 51kWh to 100kWh

### 7.3. Less than 50kWh

### 7.4. 101kWh to 300kWh

### 7.5. More than 300kWh

## **8. EUROPEAN ELECTRIC VEHICLE BATTERIES MARKET, BY BONDING TYPE**

### 8.1. Introduction

### 8.2. Wire Bonding

### 8.3. Laser Bonding

## **9. EUROPEAN ELECTRIC VEHICLE BATTERIES MARKET, BY FORM**

### 9.1. Introduction

### 9.2. Prismatic

### 9.3. Pouch

### 9.4. Cylindrical

## **10. EUROPEAN ELECTRIC VEHICLE BATTERIES MARKET, BY APPLICATION**

- 10.1. Introduction
- 10.2. Electric Cars
  - 10.2.1. Battery Electric Vehicles
  - 10.2.2. Plug-in Hybrid Electric Vehicles
  - 10.2.3. Pure Hybrid Electric Vehicles
- 10.3. Light Commercial Vehicles
- 10.4. Heavy Commercial Vehicles
- 10.5. E-Scooters & Motorcycles
- 10.6. E-Bikes

## **11. EUROPEAN ELECTRIC VEHICLE BATTERIES MARKET, BY END USER**

- 11.1. Introduction
- 11.2. Electric Vehicle OEMs
- 11.3. Battery Swapping Stations

## **12. EUROPE EV BATTERY MARKET, BY COUNTRY**

- 12.1. Introduction
  - 12.1.1. Germany
  - 12.1.2. France
  - 12.1.3. U.K.
  - 12.1.4. Norway
  - 12.1.5. Sweden
  - 12.1.6. Italy
  - 12.1.7. Belgium
  - 12.1.8. Spain
  - 12.1.9. Austria
  - 12.1.10. Portugal
  - 12.1.11. Finland
  - 12.1.12. Poland
  - 12.1.13. Hungary
  - 12.1.14. Ireland
  - 12.1.15. Romania
  - 12.1.16. Greece
  - 12.1.17. Slovakia

12.1.18. Croatia

12.1.19. Rest of Europe

### **13. COMPETITIVE LANDSCAPE**

13.1. Introduction

13.2. Key Growth Strategies

13.3. Market Share Analysis (2021)

13.3.1. Ilika PLC

13.3.2. Johnson Matthey PLC

13.3.3. BMZ Holding GmbH

### **14. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, AND STRATEGIC DEVELOPMENTS)**

14.1. Northvolt AB

14.2. Lithium Werks B.V.

14.3. Faradion Limited

14.4. BMZ Holding GmbH

14.5. DR?XLMAIER Group

14.6. E4V

14.7. Britishvolt Limited

14.8. Ilika PLC

14.9. Johnson Matthey PLC

14.10. Leclanch? SA

### **15. APPENDIX**

15.1. Questionnaire

15.2. Available Customization

## List Of Tables

### LIST OF TABLES

Table 1 Impact of COVID-19 on Europe EV Battery Market (USD Million)

Table 2 Europe EV Battery Market Size, by Type, 2020–2029 (USD Million)

Table 3 European EV Batteries Market Size for Lithium-Ion Battery, by Country/Region, 2020–2029 (USD Million)

Table 4 Europe EV Battery Market Size for Sealed Lead Acid Battery, by Country/Region, 2020–2029 (USD Million)

Table 5 European EV Batteries Market Size for Nickel-Metal Hydride Battery, by Country/Region, 2020–2029 (USD Million)

Table 6 European EV Batteries Market Size for Ultracapacitors, by Country/Region, 2020–2029 (USD Million)

Table 7 Europe EV Battery Market Size for Solid-State Battery, by Country/Region, 2020–2029 (USD Million)

Table 8 Europe EV Battery Market Size for Other Batteries, by Country/Region, 2020–2029 (USD Million)

Table 9 Europe EV Battery Market Size, by Capacity, 2020–2029 (USD Million)

Table 10 Europe EV Battery Market Size for 51kWh to 100kWh Capacity, by Country/Region, 2020–2029 (USD Million)

Table 11 Europe EV Battery Market Size for Less than 50kWh Capacity, by Country/Region, 2020–2029 (USD Million)

Table 12 Europe EV Battery Market Size for 101kWh to 300kWh Capacity, by Country/Region, 2020–2029 (USD Million)

Table 13 Europe EV Battery Market Size for More than 300kWh Capacity, by Country/Region, 2020–2029 (USD Million)

Table 14 Europe EV Battery Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 15 Europe EV Battery Market Size for Wire Bonding Type, by Country/Region, 2020–2029 (USD Million)

Table 16 Europe EV Battery Market Size for Laser Bonding Type, by Country/Region, 2020–2029 (USD Million)

Table 17 Europe EV Battery Market Size, by Form, 2020–2029 (USD Million)

Table 18 Europe EV Battery Market Size for Prismatic Form, by Country/Region, 2020–2029 (USD Million)

Table 19 European EV Batteries Market Size for Pouch Form, by Country/Region, 2020–2029 (USD Million)

Table 20 European EV Batteries Market Size for Cylindrical Form, by Country/Region, 2020–2029 (USD Million)

Table 21 European EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 22 European EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 23 European EV Batteries Market Size for Electric Cars, by Country/Region, 2020–2029 (USD Million)

Table 24 European EV Batteries Market Size for Battery Electric Vehicles, by Type, 2020–2029 (USD Million)

Table 25 Europe EV Battery Market Size for Battery Electric Vehicles, by Country/Region, 2020–2029 (USD Million)

Table 26 Europe EV Battery Market Size for Battery Electric Vehicles with Lithium-Ion Batteries, by Country/Region, 2020–2029 (USD Million)

Table 27 Europe EV Battery Market Size for Battery Electric Vehicles with Nickel-Metal Hydride Batteries, by Country/Region, 2020–2029 (USD Million)

Table 28 Europe EV Battery Market Size for Battery Electric Vehicles with Ultracapacitors, by Country/Region, 2020–2029 (USD Million)

Table 29 Europe EV Battery Market Size for Battery Electric Vehicles with Solid-State Battery, by Country/Region, 2020–2029 (USD Million)

Table 30 Europe EV Battery Market Size for Battery Electric Vehicles with Other Batteries, by Country/Region, 2020–2029 (USD Million)

Table 31 Europe EV Battery Market Size for Plug-in Hybrid Electric Vehicles, by Type, 2020–2029 (USD Million)

Table 32 Europe EV Battery Market Size for Plug-in Hybrid Electric Vehicles, by Country/Region, 2020–2029 (USD Million)

Table 33 Europe EV Battery Market Size for Plug-in Hybrid Electric Vehicles with Lithium-Ion Batteries, by Country/Region, 2020–2029 (USD Million)

Table 34 Europe EV Battery Market Size for Plug-in Hybrid Electric Vehicles with Ultracapacitors, by Country/Region, 2020–2029 (USD Million)

Table 35 Europe EV Battery Market Size for Plug-in Hybrid Electric Vehicles with Solid-State Battery, by Country/Region, 2020–2029 (USD Million)

Table 36 European EV Batteries Market Size for Plug-in Hybrid Electric Vehicles with Other Batteries, by Country/Region, 2020–2029 (USD Million)

Table 37 European EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Type, 2020–2029 (USD Million)

Table 38 European EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Country/Region, 2020–2029 (USD Million)

Table 39 European EV Batteries Market Size for Pure Hybrid Electric Vehicles with Lithium-Ion Batteries, by Country/Region, 2020–2029 (USD Million)

Table 40 European EV Batteries Market Size for Pure Hybrid Electric Vehicles with Nickel-Metal Hydride Batteries, by Country/Region, 2020–2029 (USD Million)

Table 41 European EV Batteries Market Size for Pure Hybrid Electric Vehicles with Ultracapacitors, by Country/Region, 2020–2029 (USD Million)

Table 42 Europe EV Battery Market Size for Pure Hybrid Electric Vehicles with Solid-State Battery, by Country/Region, 2020–2029 (USD Million)

Table 43 Europe EV Battery Market Size for Pure Hybrid Electric Vehicles with Other Batteries, by Country/Region, 2020–2029 (USD Million)

Table 44 Europe EV Battery Market Size for Light Commercial Vehicles, by Country/Region, 2020–2029 (USD Million)

Table 45 Europe EV Battery Market Size for Heavy Commercial Vehicles, by Country/Region, 2020–2029 (USD Million)

Table 46 Europe EV Battery Market Size for E-Scooters & Motorcycles, by Country/Region, 2020–2029 (USD Million)

Table 47 Europe EV Battery Market Size for E-Bikes, by Country/Region, 2020–2029 (USD Million)

Table 48 European EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 49 European EV Batteries Market Size for Electric Vehicle OEMs, by Country/Region, 2020–2029 (USD Million)

Table 50 European EV Batteries Market Size for Battery Swapping Stations, by Country/Region, 2020–2029 (USD Million)

Table 51 Germany: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 52 Germany: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 53 Germany: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 54 Germany: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 55 Germany: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 56 Germany: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 57 Germany: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 58 Germany: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 59 Germany: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 60 Germany: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 61 France: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 62 France: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 63 France: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 64 France: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 65 France: EV Batteries Market Size, by Application, 2020–2029 (USD Million)



Table 66 France: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 67 France: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 68 France: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 69 France: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 70 France: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 71 U.K.: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 72 U.K.: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 73 U.K.: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 74 U.K.: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 75 U.K.: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 76 U.K.: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 77 U.K.: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 78 U.K.: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 79 U.K.: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 80 U.K.: EV Batteries Market Size, by End-User, 2020–2029 (USD Million)

Table 81 Norway: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 82 Norway: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 83 Norway: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 84 Norway: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 85 Norway: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 86 Norway: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 87 Norway: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 88 Norway: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 89 Norway: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 90 Norway: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 91 Sweden: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 92 Sweden: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)



Table 93 Sweden: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 94 Sweden: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 95 Sweden: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 96 Sweden: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 97 Sweden: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 98 Sweden: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 99 Sweden: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 100 Sweden: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 101 Italy: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 102 Italy: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 103 Italy: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 104 Italy: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 105 Italy: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 106 Italy: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 107 Italy: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 108 Italy: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 109 Italy: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 110 Italy: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 111 Belgium: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 112 Belgium: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 113 Belgium: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 114 Belgium: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 115 Belgium: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 116 Belgium: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 117 Belgium: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 118 Belgium: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 119 Belgium: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 120 Belgium: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 121 Spain: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 122 Spain: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 123 Spain: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 124 Spain: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 125 Spain: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 126 Spain: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 127 Spain: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 128 Spain: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 129 Spain: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 130 Spain: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 131 Austria: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 132 Austria: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 133 Austria: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 134 Austria: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 135 Austria: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 136 Austria: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 137 Austria: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 138 Austria: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 139 Austria: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 140 Austria: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 141 Portugal: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 142 Portugal: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 143 Portugal: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 144 Portugal: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 145 Portugal: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 146 Portugal: EV Batteries Market Size for Electric Cars, by Type, 2020–2029

(USD Million)

Table 147 Portugal: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 148 Portugal: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 149 Portugal: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 150 Portugal: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 151 Finland: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 152 Finland: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 153 Finland: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 154 Finland: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 155 Finland: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 156 Finland: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 157 Finland: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 158 Finland: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 159 Finland: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 160 Finland: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 161 Poland: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 162 Poland: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 163 Poland: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 164 Poland: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 165 Poland: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 166 Poland: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 167 Poland: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 168 Poland: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 169 Poland: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 170 Poland: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 171 Hungary: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 172 Hungary: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 173 Hungary: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 174 Hungary: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 175 Hungary: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 176 Hungary: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 177 Hungary: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 178 Hungary: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 179 Hungary: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 180 Hungary: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 181 Ireland: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 182 Ireland: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 183 Ireland: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 184 Ireland: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 185 Ireland: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 186 Ireland: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 187 Ireland: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 188 Ireland: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 189 Ireland: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 190 Ireland: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 191 Romania: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 192 Romania: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 193 Romania: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 194 Romania: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 195 Romania: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 196 Romania: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 197 Romania: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 198 Romania: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 199 Romania: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 200 Romania: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 201 Greece: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 202 Greece: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 203 Greece: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 204 Greece: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 205 Greece: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 206 Greece: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 207 Greece: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 208 Greece: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 209 Greece: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 210 Greece: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 211 Slovakia: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 212 Slovakia: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 213 Slovakia: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 214 Slovakia: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 215 Slovakia: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 216 Slovakia: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 217 Slovakia: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 218 Slovakia: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 219 Slovakia: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 220 Slovakia: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 221 Croatia: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 222 Croatia: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 223 Croatia: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)



Table 224 Croatia: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 225 Croatia: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 226 Croatia: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 227 Croatia: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 228 Croatia: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 229 Croatia: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 230 Croatia: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 231 Rest of Europe: EV Batteries Market Size, by Type, 2020–2029 (USD Million)

Table 232 Rest of Europe: EV Batteries Market Size, by Capacity, 2020–2029 (USD Million)

Table 233 Rest of Europe: EV Batteries Market Size, by Bonding Type, 2020–2029 (USD Million)

Table 234 Rest of Europe: EV Batteries Market Size, by Form, 2020–2029 (USD Million)

Table 235 Rest of Europe: EV Batteries Market Size, by Application, 2020–2029 (USD Million)

Table 236 Rest of Europe: EV Batteries Market Size for Electric Cars, by Type, 2020–2029 (USD Million)

Table 237 Rest of Europe: EV Batteries Market Size for Battery Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 238 Rest of Europe: EV Batteries Market Size for Plug-in Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 239 Rest of Europe: EV Batteries Market Size for Pure Hybrid Electric Vehicles, by Battery Type, 2020–2029 (USD Million)

Table 240 Rest of Europe: EV Batteries Market Size, by End User, 2020–2029 (USD Million)

Table 241 Recent Key Developments, by Company (2018–2021)

## List Of Figures

### LIST OF FIGURES

- Figure 1 Market Ecosystem
- Figure 2 Currency and Limitations
- Figure 3 Key Stakeholders
- Figure 4 Research Process
- Figure 5 Key Secondary Sources
- Figure 6 Key Executives Interviewed
- Figure 7 Primary Research Techniques
- Figure 8 Market Size Estimation
- Figure 9 Key Insights
- Figure 10 European EV Batteries Market, by Type, 2029 (USD Million)
- Figure 11 European EV Batteries Market, by Capacity, 2029 (USD Million)
- Figure 12 European EV Batteries Market, by Bonding Type, 2022 Vs. 2029 (USD Million)
- Figure 13 Europe EV Battery Market, by Form, 2029 (USD Million)
- Figure 14 Europe EV Battery Market, by Application, 2029 (USD Million)
- Figure 15 Europe EV Battery Market, by End User, 2022 Vs. 2029 (USD Million)
- Figure 16 Geographic Snapshot: Europe EV Battery Market (Value Share & CAGR)
- Figure 17 The Impact of COVID-19 on The Europe EV Battery Market
- Figure 18 Market Dynamics
- Figure 19 Global New Electric Cars Registration, 2020
- Figure 20 Electric Vehicle Battery Value Chain
- Figure 21 Patent Filed by Leading Battery Players (2019)
- Figure 22 Europe EV Battery Market, by Type, 2022 Vs. 2029 (USD Million)
- Figure 23 Europe EV Battery Market, by Capacity, 2022 Vs. 2029 (USD Million)
- Figure 24 Unit Sales of E-Motorcycles And E-Mopeds in the European Market (2016-2021)
- Figure 25 Europe EV Battery Market, by Bonding Type, 2022 Vs. 2029 (USD Million)
- Figure 26 Europe EV Battery Market, by Form, 2022 Vs. 2029 (USD Million)
- Figure 27 Europe EV Battery Market, by Application, 2022 Vs. 2029 (USD Million)
- Figure 28 Europe EV Battery Market, by End User, 2022 Vs. 2029 (USD Million)
- Figure 29 Major EV Battery Manufacturing Capacities Planned in Europe
- Figure 30 Europe EV Battery Market, by Country, 2022 Vs. 2029, (USD Million)
- Figure 31 Key Growth Strategies Adopted by Leading Players (2018–2021)
- Figure 32 Ilika PLC: Financial Overview, 2020
- Figure 33 Johnson Matthey PLC: Financial Snapshot, 2020

Figure 34 Leclanch? SA: Financial Snapshot, 2020



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