

Electric Vehicle (EV) Battery Housing Market - A Global and Regional Analysis: Focus on Battery Housing Vehicle Type, Cell Format, Battery Chemistry, Material, Component, and Country Analysis - Analysis and Forecast, 2023-2032

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Abstracts

Electric Vehicle Battery Housing Market Overview

The global electric vehicle battery housing market is projected to reach \$13.54 billion by 2032 from \$4.01 billion in 2022, growing at a CAGR of 13.14% during the forecast period 2023-2032. The growth in the electric vehicle battery housing market is expected to be driven by growing demand for electric vehicles, charging infrastructure, the need for lightweighting materials, and better range, among others.

Introduction of Electric Vehicle Battery Housing

Electric vehicle battery housing is a structural component that encloses and protects the battery pack in an electric vehicle. It is also responsible for dissipating heat from the battery pack and preventing the spread of fire in the event of a battery failure. The battery housing is a critical component of an electric vehicle because it protects the battery pack from damage and helps to ensure the safety of the vehicle occupants. It is also important for the thermal management of the battery pack, which helps to improve the performance and lifespan of the battery. The battery housing is made of a variety of materials, including aluminum, steel, and plastic. The choice of material depends on the specific design requirements of the vehicle and the battery pack. It is typically designed to be lightweight, strong, and corrosion resistant. It is also important for the battery housing to be able to dissipate heat effectively. Therefore, it is an important part of the overall safety of an electric vehicle. It helps to prevent the spread of fire in the event of a

battery failure and helps to protect the battery pack from damage.

Market Introduction

The electric vehicle battery housing market is a rapidly growing market due to the increasing demand for electric vehicles. The battery housing is a critical component of an electric vehicle, as it protects the battery pack from damage and helps to dissipate heat. The major players in the electric vehicle battery housing market are ThyssenKrupp AG, SGL Carbon, Nemak, Novelis Inc., Constellium SE, and Covestro AG, among others. These companies are focusing on developing innovative battery housing solutions to meet the increasing demand for electric vehicles.

Industrial Impact

The industrial impact of the electric vehicle battery housing market is significant. The market is growing rapidly due to the increasing demand for electric vehicles. This is driving growth in the automotive, electronics, and metal industries. The automotive industry is the largest consumer of electric vehicle battery housings. The demand for electric vehicles is increasing due to the rising concerns about environmental pollution and the increasing availability of government incentives for electric vehicles. This is expected to drive growth in the automotive industry, which is, in turn, driving growth in the electric vehicle battery housing market. The electronics industry is also a major consumer of electric vehicle battery housings. The advances in battery technology, such as the development of lithium-ion batteries, are making electric vehicles more affordable and practical. This is driving growth in the electronics industry, which is, in turn, driving growth in the electric vehicle battery housing market. The metal industry is also benefiting from the growth of the electric vehicle battery housing market. The battery housings are made of a variety of metals, including aluminum, steel, and plastic. The demand for these metals is increasing due to the growth of the electric vehicle battery housing market.

The industrial impact of the electric vehicle battery housing market is significant. The market is growing rapidly and is driving growth in the automotive, electronics, and metal industries. This is expected to continue in the coming years as the demand for electric vehicles continues to increase.

Market Segmentation:

Segmentation 1: by Cell Format

Pouch Cell

Cylindrical Cell

Prismatic Cell

Prismatic Cells to Dominate the Electric Vehicle Battery Housing Market (by Cell Format)

Based on cell format, prismatic cells dominate the electric vehicle battery housing market because they have a higher energy density, flexible design, better thermal management, and are becoming more cost-effective. They are also less likely to swell, easier to stack and connect, and less likely to be damaged in a crash than cylindrical cells. These advantages make prismatic cells the preferred cell type for electric vehicles.

Segmentation 2: by Vehicle Type

2-Wheeler

3-Wheeler

Off Road Vehicles

Commercial Vehicles

Passenger Vehicles

Passenger Vehicles Segment to Grow at a Significant Growth Rate in the Electric Vehicle Battery Housing Market (by Vehicle Type)

Based on vehicle type, the passenger vehicles segment dominates the electric vehicle battery housing market because passenger vehicles are the most popular type of electric vehicle. This is due to a number of factors, including the fact that passenger vehicles are more affordable than other types of electric vehicles, and they offer a more comfortable and convenient driving experience. The passenger vehicles segment is expected to grow at a faster rate than other segments in the electric vehicle battery

housing market due to the increasing demand for electric vehicles in the passenger car market. In 2022, passenger vehicles accounted for over 70% of all electric vehicles sold worldwide. The average price of an electric passenger car is significantly lower than the average price of an electric commercial vehicle or bus. Electric passenger cars are typically quieter and smoother than other types of electric vehicles, and they offer a more spacious and comfortable interior. Additionally, the International Energy Agency (IEA) predicts that the global market for electric passenger vehicles will grow from 6.6 million vehicles in 2022 to 22.3 million vehicles in 2030. As a result, the passenger vehicles segment is expected to continue dominating the electric vehicle battery housing market in the coming years.

Segmentation 3: by Material Type

Steel

Aluminium

GFRP

CFRP

Aluminum Segment to Grow Considerably in the Electric Vehicle Battery Housing Market (by Material Type)

Based on material type, the aluminum segment is expected to dominate the electric vehicle battery housing market because aluminum is a lightweight, strong, and corrosion-resistant material that is well-suited for use in battery housings. Aluminum is also relatively inexpensive, which makes it a cost-effective option for battery housing manufacturers. In addition, aluminum is recyclable, which makes it a sustainable choice for battery housings. The recycling of aluminum requires less energy than the production of new aluminum, which helps to reduce the environmental impact of electric vehicles. As the demand for electric vehicles continues to grow, the demand for aluminum battery housings is expected to grow as well. This is because aluminum is a well-suited material for battery housings, and it is a cost-effective and sustainable option.

Segmentation 4: by Battery Chemistry Type

Lithium-Ion

Lead Acid

Others

Lithium-ion Segment to Dominate the Electric Vehicle Battery Housing Market (by Battery Chemistry Type)

The lithium-ion battery segment is expected to dominate the electric vehicle battery housing market because lithium-ion batteries are the most widely used type of battery in electric vehicles. This is due to a number of factors, including their high energy density, long lifespan, and relatively low cost. In addition, lithium-ion batteries are becoming increasingly popular in electric vehicles as they become more efficient and affordable. This is expected to drive the demand for lithium-ion battery housings, as these batteries need to be protected from the elements and from damage.

Segmentation 5: by Component Type

Top Cover

Bottom Cover

Others

Bottom Cover Segment to Dominate the Electric Vehicle Battery Housing Market (by Component Type)

Based on component type, the bottom cover segment is expected to dominate the electric vehicle battery housing market because it is the most structurally important part of battery housing. The bottom cover provides structural support for the battery pack and protects it from other harsh elements. It also helps to dissipate heat from the battery pack and prevents it from overheating. Moreover, the bottom cover is typically made from a strong and durable material, such as aluminum or steel. This makes it more resistant to damage than other parts of the battery housing.

Segmentation 6: by Region

North America: U.S., Canada, and Mexico

Europe: Germany, France, and Rest-of-Europe

U.K.

China

Asia-Pacific and Japan: Japan, South Korea, and Rest-of-Asia-Pacific and Japan

Rest-of-the-World

Based on region, Asia-Pacific and Japan region is expected to dominate the electric vehicle battery housing market due to a number of factors, including:

There is a growing demand for electric vehicles in the region. The Asia-Pacific region is one of the leading regions in terms of electric vehicle adoption, and this trend is expected to continue in the coming years.

There is a presence of major battery manufacturers in the region. Asia-Pacific is home to some of the world's leading battery manufacturers, such as BYD, CATL, and Panasonic. These companies are investing heavily in the development of new battery technologies, thereby driving the demand for battery housings.

There is availability of skilled labor in the region. Asia-Pacific has a large pool of skilled labor, which is essential for the manufacturing of complex battery housings.

The favorable government policies in the region. Many governments in the Asia-Pacific region are providing incentives for the adoption of electric vehicles, which is also driving the demand for battery housing.

Recent Developments in the Electric Vehicle Battery Housing Market

In March 2022, in order to accommodate new business from Ford Motor

Company for the provision of novel battery enclosures, Magna stated that it is extending its operations into Chatham as an expansion of its present facilities in St. Thomas.

In June 2022, Renault Group, a prominent participant in the automotive industry, and Minth Group announced the signing of a memorandum of understanding to establish a joint venture in France to manufacture battery casings. In 2023, the joint venture will open two additional manufacturing lines in Ruitz, with a capacity of 300,000 battery casings per year by 2025, for electric vehicles such as the upcoming R5.

In February 2022, Nematik, S.A.B. de C.V. said that it had been granted a contract worth \$350 million annually to manufacture battery housings for worldwide clients' fully electric automobiles. Nematik intends to invest roughly \$200 million in three new manufacturing locations across Europe and North America to support joining and assembly requirements for these products.

Demand – Drivers, Limitations, and Opportunities

Market Demand Drivers:

The market for electric vehicle battery housings is being driven by the increasing demand for electric vehicles, rising environmental concerns, government incentives, and advances in EV battery technology. As the global electric vehicle market continues to grow, so will the demand for battery housings. These products are essential for the safe and efficient operation of electric vehicles, and they are also becoming more affordable as battery technology improves. There is a growing awareness of the need to reduce pollution, and electric vehicles are seen as a way to do this. Battery housings are essential for the safe and efficient operation of electric vehicles, which is anticipated to drive the demand for these products. Electric vehicles produce zero emissions, which is a major advantage over traditional gasoline-powered vehicles. This is expected to drive the demand for electric vehicles and in turn, the demand for battery housings.

Many governments are providing incentives for the adoption of electric vehicles, and this is also driving the demand for battery housing. These incentives make electric vehicles more affordable for consumers, and this is increasing the demand for these vehicles. For example, the U.S. government offers a tax credit of up to \$7,500 for the purchase of an electric vehicle. This tax credit is a major incentive for consumers, and it

is expected to drive the demand for electric vehicles.

Market Challenges:

The market for electric vehicle battery housings is facing a number of challenges, including the high cost of materials, lack of standardization, demand volatility, and competition from other materials. These challenges are making it difficult for manufacturers to produce battery housings that are affordable, compatible, and in demand. The materials used to manufacture battery housings, such as aluminum and steel, are relatively expensive. This is a major challenge for the market, as it can make battery housings a major cost component for electric vehicles.

Also, there is currently no standard for electric vehicle battery housings. This can make it difficult for manufacturers to design and produce battery housings that are compatible with different electric vehicles.

Market Opportunities:

The market for electric vehicle battery housings is expected to grow significantly in the coming years, driven by the increasing demand for electric vehicles and the development of new battery technologies. Some of the key market opportunities and trends include:

The rise of lightweight materials: Lightweight materials, such as composites and plastics, are becoming increasingly popular for manufacturing battery housings. These materials can help to reduce the weight of electric vehicles, which can improve their range and performance.

The development of integrated cooling systems: Integrated cooling systems are becoming increasingly common in battery housings. These systems help to keep the battery at a safe temperature, which can improve its performance and lifespan.

The growth of battery swapping systems: Battery swapping systems are gaining popularity as a way to reduce the time it takes to recharge electric vehicles. Battery housings for battery swapping systems need to be designed to be quick and easy to swap, as well as to protect the battery from damage.

How can this report add value to an organization?

Product/Innovation Strategy: Globally, the leading electric vehicle OEMs are continuously working to manufacture and sell vehicles with higher range. The growing need for affordable and high-performing electric vehicle battery housings is one of the major factors for the growth of the electric vehicle battery housing market. The market is more on the consolidated side at present, where electric vehicle battery housing manufacturers have been successful to a certain extent in strengthening their market position in the global market. However, with the rise of electric vehicles with better ranges, the existing established players are expected to face stiff competition from emerging players. Moreover, partnerships and collaborations are expected to play a crucial role in strengthening market position over the coming years, with the companies focusing on bolstering their technological capabilities and gaining a dominant market share in the electric vehicle battery housing industry.

Growth/Marketing Strategy: The electric vehicle battery housing market has been growing at a rapid pace. The market offers enormous opportunities for existing and emerging market players. Some of the strategies covered in this segment are mergers and acquisitions, product launches, partnerships and collaborations, business expansions, and investments. The strategies preferred by companies to maintain and strengthen their market position primarily include partnerships, agreements, and collaborations.

Competitive Strategy: The key players in the electric vehicle battery housing market analyzed and profiled in the study include steel suppliers, aluminium suppliers, plastics suppliers, electric vehicle battery housings manufacturers that develop, maintain, and market electric vehicle battery housings. Moreover, a detailed competitive benchmarking of the players operating in the electric vehicle battery housing market has been done to help the reader understand the ways in which players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations are expected to aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, product portfolio, and market penetration.

Key Companies Profiled:

SGL Carbon

Novelis Inc.

Nemak, S.A.B. de C.V.

Constellium SE

Gestamp Automocion, S.A.

UACJ Corporation

GF Linamar LLC

Hanwha Solutions Advanced Materials

Minth Group

ThyssenKrupp AG

TRB Lightweight

Hitachi Metals, Ltd.

Norsk Hydro ASA

Magna International Inc.

Kautex Textron GmbH & Co. KG

Teijin Limited

LANXESS

Evonik Industries AG

Saudi Basic Industries Corporation (SABIC)

Covestro AG

Contents

1 MARKETS

1.1 Industry Outlook

1.1.1 Trends: Industry Dynamics Defining the Future Trends in Electric Vehicle Testing, Inspection, and Certification Market

1.1.1.1 Increase in the Adoption of Electronic Systems in Electric Vehicles Boosts the Electric Vehicle Testing, Inspection, and Certification Market

1.1.1.2 Increase in the Number of Cases of Component Failures in Electric Vehicles Boosts the Electric Vehicle Testing, Inspection, and Certification Market

1.1.1.3 Advent of Digital Technologies Pushes the Growth of the Electric Vehicle Testing, Inspection, and Certification Market

1.1.2 Supply Chain Network

1.1.2.1 Development Process (by Application)

1.1.2.1.1 Passenger Vehicles Safety and Security

1.1.2.1.2 Communication

1.1.2.1.3 Battery Systems

1.1.2.1.4 EV Charging

1.1.2.1.5 Connectors

1.1.3 Technology Roadmap

1.1.4 Ecosystem/Ongoing Programs

1.1.4.1 Consortiums, Associations, and Regulatory Bodies

1.1.4.2 Government Initiatives

1.1.4.3 Programs by Research Institutions and Universities

1.2 Business Dynamics

1.2.1 Business Drivers

1.2.1.1 Increasing Government Focus on Strict Regulatory Standards for Electric Vehicles

1.2.1.2 Growing Numbers of Electric Vehicles Worldwide

1.2.1.3 Digitalization in the Electric Vehicle Testing, Inspection, and Certification Market

1.2.2 Business Restraints

1.2.2.1 New Advancements in Electric Vehicles Demand More Skilled Resources

1.2.2.2 Varying Regulations and Standards in Different Regions

1.2.3 Business Strategies

1.2.3.1 Product Development

1.2.3.2 Market Development

1.2.4 Corporate Strategies

- 1.2.4.1 Mergers and Acquisitions
- 1.2.4.2 Partnerships, Joint Ventures, Collaborations, and Alliances
- 1.2.5 Business Opportunities
 - 1.2.5.1 Countries Mandate Periodic Technical Inspections (PTI) of Electric Vehicles
 - 1.2.5.2 Increased Demand for Electric Vehicle Testing, Inspection, and Certification in Emerging Economies
- 1.3 Impact of COVID-19 on the Industry

2 APPLICATION

2.1 Electric Vehicle Testing, Inspection, and Certification Market – Applications and Specifications

- 2.1.1 Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type)
 - 2.1.1.1 Passenger Vehicle
 - 2.1.1.2 Commercial Vehicle
- 2.1.2 Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type))
 - 2.1.2.1 Vehicle Safety and Security
 - 2.1.2.1.1 Key Use Cases
 - 2.1.2.1.1.1 Electric Shock Insulation
 - 2.1.2.1.1.2 Data Management and Privacy
 - 2.1.2.1.1.3 Crash Safety for Accident Prevention
 - 2.1.2.1.1.4 Others
 - 2.1.2.1.2 Testing
 - 2.1.2.1.3 Inspection
 - 2.1.2.1.4 Certification
 - 2.1.2.2 Communication
 - 2.1.2.2.1 Testing
 - 2.1.2.2.2 Inspection
 - 2.1.2.2.3 Certification
 - 2.1.2.3 Battery Systems
 - 2.1.2.3.1 Key Use Cases
 - 2.1.2.3.1.1 Battery Packs
 - 2.1.2.3.1.2 Power Inverters
 - 2.1.2.3.1.3 Motors and Controllers
 - 2.1.2.3.1.4 Others
 - 2.1.2.3.2 Testing
 - 2.1.2.3.3 Inspection
 - 2.1.2.3.4 Certification

- 2.1.2.4 EV Charging
 - 2.1.2.4.1 Testing
 - 2.1.2.4.2 Inspection
 - 2.1.2.4.3 Certification
- 2.1.2.5 Connectors
 - 2.1.2.5.1 Testing
 - 2.1.2.5.2 Inspection
 - 2.1.2.5.3 Certification

2.2 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Application), Value Data, 2021-2031

2.2.1 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), 2021-2031

- 2.2.1.1 Passenger Vehicle
- 2.2.1.2 Commercial Vehicle

2.2.2 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), 2021-2031

- 2.2.2.1 Passenger Vehicles Safety and Security
- 2.2.2.2 Communication
- 2.2.2.3 Battery Systems
- 2.2.2.4 EV Charging
- 2.2.2.5 Connectors

3 PRODUCTS

3.1 Electric Vehicle Testing, Inspection, and Certification Market – Products and Specifications

3.1.1 Electric Vehicle Testing, Inspection, and Certification Market (by Service Type)

- 3.1.1.1 Testing
 - 3.1.1.1.1 Testing Parameters
 - 3.1.1.1.1.1 Mechanical
 - 3.1.1.1.1.2 Temperature
 - 3.1.1.1.1.3 Electrical
 - 3.1.1.1.2 Conditions in Testing

3.1.1.2 Inspection

3.1.1.3 Certification

3.1.2 Electric Vehicle Testing, Inspection, and Certification Market (by Product Type)

- 3.1.2.1 Physical
- 3.1.2.2 Digital

3.1.3 Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing)

3.1.3.1 In-house

3.1.3.2 Outsourcing

3.2 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Product), Value Data, 2021-2031

3.2.1 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), 2021-2031

3.2.1.1 Testing

3.2.1.2 Inspection

3.2.1.3 Certification

3.2.2 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), 2021-2031

3.2.2.1 Physical

3.2.2.2 Digital

3.2.3 Demand Analysis for Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), 2021-2031

3.2.3.1 In-house

3.2.3.2 Outsourcing

4 REGIONS

4.1 North America

4.1.1 Market

4.1.1.1 Buyers Attributes

4.1.1.2 Key Service Providers in North America

4.1.1.3 Competitive Benchmarking

4.1.1.4 Business Challenges

4.1.1.5 Business Drivers

4.1.2 Application

4.1.2.1 North America Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.1.2.2 North America Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.1.3 Product

4.1.3.1 North America Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.1.3.2 North America Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.1.3.3 North America Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.1.4 North America: Country-Level Analysis

4.1.4.1 U.S.

4.1.4.1.1 Market

4.1.4.1.1.1 Buyer Attributes

4.1.4.1.1.2 Key Service Providers in the U.S.

4.1.4.1.1.3 Business Challenges

4.1.4.1.1.4 Business Drivers

4.1.4.1.2 Application

4.1.4.1.2.1 U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.1.4.1.2.2 U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.1.4.1.3 Product

4.1.4.1.3.1 U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.1.4.1.3.2 U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.1.4.1.3.3 U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.1.4.2 Canada

4.1.4.2.1 Market

4.1.4.2.1.1 Buyer Attributes

4.1.4.2.1.2 Key Service Providers in Canada

4.1.4.2.1.3 Business Challenges

4.1.4.2.1.4 Business Drivers

4.1.4.2.2 Application

4.1.4.2.2.1 Canada Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.1.4.2.2.2 Canada Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.1.4.2.3 Product

4.1.4.2.3.1 Canada Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.1.4.2.3.2 Canada Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.1.4.2.3.3 Canada Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.1.4.3 Mexico

4.1.4.3.1 Market

- 4.1.4.3.1.1 Buyer Attributes
- 4.1.4.3.1.2 Key Service Providers in Mexico
- 4.1.4.3.1.3 Business Challenges
- 4.1.4.3.1.4 Business Drivers
- 4.1.4.3.2 Application
 - 4.1.4.3.2.1 Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031
 - 4.1.4.3.2.2 Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031
- 4.1.4.3.3 Product
 - 4.1.4.3.3.1 Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031
 - 4.1.4.3.3.2 Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031
 - 4.1.4.3.3.3 Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031
- 4.2 Europe
 - 4.2.1 Market
 - 4.2.1.1 Buyers Attributes
 - 4.2.1.2 Key Service Providers in Europe
 - 4.2.1.3 Competitive Benchmarking
 - 4.2.1.4 Business Challenges
 - 4.2.1.5 Business Drivers
 - 4.2.2 Application
 - 4.2.2.1 Europe Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031
 - 4.2.2.2 Europe Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031
 - 4.2.3 Product
 - 4.2.3.1 Europe Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031
 - 4.2.3.2 Europe Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031
 - 4.2.3.3 Europe Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031
 - 4.2.4 Europe: Country-Level Analysis
 - 4.2.4.1 Germany
 - 4.2.4.1.1 Market
 - 4.2.4.1.1.1 Buyer Attributes

- 4.2.4.1.1.2 Key Service Providers in Germany
- 4.2.4.1.1.3 Business Challenges
- 4.2.4.1.1.4 Business Drivers
- 4.2.4.1.2 Application
 - 4.2.4.1.2.1 Germany Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031
 - 4.2.4.1.2.2 Germany Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031
- 4.2.4.1.3 Product
 - 4.2.4.1.3.1 Germany Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031
 - 4.2.4.1.3.2 Germany Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031
 - 4.2.4.1.3.3 Germany Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031
- 4.2.4.2 France
 - 4.2.4.2.1 Market
 - 4.2.4.2.1.1 Buyer Attributes
 - 4.2.4.2.1.2 Key Service Providers in France
 - 4.2.4.2.1.3 Business Challenges
 - 4.2.4.2.1.4 Business Drivers
 - 4.2.4.2.2 Application
 - 4.2.4.2.2.1 France Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031
 - 4.2.4.2.2.2 France Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031
 - 4.2.4.2.3 Product
 - 4.2.4.2.3.1 France Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031
 - 4.2.4.2.3.2 France Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031
 - 4.2.4.2.3.3 France Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031
- 4.2.4.3 Spain
 - 4.2.4.3.1 Market
 - 4.2.4.3.1.1 Buyer Attributes
 - 4.2.4.3.1.2 Key Service Providers in Spain
 - 4.2.4.3.1.3 Business Challenges
 - 4.2.4.3.1.4 Business Drivers

4.2.4.3.2 Application

4.2.4.3.2.1 Spain Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.2.4.3.2.2 Spain Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.2.4.3.3 Product

4.2.4.3.3.1 Spain Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.2.4.3.3.2 Spain Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.2.4.3.3.3 Spain Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.2.4.4 Rest-of-Europe

4.2.4.4.1 Market

4.2.4.4.1.1 Buyer Attributes

4.2.4.4.1.2 Key Service Providers in Rest-of-Europe

4.2.4.4.1.3 Business Challenges

4.2.4.4.1.4 Business Drivers

4.2.4.4.2 Application

4.2.4.4.2.1 Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.2.4.4.2.2 Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.2.4.4.3 Product

4.2.4.4.3.1 Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.2.4.4.3.2 Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.2.4.4.3.3 Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.3 U.K.

4.3.1 Market

4.3.1.1 Buyers Attributes

4.3.1.2 Key Service Providers in the U.K.

4.3.1.3 Competitive Benchmarking

4.3.1.4 Business Challenges

4.3.1.5 Business Drivers

4.3.2 Application

4.3.2.1 U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle

Type), Value Data, 2021-2031

4.3.2.2 U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.3.3 Product

4.3.3.1 U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.3.3.2 U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.3.3.3 U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.4 China

4.4.1 Market

4.4.1.1 Buyers Attributes

4.4.1.2 Key Service Providers in China

4.4.1.3 Competitive Benchmarking

4.4.1.4 Business Challenges

4.4.1.5 Business Drivers

4.4.2 Application

4.4.2.1 China Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.4.2.2 China Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.4.3 Product

4.4.3.1 China Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.4.3.2 China Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.4.3.3 China Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.5 Asia-Pacific and Japan

4.5.1 Market

4.5.1.1 Buyers Attributes

4.5.1.2 Key Service Providers in Asia-Pacific and Japan

4.5.1.3 Competitive Benchmarking

4.5.1.4 Business Challenges

4.5.1.5 Business Drivers

4.5.2 Application

4.5.2.1 Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.5.2.2 Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.5.3 Product

4.5.3.1 Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.5.3.2 Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.5.3.3 Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.5.4 Asia-Pacific and Japan: Country-Level Analysis

4.5.4.1 Japan

4.5.4.1.1 Market

4.5.4.1.1.1 Buyer Attributes

4.5.4.1.1.2 Key Service Providers in Japan

4.5.4.1.1.3 Business Challenges

4.5.4.1.1.4 Business Drivers

4.5.4.1.2 Application

4.5.4.1.2.1 Japan Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.5.4.1.2.2 Japan Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.5.4.1.3 Product

4.5.4.1.3.1 Japan Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.5.4.1.3.2 Japan Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.5.4.1.3.3 Japan Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.5.4.2 South Korea

4.5.4.2.1 Market

4.5.4.2.1.1 Buyer Attributes

4.5.4.2.1.2 Key Service Providers in South Korea

4.5.4.2.1.3 Business Challenges

4.5.4.2.1.4 Business Drivers

4.5.4.2.2 Application

4.5.4.2.2.1 South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.5.4.2.2.2 South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.5.4.2.3 Product

4.5.4.2.3.1 South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.5.4.2.3.2 South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.5.4.2.3.3 South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.5.4.3 India

4.5.4.3.1 Market

4.5.4.3.1.1 Buyer Attributes

4.5.4.3.1.2 Key Service Providers in India

4.5.4.3.1.3 Business Challenges

4.5.4.3.1.4 Business Drivers

4.5.4.3.2 Application

4.5.4.3.2.1 India Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.5.4.3.2.2 India Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.5.4.3.3 Product

4.5.4.3.3.1 India Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.5.4.3.3.2 India Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.5.4.3.3.3 India Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.5.4.4 Rest-of-Asia-Pacific

4.5.4.4.1 Market

4.5.4.4.1.1 Buyer Attributes

4.5.4.4.1.2 Key Service Providers in Rest-of-Asia-Pacific

4.5.4.4.1.3 Business Challenges

4.5.4.4.1.4 Business Drivers

4.5.4.4.2 Application

4.5.4.4.2.1 Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.5.4.4.2.2 Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.5.4.4.3 Product

4.5.4.4.3.1 Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.5.4.4.3.2 Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.5.4.4.3.3 Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

4.6 Rest-of-the-World

4.6.1 Market

4.6.1.1 Buyers Attributes

4.6.1.2 Key Service Providers in Rest-of-the-World

4.6.1.3 Competitive Benchmarking

4.6.1.4 Business Challenges

4.6.1.5 Business Drivers

4.6.2 Application

4.6.2.1 Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), Value Data, 2021-2031

4.6.2.2 Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), Value Data, 2021-2031

4.6.3 Product

4.6.3.1 Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), Value Data, 2021-2031

4.6.3.2 Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), Value Data, 2021-2031

4.6.3.3 Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), Value Data, 2021-2031

5 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

5.1 Competitive Benchmarking

5.2 Market Share Analysis

5.3 Product/Service Matrix

5.4 Company Profiles

5.4.1 DEKRA SE

5.4.1.1 Company Overview

5.4.1.1.1 Role of DEKRA SE in the Electric Vehicle Testing, Inspection, and Certification Market

5.4.1.1.2 Product Portfolio

5.4.1.2 Business Strategies

5.4.1.2.1 DEKRA SE: Market Development

5.4.1.3 Analyst View

5.4.2 TUV SUD

- 5.4.2.1 Company Overview
 - 5.4.2.1.1 Role of TUV SUD in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.2.1.2 Product Portfolio
- 5.4.2.2 Business Strategies
 - 5.4.2.2.1 TUV SUD: Market Development
- 5.4.2.3 Analyst View
- 5.4.3 SGS Group
 - 5.4.3.1 Company Overview
 - 5.4.3.1.1 Role of SGS Group in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.3.1.2 Product Portfolio
 - 5.4.3.2 Analyst View
- 5.4.4 Applus Services S.A.
 - 5.4.4.1 Company Overview
 - 5.4.4.1.1 Role of Applus Services S.A. in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.4.1.2 Product Portfolio
 - 5.4.4.2 Business Strategies
 - 5.4.4.2.1 Applus Services S.A.: Product Development
 - 5.4.4.2.2 Applus Services S.A.: Market Development
 - 5.4.4.3 Corporate Strategies
 - 5.4.4.3.1 Applus Services S.A.: Mergers and Acquisitions
 - 5.4.4.4 Analyst View
- 5.4.5 Bureau Veritas S.A.
 - 5.4.5.1 Company Overview
 - 5.4.5.1.1 Role of Bureau Veritas S.A. in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.5.1.2 Product Portfolio
 - 5.4.5.2 Business Strategies
 - 5.4.5.2.1 Bureau Veritas S.A.: Product Development
 - 5.4.5.3 Analyst View
- 5.4.6 Intertek Group plc
 - 5.4.6.1 Company Overview
 - 5.4.6.1.1 Role of Intertek Group plc in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.6.1.2 Product Portfolio
 - 5.4.6.2 Business Strategies
 - 5.4.6.2.1 Intertek Group plc: Market Development

5.4.6.3 Analyst View

5.4.7 Eurofins Scientific

5.4.7.1 Company Overview

5.4.7.1.1 Role of Eurofins Scientific in the Electric Vehicle Testing, Inspection, and Certification Market

5.4.7.1.2 Product Portfolio

5.4.7.2 Corporate Strategies

5.4.7.2.1 Eurofins Scientific: Mergers and Acquisitions

5.4.7.3 Analyst View

5.4.8 British Standards Institution

5.4.8.1 Company Overview

5.4.8.1.1 Role of British Standards Institution in the Electric Vehicle Testing, Inspection, and Certification Market

5.4.8.1.2 Product Portfolio

5.4.8.2 Business Strategies

5.4.8.2.1 British Standards Institution: Product Development

5.4.8.2.2 British Standards Institution: Market Development

5.4.8.3 Analyst View

5.4.9 Rina S.p.A

5.4.9.1 Company Overview

5.4.9.1.1 Role of Rina S.p.A in the Electric Vehicle Testing, Inspection, and Certification Market

5.4.9.1.2 Product Portfolio

5.4.9.2 Analyst View

5.4.10 T?V Rheinland Group

5.4.10.1 Company Overview

5.4.10.1.1 Role of T?V Rheinland Group in the Electric Vehicle Testing, Inspection, and Certification Market

5.4.10.1.2 Product Portfolio

5.4.10.2 Business Strategies

5.4.10.2.1 T?V Rheinland Group: Market Development

5.4.10.3 Corporate Strategies

5.4.10.3.1 T?V Rheinland Group: Partnerships, Joint Ventures, Collaborations, and Alliances

5.4.10.4 Analyst View

5.4.11 Nemko

5.4.11.1 Company Overview

5.4.11.1.1 Role of Nemko in the Electric Vehicle Testing, Inspection, and Certification Market

- 5.4.11.1.2 Product Portfolio
- 5.4.11.2 Analyst View
- 5.4.12 NSF International
 - 5.4.12.1 Company Overview
 - 5.4.12.1.1 Role of NSF International in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.12.1.2 Product Portfolio
 - 5.4.12.2 Analyst View
- 5.4.13 Lloyd's Register Group Limited
 - 5.4.13.1 Company Overview
 - 5.4.13.1.1 Role of Lloyd's Register Group Limited in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.13.1.2 Product Portfolio
 - 5.4.13.2 Analyst View
- 5.4.14 UL LLC
 - 5.4.14.1 Company Overview
 - 5.4.14.1.1 Role of UL LLC in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.14.1.2 Product Portfolio
 - 5.4.14.2 Business Strategies
 - 5.4.14.2.1 UL LLC: Product Development
 - 5.4.14.2.2 UL LLC: Market Development
 - 5.4.14.3 Corporate Strategies
 - 5.4.14.3.1 UL LLC: Mergers and Acquisitions
 - 5.4.14.3.2 UL LLC: Partnerships, Collaborations, Joint Ventures, and Alliances
 - 5.4.14.4 Analyst View
- 5.4.15 Element Materials Technology
 - 5.4.15.1 Company Overview
 - 5.4.15.1.1 Role of Element Materials Technology in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.15.1.2 Product Portfolio
 - 5.4.15.2 Business Strategies
 - 5.4.15.2.1 Element Materials Technology: Market Development
 - 5.4.15.3 Analyst View
- 5.4.16 DNV
 - 5.4.16.1 Company Overview
 - 5.4.16.1.1 Role of DNV in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.16.1.2 Product Portfolio

- 5.4.16.2 Business Strategies
 - 5.4.16.2.1 DNV: Market Development
- 5.4.16.3 Corporate Strategies
 - 5.4.16.3.1 DNV: Partnerships, Collaborations, Joint Ventures, and Alliances
- 5.4.16.4 Analyst View
- 5.4.17 Apave Group
 - 5.4.17.1 Company Overview
 - 5.4.17.1.1 Role of Apave Group in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.17.1.2 Product Portfolio
 - 5.4.17.2 Analyst View
- 5.4.18 T?V NORD GROUP
 - 5.4.18.1 Company Overview
 - 5.4.18.1.1 Role of T?V NORD GROUP in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.18.1.2 Product Portfolio
 - 5.4.18.2 Analyst View
- 5.4.19 Link Engineering Company
 - 5.4.19.1 Company Overview
 - 5.4.19.1.1 Role of Link Engineering Company in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.19.1.2 Product Portfolio
 - 5.4.19.2 Business Strategies
 - 5.4.19.2.1 Link Engineering Company: Product Development
 - 5.4.19.3 Corporate Strategies
 - 5.4.19.3.1 Link Engineering Company: Partnerships, Collaborations, Joint Ventures, and Alliances
 - 5.4.19.4 Analyst View
- 5.4.20 AVL List GmbH
 - 5.4.20.1 Company Overview
 - 5.4.20.1.1 Role of AVL List GmbH in the Electric Vehicle Testing, Inspection, and Certification Market
 - 5.4.20.1.2 Product Portfolio
 - 5.4.20.2 Business Strategies
 - 5.4.20.2.1 AVL List GmbH: Product Development
 - 5.4.20.2.2 AVL List GmbH: Market Development
 - 5.4.20.3 Corporate Strategies
 - 5.4.20.3.1 AVL List GmbH: Partnerships, Collaborations, Joint Ventures, and Alliances

5.4.20.4 Analyst View

5.4.21 Other Key Companies

6 RESEARCH METHODOLOGY

6.1 Data Sources

6.1.1 Primary Data Sources

6.1.2 Secondary Data Sources

6.2 Data Triangulation

6.3 Market Estimation and Forecast

6.3.1 Factors for Data Prediction and Modeling

List Of Figures

LIST OF FIGURES

- Figure 1: Global Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031
- Figure 2: Global Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031
- Figure 3: Global Electric Vehicle Testing, Inspection, and Certification Market (by Application), \$Million, 2021-2031
- Figure 4: Global Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031
- Figure 5: Global Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031
- Figure 6: Global Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031
- Figure 7: Electric Vehicle Testing, Inspection, and Certification Market (by Region), \$Million, 2021
- Figure 8: Electric Vehicle Testing, Inspection, and Certification: Coverage
- Figure 9: Electric Vehicle Testing, Inspection, and Certification Market Supply Chain Analysis
- Figure 10: Stakeholders in Electric Vehicle Testing, Inspection, and Certification Market
- Figure 11: Stages of Passenger Vehicles Safety and Security
- Figure 12: V2G Technology and Devices
- Figure 13: Testing of an EV Battery Pack
- Figure 14: EV Charging Development Process
- Figure 15: Connector Design Process
- Figure 16: Business Dynamics for Electric Vehicle Testing, Inspection, and Certification Market
- Figure 17: Technologies for Electric Vehicle Testing, Inspection, and Certification Services
- Figure 18: Key Business Strategies, 2020-2022
- Figure 19: Product Development (by Company), 2020-2022
- Figure 20: Market Development (by Company), 2020-2022
- Figure 21: Key Corporate Strategies, 2020-2022
- Figure 22: Mergers and Acquisitions (by Company), 2020-2022
- Figure 23: Partnerships, Joint Ventures, Collaborations, and Alliances (by Company), 2020-2022
- Figure 24: Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle

Type)

Figure 25: Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type))

Figure 26: Electric Vehicle Charging Modes

Figure 27: Types of Electric Vehicle Charger

Figure 28: Electric Vehicle Testing, Inspection, and Certification Market (Passenger Vehicle), \$Million, 2021-2031

Figure 29: Electric Vehicle Testing, Inspection, and Certification Market (Commercial Vehicle), \$Million, 2021-2031

Figure 30: Electric Vehicle Testing, Inspection, and Certification Market (Passenger Vehicles Safety and Security), \$Million, 2021-2031

Figure 31: Electric Vehicle Testing, Inspection, and Certification Market (Communication), \$Million, 2021-2031

Figure 32: Electric Vehicle Testing, Inspection, and Certification Market (Battery Systems), \$Million, 2021-2031

Figure 33: Electric Vehicle Testing, Inspection, and Certification Market (EV Charging), \$Million, 2021-2031

Figure 34: Electric Vehicle Testing, Inspection, and Certification Market (Connectors), \$Million, 2021-2031

Figure 35: Electric Vehicle Testing, Inspection, and Certification Market (by Service Type)

Figure 36: Global Electric Vehicle Testing, Inspection, and Certification Market: Safety Strategies.

Figure 37: Electric Vehicle Testing, Inspection, and Certification Market (by Product Type)

Figure 38: Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing)

Figure 39: Electric Vehicle Testing, Inspection, and Certification Market (Testing), \$Million, 2021-2031

Figure 40: Electric Vehicle Testing, Inspection, and Certification Market (Inspection), \$Million, 2021-2031

Figure 41: Electric Vehicle Testing, Inspection, and Certification Market (Certification), \$Million, 2021-2031

Figure 42: Electric Vehicle Testing, Inspection, and Certification Market (Physical), \$Million, 2021-2031

Figure 43: Electric Vehicle Testing, Inspection, and Certification Market (Digital), \$Million, 2021-2031

Figure 44: Electric Vehicle Testing, Inspection, and Certification Market (In-house), \$Million, 2021-2031

Figure 45: Electric Vehicle Testing, Inspection, and Certification Market (Outsourcing),

\$Million, 2021-2031

Figure 46: North America Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 47: North America Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031

Figure 48: Europe Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 49: Europe Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031

Figure 50: U.K. Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 51: U.K. Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031

Figure 52: China Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 53: China Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031

Figure 54: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 55: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031

Figure 56: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 57: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market, \$Million, 2021-2031

Figure 58: Global Electric Vehicle Testing, Inspection, and Certification Market: Competitive Benchmarking, 2021

Figure 59: Research Methodology

Figure 60: Data Triangulation

Figure 61: Top-Down and Bottom-Up Approach

Figure 62: Assumptions and Limitations

List Of Tables

LIST OF TABLES

- Table 1: Global Electric Vehicle Testing, Inspection, and Certification Market Overview
- Table 2: Consortiums, Associations, and Regulatory Bodies
- Table 3: Government Initiatives
- Table 4: Programs by Research Institutions and Universities
- Table 5: Impact of Business Drivers
- Table 6: Impact of Business Restraints
- Table 7: Electric Vehicle Key Policies and Measures
- Table 8: Impact of Business Opportunities
- Table 9: Passenger Vehicles Safety and Security Standards
- Table 10: Communication Standards
- Table 11: EV Battery Testing Standards
- Table 12: EV Charging Standards
- Table 13: Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031
- Table 14: Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031
- Table 15: Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031
- Table 16: Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031
- Table 17: Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031
- Table 18: Electric Vehicle Testing, Inspection, and Certification Market (by Region), \$Million, 2021-2031
- Table 19: North America Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031
- Table 20: North America Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031
- Table 21: North America Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031
- Table 22: North America Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031
- Table 23: North America Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031
- Table 24: U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle

Type), \$Million, 2021-2031

Table 25: U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 26: U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 27: U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 28: U.S. Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 29: Canada Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 30: Canada Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 31: Canada Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 32: Canada Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 33: Canada Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 34: Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 35: Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Thousand, 2021-2031

Table 36: Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 37: Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 38: Mexico Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 39: Europe Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 40: Europe Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 41: Europe Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 42: Europe Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 43: Europe Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 44: Germany Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 45: Germany Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 46: Germany Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 47: Germany Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 48: Germany Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 49: France Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 50: France Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 51: France Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 52: France Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 53: France Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 54: Spain Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 55: Spain Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 56: Spain Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 57: Spain Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 58: Spain Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 59: Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 60: Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 61: Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 62: Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 63: Rest-of-Europe Electric Vehicle Testing, Inspection, and Certification Market

(by Sourcing), \$Million, 2021-2031

Table 64: U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 65: U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 66: U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 67: U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 68: U.K. Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 69: China Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 70: China Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 71: China Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 72: China Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 73: China Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 74: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 75: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 76: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 77: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 78: Asia-Pacific and Japan Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 79: Japan Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 80: Japan Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 81: Japan Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 82: Japan Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 83: Japan Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 84: South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 85: South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Thousand, 2021-2031

Table 86: South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 87: South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 88: South Korea Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 89: India Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 90: India Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 91: India Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 92: India Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 93: India Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 94: Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 95: Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Million, 2021-2031

Table 96: Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 97: Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Product Type), \$Million, 2021-2031

Table 98: Rest-of-Asia-Pacific Electric Vehicle Testing, Inspection, and Certification Market (by Sourcing), \$Million, 2021-2031

Table 99: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Vehicle Type), \$Million, 2021-2031

Table 100: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Application (by Service Type)), \$Thousand, 2021-2031

Table 101: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification Market (by Service Type), \$Million, 2021-2031

Table 102: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification

Market (by Product Type), \$Million, 2021-2031

Table 103: Rest-of-the-World Electric Vehicle Testing, Inspection, and Certification

Market (by Sourcing), \$Million, 2021-2031

Table 104: Global Electric Vehicle Testing, Inspection, and Certification Market Share Analysis, 2021

Table 105: Global Electric Vehicle Testing, Inspection, and Certification Market: Product Matrix

Table 106: DEKRA SE: Product and Service Portfolio

Table 107: DEKRA SE: Market Development

Table 108: TUV SUD: Product and Service Portfolio

Table 109: TUV SUD: Market Development

Table 110: SGS Group: Product and Service Portfolio

Table 111: Applus Services S.A.: Product and Service Portfolio

Table 112: Applus Services S.A.: Product Development

Table 113: Applus Services S.A.: Market Development

Table 114: Bureau Veritas S.A.: Product and Service Portfolio

Table 115: Bureau Veritas S.A.: Product Development

Table 116: Intertek Group plc: Product and Service Portfolio

Table 117: Intertek Group plc: Market Development

Table 118: Eurofins Scientific: Product and Service Portfolio

Table 119: Eurofins Scientific: Mergers and Acquisitions

Table 120: British Standards Institution: Product and Service Portfolio

Table 121: British Standards Institution: Product Development

Table 122: British Standards Institution: Market Development

Table 123: Rina S.p.A: Product and Service Portfolio

Table 124: T?V Rheinland Group: Product and Service Portfolio

Table 125: T?V Rheinland Group: Market Development

Table 126: T?V Rheinland Group: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 127: Nemko: Product and Service Portfolio

Table 128: NSF International: Product and Service Portfolio

Table 129: Lloyd's Register Group Limited: Product and Service Portfolio

Table 130: UL LLC: Product and Service Portfolio

Table 131: UL LLC: Product Development

Table 132: UL LLC: Market Development

Table 133: UL LLC: Mergers and Acquisitions

Table 134: UL LLC: Partnerships, Collaborations, Joint Ventures, and Alliances

Table 135: Element Materials Technology: Product and Service Portfolio

Table 136: Element Materials Technology: Market Development

Table 137: DNV: Product and Service Portfolio

Table 138: DNV: Market Development

Table 139: DNV: Partnerships, Collaborations, Joint Ventures, and Alliances

Table 140: Apave Group: Product and Service Portfolio

Table 141: T?V NORD GROUP: Product and Service Portfolio

Table 142: Link Engineering Company: Product and Service Portfolio

Table 143: Link Engineering Company: Product Development

Table 144: Link Engineering Company: Partnerships, Collaborations, Joint Ventures, and Alliances

Table 145: AVL List GmbH: Product and Service Portfolio

Table 146: AVL List GmbH: Product Development

Table 147: AVL List GmbH: Market Development

Table 148: AVL List GmbH: Partnerships, Collaborations, Joint Ventures, and Alliances

Table 149: Other Key Companies in Electric Vehicle Testing, Inspection, and Certification Market

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