

# Global Heavy-Duty Electric Truck Battery-swap Solution Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Heavy-Duty Electric Truck Battery-swap Solution market size is predicted to grow from US\$ 5510 million in 2025 to US\$ 10180 million in 2032; it is expected to grow at a CAGR of 9.9% from 2026 to 2032.

Heavy-Duty Electric Truck Battery-swap Solution refers to an integrated electrification system for commercial heavy-duty trucks that enables rapid replacement of depleted traction batteries with fully charged standardized battery packs through automated or semi-automated swapping stations, combined with digital fleet management and energy infrastructure systems to maximize vehicle uptime, logistics efficiency, and energy utilization.

The heavy-duty electric truck battery-swap solution industry chain begins upstream with mining and chemical companies supplying lithium, nickel, cobalt, graphite, steel, and electronic components, continues midstream with battery manufacturers, truck OEMs, and swap system integrators such as CATL, Ample, and U Power who design standardized battery packs, chassis integration systems, and automated swap stations, and extends downstream to logistics fleets, mining operators, port authorities, and industrial transport users who deploy electric heavy-duty trucks in high-utilization scenarios supported by energy service providers and grid operators enabling charging, swapping, and energy management ecosystems across regional and national transport corridors.

Projects under construction and planned in the heavy-duty electric truck battery-swap sector include CATL's large-scale Qiji Energy swap network expansion with thousands of stations across China, Sinopec-CATL joint deployment of integrated energy and

swap infrastructure along national freight corridors, U Power's commercial rollout of battery-swapping heavy truck fleets in Southeast Asia including Thailand with 1,000-vehicle pilots, European pilot projects such as E-HAUL's fully automated truck swap stations and standardization initiatives, Ample's modular swap platform expansion into commercial fleet applications in Japan and Europe, and multiple government-backed infrastructure demonstration projects aimed at standardizing battery swapping systems for heavy-duty logistics electrification.

2025 Global Market Average Gross Profit Margin: 38%.

United States market for Heavy-Duty Electric Truck Battery-swap Solution is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Heavy-Duty Electric Truck Battery-swap Solution is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Heavy-Duty Electric Truck Battery-swap Solution is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Heavy-Duty Electric Truck Battery-swap Solution players cover U Power, Aulton New Energy, Ample, Durot Electric GmbH, E-HAUL, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Heavy-Duty Electric Truck Battery-swap Solution Industry Forecast' looks at past sales and reviews total world Heavy-Duty Electric Truck Battery-swap Solution sales in 2025, providing a comprehensive analysis by region and market sector of projected Heavy-Duty Electric Truck Battery-swap Solution sales for 2026 through 2032. With Heavy-Duty Electric Truck Battery-swap Solution sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Heavy-Duty Electric Truck Battery-swap Solution industry.

This Insight Report provides a comprehensive analysis of the global Heavy-Duty Electric Truck Battery-swap Solution landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading

global companies with a focus on Heavy-Duty Electric Truck Battery-swap Solution portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Heavy-Duty Electric Truck Battery-swap Solution market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Heavy-Duty Electric Truck Battery-swap Solution and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Heavy-Duty Electric Truck Battery-swap Solution.

This report presents a comprehensive overview, market shares, and growth opportunities of Heavy-Duty Electric Truck Battery-swap Solution market by product type, application, key players and key regions and countries.

#### Segmentation by Type:

Replacement System Solution

Replacement Station Solution

#### Segmentation by System Architecture:

Chassis Swap System

Bottom-Loading Swap System

Side-Loading Swap System

Modular Pack Swap System

#### Segmentation by Energy Capacity:

Below 200 kWh System

200?400 kWh System

Above 400 kWh System

Segmentation by Application:

Trailer Trucks

Dump Trucks

Cargo Trucks

Special Purpose Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

U Power

Aulton New Energy

Ample

Durot Electric GmbH

E??HAUL

Blue Energy

CATL

Mitsubishi Heavy Industries

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Heavy-Duty Electric Truck Battery-swap Solution Market Size (2021-2032)
- 2.1.2 Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Region (2021 VS 2025 VS 2032)
- 2.1.3 World Current & Future Analysis for Heavy-Duty Electric Truck Battery-swap Solution by Country/Region (2021, 2025 & 2032)
- 2.2 Heavy-Duty Electric Truck Battery-swap Solution Segment by Type
  - 2.2.1 Replacement System Solution
  - 2.2.2 Replacement Station Solution
  - 2.2.3 Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type
    - 2.2.3.1 Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Type (2021 VS 2025 VS 2032)
    - 2.2.3.2 Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type (2021-2026)
- 2.3 Heavy-Duty Electric Truck Battery-swap Solution Segment by System Architecture
  - 2.3.1 Chassis Swap System
  - 2.3.2 Bottom-Loading Swap System
  - 2.3.3 Side-Loading Swap System
  - 2.3.4 Modular Pack Swap System
  - 2.3.5 Heavy-Duty Electric Truck Battery-swap Solution Market Size by System Architecture
    - 2.3.5.1 Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by System Architecture (2021 VS 2025 VS 2032)

2.3.5.2 Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by System Architecture (2021-2026)

2.4 Heavy-Duty Electric Truck Battery-swap Solution Segment by Energy Capacity

2.4.1 Below 200 kWh System

2.4.2 200-400 kWh System

2.4.3 Above 400 kWh System

2.4.4 Heavy-Duty Electric Truck Battery-swap Solution Market Size by Energy Capacity

2.4.4.1 Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Energy Capacity (2021 VS 2025 VS 2032)

2.4.4.2 Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Energy Capacity (2021-2026)

2.5 Heavy-Duty Electric Truck Battery-swap Solution Segment by Application

2.5.1 Trailer Trucks

2.5.2 Dump Trucks

2.5.3 Cargo Trucks

2.5.4 Special Purpose Vehicles

2.5.5 Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application

2.5.5.1 Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.5.5.2 Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application (2021-2026)

### **3 HEAVY-DUTY ELECTRIC TRUCK BATTERY-SWAP SOLUTION MARKET SIZE BY PLAYER**

3.1 Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Player

3.1.1 Global Heavy-Duty Electric Truck Battery-swap Solution Revenue by Player (2021-2026)

3.1.2 Global Heavy-Duty Electric Truck Battery-swap Solution Revenue Market Share by Player (2021-2026)

3.2 Global Heavy-Duty Electric Truck Battery-swap Solution Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

## **4 HEAVY-DUTY ELECTRIC TRUCK BATTERY-SWAP SOLUTION BY REGION**

- 4.1 Heavy-Duty Electric Truck Battery-swap Solution Market Size by Region (2021-2026)
- 4.2 Global Heavy-Duty Electric Truck Battery-swap Solution Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth (2021-2026)
- 4.4 APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth (2021-2026)
- 4.5 Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth (2021-2026)
- 4.6 Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth (2021-2026)

## **5 AMERICAS**

- 5.1 Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size by Country (2021-2026)
- 5.2 Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026)
- 5.3 Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size by Region (2021-2026)
- 6.2 APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026)
- 6.3 APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026)
- 6.4 China
- 6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

## **7 EUROPE**

- 7.1 Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size by Country (2021-2026)
- 7.2 Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026)
- 7.3 Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution by Region (2021-2026)
- 8.2 Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 GLOBAL HEAVY-DUTY ELECTRIC TRUCK BATTERY-SWAP SOLUTION MARKET FORECAST**

10.1 Global Heavy-Duty Electric Truck Battery-swap Solution Forecast by Region (2027-2032)

10.1.1 Global Heavy-Duty Electric Truck Battery-swap Solution Forecast by Region (2027-2032)

10.1.2 Americas Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.1.3 APAC Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.1.4 Europe Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.1.5 Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.2 Americas Heavy-Duty Electric Truck Battery-swap Solution Forecast by Country (2027-2032)

10.2.1 United States Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.2.2 Canada Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.2.3 Mexico Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.2.4 Brazil Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.3 APAC Heavy-Duty Electric Truck Battery-swap Solution Forecast by Region (2027-2032)

10.3.1 China Heavy-Duty Electric Truck Battery-swap Solution Market Forecast

10.3.2 Japan Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.3.3 Korea Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.3.4 Southeast Asia Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.3.5 India Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.3.6 Australia Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.4 Europe Heavy-Duty Electric Truck Battery-swap Solution Forecast by Country (2027-2032)

10.4.1 Germany Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.4.2 France Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.4.3 UK Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.4.4 Italy Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.4.5 Russia Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.5 Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Forecast by Region (2027-2032)

10.5.1 Egypt Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.5.2 South Africa Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.5.3 Israel Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.5.4 Turkey Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

10.6 Global Heavy-Duty Electric Truck Battery-swap Solution Forecast by Type (2027-2032)

10.7 Global Heavy-Duty Electric Truck Battery-swap Solution Forecast by Application (2027-2032)

10.7.1 GCC Countries Market Heavy-Duty Electric Truck Battery-swap Solution Forecast

## **11 KEY PLAYERS ANALYSIS**

### 11.1 U Power

11.1.1 U Power Company Information

11.1.2 U Power Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.1.3 U Power Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.1.4 U Power Main Business Overview

11.1.5 U Power Latest Developments

### 11.2 Aulton New Energy

11.2.1 Aulton New Energy Company Information

11.2.2 Aulton New Energy Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.2.3 Aulton New Energy Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.2.4 Aulton New Energy Main Business Overview

11.2.5 Aulton New Energy Latest Developments

### 11.3 Ample

11.3.1 Ample Company Information

11.3.2 Ample Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.3.3 Ample Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.3.4 Ample Main Business Overview

11.3.5 Ample Latest Developments

### 11.4 Durot Electric GmbH

11.4.1 Durot Electric GmbH Company Information

11.4.2 Durot Electric GmbH Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.4.3 Durot Electric GmbH Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.4.4 Durot Electric GmbH Main Business Overview

11.4.5 Durot Electric GmbH Latest Developments

## 11.5 E??HAUL

11.5.1 E??HAUL Company Information

11.5.2 E??HAUL Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.5.3 E??HAUL Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.5.4 E??HAUL Main Business Overview

11.5.5 E??HAUL Latest Developments

## 11.6 Blue Energy

11.6.1 Blue Energy Company Information

11.6.2 Blue Energy Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.6.3 Blue Energy Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.6.4 Blue Energy Main Business Overview

11.6.5 Blue Energy Latest Developments

## 11.7 CATL

11.7.1 CATL Company Information

11.7.2 CATL Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.7.3 CATL Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.7.4 CATL Main Business Overview

11.7.5 CATL Latest Developments

## 11.8 Mitsubishi Heavy Industries

11.8.1 Mitsubishi Heavy Industries Company Information

11.8.2 Mitsubishi Heavy Industries Heavy-Duty Electric Truck Battery-swap Solution Product Offered

11.8.3 Mitsubishi Heavy Industries Heavy-Duty Electric Truck Battery-swap Solution Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 Mitsubishi Heavy Industries Main Business Overview

11.8.5 Mitsubishi Heavy Industries Latest Developments

## 12 RESEARCH FINDINGS AND CONCLUSION

## List Of Tables

### LIST OF TABLES

Table 1. Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Heavy-Duty Electric Truck Battery-swap Solution Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Replacement System Solution

Table 4. Major Players of Replacement Station Solution

Table 5. Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 6. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026) & (\$ millions)

Table 7. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type (2021-2026)

Table 8. Major Players of Chassis Swap System

Table 9. Major Players of Bottom-Loading Swap System

Table 10. Major Players of Side-Loading Swap System

Table 11. Major Players of Modular Pack Swap System

Table 12. Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by System Architecture (2021 VS 2025 VS 2032) & (\$ millions)

Table 13. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size by System Architecture (2021-2026) & (\$ millions)

Table 14. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by System Architecture (2021-2026)

Table 15. Major Players of Below 200 kWh System

Table 16. Major Players of 200?400 kWh System

Table 17. Major Players of Above 400 kWh System

Table 18. Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Energy Capacity (2021 VS 2025 VS 2032) & (\$ millions)

Table 19. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size by Energy Capacity (2021-2026) & (\$ millions)

Table 20. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Energy Capacity (2021-2026)

Table 21. Heavy-Duty Electric Truck Battery-swap Solution Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 22. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026) & (\$ millions)

Table 23. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application (2021-2026)

Table 24. Global Heavy-Duty Electric Truck Battery-swap Solution Revenue by Player (2021-2026) & (\$ millions)

Table 25. Global Heavy-Duty Electric Truck Battery-swap Solution Revenue Market Share by Player (2021-2026)

Table 26. Heavy-Duty Electric Truck Battery-swap Solution Key Players Head office and Products Offered

Table 27. Heavy-Duty Electric Truck Battery-swap Solution Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 28. New Products and Potential Entrants

Table 29. Mergers & Acquisitions, Expansion

Table 30. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size by Region (2021-2026) & (\$ millions)

Table 31. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Region (2021-2026)

Table 32. Global Heavy-Duty Electric Truck Battery-swap Solution Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global Heavy-Duty Electric Truck Battery-swap Solution Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size by Country (2021-2026) & (\$ millions)

Table 35. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Country (2021-2026)

Table 36. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026) & (\$ millions)

Table 37. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type (2021-2026)

Table 38. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026) & (\$ millions)

Table 39. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application (2021-2026)

Table 40. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size by Region (2021-2026) & (\$ millions)

Table 41. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Region (2021-2026)

Table 42. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026) & (\$ millions)

Table 43. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size by

Application (2021-2026) & (\$ millions)

Table 44. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size by Country (2021-2026) & (\$ millions)

Table 45. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Country (2021-2026)

Table 46. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026) & (\$ millions)

Table 47. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026) & (\$ millions)

Table 48. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size by Region (2021-2026) & (\$ millions)

Table 49. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size by Type (2021-2026) & (\$ millions)

Table 50. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size by Application (2021-2026) & (\$ millions)

Table 51. Key Market Drivers & Growth Opportunities of Heavy-Duty Electric Truck Battery-swap Solution

Table 52. Key Market Challenges & Risks of Heavy-Duty Electric Truck Battery-swap Solution

Table 53. Key Industry Trends of Heavy-Duty Electric Truck Battery-swap Solution

Table 54. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 55. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share Forecast by Region (2027-2032)

Table 56. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 57. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 58. U Power Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 59. U Power Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 60. U Power Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 61. U Power Main Business

Table 62. U Power Latest Developments

Table 63. Aulton New Energy Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 64. Aulton New Energy Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 65. Aulton New Energy Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 66. Aulton New Energy Main Business

Table 67. Aulton New Energy Latest Developments

Table 68. Ample Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 69. Ample Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 70. Ample Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 71. Ample Main Business

Table 72. Ample Latest Developments

Table 73. Durot Electric GmbH Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 74. Durot Electric GmbH Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 75. Durot Electric GmbH Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 76. Durot Electric GmbH Main Business

Table 77. Durot Electric GmbH Latest Developments

Table 78. E??HAUL Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 79. E??HAUL Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 80. E??HAUL Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 81. E??HAUL Main Business

Table 82. E??HAUL Latest Developments

Table 83. Blue Energy Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 84. Blue Energy Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 85. Blue Energy Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 86. Blue Energy Main Business

Table 87. Blue Energy Latest Developments

Table 88. CATL Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 89. CATL Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 90. CATL Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 91. CATL Main Business

Table 92. CATL Latest Developments

Table 93. Mitsubishi Heavy Industries Details, Company Type, Heavy-Duty Electric Truck Battery-swap Solution Area Served and Its Competitors

Table 94. Mitsubishi Heavy Industries Heavy-Duty Electric Truck Battery-swap Solution Product Offered

Table 95. Mitsubishi Heavy Industries Heavy-Duty Electric Truck Battery-swap Solution Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 96. Mitsubishi Heavy Industries Main Business

Table 97. Mitsubishi Heavy Industries Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Heavy-Duty Electric Truck Battery-swap Solution Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Heavy-Duty Electric Truck Battery-swap Solution Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Heavy-Duty Electric Truck Battery-swap Solution Sales Market Share by Country/Region (2025)
- Figure 8. Heavy-Duty Electric Truck Battery-swap Solution Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type in 2025
- Figure 10. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by System Architecture in 2025
- Figure 11. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Energy Capacity in 2025
- Figure 12. Heavy-Duty Electric Truck Battery-swap Solution in Trailer Trucks
- Figure 13. Global Heavy-Duty Electric Truck Battery-swap Solution Market: Trailer Trucks (2021-2026) & (\$ millions)
- Figure 14. Heavy-Duty Electric Truck Battery-swap Solution in Dump Trucks
- Figure 15. Global Heavy-Duty Electric Truck Battery-swap Solution Market: Dump Trucks (2021-2026) & (\$ millions)
- Figure 16. Heavy-Duty Electric Truck Battery-swap Solution in Cargo Trucks
- Figure 17. Global Heavy-Duty Electric Truck Battery-swap Solution Market: Cargo Trucks (2021-2026) & (\$ millions)
- Figure 18. Heavy-Duty Electric Truck Battery-swap Solution in Special Purpose Vehicles
- Figure 19. Global Heavy-Duty Electric Truck Battery-swap Solution Market: Special Purpose Vehicles (2021-2026) & (\$ millions)
- Figure 20. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application in 2025
- Figure 21. Global Heavy-Duty Electric Truck Battery-swap Solution Revenue Market Share by Player in 2025

- Figure 22. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Region (2021-2026)
- Figure 23. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size 2021-2026 (\$ millions)
- Figure 24. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size 2021-2026 (\$ millions)
- Figure 25. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size 2021-2026 (\$ millions)
- Figure 26. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size 2021-2026 (\$ millions)
- Figure 27. Americas Heavy-Duty Electric Truck Battery-swap Solution Value Market Share by Country in 2025
- Figure 28. United States Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 29. Canada Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 30. Mexico Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 31. Brazil Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 32. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Region in 2025
- Figure 33. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type (2021-2026)
- Figure 34. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application (2021-2026)
- Figure 35. China Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 36. Japan Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 37. South Korea Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 38. Southeast Asia Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 39. India Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 40. Australia Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)
- Figure 41. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size Market

Share by Country in 2025

Figure 42. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type (2021-2026)

Figure 43. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application (2021-2026)

Figure 44. Germany Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 45. France Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 46. UK Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 47. Italy Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 48. Russia Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Region (2021-2026)

Figure 50. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Type (2021-2026)

Figure 51. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size Market Share by Application (2021-2026)

Figure 52. Egypt Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 53. South Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 54. Israel Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 55. Turkey Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 56. GCC Countries Heavy-Duty Electric Truck Battery-swap Solution Market Size Growth 2021-2026 (\$ millions)

Figure 57. Americas Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 58. APAC Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 59. Europe Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 60. Middle East & Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 61. United States Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 62. Canada Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 63. Mexico Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 64. Brazil Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 65. China Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 66. Japan Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 67. Korea Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 68. Southeast Asia Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 69. India Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 70. Australia Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 71. Germany Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 72. France Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 73. UK Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 74. Italy Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 75. Russia Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 76. Egypt Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 77. South Africa Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 78. Israel Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 79. Turkey Heavy-Duty Electric Truck Battery-swap Solution Market Size 2027-2032 (\$ millions)

Figure 80. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market

Share Forecast by Type (2027-2032)

Figure 81. Global Heavy-Duty Electric Truck Battery-swap Solution Market Size Market

Share Forecast by Application (2027-2032)

Figure 82. GCC Countries Heavy-Duty Electric Truck Battery-swap Solution Market Size

2027-2032 (\$ millions)

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