+357 96 030922
info@marketpublishers.com

Fuel Cell Commercial Vehicle Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

https://marketpublishers.com/r/F5E05C24C8BDEN.html
Date: September 2024
Pages: 240
Price: US$ 4,365.00 (Single User License)
ID: F5E05C24C8BDEN

Abstracts

The Global Fuel Cell Commercial Vehicle Market, valued at USD 2.5 billion in 2023, is projected to grow at a CAGR of 31.4% between 2024 and 2032. This growth is largely driven by stricter emissions regulations introduced by governments worldwide, aimed at reducing greenhouse gases and air pollution. Policies promoting zero-emission vehicles, such as those in the EU, the U.S., and China, are encouraging the adoption of fuel cell vehicles in the commercial sector. As a result, the trend toward zero-emission vehicles is gaining significant momentum across various regions. Heavy-duty commercial vehicles are major contributors to global emissions, and the shift to fuel cell technology is helping companies comply with evolving environmental regulations. Businesses in sectors like public transportation, fleet operations, and logistics are turning to fuel cell vehicles to meet sustainability goals and avoid penalties. This growing demand for cleaner technologies is a direct response to increasing pressure from governments to reduce emissions in these industries. The rise of e-commerce and the growing demand for sustainable logistics solutions are further driving the need for zero-emission commercial vehicles. Many large companies are investing in fleet electrification to align with customer preferences for greener logistics services.
Fuel cell commercial vehicles, with their longer range and quick refueling times, are emerging as ideal options for heavy-duty and long-haul operations. These vehicles offer a significant advantage over battery-electric alternatives, especially in terms of efficiency for large-scale logistics. In terms of vehicle type, the market is segmented into light, medium, and heavy commercial vehicles. In 2023, light commercial vehicles dominated the market, holding a substantial share of the revenue.
The ongoing expansion of hydrogen refueling networks is making it easier for fleet operators to adopt fuel cell light commercial vehicles, further accelerating market growth. The market is also segmented by fuel cell technology, with proton exchange

+357 96 030922
info@marketpublishers.com

membranes (PEM) expected to hold the largest share by 2032. Ongoing advancements in PEM technology, including enhanced durability and resistance to harsh conditions, are ensuring that fuel cells can withstand the demands of commercial operations. Asia Pacific led the market in 2023, driven by significant investments in hydrogen infrastructure. Countries in the region are rapidly advancing their hydrogen refueling capabilities to support the increasing number of fuel cell commercial vehicles, aligning with their environmental goals and efforts to reduce carbon emissions.

+357 96 030922
info@marketpublishers.com

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

1.1 Research design
  1.1.1 Research approach
  1.1.2 Data collection methods
1.2 Base estimates & calculations
  1.2.1 Base year calculation
  1.2.2 Key trends for market estimation
1.3 Forecast model
1.4 Primary research and validation
  1.4.1 Primary sources
  1.4.2 Data mining sources
1.5 Market scope & definition

CHAPTER 2 EXECUTIVE SUMMARY

2.1 Industry 360° synopsis, 2021 - 2032

CHAPTER 3 INDUSTRY INSIGHTS

3.1 Industry ecosystem analysis
3.2 Supplier landscape
  3.2.1 Automobile manufacturers
  3.2.2 Fuel cell technology providers
  3.2.3 Hydrogen infrastructure providers
  3.2.4 End-user
3.3 Profit margin analysis
3.4 Cost breakdown analysis
  3.4.1 Hydrogen storage system
  3.4.2 Hydrogen refuelling infrastructure
  3.4.3 Maintenance & support
  3.4.4 Others
3.5 Technology & innovation landscape
3.6 Patent analysis
3.7 Key news & initiatives

+357 96 030922
info@marketpublishers.com

3.8 Regulatory landscape
3.9 Impact forces
3.9.1 Growth drivers
3.9.1.1 Stringent emission regulations
3.9.1.2 Technology advancements in fuel cell efficiency
3.9.1.3 Growing government subsidies and incentives
3.9.1.4 Growing priority for decarbonization by public transportation
3.9.2 Industry pitfalls & challenges
3.9.2.1 Limited hydrogen infrastructure development
3.9.2.2 High fuel cell system costs
3.10 Growth potential analysis
3.11 Porter’s analysis
3.12 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction
4.2 Company market share analysis
4.3 Competitive positioning matrix
4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY VEHICLE, 2021 - 2032 ($BN, UNITS)

5.1 Key trends
5.2 Light commercial vehicles
5.3 Medium commercial vehicles
5.4 Heavy commercial vehicles

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY FUEL CELL TECHNOLOGY, 2021 - 2032 ($BN, UNITS)

6.1 Key trends
6.2 Proton exchange membrane
6.3 Alkaline fuel cells
6.4 Solid oxide fuel cells

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY RANGE, 2021 - 2032 ($BN, UNITS)

+357 96 030922
info@marketpublishers.com

7.1 Key trends
7.2 Short-range
7.3 Medium-range
7.4 Long-range

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USER, 2021 - 2032 ($BN, UNITS)

8.1 Key trends
8.2 Public transit
8.3 Construction and mining
8.4 Logistics & transportation
8.5 Others

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2032 ($BN, UNITS)

9.1 Key trends
9.2 North America
  9.2.1 U.S.
  9.2.2 Canada
9.3 Europe
  9.3.1 UK
  9.3.2 Germany
  9.3.3 France
  9.3.4 Italy
  9.3.5 Spain
  9.3.6 Russia
9.4 Asia Pacific
  9.4.1 China
  9.4.2 India
  9.4.3 Japan
  9.4.4 South Korea
  9.4.5 ANZ
  9.4.6 Southeast Asia
9.5 Latin America
  9.5.1 Brazil
  9.5.2 Mexico

+357 96 030922
info@marketpublishers.com

9.5.3 Argentina
9.6 MEA
9.6.1 South Africa
9.6.2 Saudi Arabia
9.6.3 UAE

CHAPTER 10 COMPANY PROFILES

10.1 Foton Motor
10.2 Honda Motor
10.3 Hyundai Motor
10.4 Hyzon Motors
10.5 Mercedes-Benz Group
10.6 New Flyer
10.7 Nikola
10.8 PACCAR
10.9 Renault
10.10 Solaris Bus & Coach
10.11 Tata Motors
10.12 Toyota Motor Company
10.13 Volkswagen Group (Scania)
10.14 Volvo Group
10.15 Zhejiang Geely Holding Group

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Fuel Cell Commercial Vehicle Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

Product link: https://marketpublishers.com/r/F5E05C24C8BDEN.html

Price: US$ 4,365.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/F5E05C24C8BDEN.html