+357 96 030922
info@marketpublishers.com

Automotive E-Fuel Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

https://marketpublishers.com/r/A694CDBE1637EN.html
Date: September 2024
Pages: 100
Price: US$ 4,850.00 (Single User License)
ID: A694CDBE1637EN

Abstracts

The Global Automotive E-Fuel Market, valued at USD 2 billion in 2023, is expected to experience significant growth, with a projected CAGR of 33.1% from 2024 to 2032. This surge is largely driven by stringent government regulations curbing carbon emissions from automobiles, along with advancements in renewable energy technologies that enable efficient e-fuel production. As governments worldwide work toward phasing out internal combustion engines (ICEs), the demand for e-fuels, which can be used with existing ICE infrastructure while aligning with long-term decarbonization goals, continues to rise. E-fuels are generated from renewable electricity, primarily through electrolysis. As the capacity for renewable energy, particularly solar and wind, expands, the production of e-fuels becomes increasingly viable.

Technological innovations in energy generation and storage are driving down production costs, further enhancing the market potential for e-fuels. In terms of product, the ethanol segment is set to exceed USD 6 billion by 2032. Advancements in ethanol production processes are boosting the efficiency and sustainability of e-fuel production. Techniques such as optimized fermentation, enzymatic hydrolysis, and membrane separation play a key role in these improvements. Additionally, innovations like combined bioprocessing and inherently engineered microbes drive down production costs while improving the economic viability of ethanol-based e-fuels.

Regarding technology, the Fischer-Tropsch process is expected to grow at a CAGR of over 32.5% through 2032. This method is critical in reducing carbon emissions and supporting global decarbonization efforts. By incorporating renewable hydrogen, the Fischer-Tropsch process helps to harness green energy sources, further propelling the adoption of e-fuels in the automotive sector. In the U.S., the automotive e-fuel market is projected to surpass USD 2.2 billion by 2032. Investments from both the public and private sectors help in driving market growth. This financial support bolsters research,

+357 96 030922
info@marketpublishers.com

development, and commercialization efforts, helping to overcome early market barriers.As a result, the industry is seeing enhanced scalability in e-fuel production capacities, which is expected to further accelerate market expansion in the coming years.

+357 96 030922
info@marketpublishers.com

Contents

Report Content

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 9 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Automotive E-Fuel Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

Product link: https://marketpublishers.com/r/A694CDBE1637EN.html

Price: US$ 4,850.00 (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/A694CDBE1637EN.html