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A Comprehensive Guide to U.S. EV Market Share



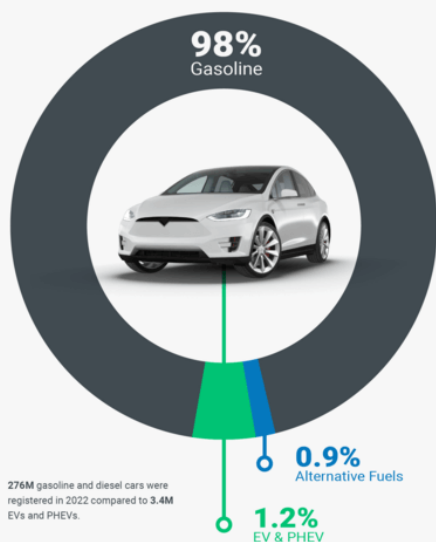
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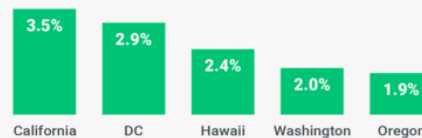
Electric vehicles (EVs) are undeniably making waves in the automotive industry, transforming the landscape of transportation and challenging the dominance of traditional gasoline cars. In this article, we delve into the intricacies of the EV market share in the U.S., exploring the data, dissecting the nuances, and shedding light on the evolving trends that promise to shape the future of mobility.

U.S. Vehicle Registrations by Fuel Type in 2022



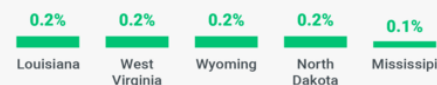
Top 5 States by EV Adoption

EV share of 2022 vehicle registrations



Bottom 5 States by EV Adoption

EV share of 2022 vehicle registrations



The Landscape in 2022

As of 2022, the U.S. Department of Energy reveals that out of the 281 million registered light-duty vehicles in the nation, electric and plug-in hybrid vehicles combined only account for a modest 1.2%.

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While this may seem relatively low, it's crucial to distinguish between vehicle registrations and sales. Registrations encompass both new and used cars, providing a comprehensive perspective on the vehicles actively traversing the nation's roads.

Breaking Down the Data

The breakdown of registrations by fuel type is insightful:

U.S Vehicle Market Share		
Fuel Type	Registrations (2022)	Share of total
Gasoline	275,728,300	98.0%
EV and PHEV	3,454,700	1.2%
Alternative Fuels	2,573,200	0.9%

This data not only underlines the continued dominance of gasoline-powered vehicles but also emphasizes the growing presence of alternative fuel options in the automotive landscape.

Regional Variances

Unveiling regional patterns in EV adoption, the top five states leading the charge are California (3.5%), the District of Columbia (2.9%), Hawaii (2.4%), Washington (2.0%), and Oregon (1.9%). On the flip side, the bottom five states, including Louisiana, West Virginia, Wyoming, North Dakota, and Mississippi, exhibit lower levels of EV adoption, ranging from 0.1% to 0.2%.

Fuel Types and Categorization

It's noteworthy that the gasoline category comprises various fuel types, including diesel, E85 flex fuel, and traditional hybrid vehicles. In contrast, the alternative fuels category encompasses biodiesel, natural gas, propane, and hydrogen.

The Department of Energy's exclusion of vehicles with an "unknown fuel type" ensures a clearer representation of the landscape.

EV Market Share on the Rise

Despite the seemingly modest figures in 2022, the U.S. is experiencing a gradual but significant shift toward electric mobility. Comparatively slower than the EU and China, EV adoption in the U.S. is gaining momentum, fueled by the introduction of electric SUVs and trucks.

A Glance at Recent Trends

In Q2 2023, U.S. EV sales set a new record, with 300,000 units sold—a remarkable 48% increase from the same period in 2022. The entire year of 2022 witnessed the sale of 800,000 EVs, along with 190,000 plug-in hybrid electric vehicles (PHEVs). These numbers underscore a growing acceptance of electric vehicles among American consumers, setting the stage for a transformative shift in the automotive landscape.

While the EV market share in the U.S. may currently be a fraction of the total registrations, the upward trajectory in sales and evolving consumer preferences signal a promising future for electric mobility. As automakers continue to innovate and introduce a diverse array of electric vehicles, the U.S. stands on the cusp of a transportation revolution, where electric vehicles may soon redefine the contours of the American roadscape.