

Electric Vehicle Data Analysis

Comprehensive insights into EV market trends, adoption patterns, and business opportunities

by Anuj Mishra



EV Market Overview

150413	67.83	10700	2023
Total EVs on Road	Average Range (miles)	Average Annual Growth	Peak Growth Year

<h3>Market Expansion</h3> <p>Electric vehicle adoption has accelerated significantly post-2017, with exponential growth patterns emerging across major markets.</p> <ul style="list-style-type: none">37.1K vehicles registered in 2023 aloneConsistent year-over-year growth trajectoryStrong market momentum continuing	<h3>Sustainable Impact</h3> <p>EVs contribute to reduced emissions and cleaner transportation infrastructure development nationwide.</p> <ul style="list-style-type: none">Average range sufficient for daily commutingGrowing charging infrastructure supportEnvironmental benefits driving adoption	<h3>Geographic Spread</h3> <p>West coast leads adoption with Washington state showing highest EV concentration per capita.</p> <ul style="list-style-type: none">Regional variations in adoption ratesUrban areas showing higher penetrationInfrastructure development correlation
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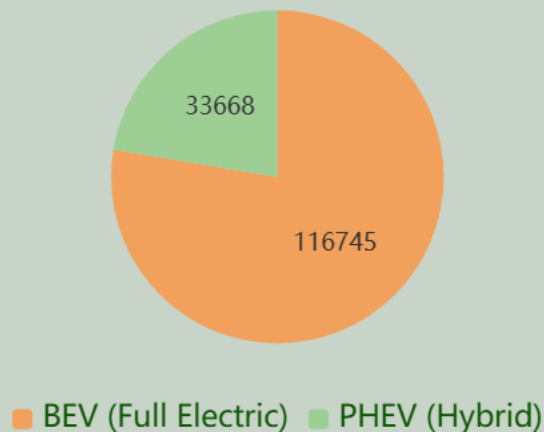
BEV vs PHEV Market Split

Full Electric Dominance

Battery Electric Vehicles (BEVs) significantly outperform Plug-in Hybrid Electric Vehicles (PHEVs) in market adoption, indicating strong consumer preference for fully electric solutions.

77.62% preference for BEVs demonstrates market readiness for complete electrification transition.

EV Type Distribution



Growth Trends by Year

Exponential Growth Pattern

Electric vehicle adoption shows dramatic acceleration post-2017, with 2023 emerging as the breakthrough year for mass market acceptance.

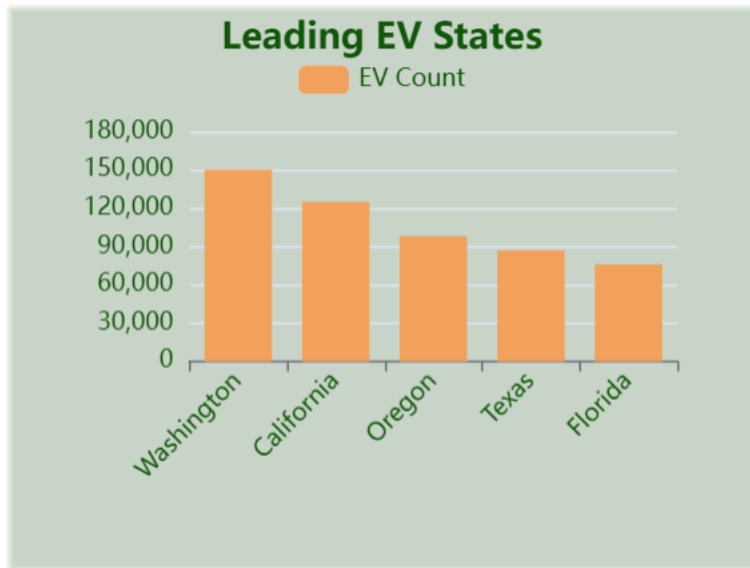
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Peak Year 2023

Annual EV Registration Trends



Top States for EV Adoption



Washington Leads

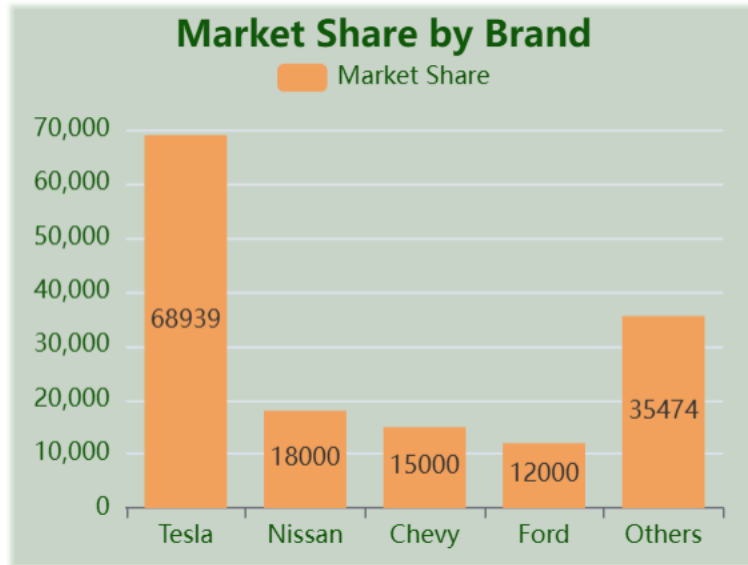
Washington state dominates with 150,082 EVs, demonstrating strong policy support and infrastructure development.



West Coast Dominance

Western states show higher adoption rates, correlating with environmental awareness and supportive regulations.

Brand Leadership Analysis



Tesla's Market Dominance

Tesla commands over 52% market share, establishing itself as the undisputed leader in electric vehicle manufacturing and innovation.

- **Tesla:** 52.70% market share
- **Nissan:** Second place with significant gap
- **Traditional automakers:** playing catch-up
- **Strong brand loyalty and innovation leadership**

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Most Popular EV Models

Model Y and Model 3 lead the market, demonstrating Tesla's successful product strategy and consumer appeal across different segments.

Model	Units Sold	Market Share	Brand	Segment
Model Y	28,501	18.9%	Tesla	Compact SUV
Model 3	27,708	18.4%	Tesla	Sedan
Nissan Leaf	12,456	8.3%	Nissan	Hatchback
Chevy Bolt	9,876	6.6%	Chevy	Compact
Ford Mustang Mach-E	8,234	5.5%	Ford	SUV

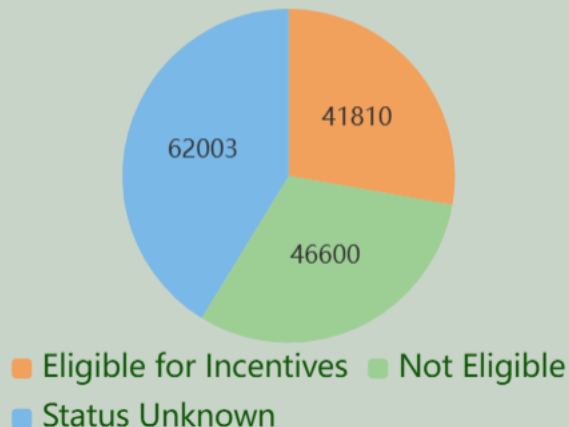
Clean Fuel Vehicle Benefits

CAFV Eligibility Impact

41.81% of vehicles qualify for clean fuel incentives, providing significant cost savings and environmental benefits to consumers.

Incentive programs drive adoption by reducing total cost of ownership and supporting sustainable transportation choices.

CAFV Eligibility Status



EV Market Strategic Insights

Market Strengths

Strong consumer preference for BEVs, Tesla's brand dominance, growing infrastructure, and supportive policy environment drive market growth.

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Market Threats

Economic downturns, battery material shortages, regulatory changes, and competition from traditional automakers pose potential risks.

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Current Challenges

High initial costs, range anxiety, charging infrastructure gaps in rural areas, and supply chain dependencies create adoption barriers.

Growth Opportunities

Expanding model variety, improving battery technology, government incentives, and corporate fleet electrification present significant opportunities.

Thank You for Your Attention

Questions and discussion welcome – together we drive the future of sustainable transportation

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