DASHBOARD ANALYSIS AND VISUALIZATION

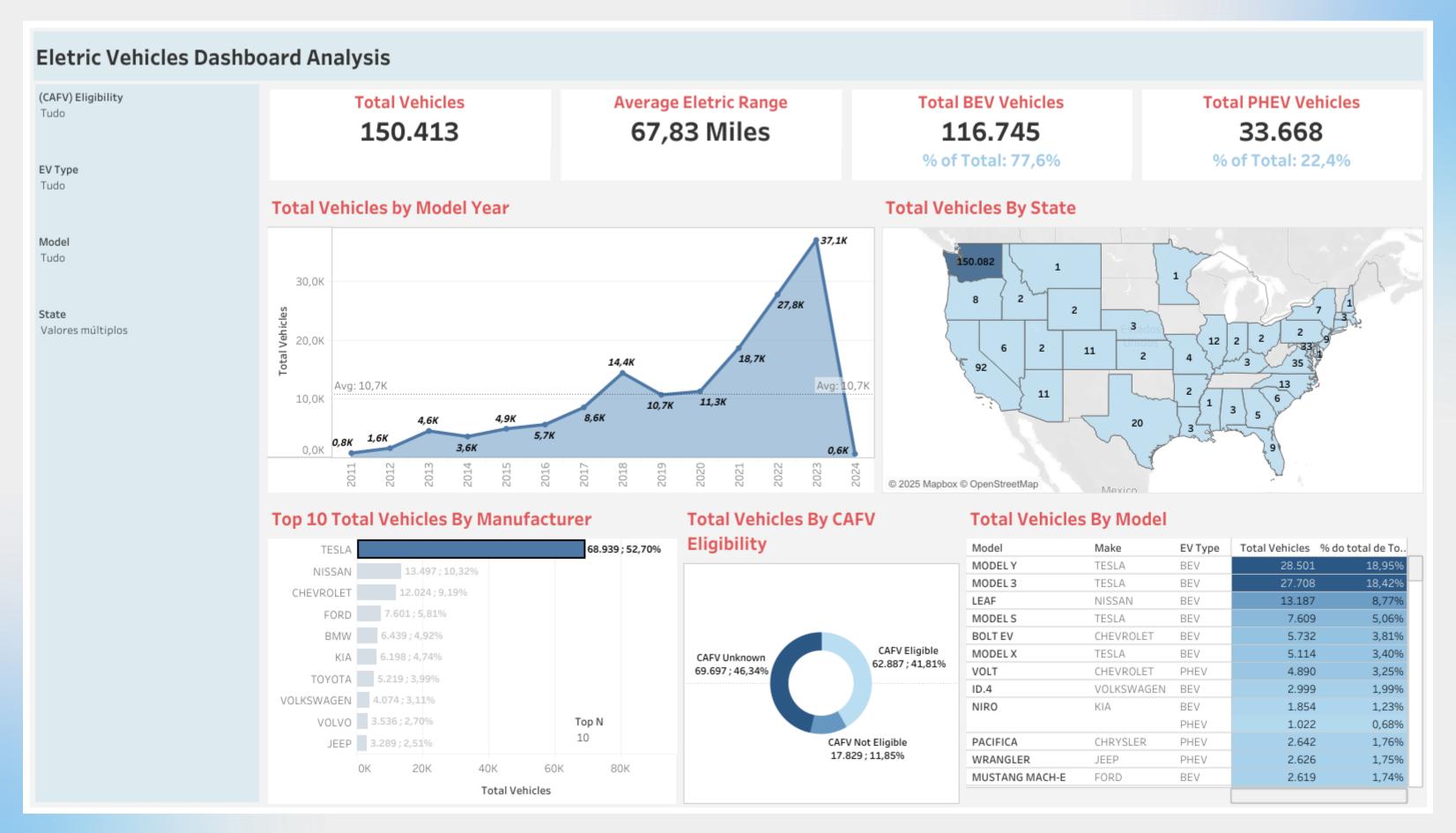
LINK TO PUBLIC TABLEAU:

https://public.tableau.com/views/EletricVehiclePopulationCaseStudy2024/Dashboard1?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

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DASHBOARD VISUALIZATION



LINK TO PUBLIC TABLEAU:

DASHBOARD ANALYSIS

This dashboard analysis covers over 150,000 electric vehicles in the U.S., revealing key patterns in EV adoption. Battery Electric Vehicles (BEVs) dominate the market, with Tesla leading in both volume and popularity. California accounts for nearly all registrations in the dataset, while policy incentives (CAFV eligibility) play a significant role in driving uptake.

Metric	Insight
Total EVs Analyzed	150,413 vehicles
BEV Share	77.6% – strong shift away from hybrids
Top Manufacturer	Tesla – over 50% market share
Top State	California – highly concentrated EV registrations
Average Electric Range	67.83 miles – reflects mix of old and new tech
CAFV Eligibility	41.8% eligible – incentives appear to drive adoption

TRENDS & INSIGHTS

Market Maturity

The sharp rise in recent years signals rapid market adoption and maturity, likely driven by improving infrastructure and declining costs.

- Tesla's Dominance
 - Tesla holds over half the market and four of the top six most popular models.
 - Its dominance makes it a key driver of U.S. EV trends.
- BEVs vs. PHEVs

Market shows a clear **pivot toward BEVs**, which now make up over three-quarters of all EVs.

- Policy Influence
 - Nearly 42% of vehicles are CAFV-eligible, though lack of data (~46%) limits full analysis.
 - Where eligibility is known, incentives appear to have a strong correlation with adoption.
- Geographic Concentration

California is the epicenter of EV adoption, signaling potential for expansion across other states if conditions improve (infrastructure, incentives).

RECOMMENDATIONS FOR STAKEHOLDERS

For Manufacturers:

- Expand BEV offerings, especially in SUV and affordable sedan categories.
- Benchmark Tesla to understand consumer priorities: range, performance, and tech integration.

For Policymakers:

- Expand CAFV incentives nationwide and standardize eligibility tracking.
- Use California as a model for infrastructure and adoption policies.

For Investors:

Strong market signals for BEVs: would be wise invest in **battery tech**, **charging infrastructure**, and **next-gen EV platforms**.

For Researchers:

- Investigate gaps in states outside California to identify barriers to adoption.
- Further analyze EV performance by model year to track technological progress.

THANK YOU!

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