Electric Vehicle Dashboard

"Electric vehicles aren't just cars; they're the key to a greener planet."

INTRODUCTION

This dashboard provides a detailed analysis of electric vehicle (EV) adoption trends based on a dataset from Kaggle with over 191,000 rows. Key columns include **County, City, State** for geographic trends, **Model Year, Make, Model** for identifying popular EVs, **Electric Vehicle Type (EVT)** to differentiate between BEVs and PHEVs, **CAFV Eligibility** to assess clean energy incentive impact, and **Electric Range** for analyzing battery performance. The goal is to uncover insights into EV growth, regional adoption patterns, and technological advancements, providing valuable information for stakeholders.

KPI CARD

TESLA
Leading EV Make

55.7
Avg Electric Range

191.4K
Total EVs

147
Unique Model

RECOMMENDATION

The analysis of the EV dataset, comprising **191.4K vehicles and 147 unique models**, highlights key adoption trends. **BEVs dominate with 149.69K** units, far surpassing **PHEVs at 41.72K**. **King County leads adoption with 99K EVs**, followed by Snohomish (23K) and Pierce (15K). Tesla stands out as the top make, with models like the **Model 3 (31K) and Model Y (40K)** driving its success. The average **EV range is 55.7 miles**, reflecting progress in battery technology.

Focus on promoting **Battery Electric Vehicles (BEVs)**, given their higher range and significant market share of **149.69K vehicles**.
Increase awareness about **CAFV eligibility**, targeting areas with high unknown statuses such as **King County (55K unknown)**.
Strengthen charging infrastructure in top counties like **King (99K EVs)**, **Snohomish (23K)**, and **Pierce (15K)** to support growing adoption.
Partner with leading EV manufacturers like **Tesla**, **Nissan**, and **Chevrolet** to drive innovation and expand outreach.
Encourage advancements in **electric range technology**, exceeding the current average of **55.7 miles**, to make EVs more appealing to a broader audience.
Develop targeted incentives for long-range and **CAFV-eligible EVs**, reducing barriers to adoption and ensuring sustainability goals are met.

Electric Vehicle Dashboard

FILTER PANEL

EVT
All

CAFV
All

KPI CARD

191.4K
Total EVs

0.1K
Unique Model

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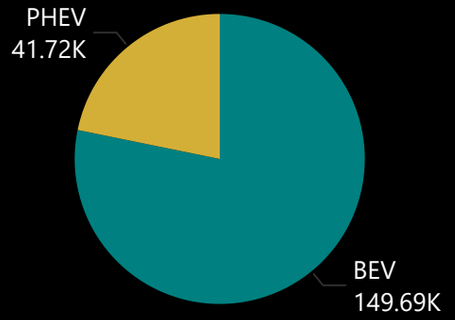
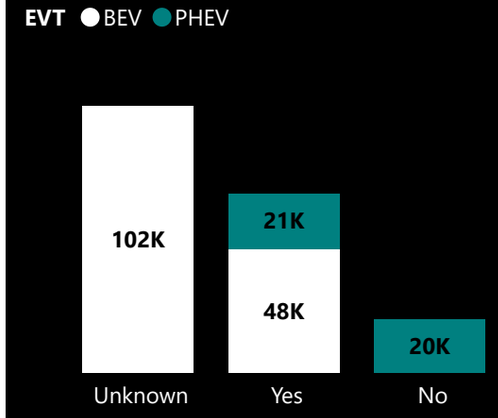
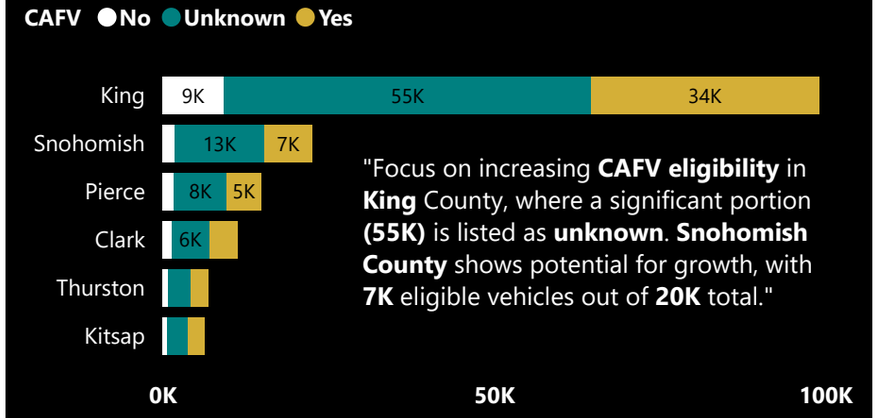
Model Count by EV Type



CAFV Eligibility by EV Type



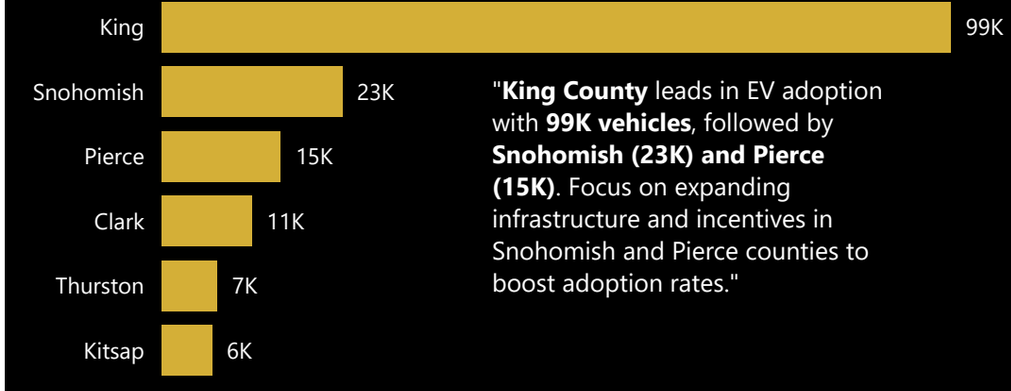
Model Distribution by County and CAFV Status



"Focus on increasing **CAFV eligibility** in **King** County, where a significant portion **(55K)** is listed as **unknown**. **Snohomish County** shows potential for growth, with **7K** eligible vehicles out of **20K** total."

Electric Vehicle Models by City

EV Model Distribution by County



"**King County** leads in EV adoption with **99K vehicles**, followed by **Snohomish (23K) and Pierce (15K)**. Focus on expanding infrastructure and incentives in Snohomish and Pierce counties to boost adoption rates."

Electric Vehicle Dashboard

FILTER PANEL

Model Year
All

Make
All

KPI CARD

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Avg Electric Range

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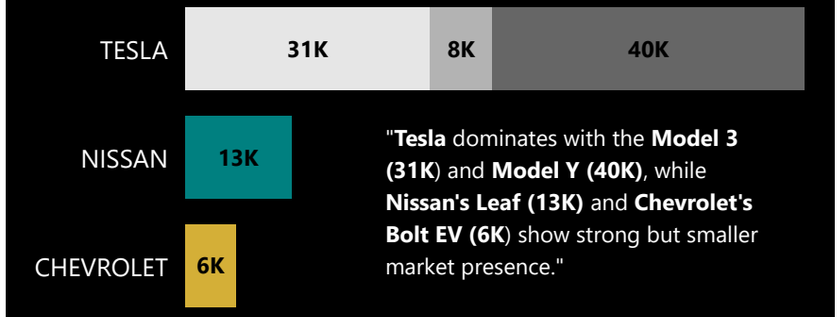
EV Make and Model Distribution

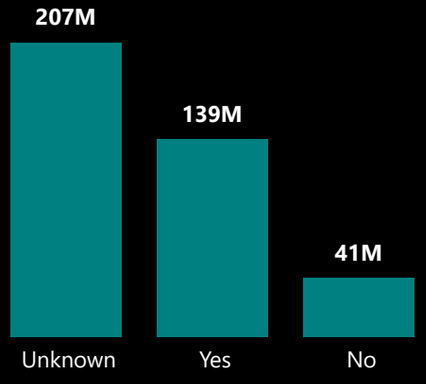
Model ● BOLT EV ● LEAF ● MODEL 3 ● MODEL S ● MODEL Y



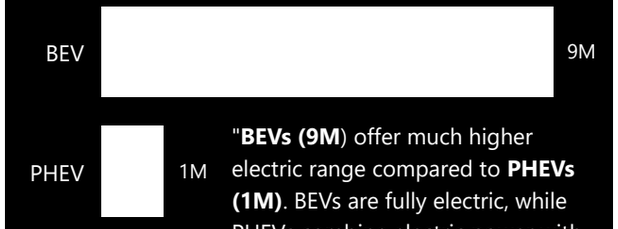
"**Tesla** dominates with the **Model 3 (31K)** and **Model Y (40K)**, while **Nissan's Leaf (13K)** and **Chevrolet's Bolt EV (6K)** show strong but smaller market presence."

Model Year	Model	Make	Electric Range	EVT	CAFV
2024	ZDX	ACURA	0	BEV	Unknown
2024	TONALE	ALFA ROMEO	1848	PHEV	Yes
2016	A3	AUDI	3328	PHEV	No
2017	A3	AUDI	2976	PHEV	No
2018	A3	AUDI	2656	PHEV	No
2019	E-TRON	AUDI	109548	BEV	Yes
2020	A8 E	AUDI	51	PHEV	No
2020	E-TRON SPORTBACK	AUDI	5232	BEV	Yes
2020	Q5 E	AUDI	4360	PHEV	No
2021	A7 E	AUDI	312	PHEV	No

Total Model Year by CAFV Eligibility

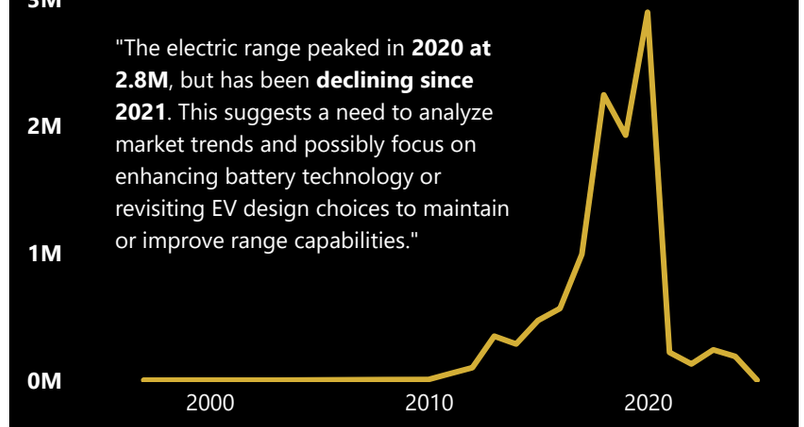


Electric Range by EV Type



"**BEVs (9M)** offer much higher electric range compared to **PHEVs (1M)**. BEVs are fully electric, while PHEVs combine electric power with a gasoline engine, limiting their electric-only range."

Electric Range Over Time



"The electric range peaked in **2020 at 2.8M**, but has been **declining since 2021**. This suggests a need to analyze market trends and possibly focus on enhancing battery technology or revisiting EV design choices to maintain or improve range capabilities."