

Washington State's Electric Vehicle Population Analysis

Author: Mason Ivey

This report analyzes Washington State's Electric Vehicle (EV) Registration data to identify key trends in various data types. Such as vehicle makes, model years, geographic distribution, EV registered amount. This dataset contains over 250,000 records, representing both Battery Electric Vehicles (BEV) and Plug-In Hybrid Electric Vehicles(PHEV)

Quick Data:

Total EV's registered in Washington State:
261,698

Top 5 Makes By Count:

- Tesla: 108777
- Chevrolet: 18908
- Nissan: 16224
- Ford: 13988
- Kia: 12849

Earliest Model Year:
2000

Newest Model Year:
2026

Top 10 EV Registrations By County:

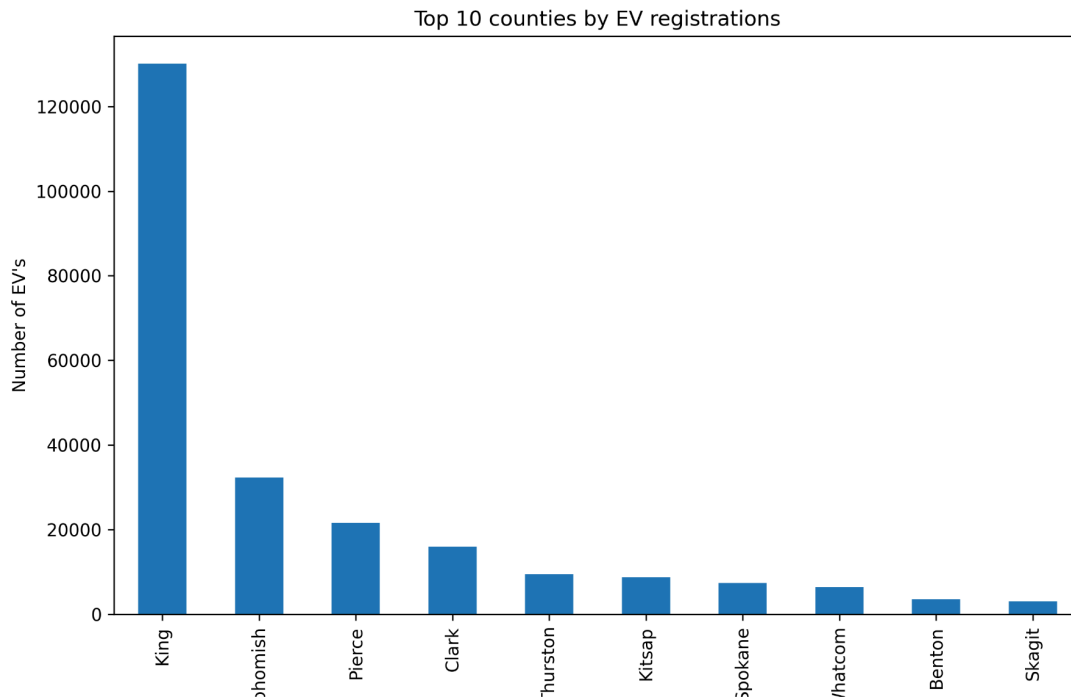
- King: 130129
- Snohomish: 32335
- Pierce: 21624
- Clark: 15925
- Thurston: 9506
- Kitsap: 8787
- Spokane: 7370
- Whatcom: 6406
- Benton: 3572
- Skagit: 3067

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Visual Data:

Top Counties by EV Registrations Bar Chart



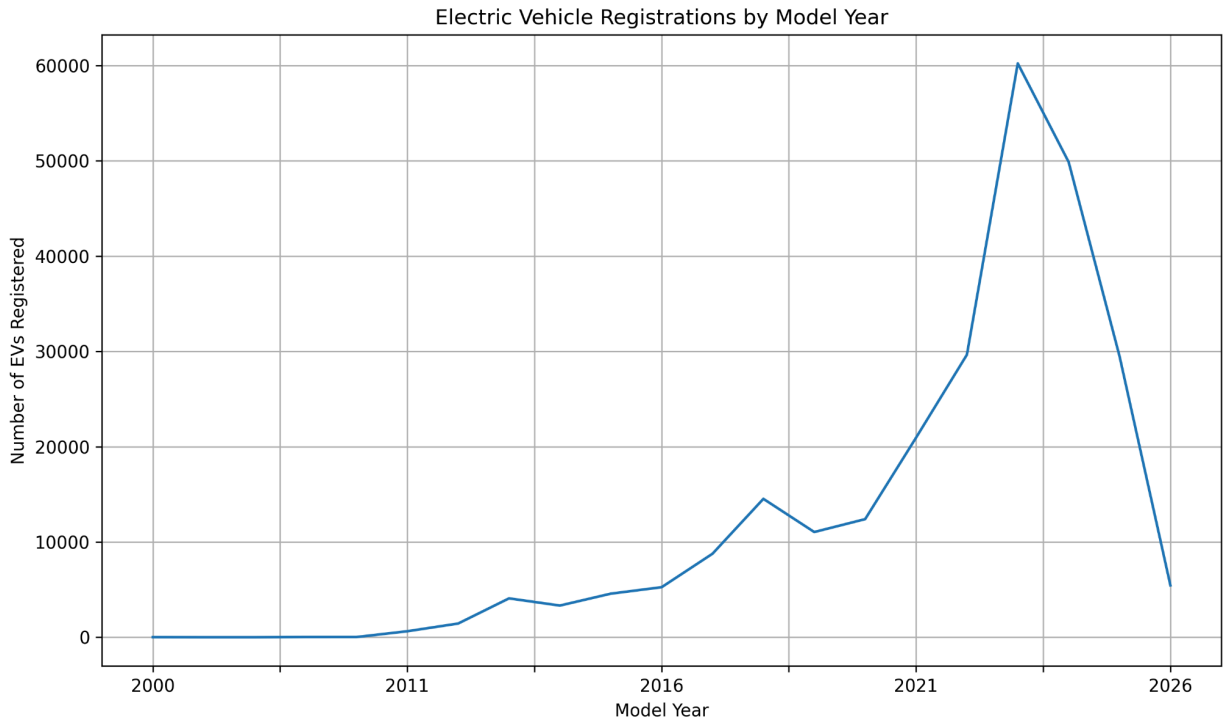
A rather linear scaling except for King, which has a significant number compared to the other top counties.

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Visual Data:

Electric Vehicle's Registrations By Model Year



A very noticeable spike around ~2024 with a decrease back down to the average of ~10,000 Model's per year

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Conclusion:

EV Registrations in Washington State have heavily increased past 2021 and have been settling back down. King county leads the registration count by a huge milestone, accounting for ~40% of all the registration data.

Data Source:

Washington Electric Vehicle Population Data:

<https://catalog.data.gov/dataset/electric-vehicle-population-data>

Tools Used:

Python (pandas, matplotlib), Google Docs