

ELECTRIC VEHICLE POPULATION REPORT

SINCE 1997 TO 2023

**Currently registered through the Washington State
Department of Licensing (DOL)**

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RESEARCH PROBLEM

Identify the overall landscape of Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) currently registered through the Washington State Department of Licensing (DOL).

OBJECTIVES

1. CAFV Eligibility and Trends:

What percentage of the registered vehicles are considered Clean Alternative Fuel Vehicle (CAFV) eligible?

Are there any noticeable trends or changes in CAFV eligibility among different vehicle types or over various model years?

2. Electric Range Distribution:

What is the distribution of electric ranges among BEVs and PHEVs in the dataset?

Are there specific clusters or ranges where most vehicles fall, and how do these ranges impact eligibility and adoption?

3. Geographical Insights:

How are these electric vehicles distributed geographically across counties and cities within Washington State?

4. Examine electric vehicle ownership patterns and trends, including vehicle make, model.

INSIGHTS

- 'MODEL Y' and 'MODEL 3' have noticeably more Total Vehicle .
- Total number of Battery Electric Vehicles (BEV) in the population is 77.62%.
- Total number of Plug-in Hybrid Electric Vehicles (PHEV) in the population is 22.38%.
- Clean Alternative Fuel Vehicle Eligible (CAFV) accounts for the majority of Electric Range .
- Distributions of electric vehicles over the years 'TESLA' accounts for the majority of Electric Range.
- Total Vehicle for County 'King' and Make 'TESLA' shows several trends with outliers.

REFERENCES

- **KAGGLE:** <https://www.kaggle.com/datasets/rajkumarpandey02/electric-vehicle-population-data>

DASHBOARD

