

# Electric Vehicles Status Report for Washington State

177,866	21	330 Miles
Registered Electric Vehicles	Electric Utility Companies	Longest Range



# Summary

**Rapid Growth:** 400% increase from 2017 in EV registrations, reaching 169, 504 EVs registrations by the end of 2023.

**Popular Car Make:** Tesla leads with 44.79% of the total EV population.

**Electric Range:** 50% of the vehicles have a range of 84 miles with a maximum of 330 miles and a minimum of 6miles.

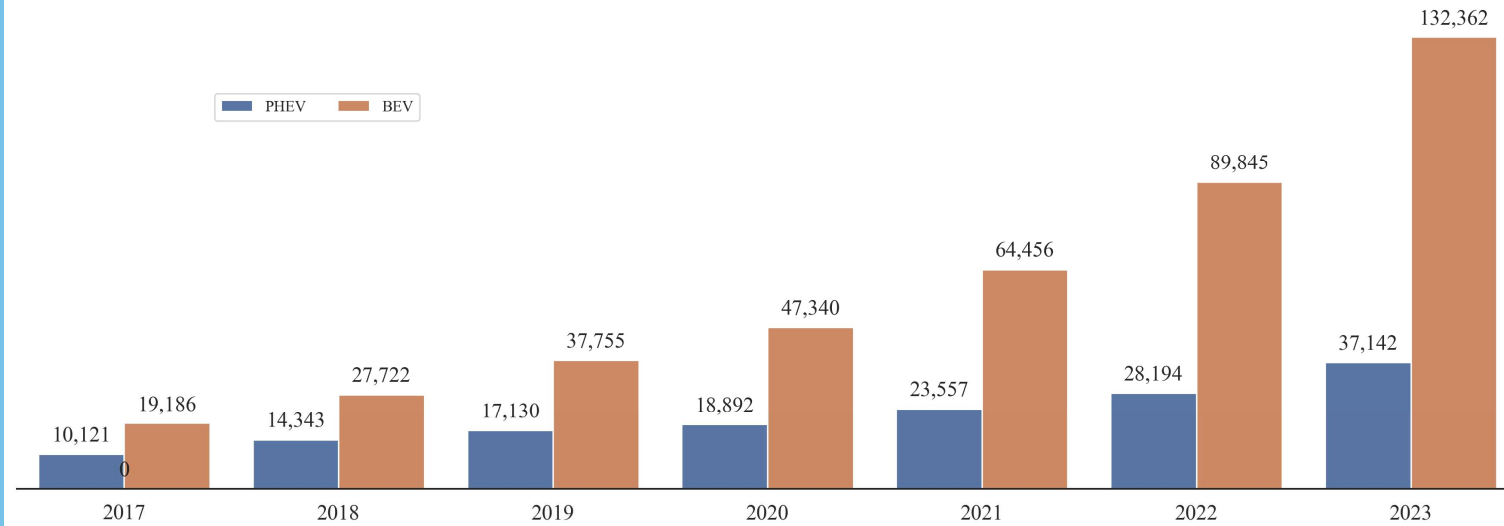
**Charging Infrastructure:** There are a total of 21 electric utility companies. Puget Sound Energy Inc being the most popular.

**Environmental Impact:** Only 37.29% of the EVs are eligible as Clean Alternative Fuel Vehicles with 51.7% being categorized as unknown since the battery range has not been researched.

**Keywords:** PHEV – Plug-In Hybrid Electric Vehicles  
BEV – Battery Electric Vehicles

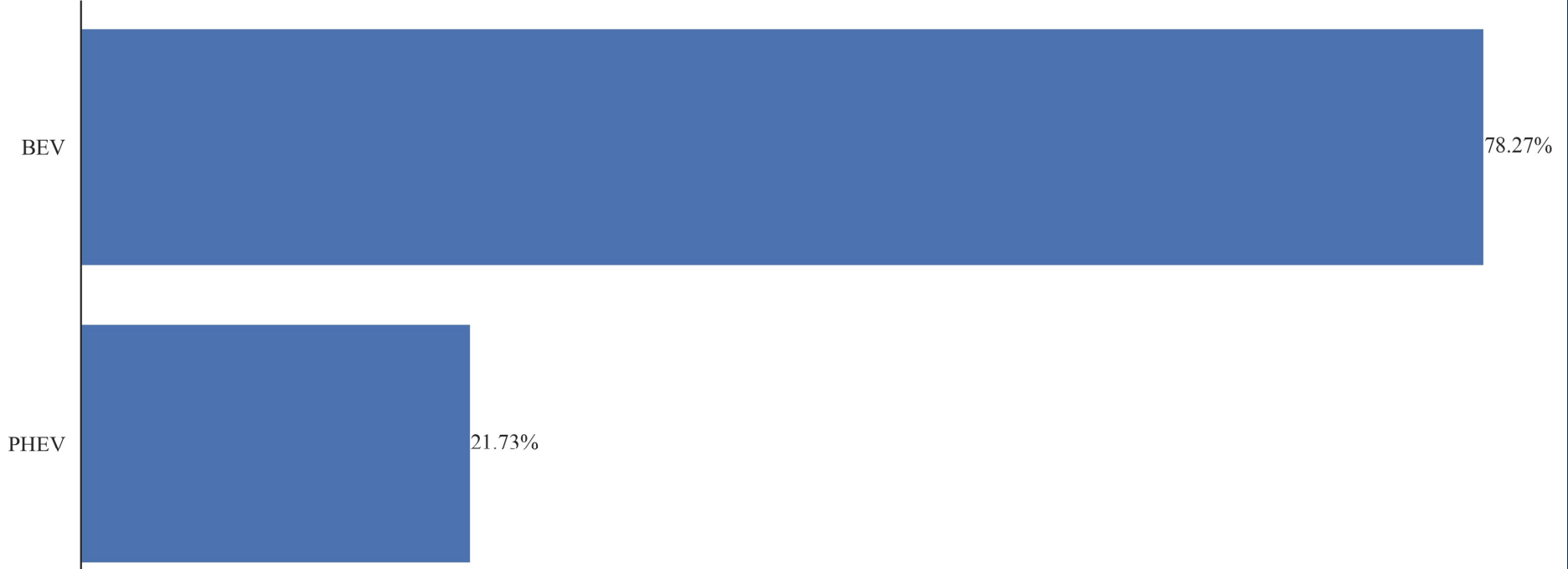
# Tracking the growth and the current Number of EVs

**Between 2017 and 2023, the population of electric vehicles in Washington has surged by over 350%,  
predominantly driven by the adoption of Battery Electric Vehicles**




# EV Growth trend

**BEV leads by 78.27% of the total number of EVs**

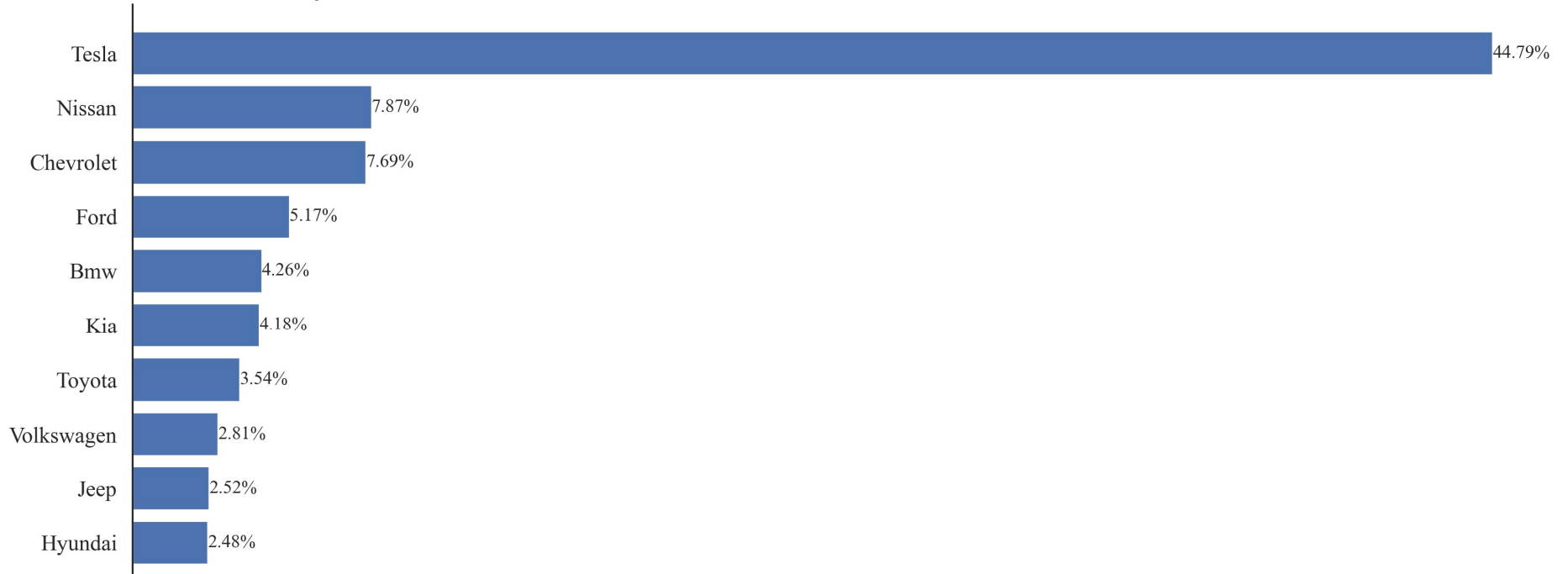


As of February 2024, total number of registered EVs reached 177,866.

# Most Popular EV Make

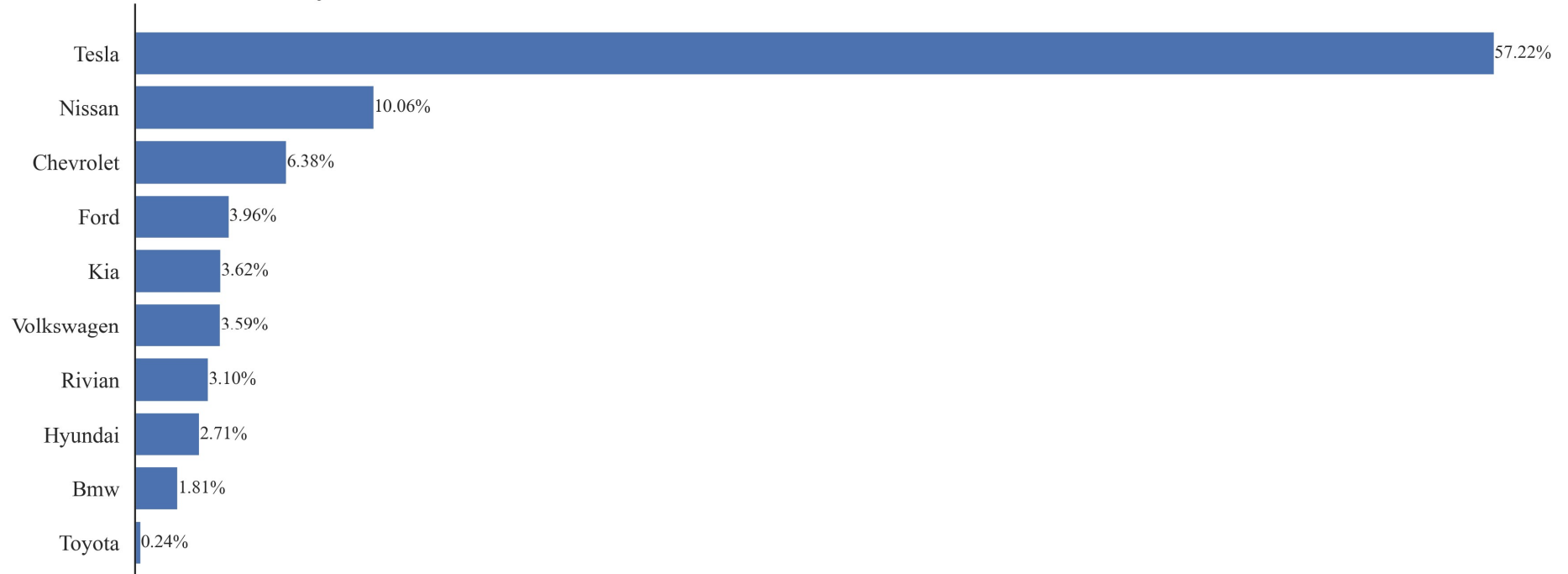
The background of the slide is a blue-tinted photograph of a police car's emergency light bar. The light bar is mounted on the roof of the car, and the lights are visible. The image is slightly blurred, giving it a soft, atmospheric feel. The text 'Most Popular EV Make' is overlaid on the left side of the image in a large, bold, black serif font.

**Tesla leads by 44.79% of the total number of EVs**



# Top 10 EV makes

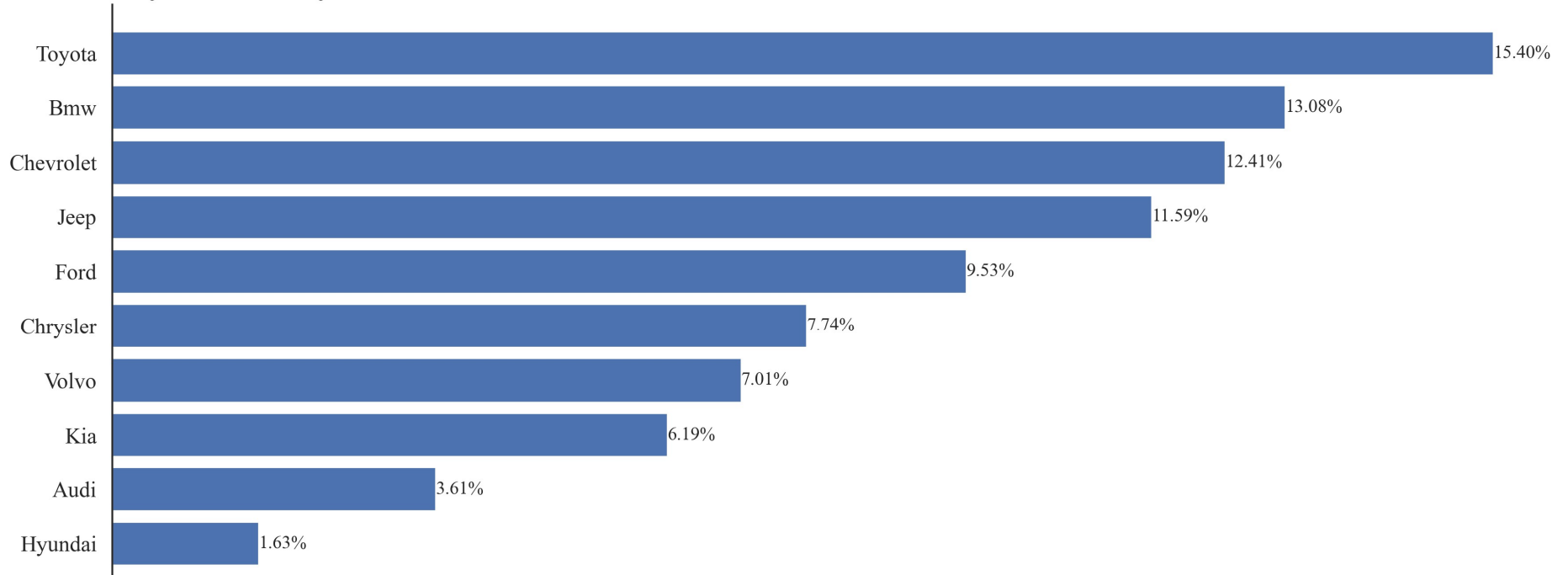
**Tesla leads by 57.22% of the total BEVs**



# Top 10 BEV makes



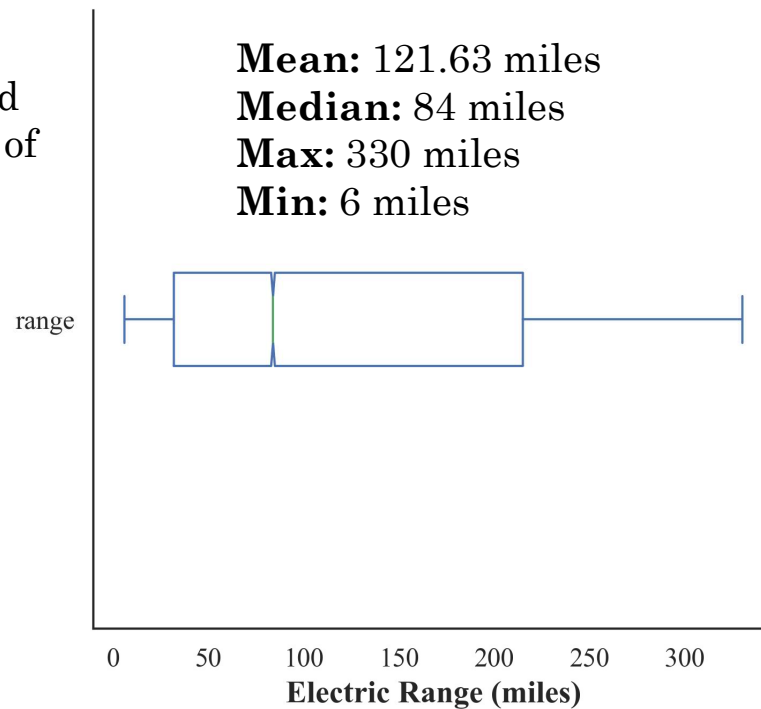
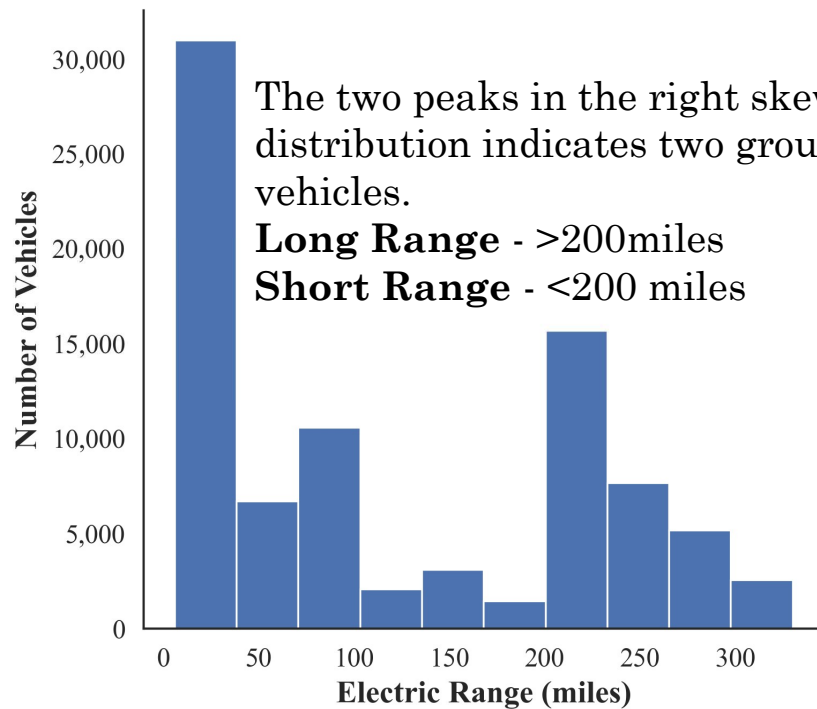
**Toyota leads by 15.40% of the total PHEVs**



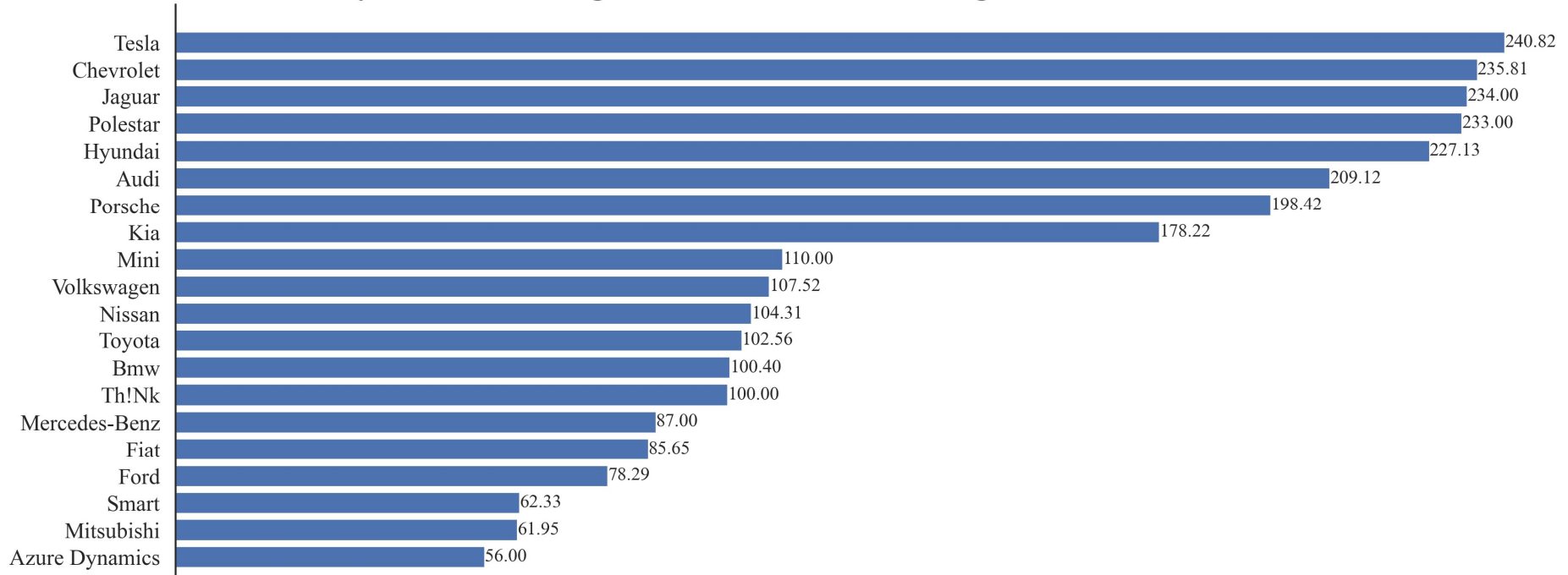
# Top 10 PHEV makes

# Electric Range of EVs

## EV Electric Range Distribution of Individual Cars

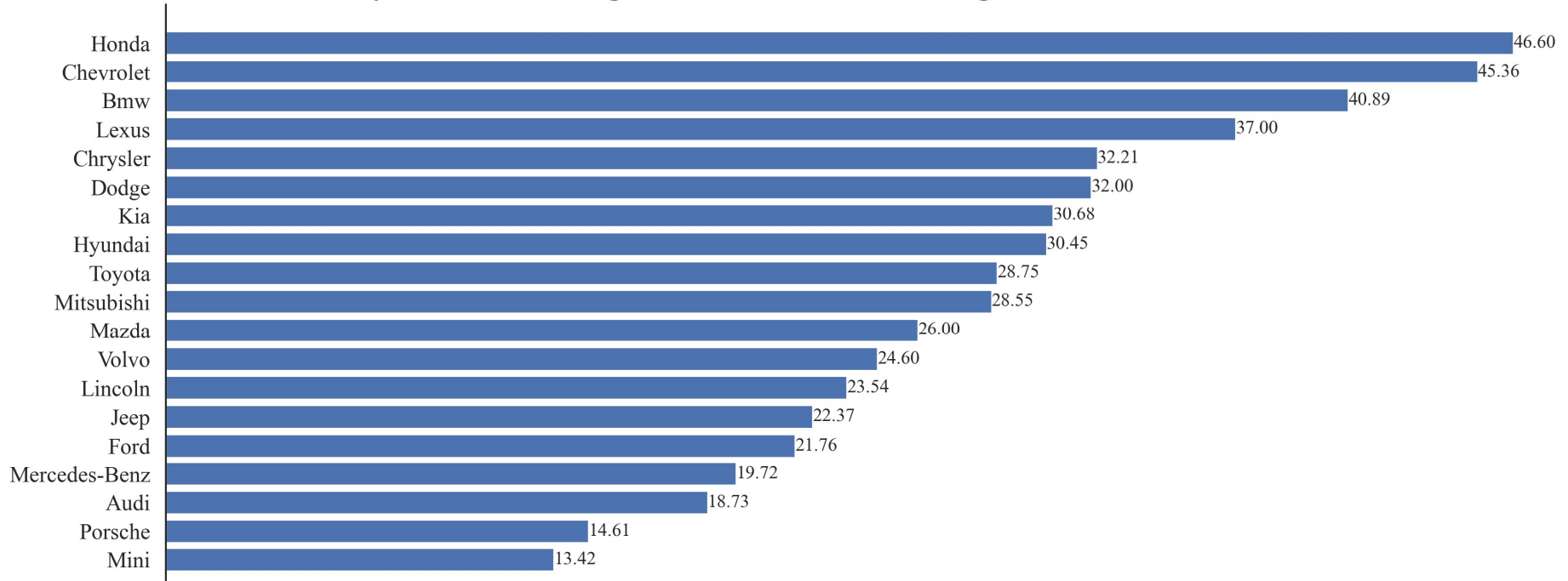


**Tesla leads by an electric range of 240.82 miles on average for BEVs**



# Average Electric Range per Make for BEV category

**Honda leads by an electric range of 46.60 miles on average for PHEVs**



**Average Electric Range per Make  
for PHEV category**

# Environmental Impact

**Only 37.29% of the EVs are eligible as a CAFV**

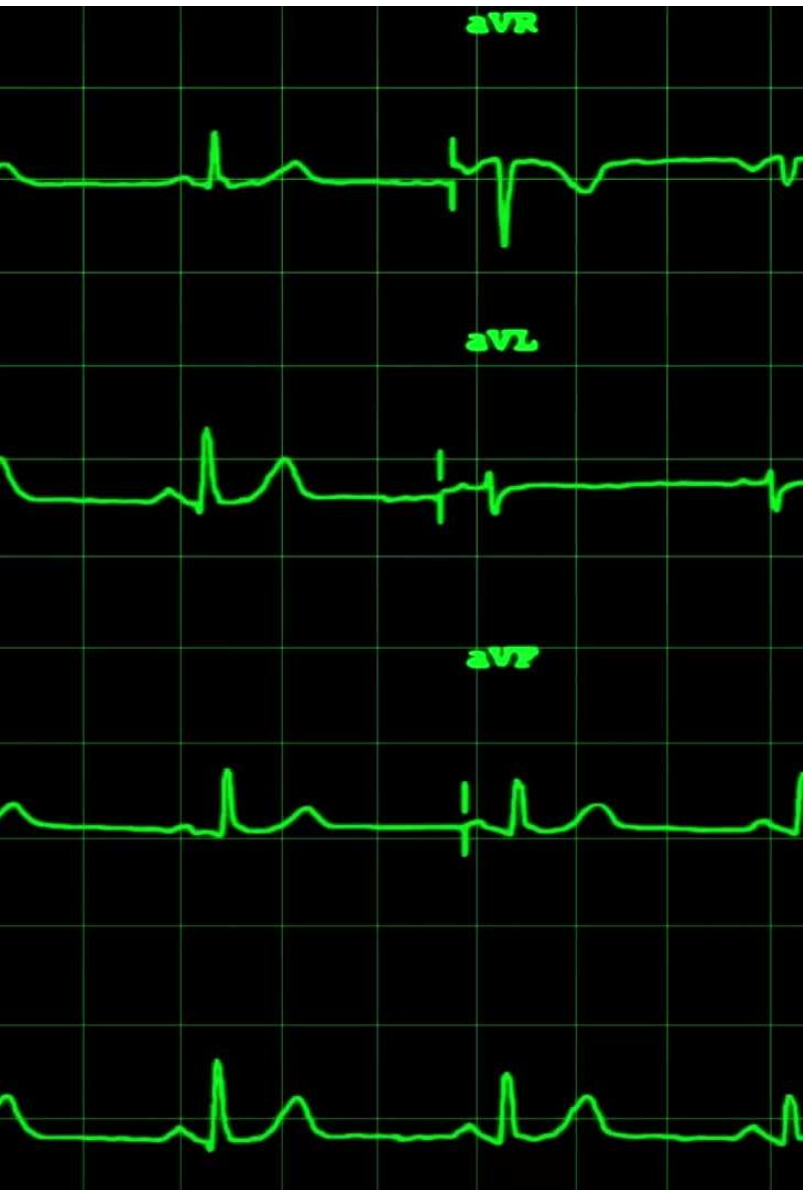
**with 51.7% being categorized as unknown as battery range has not been researched**



# Clean Alternative Fuel Vehicle (CAFV) Eligibility

# Recommendations





- Maintain and adapt support for EVs to encourage long term sustainable growth as electric mobility matures this include expanding charging infrastructure.
- PHEVs manufacturers should improve on the electric range of their battery.
- Implement policies to reduce the number of combustion engines and fasten the research of the battery range to ensure a higher number of EVs being categorized as Clean Alternative Fuel Vehicle.

**Data Analyst:** Noah Oyugi

**Data Source:** Electric Vehicle Population Data

**Data Tools:** Pandas, NumPy, SciPy, SQL,  
Matplotlib, Seaborn