# ECU CRIVE MOTORS

**ECO**DRIVE

By M ROMI CHANU

# INTRODUCTION Ecodrive Motors is a pioneering force in electric vehicle(EV) industry, committed to delivering innovative and sustainable transportation solutions. Established over a decade ago ,Ecodrive Motors has become synonymous with cutting edge Technology, exceptional performance and environmental stewardship. The company's diverse portfolio off EVs caters to

a wide range of consumers from urban commuters to Eco conscious families.



# FRIBLEM STATEMENT

TAXI

**TAXI** 

despite its successes the company faces a significant challenge: understanding the dynamic patterns and trends in EV adoption across different regions

The company's executives recognized the need to comprehensively analyze available EV population data to uncover actionable insights.

# GDAL KPIS

Analyzing EV population data to better understand the market, target the right customers, and ultimately achieve the mission of leading the transition to a cleaner future.

1.EV ADDPTION RATE:

2.EV REGISTRATION GROWTH RATE:

**3.AVERAGE ELECTRIC RANGE:** 

4.CHARGING INFRASTRUCTURE DENSITY:

**5.INCENTIVE UTILIZATION RATE:** 

**6.EV MODEL MARKET SHARE:** 

7.AVERAGE BASE MSRP:



## RECOMMENDED ANALYSIS





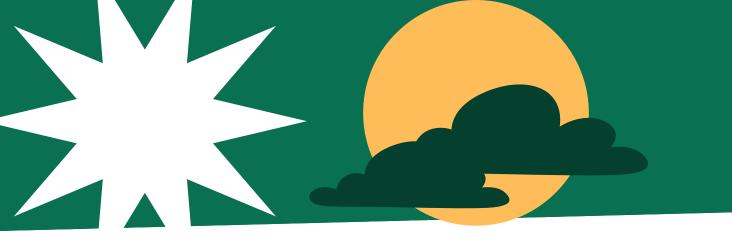
\*

Q1. What is the total number of electric vehicles registered in each county?

o Analysis: EV registrations vary significantly across countie. Counties with higher registrations may have more supportive environments for EV adoption.

Q2. What is the average electric range of vehicles by type (BEV vs PHEV)?

Analysis: BEVs have a higher average range than PHEVs, indicating their suitability for longer trips. BEV has an average of 60 while PHEV have an average of 30



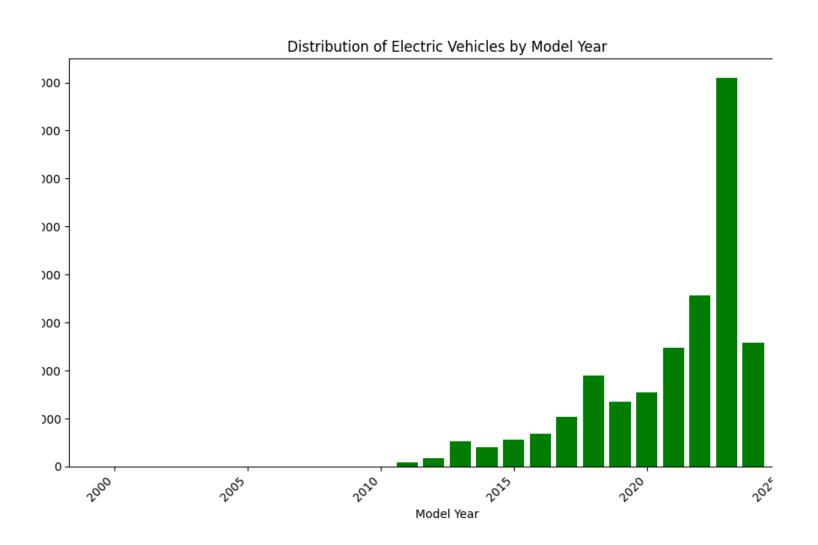
Q3. Which are the top 5 most popular electric vehicle models in the dataset?
Analysis: MODEL Y, MODEL 3, LEAF, MODEL X, MODEL S are the top 5 most popular model.

Q4. How many vehicles are eligible for clean alternative fuel vehicle incentives?

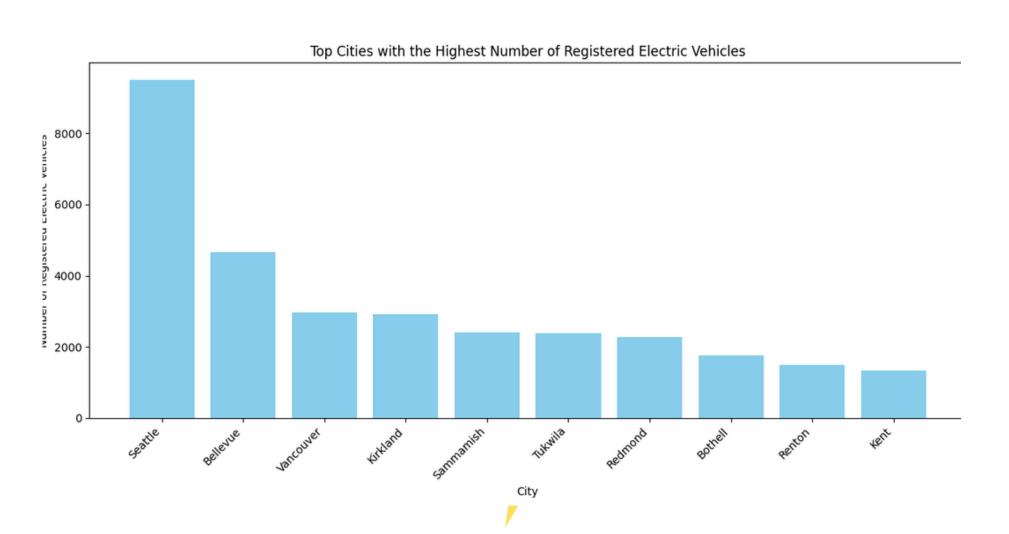
o Analysis: A significant number of 17615 EVs are eligible for incentives, suggesting that government programs play a role in encouraging EV adoption



# Q5. What is the distribution of electric vehicles by model year?

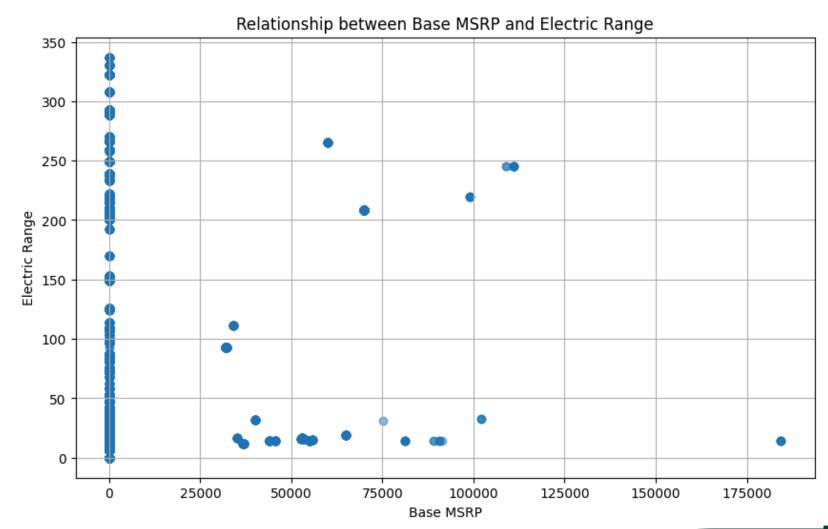


Q6. Which cities have the highest number of registered electric vehicles? o Analysis: Urban areas with supportive policies and infrastructure see higher adoption.

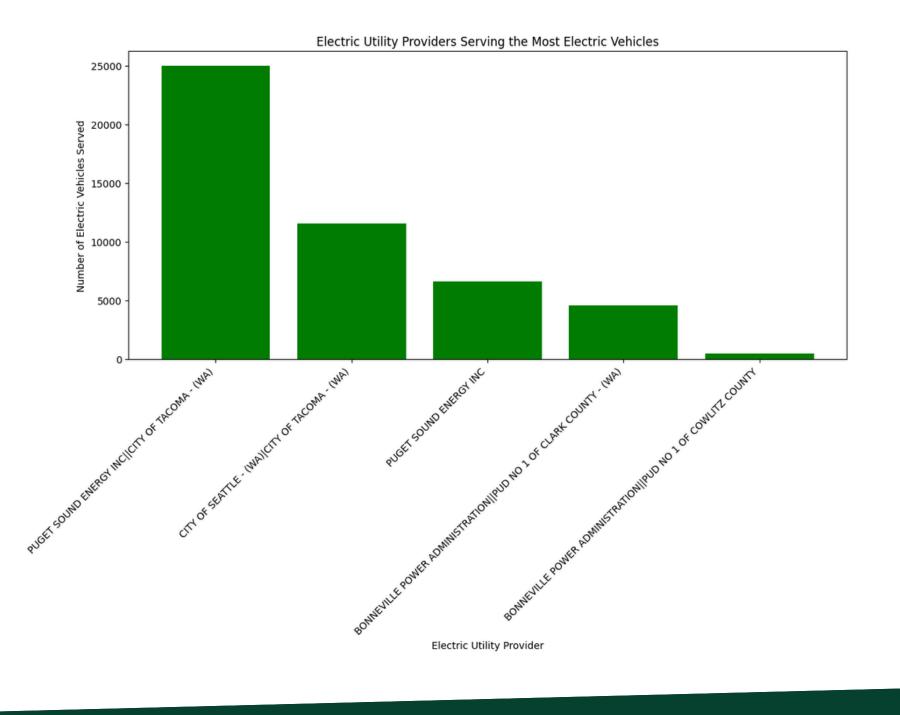


Q7. What is the relationship between base MSRP and electric range?

o Analysis: : Higher-priced EVs generally offer longer ranges, suggesting that consumers often need to pay a premium for extended driving distances.



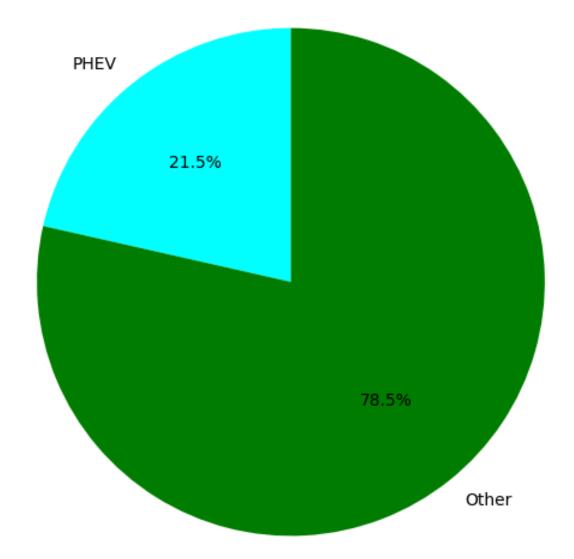
### Q8. Which electric utility providers serve the most electric vehicles?





### Q9. What percentage of vehicles are plug-in hybrid electric vehicles (PHEVs)?

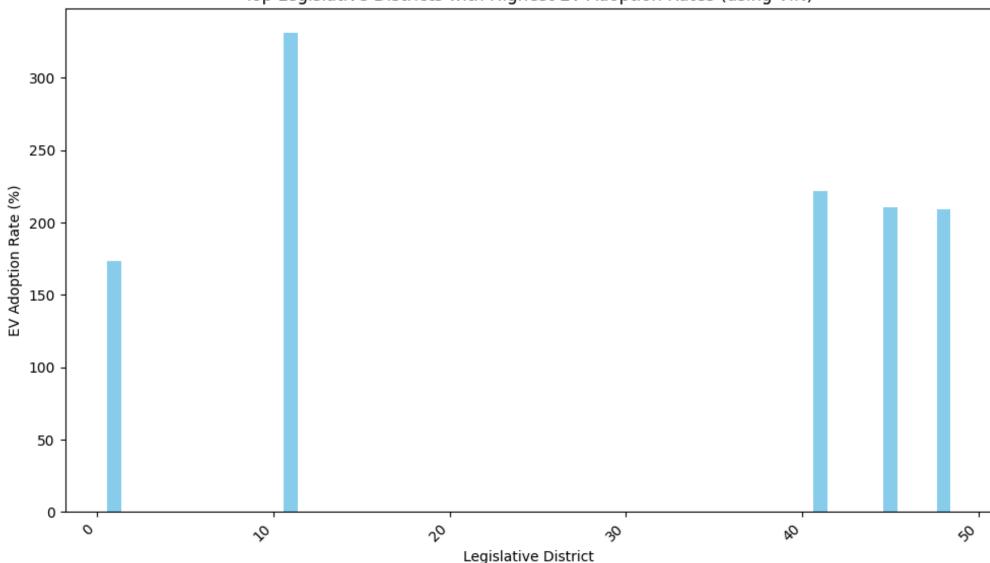
Percentage of Plug-in Hybrid Electric Vehicles (PHEVs)



Q10. Which legislative districts have the highest EV adoption rates? Analysis:

- Legislative District 48: 208.9%
- Legislative District 45: 210.5 %
- Legislative District 41: 221.8 %
- Legislative District 11: 331 %
- Legislative District 1: 173%

Top Legislative Districts with Highest EV Adoption Rates (using VIN)





Q11. WHAT IS THE TREND OF ELECTRIC VEHICLE REGISTRATION OVER THE PAST 5 YEARS??

ANALYSIS
IT SUGGESTS A DECLINING
TREND IN EV REGISTRATIONS.
THIS COULD BE DUE TO
VARIOUS FACTORS LIKE
CHANGES IN GOVERNMENT
INCENTIVES, MARKET
SATURATION, OR SHIFTS IN
CONSUMER PREFERENCES.

