

# PROBLEM STATEMENT

## KPI'S Requirement

### 1. Total Vehicles:

- Understand the overall landscape of electric vehicles, encompassing both BEVs and PHEVs, to assess the market's size and growth.

### 2. Average Electric Range:

- Determine the average electric range of the electric vehicles in the dataset to gauge the technological advancements and efficiency of the EVs.

### 3. Total BEV Vehicles and % of Total BEV Vehicles:

- Identify and analyze the total number of Battery Electric Vehicles (BEVs) in the dataset.
- Calculate the percentage of BEVs relative to the total number of electric vehicles, providing insights into the dominance of fully electric models.

### 4. Total PHEV Vehicles and % of Total PHEV Vehicles:

- Identify and analyze the total number of Plug-in Hybrid Electric Vehicles (PHEVs) in the dataset.
- Calculate the percentage of PHEVs relative to the total number of electric vehicles, offering insights into the market share of plug-in hybrid models.



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## Charts Requirement

### 1. Total Vehicles by Model Year (From 2010 Onwards):

1. Visualization: Line/ Area Chart
2. Description: This chart will illustrate the distribution of electric vehicles over the years, starting from 2010, providing insights into the growth pattern and adoption trends.

### 2. Total Vehicles by State:

3. Visualization: Map Chart
4. Description: This chart will showcase the geographical distribution of electric vehicles across different states, allowing for the identification of regions with higher adoption rates.

### 3. Top 10 Total Vehicles by Make:

5. Visualization: Bar Chart
6. Description: Highlight the top 10 electric vehicle manufacturers based on the total number of vehicles, providing insights into the market dominance of specific brands.

### 4. Total Vehicles by CAFV Eligibility:

7. Visualization: Pie Chart or Donut Chart
8. Description: Illustrate the proportion of electric vehicles that are eligible for Clean Alternative Fuel Vehicle (CAFV) incentives, aiding in understanding the impact of incentives on vehicle adoption.

### 5. Top 10 Total Vehicles by Model:

9. Visualization: Tree map
10. Description: Highlight the top 10 electric vehicle models based on the total number of vehicles, offering insights into consumer preferences and popular models in the market.



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## FILTER PANEL

City

All

Electric Utility

All

Electric Vehicle Type

All

Total Vehicles  
**150.42K**

Total Vehicles by Model Year  
40K

Total Vehicles by State

Avg Electric Range  
**67.83Km**

BEV Vehicles  
**117K**  
% of Total  
**78%**

PHEV Vehicles  
**34K**  
% of Total  
**22%**

TESLA	69K
NISSAN	13K
CHEVROLET	12K
FORD	8K
BMW	6K
KIA	6K
TOYOTA	5K
VOLKSWAGEN	4K
VOLVO	4K
JEEP	3K



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# SOFTWARES USED

1. MS OFFICE/ EXCEL: VERSION 2021

2. POWER BI: Dec 2023 Version

