Electric Vehicles Dataset

About this Dataset:

BEV sales during Q2 2023 grew over 50% YoY. One in every 10 cars sold during Q2 2023 was a pure battery electric vehicle (BEV). China remained the leader in global BEV sales followed by USA and Germany. BEV sales in the USA grew by almost 57% YoY, the highest among the top 3 EV markets. Sourced by Kaggle.

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## **Data Dictionary:**

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Description | Expected Type | Example |
| VIN (1-10) | The vehicle identification number for each vehicle is in the data set. Unique identifier | VARCHAR | 2C4RC1N77H |
| County | Specific region of state or country | VARCHAR | King |
| City | The city where the vehicle is registered | VARCHAR | Kent |
| State | The state where the vehicle is registered. Abbreviation | VARCHAR | WA |
| Postal Code | ZIP code for registered location | VARCHAR | 98042 |
| Model Year | The year the vehicle is produced | INT64 | 2017 |
| Make | The manufacturer of the vehicle | VARCHAR | CHRYSLER |
| Model | Model name of the vehicle | VARCHAR | PACIFICA |
| Electric Vehicle Type | Different type of EV | VARCHAR | Plug-in Hybrid Electric Vehicle (PHEV) |
| Clean Alternative Fuel Vehicle (CAFV) Eligibility | Indicates eligibility under CAFV program | VARCHAR | Clean Alternative Fuel Vehicle Eligible |
| Electric Range | the distance an electric or hybrid vehicle can travel before the battery needs to be recharged | INT64 | 97 |
| Base MSRP | The cost of the vehicle for producing without additional features | FLOAT | 69900 |
| Legislative District | Legislative District number | INT64 | 10 |
| DOL Vehicle ID | |  | | --- | | Department of Licensing vehicle ID |  |  | | --- | |  | | VARCHAR | 111162012 |
| Vehicle Location | Geolocation of the vehicle (longitude, latitude) | VARCHAR | POINT (-122.3684051 48.2414921) |
| Electric Utility | Electric utility company serving the area | VARCHAR | PUGET SOUND ENERGY INC |
| 2020 Census Tract | small, relatively permanent statistical subdivisions of a county or equivalent entity | VARCHAR | 53061053202 |

## **Calculated Fields:**

|  |  |  |
| --- | --- | --- |
| Field Name | Description | Expected Type |
| Vehicle Age | Manufacturing year of the vehicle | Whole Number |
| Luxury Indicator | Price category | String |
| Range Category | Range classification | String |
| Is Clean Fuel Eligible | Eligibility status | Binary |
| Registration Area | Combined location | String |
| Price Category | Statistical price tier | String |
| Range-to-Price Ratio | Miles per dollar | Numeric |

## **Measures:**

|  |  |  |
| --- | --- | --- |
| Field Name | Description | Expected Type |
| Average MSRP | Mean vehicle price | Numeric |
| Average Electric Range | Mean electric range | Numeric |
| Clean Fuel Eligibility Percentage | Percentage eligible | Numeric |
| Luxury EV Market Share | Luxury vehicle proportion | Numeric |
| Range by Price Category | Mean range per price category | Numeric |

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