Electric Vehicle Population in Washington DC

Metadata Updated: June 22, 2024

This dataset shows the Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) that are currently registered through Washington State Department of Licensing (DOL).

1. Vehicles by Year

Quantity of vehicles by year from 2010 to 2025 - visualization reflects the biggest quantity in 2023 with a total of 60,084 vehicles.

```
In [6]:

SELECT ModelYear,

COUNT(*) AS [Number of Vehicles by Year]

FROM AzureProject.dbo.EVPopulationWA

WHERE ModelYear > 2016

GROUP BY ModelYear

ORDER BY ModelYear;
```

(9 rows affected)

Total execution time: 00:00:01.970

Out[6]:	ModelYear	Number of Vehicles by Year	
	2017	8650	
	2018	14340	
	2019	10933	
	2020	12149	
	2021	19531	
	2022	28116	
	2023	60084	
	2024	16963	
	2025	6	

2. Most Popular Electric Vehicle Models

This bar chart highlights the most popular electric vehicle models - this reflects Tesla model Y being the most popular one.

(19 rows affected)

Total execution time: 00:00:06.801 Out[2]: Model EVType **MODEL Y** 39521 MODEL 3 30978 LEAF 13439 MODEL S 7869 **BOLT EV** 6444 MODEL X 6126 VOLT 4801 4337 ID.4 MUSTANG MACH-E 3758 3743 WRANGLER **PACIFICA** 3393 NIRO 3358 PRIUS PRIME 2985 2747 **IONIQ 5 BOLT EUV** 2650 **RAV4 PRIME** 2596 X5 2456 R1S 2453 EV6 2378

3. Distribution of Electric Vehicle by County

Visualization displays the distribution of electric vehicles across different counties, showing Seattle with the highest amount.

(8 rows affected)

Total execution time: 00:00:04.313

Out[3]:	City	NumberOfVehicles
	Seattle	31436
	Bellevue	9582
	Redmond	6883
	Vancouver	6744

Bothell	6278
Kirkland	5709
Sammamish	5595
Renton	5584

4. Electric Vehicle Types (BEVs vs. PHEVs)

This chart compares the number of Battery Electric Vehicles (BEVs) to Plug-in Hybrid Electric Vehicles (PHEVs), illustrating the proportions of each type in the overall population - Battery Electric Vehicles being the highest.

5. Avarage Electric Vehicle Age by County