ELECTRIC VEHICLE CHARGING TRENDS

PYTHON

PANDAS
MATPLOTLIB
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GOALS

1. EV Market & Charging Data Exploration
2. Strategic Insights on EV Charging Infrastructure

Goals

The analysis highlights strong growth in EV sales and infrastructure, uncovering trends and outliers that support smarter planning. These insights exceed initial goals and provide a valuable foundation for future data-driven mobility strategies.

RESULTS

+20x
ev sales growth
2011 vs 2018

+7x
public ports increase
2013 vs 2022

+190%
private ports growth
Since 2018

TOP STATISTICS

361k EVs sold in 2018

136k Public ports in 2022

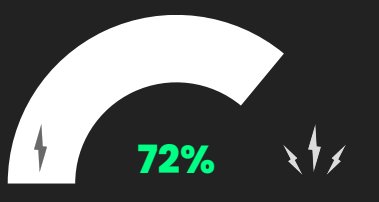
20k Private ports in 2022

FOCUS ON 2018 VS 2019 DATA

10% EV Sales Drop

30% Public Ports Increase

46% Private Ports Increase



Charging Coverage Score

TOP 5 VEHICLE MODELS SOLD

#1	TESLA MODEL 3	296k
#2	TESLA MODEL S	162k
#3	CHEVY VOLT	157k
#4	NISSAN LEAF	142k
#5	PRIUS PHEV	117k

1. EV Surge Driven by Demand & Innovation

EV sales skyrocketed 20x from 2011 to 2018, peaking at over 360k units — fueled by growing consumer interest, policy support, and Tesla's dominance with top-selling models like the Model 3.

2. Infrastructure Expands, but Public Leads

Charging stations grew in response to rising EV adoption — public ports saw a 6x increase by 2022, outpacing slower private growth, indicating strong public investment but lingering infrastructure gaps.

Electric Vehicle

Data-backed guidance to shape a future where electric mobility and infrastructure grow together.

NEXT STEPS

#1 Continue scaling EV infrastructure
#2 Analyze regional disparities in charging access
#3 Monitor 2024–2025 EV market growth trends