



INSTITUTE OF SCIENCE,



DEPARTMENT OF STATISTICS



INTERNSHIP PROJECT ON POWER BI



**ELECTRIC VEHICLE (EV) SALES ANALYSIS DASHBOARD
USING POWER BI**



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EVs Sold By Makers

2022

2023

2024

Total EV Sold

2.1M

LY: 1.0M (97.4%)

Revenue 2Ws Makers

162.6bn

LY: ₹83.3bn (95.1%)

Revenue 4Ws Makers

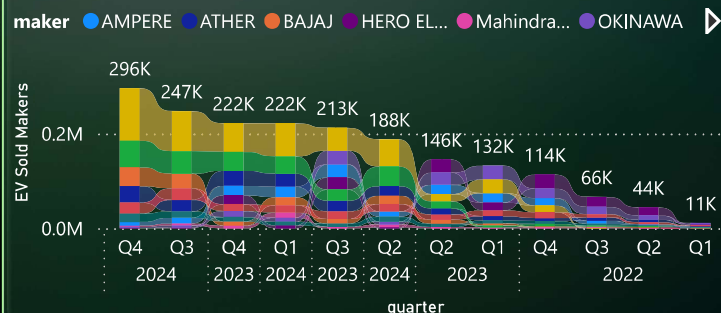
229.4bn

LY: ₹99.1bn (131.6%)

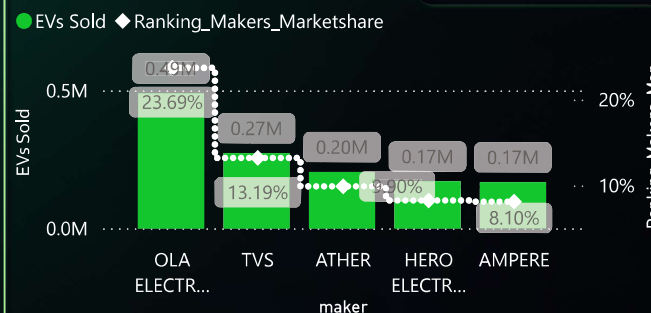
CAGR

93.91%

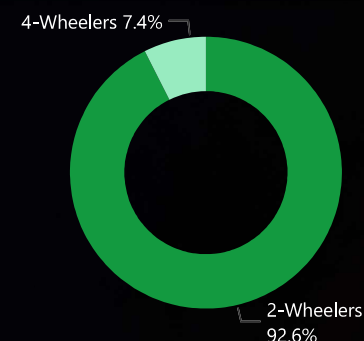
EV Sold Makers by fiscal_year, quarter and maker



EVs Sold and Ranking_Makers_Marketshare by maker



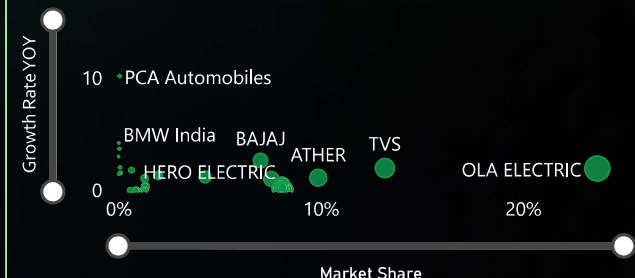
EV Sold Makers by vehicle_category



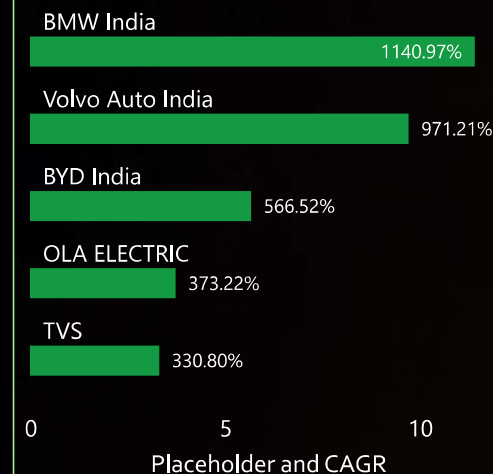
EV Sold Makers and First quarter by Month and fiscal_year



Market Share, Growth Rate YOY and EVs Sold by maker



Placeholder and CAGR by maker



EVs Sold By States

2022

2023

2024

Total EV Sales

57M

Estimated Revenue

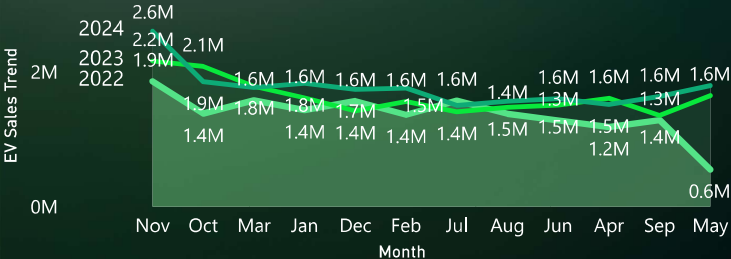
165bn

CAGR State

3.78%

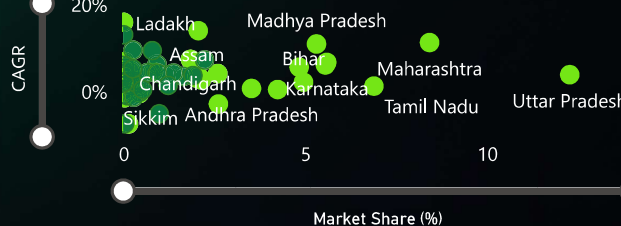
EV Sales Trend by Month and fiscal_year

fiscal_year ● 2022 ● 2023 ● 2024

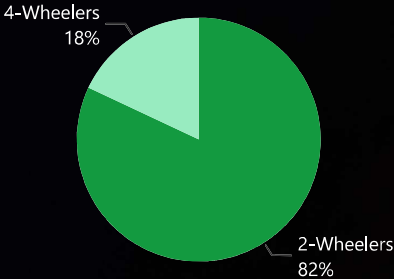


CAGR vs Market Share (%)

vehicle_category ● 2-Wheelers ● 4-Wheelers

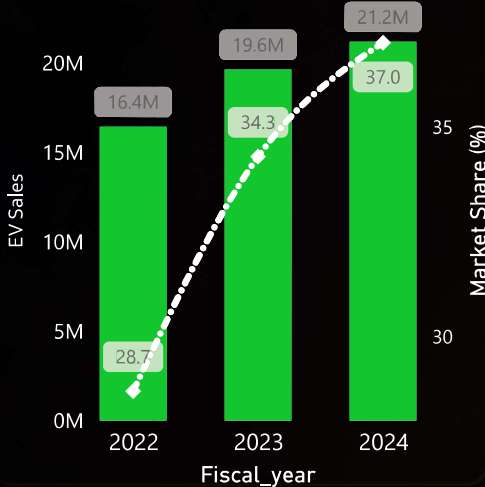


EV Sales by Vehicle_category



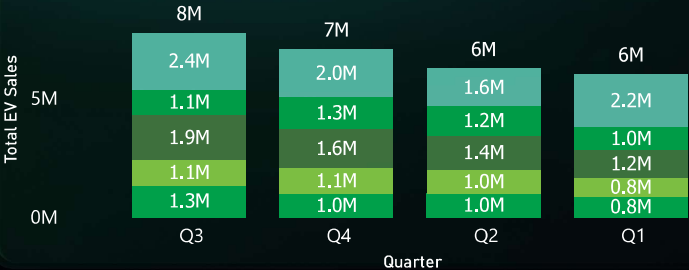
EV Sales and Market Share (%) by Fiscal_year

● EV Sales ◆ Market Share (%)

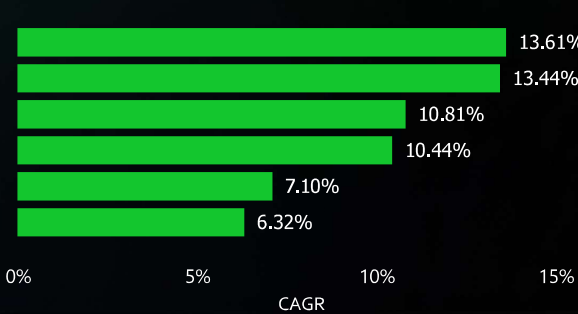


Total EV Sales by Quarter and State

State ● Gujarat ● Karnataka ● Maharashtra ● Tamil Nadu ● Uttar Pradesh

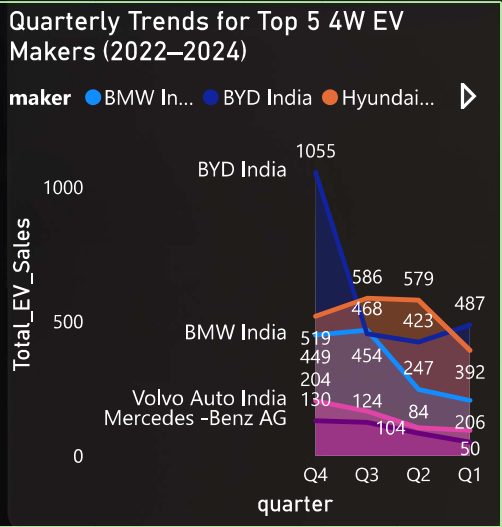
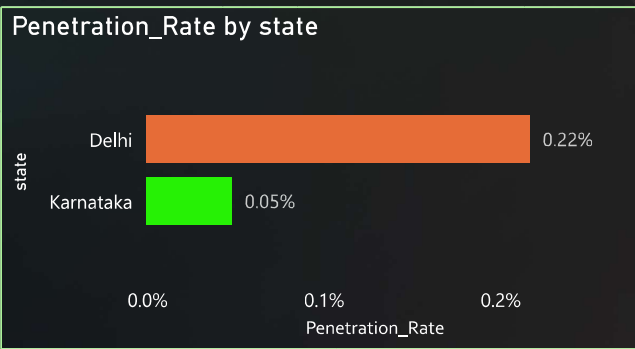
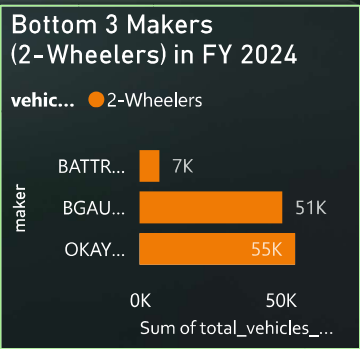
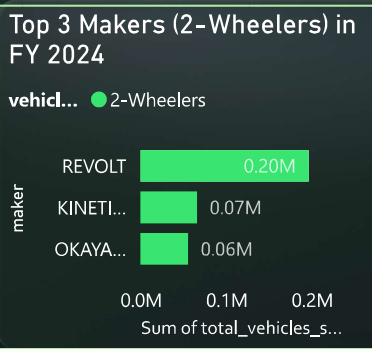
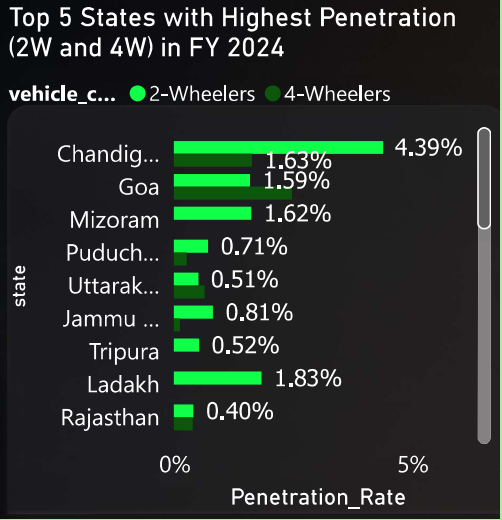
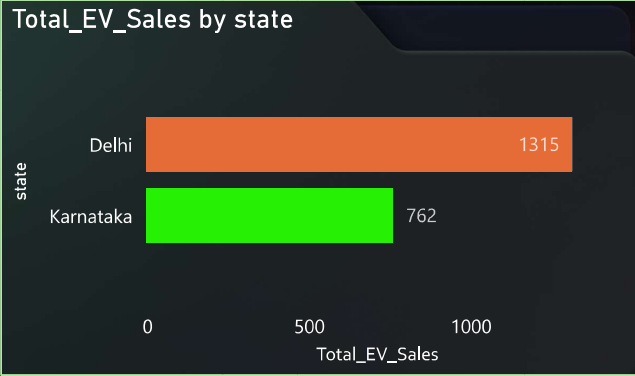
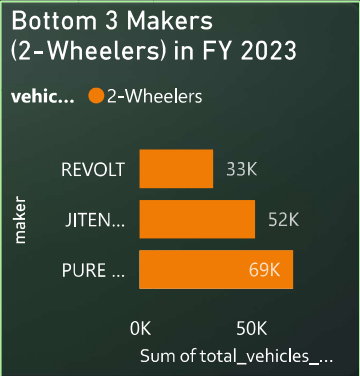
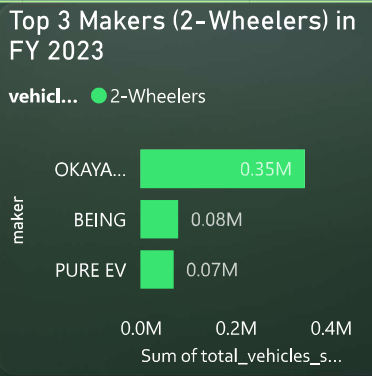


CAGR by state



Preliminary Research Questions

202220232024



Preliminary Research Questions

2-W...

4-W...

2022

2023

2024

Sum of total_vehicles_sold

57M

Total_EV_Sales

2M

Penetration_Rate

3.61%

CAGR for EV Makers

93.91%

Projected EV Sales in 2030 (Top 10 states by Penetration)



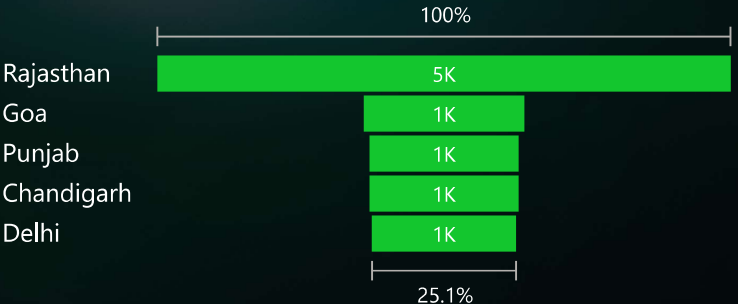
Peak and Low Season Months (2022–2024)



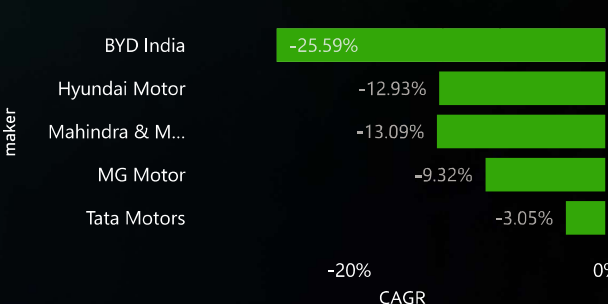
Market Share of EV Makers in 2023



Typical EV Sales from Top to Bottom States in 2024



CAGR in 4W Units for Top 5 Makers (2022–2024)



Top 10 States by CAGR in Total Vehicle Sales (2022–2024)



Secondary Questions:-

Best State to Start EV Manufacturing (2023–2024):-

Tamil Nadu

-  **High subsidies**
-  **Easy business setup**
-  **Stable policies**
-  **Strong EV cluster (Chennai, Hosur)**
-  **Skilled workforce**

Also good:

 **Maharashtra, Karnataka, Telangana, Gujarat**

EV Infra vs Sales:-

 **More charging stations = higher EV adoption**

 **Delhi – Dense network, high 4W sales**

 **Maharashtra – Fast chargers, rapid growth**

 **Tamil Nadu – Fleet infra, rising 2W**

 **Karnataka – Bengaluru-led expansion**

 **Kerala – Steady 2W via metro/mall chargers**

 **Poor infra = low adoption despite subsidies**

Why Buyers Choose 4-Wheeler EVs (2023–2024):-