

 **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

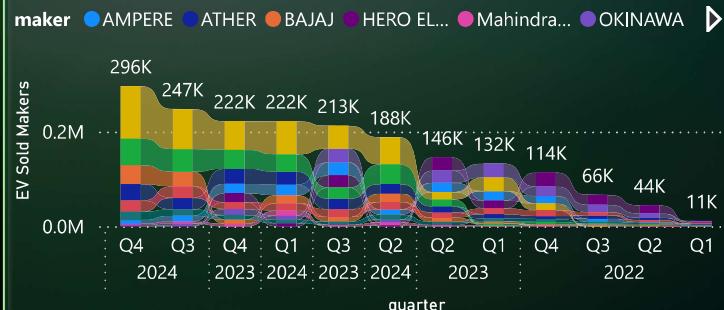
229.4bn

LY: ₹99.1bn (131.6%)

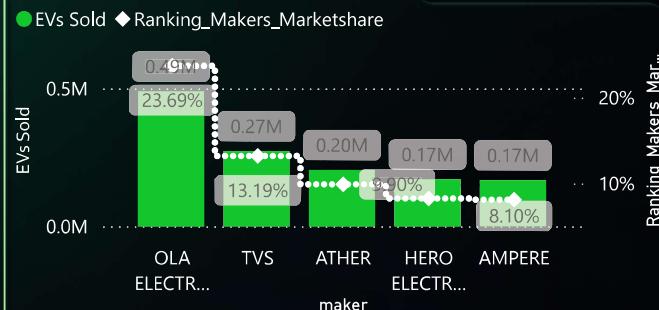
CAGR

93.91%

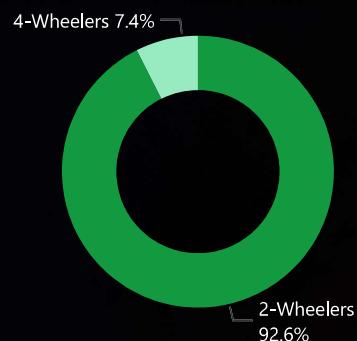
EV Sold Makers by fiscal_year, quarter and maker



EVs Sold and Ranking_Makers_Marketshare by maker



EV Sold Makers by vehicle_category



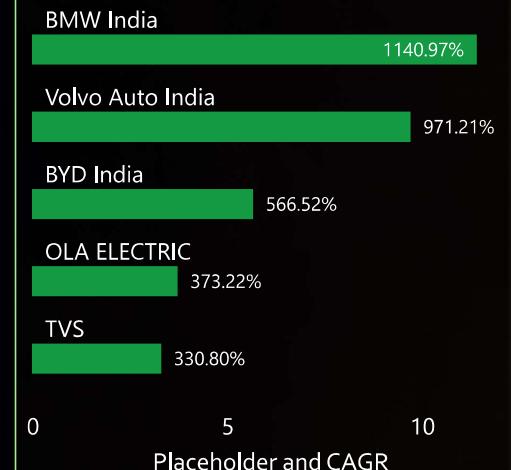
EV Sold Makers and First quarter by Month and fiscal_year



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

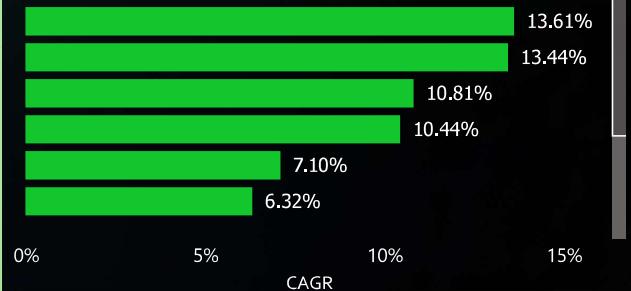


Total EV Sales by Quarter and State

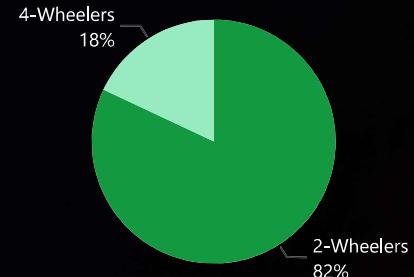
State ● Gujarat ● Karnataka ● Maharashtra ● Tamil Nadu ● Uttar Pradesh



CAGR by state

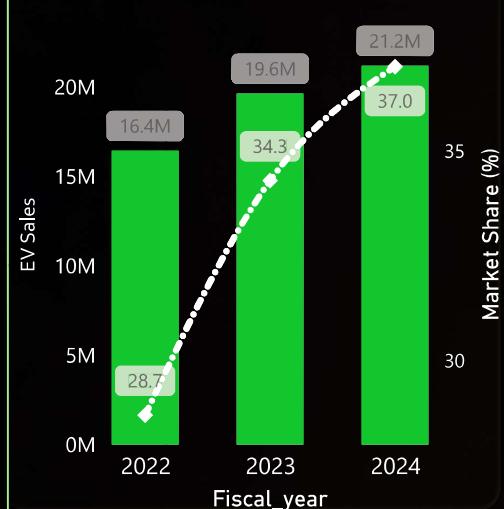


EV Sales by Vehicle_category



EV Sales and Market Share (%) by Fiscal_year

● EV Sales ◆ Market Share (%)



Preliminary Research Questions

2022

2023

2024

Sum of total_vehicles_sold

57M

Total_EV_Sales

2M

Penetration_Rate

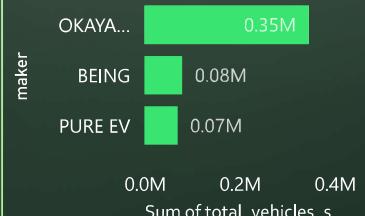
3.61%

CAGR for EV Makers

93.91%

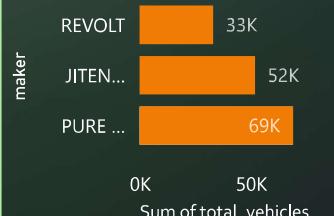
Top 3 Makers (2-Wheelers) in FY 2023

vehic... ● 2-Wheelers

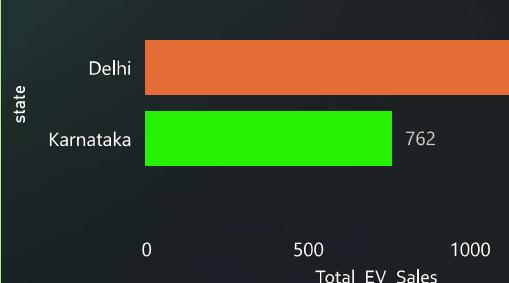


Bottom 3 Makers (2-Wheelers) in FY 2023

vehic... ● 2-Wheelers

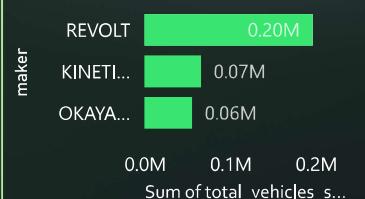


Total_EV_Sales by state



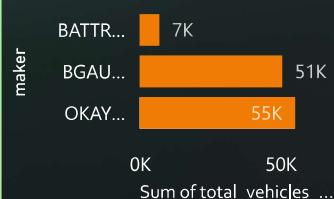
Top 3 Makers (2-Wheelers) in FY 2024

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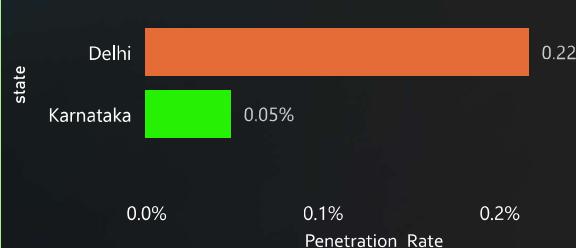


Bottom 3 Makers (2-Wheelers) in FY 2024

vehic... ● 2-Wheelers

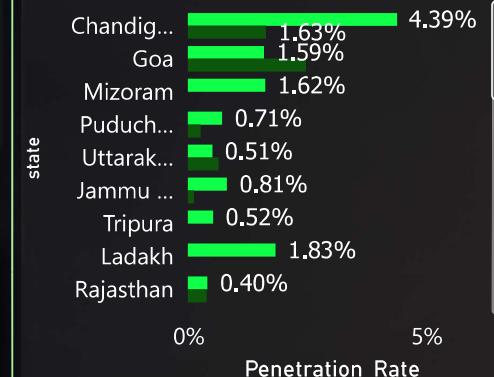


Penetration_Rate by state



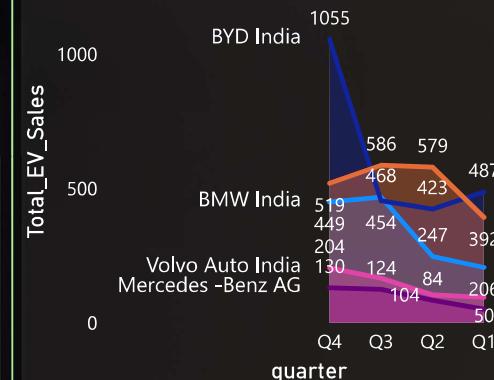
Top 5 States with Highest Penetration (2W and 4W) in FY 2024

vehicle_c... ● 2-Wheelers ● 4-Wheelers



Quarterly Trends for Top 5 4W EV Makers (2022–2024)

maker ● BMW India ● BYD India ● Hyundai...



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%

Peak and Low Season Months (2022–2024)

fiscal_year ● 2022 ● 2023 ● 2024



Market Share of EV Makers in 2023

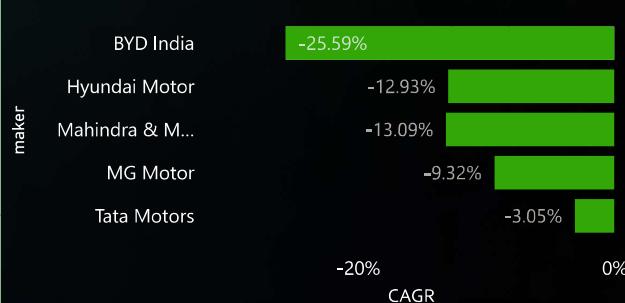
● Increase ● Decrease ● Total



Typical EV Sales from Top to Bottom States in 2024



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



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



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):-