

# **VISUALIZATION TOOL FOR ELECTRIC VEHICLE CHARGE AND RANGE ANALYSIS**

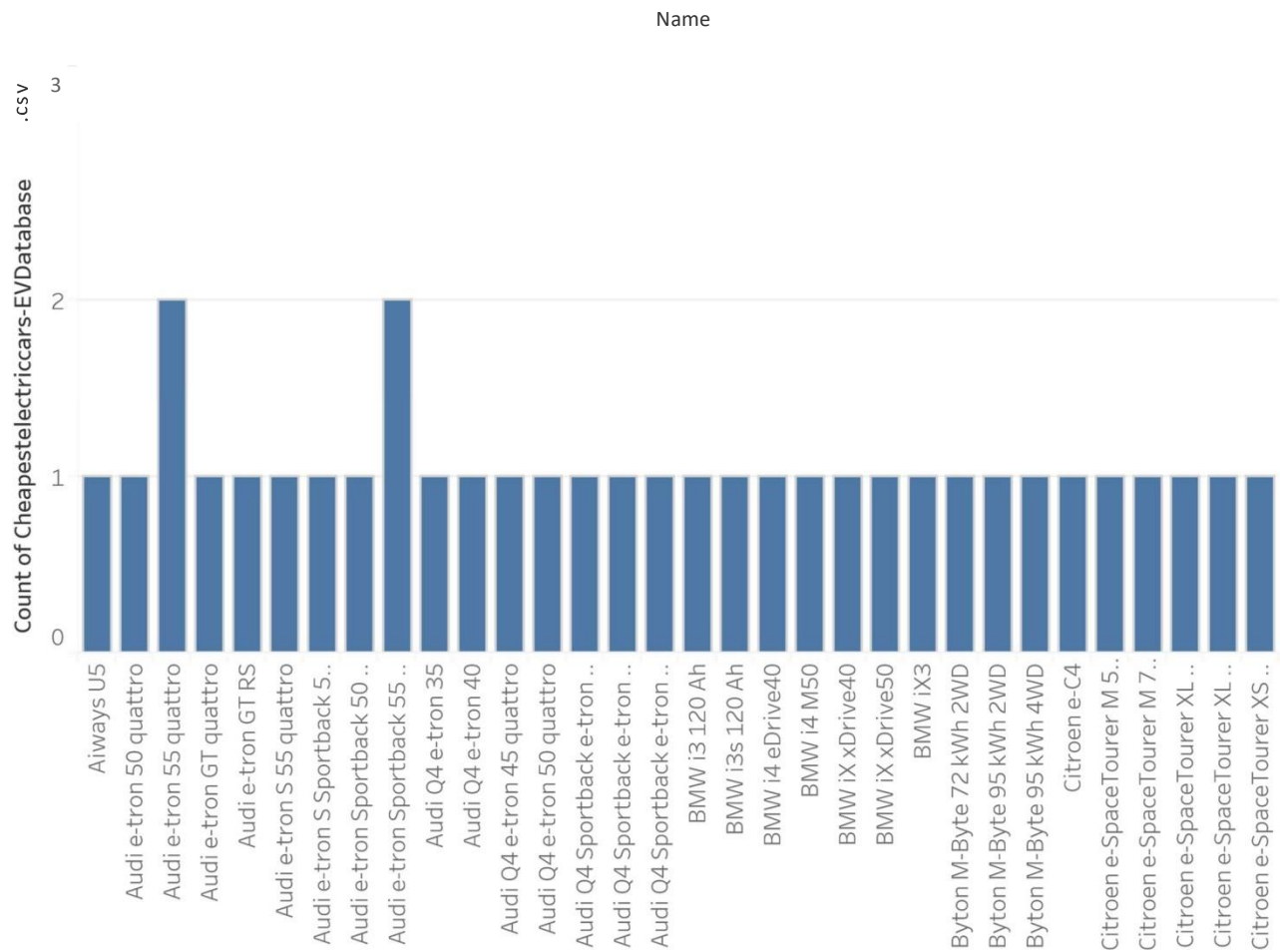
**PRAGATI ENGINEERING COLLEGE**

**BY Reshma Kalabattula**

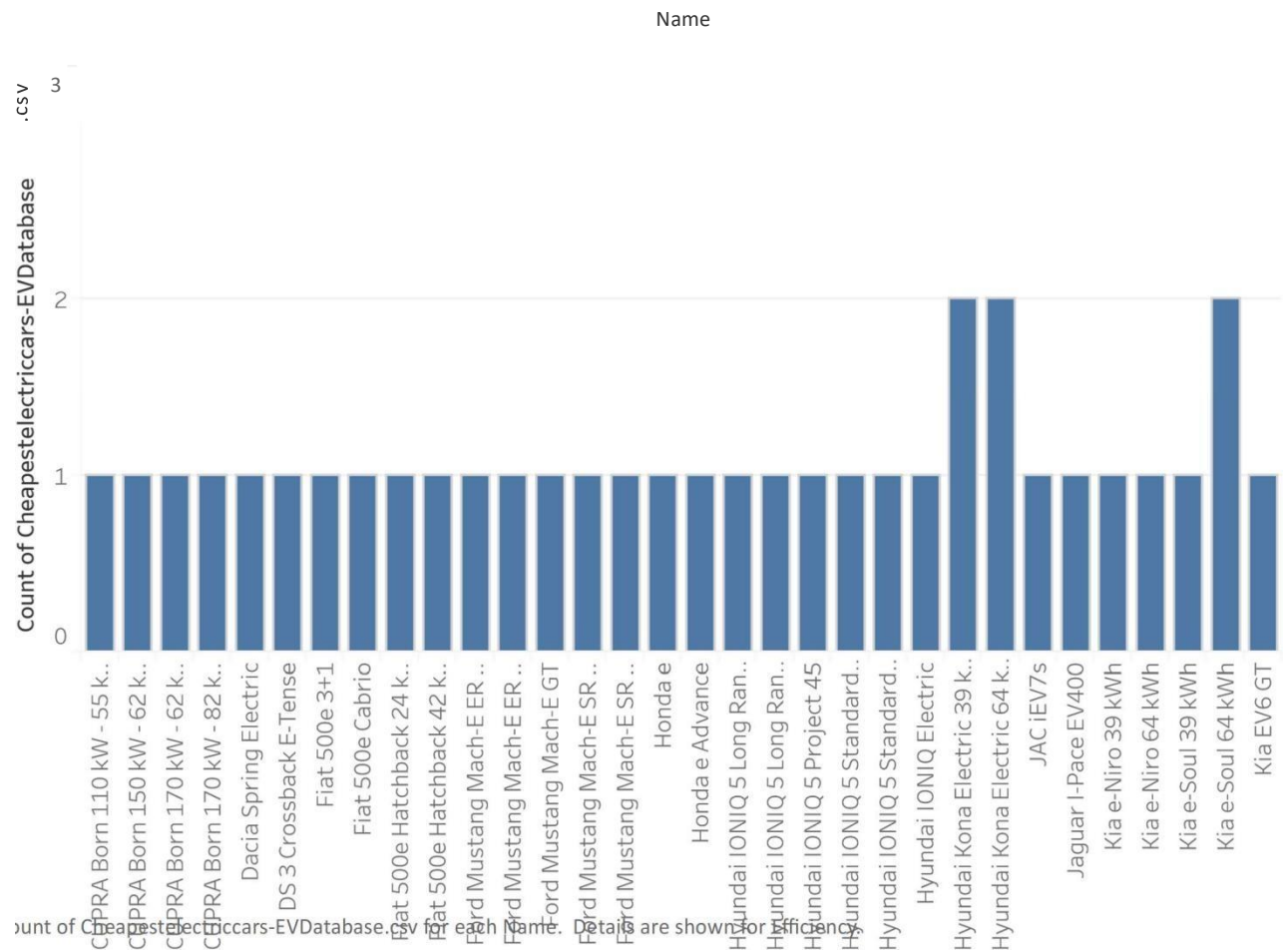
## DATA ANALYTICS ON ELECTRICAL VEHICLES



ACCELERATION OF THE VEHICLE FOR DIFFERENT BRANDS IN INDIA

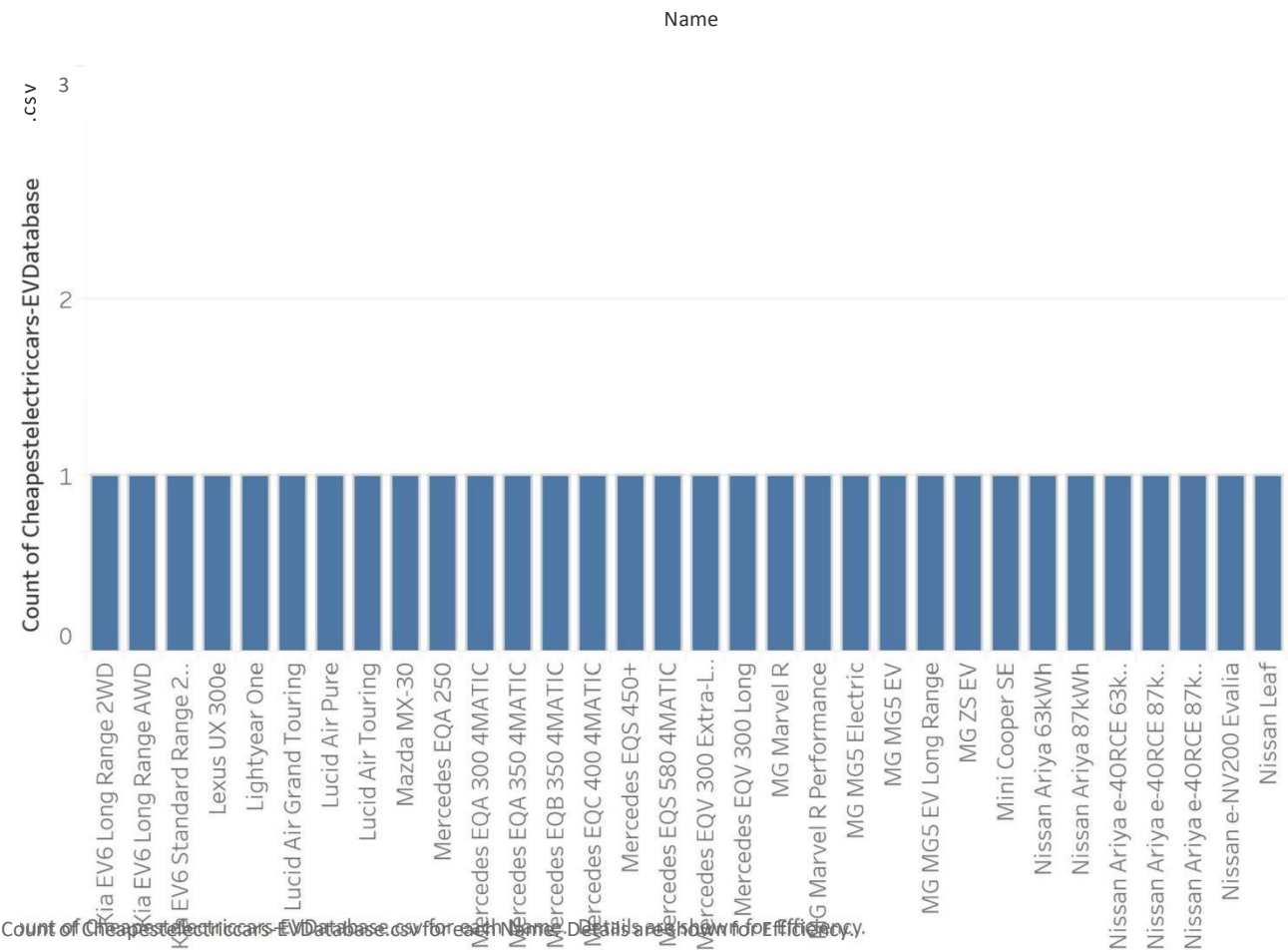


ACCELERATION OF THE VEHICLE FOR DIFFERENT BRANDS IN INDIA



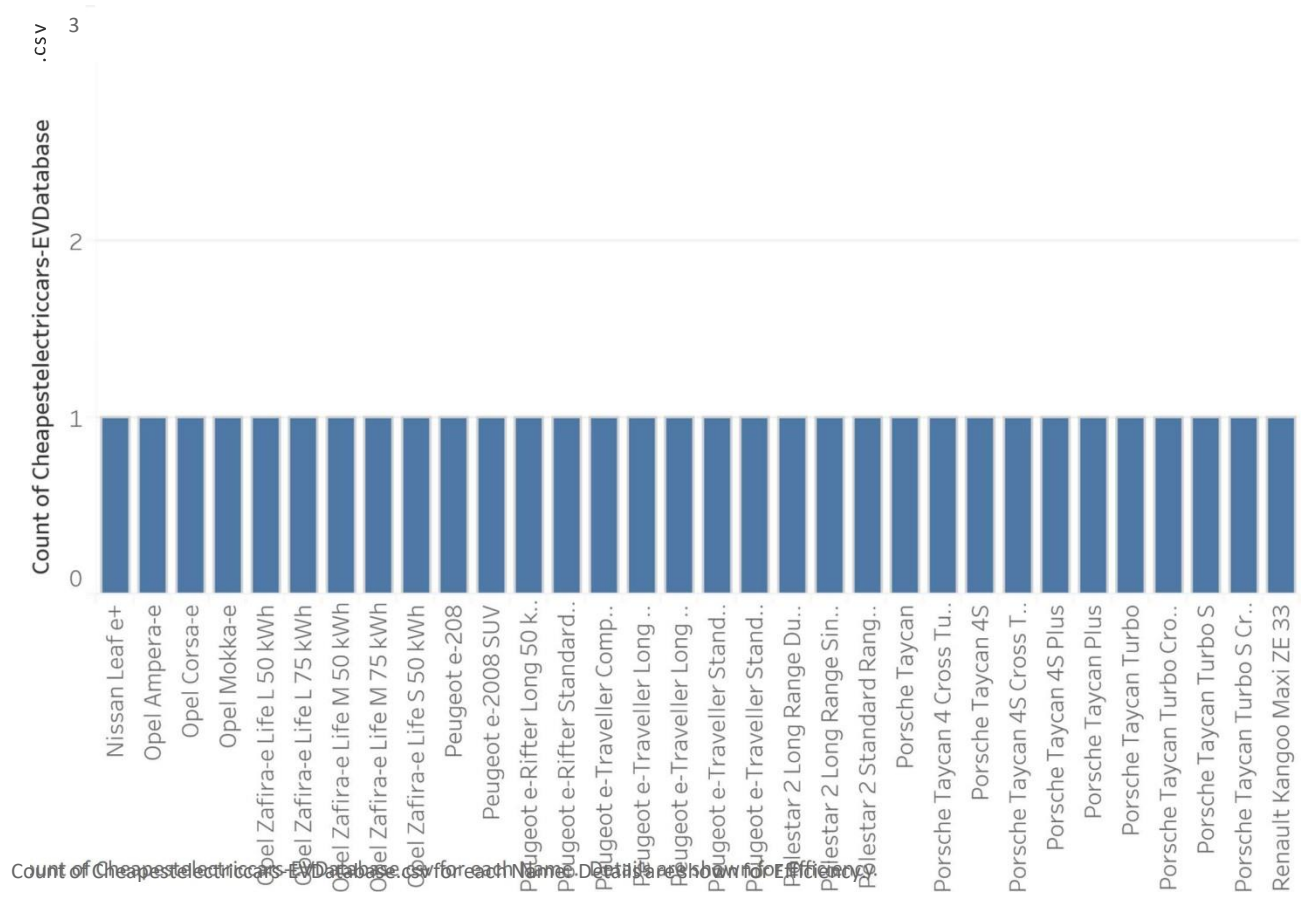
Count of Cheapestelectriccars-EVDatabase.csv for each Name. Details are shown for Efficiency.

ACCELERATION OF THE VEHICLE FOR DIFFERENT BRANDS IN INDIA

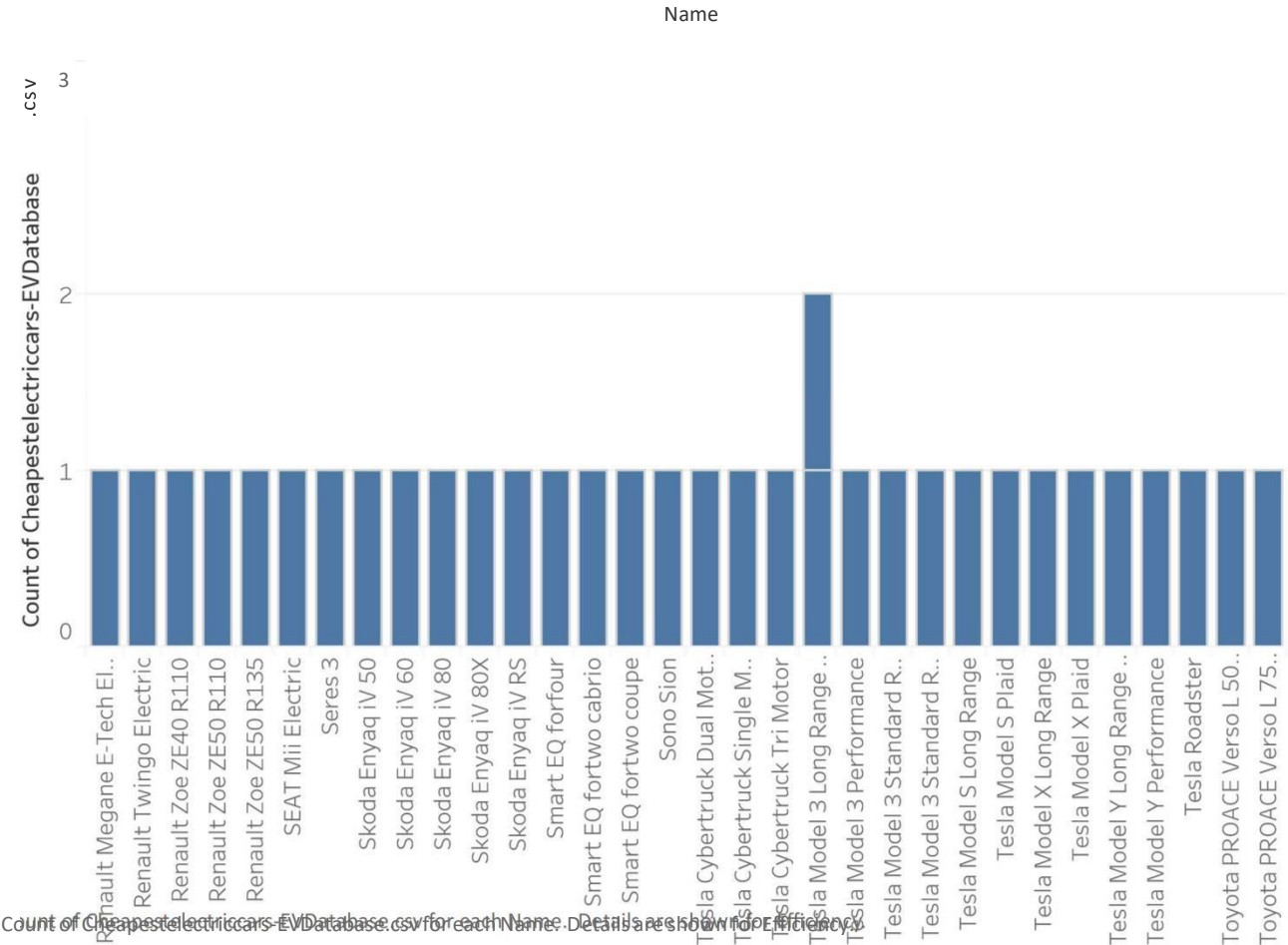


## ACCELERATION OF THE VEHICLE FOR DIFFERENT BRANDS IN INDIA

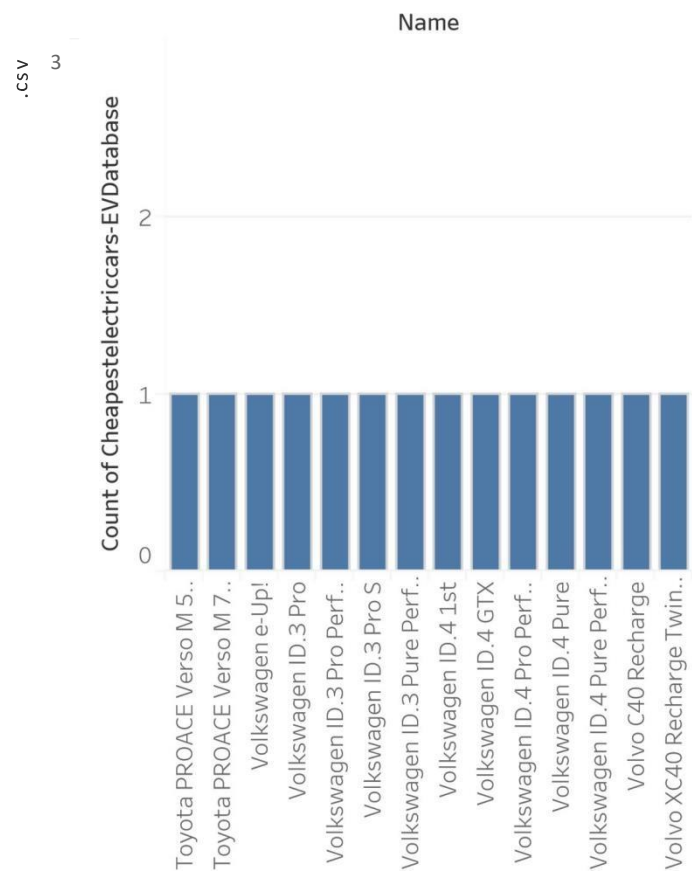
Name



ACCELERATION OF THE VEHICLE FOR DIFFERENT BRANDS IN INDIA

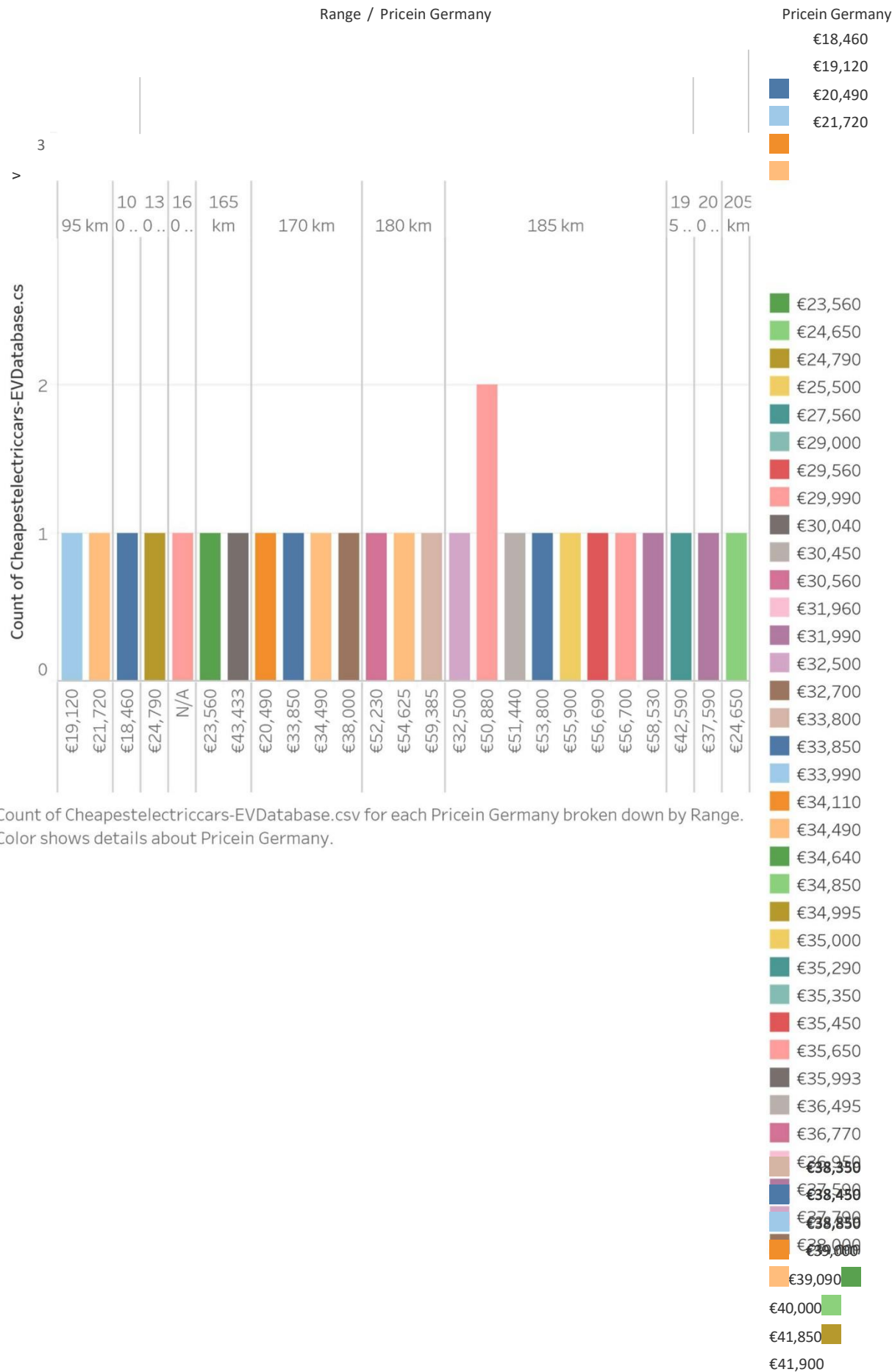


ACCELERATION OF THE VEHICLE FOR DIFFERENT BRANDS IN INDIA

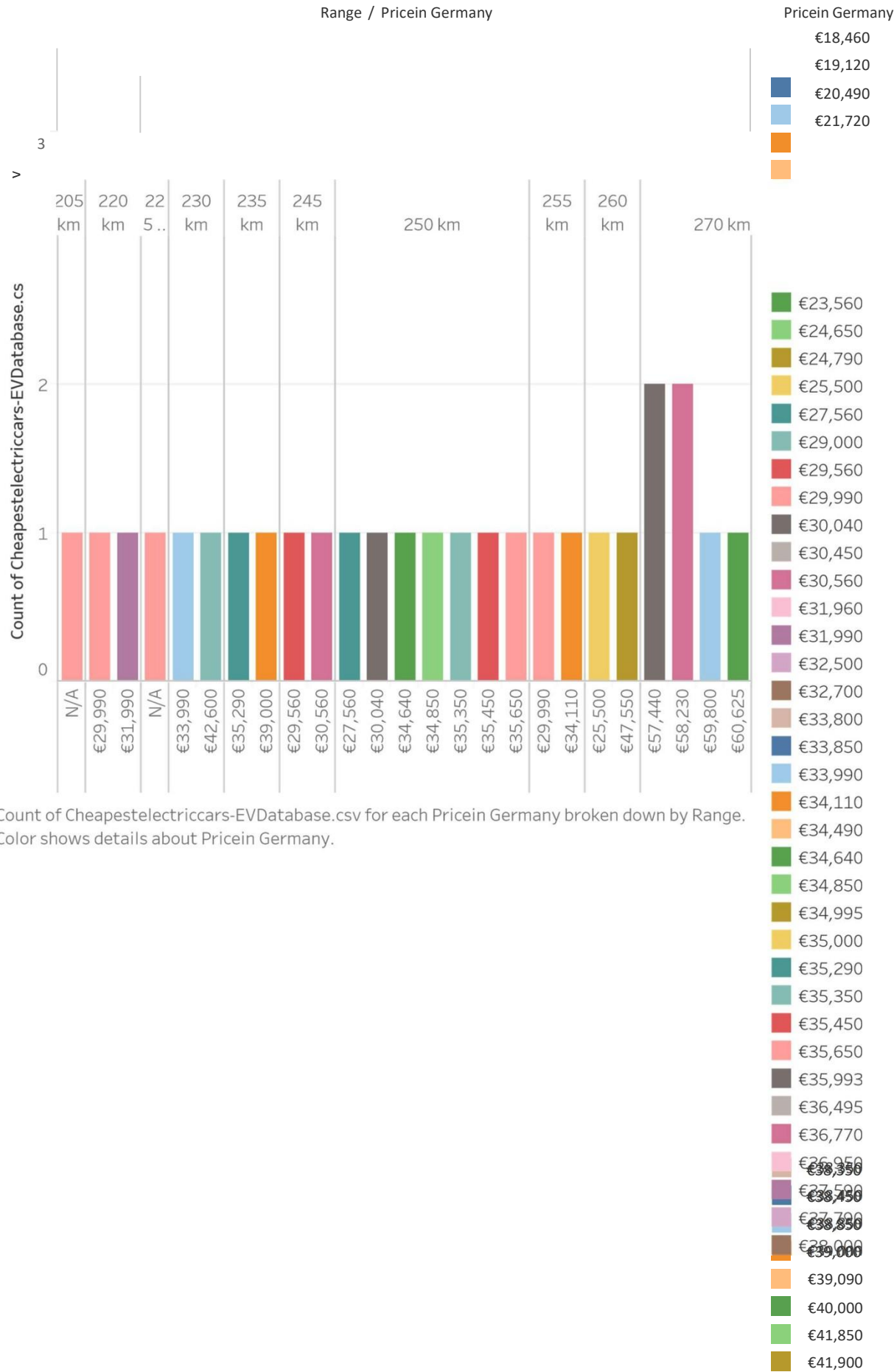




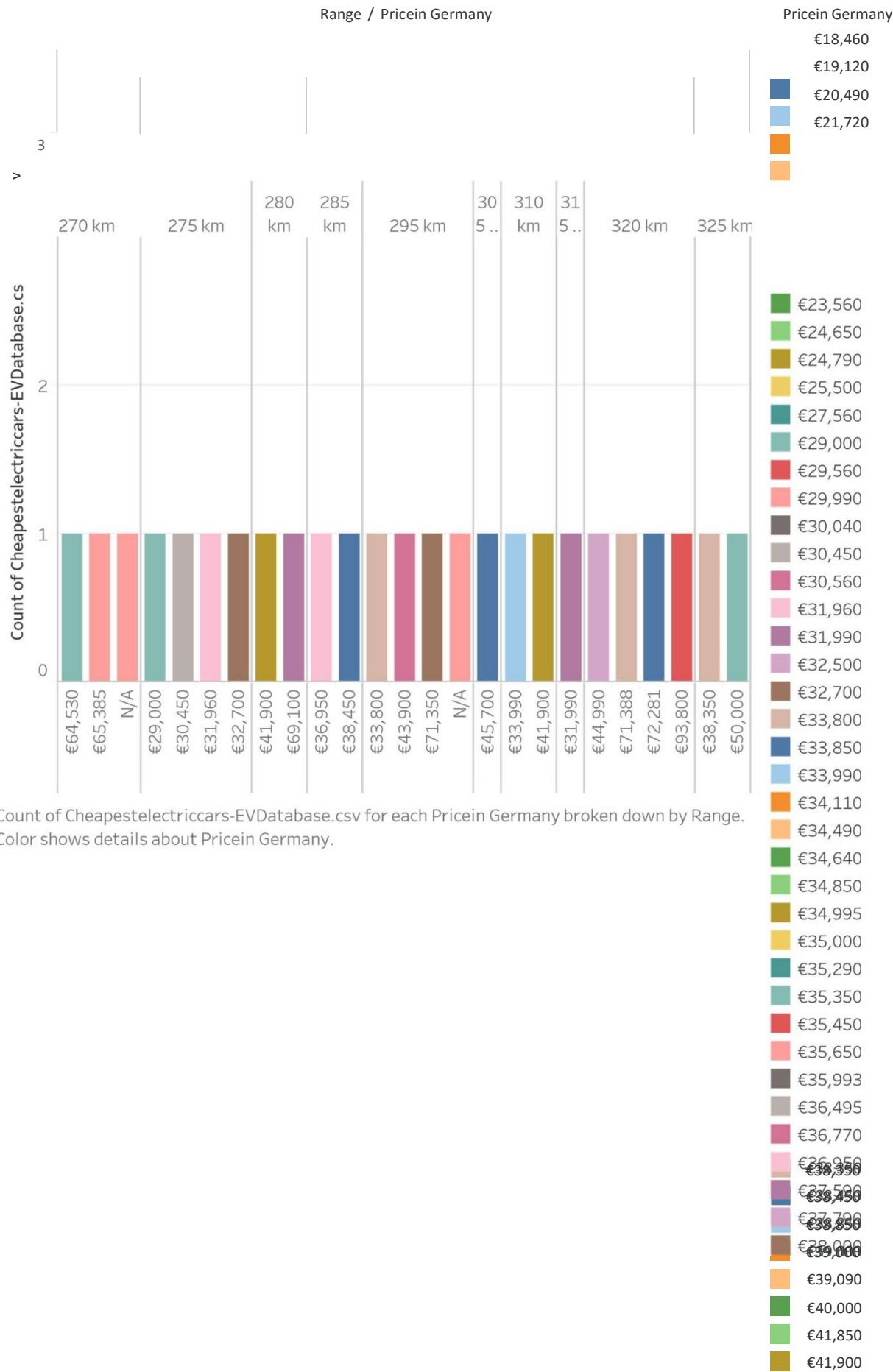
COST OF EELCTRIC VEHICALS ACCORDING TO THEIR RANGE



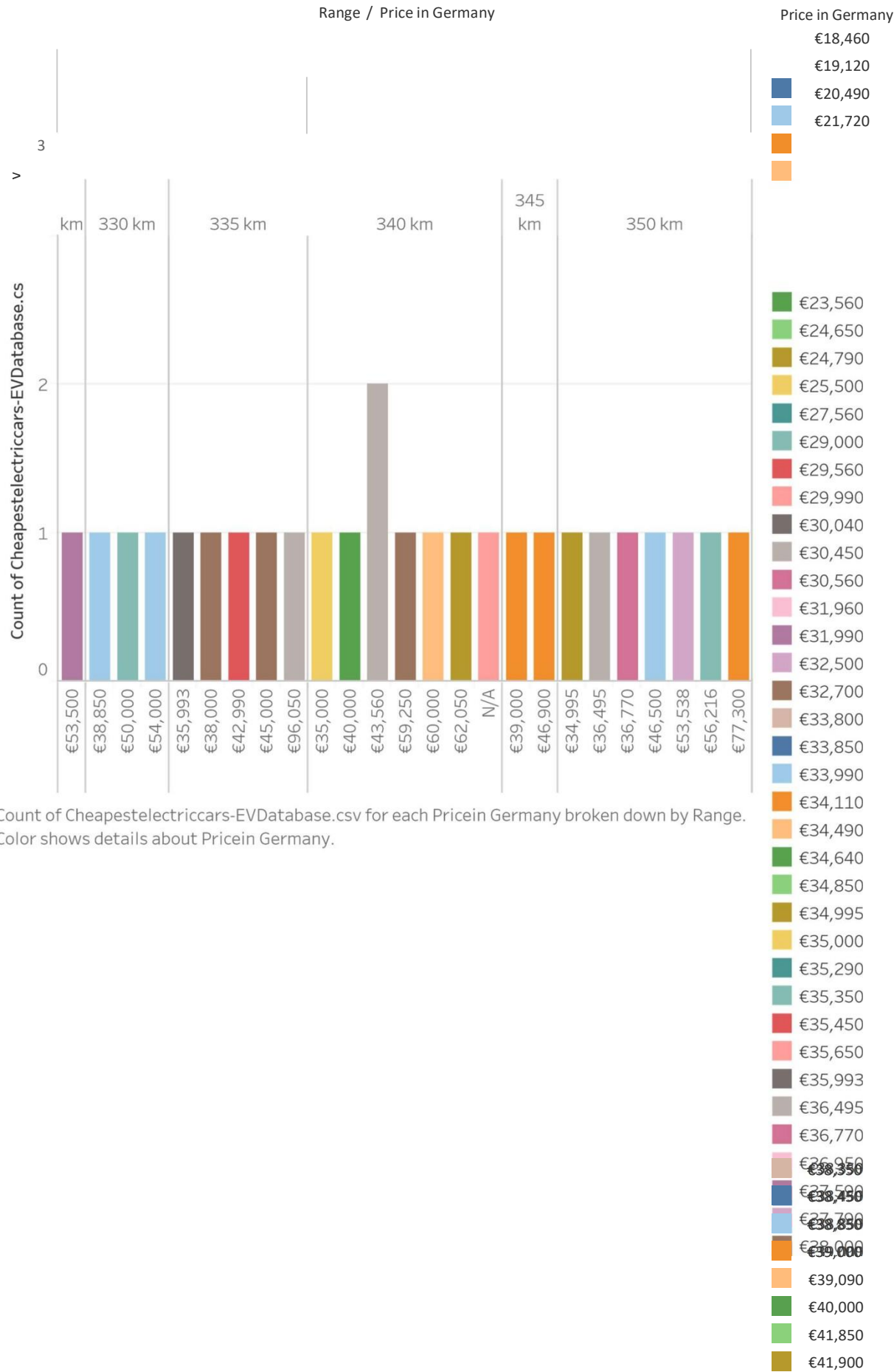
COST OF EELCTRIC VEHICALS ACCORDING TO THEIR RANGE



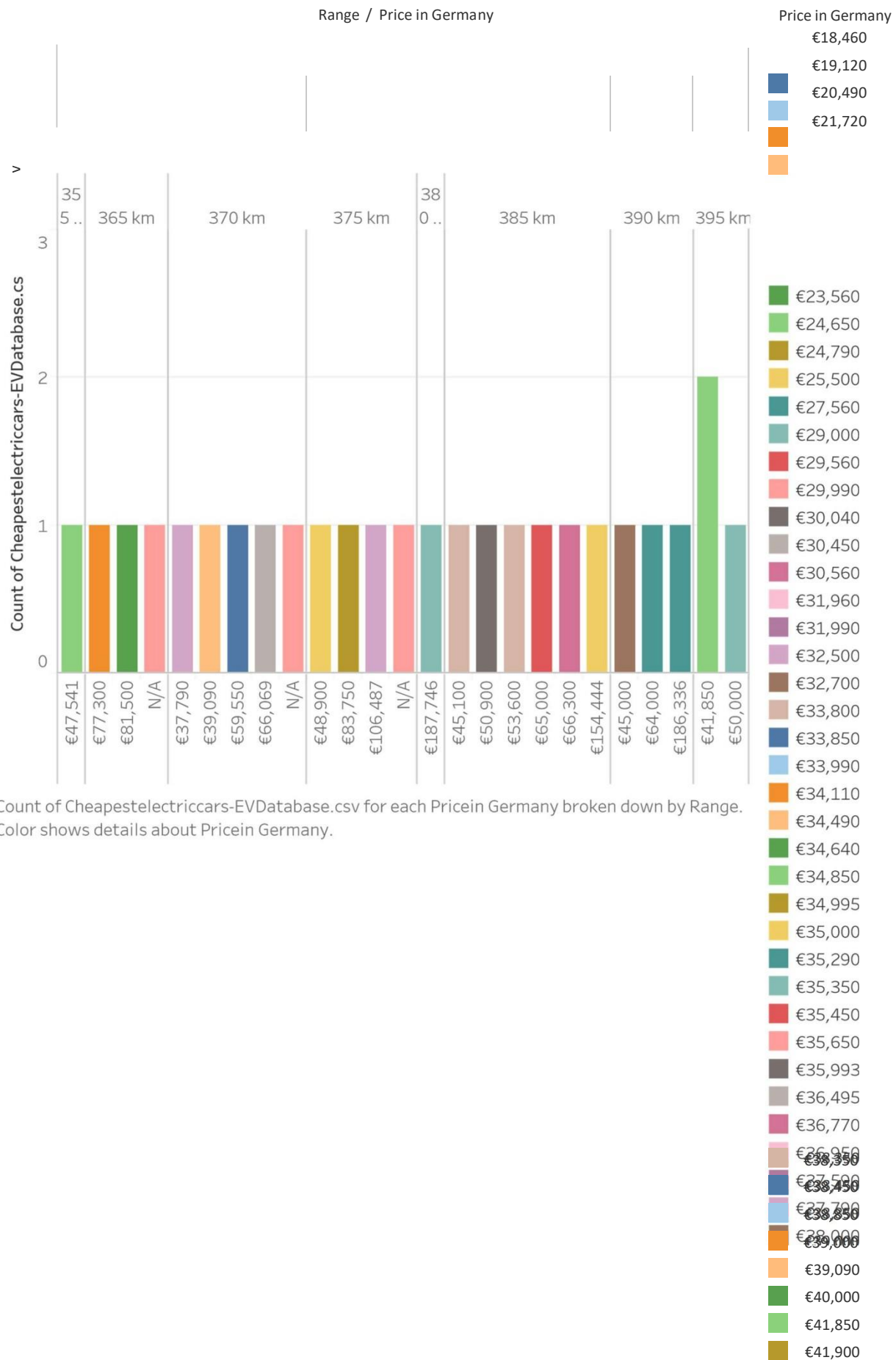
COST OF EELCTRIC VEHICALS ACCORDING TO THEIR RANGE



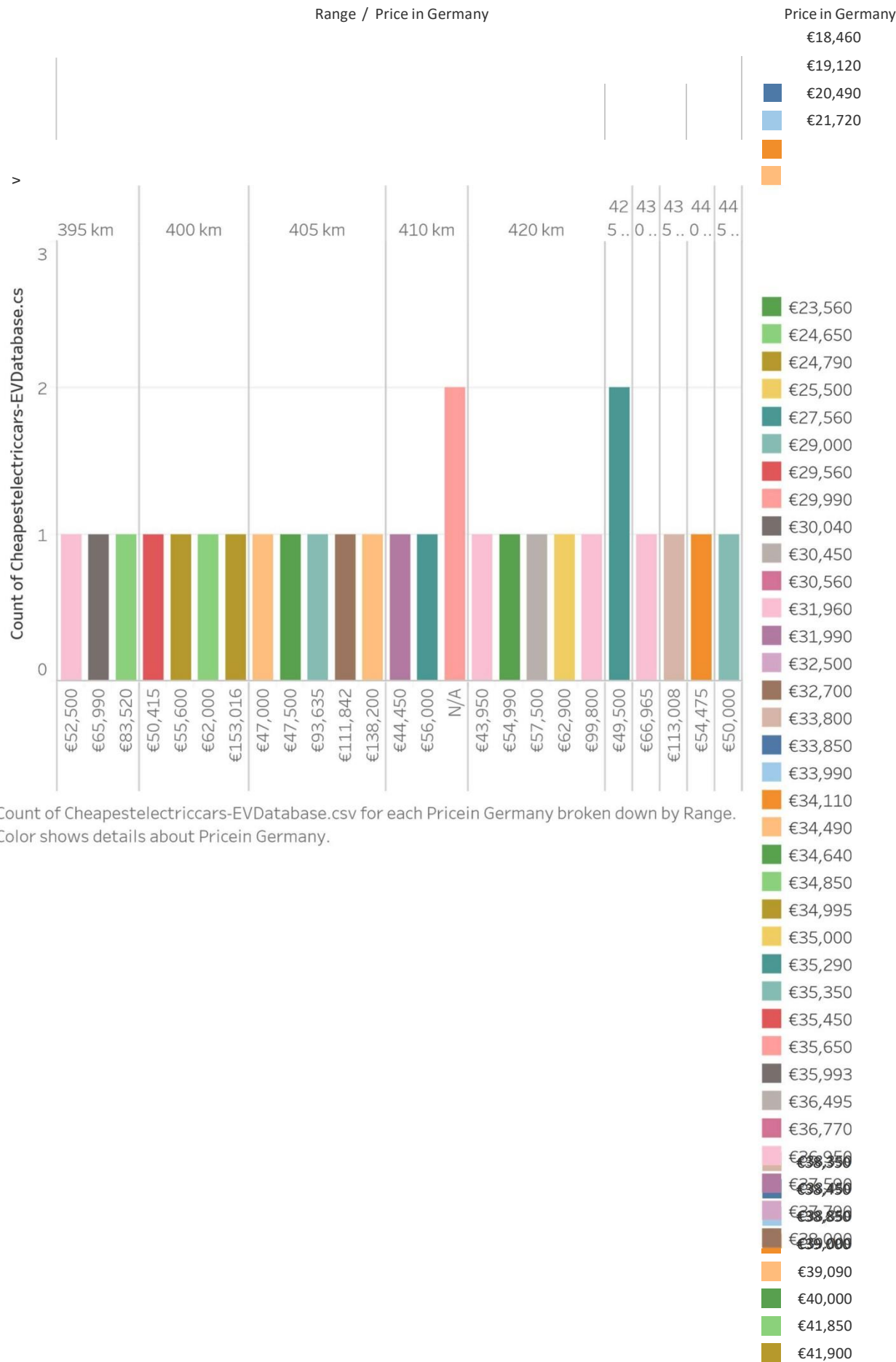
COST OF ELECTRIC VEHICLES ACCORDING TO THEIR RANGE



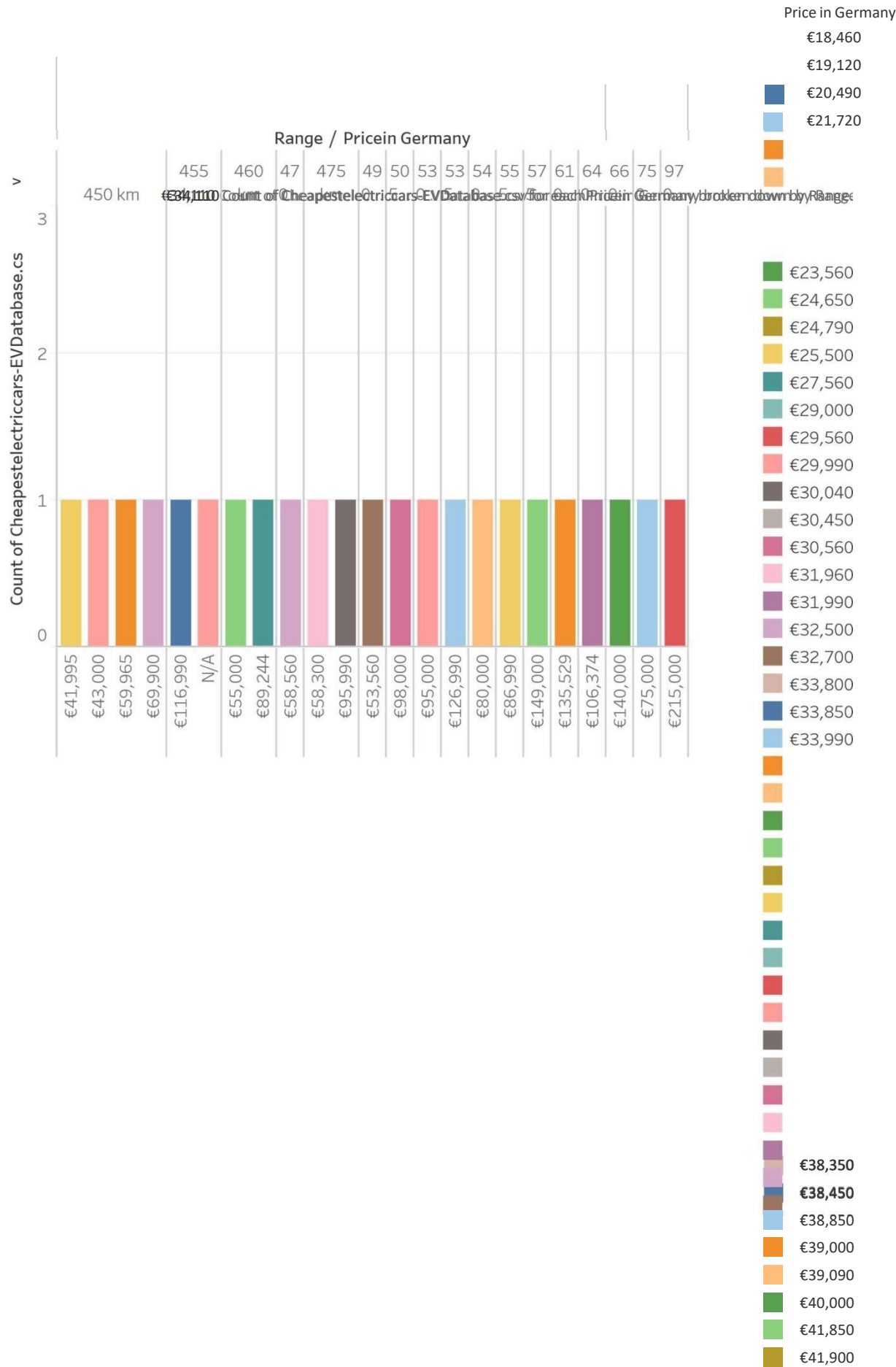
# COST OF ELECTRIC VEHICLES ACCORDING TO THEIR RANGE



COST OF ELECTRIC VEHICLES ACCORDING TO THEIR RANGE



COST OF ELECTRIC VEHICLES ACCORDING TO THEIR RANGE



Color shows details about Price in Germany.

€34,490

€34,640

€34,850

€34,995

€35,000

€35,290

€35,350

€35,450

€35,650

€35,993

€36,495

€36,770

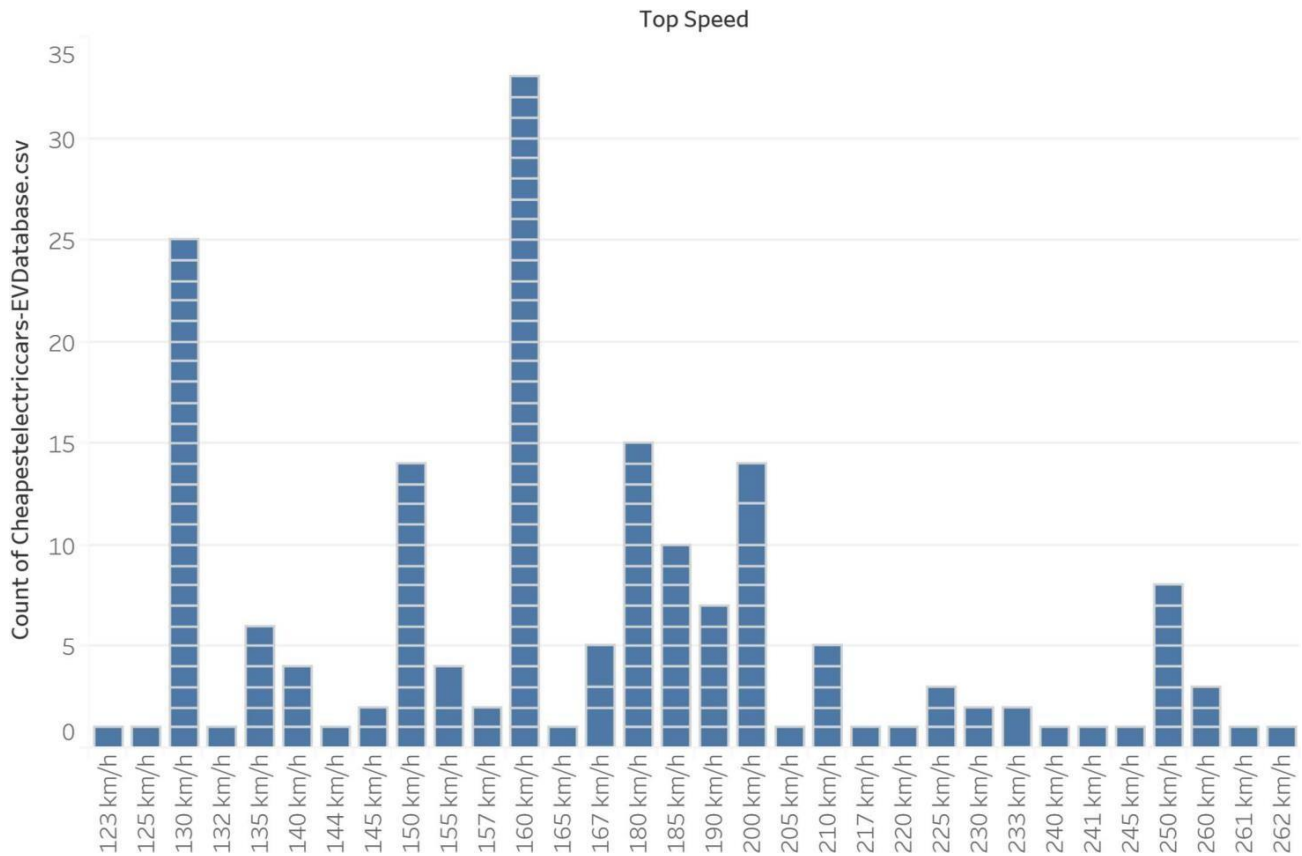
€36,950

€37,590

€37,790

€38,000

## DIFFERENT BRANDS ACCORDING TO THEIR TOP SPEED IN INDIA



Count of Cheap electric cars-EVDatabase.csv for each Top Speed. Details are shown for Name.

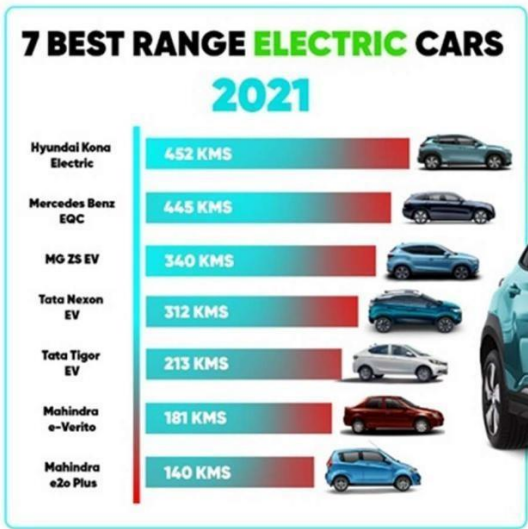


# DIFFERENT BRANDS ACCORDING TO THEIR TOP SPEED IN INDIA

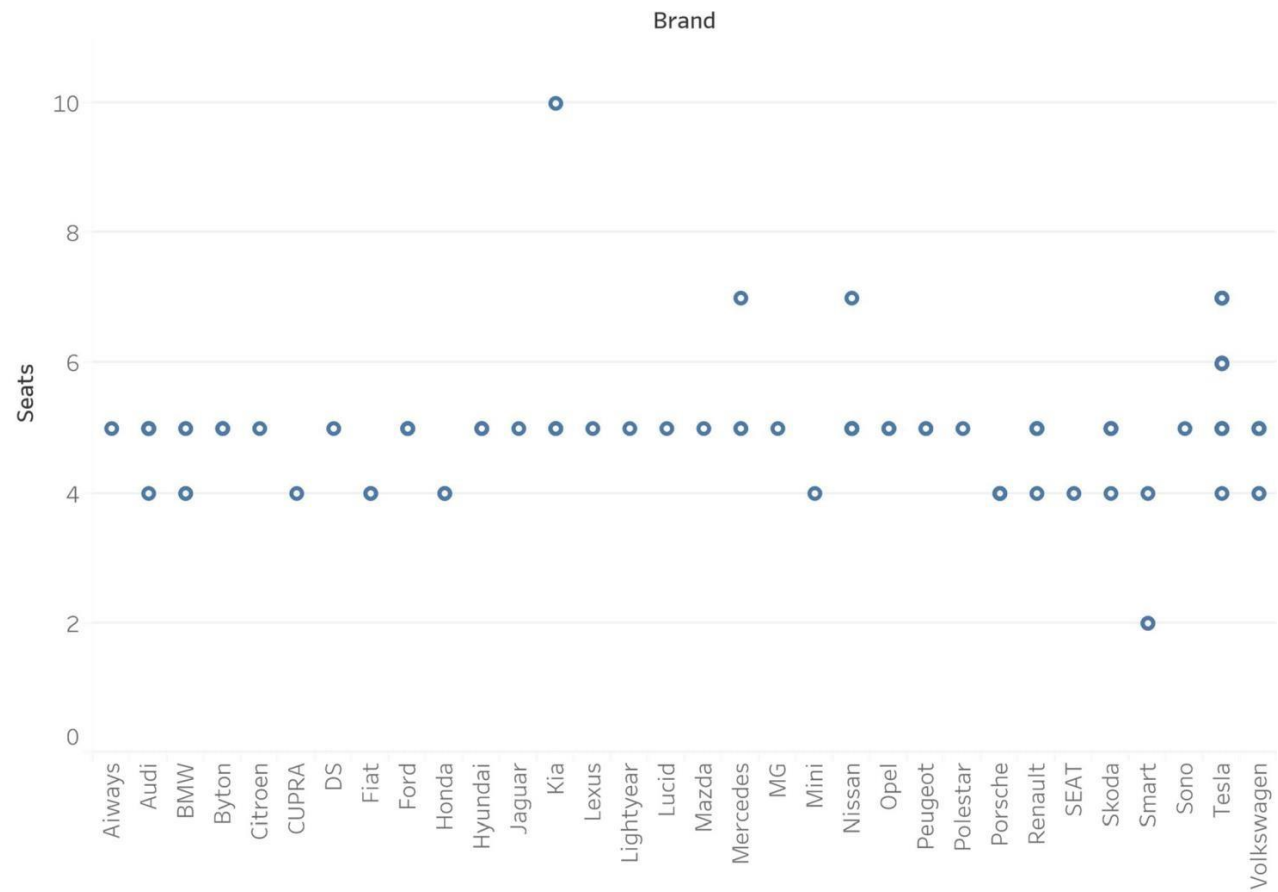


Count of Cheap electric cars-EVDatabase.csv for each Top Speed. Details are shown for Name.

TOP BRANDS OF ELECTRIC VEHICLES



# DIFFERENT BRANDS OF ELECTRIC VEHICLES



Sum of Seats for each Brand. Details are shown for Model.

# DIFFERENT BRANDS OF ELECTRIC VEHICLES

Br..

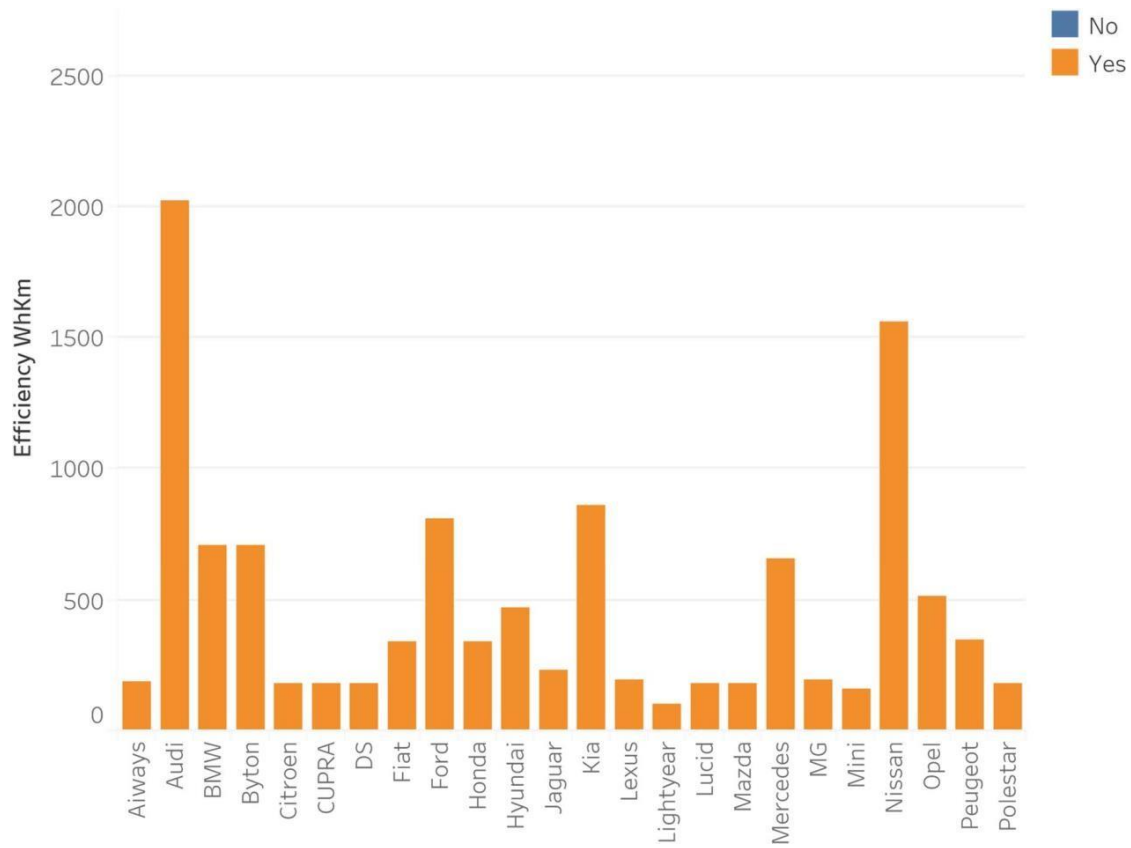


Sum of Seats for each Brand. Details are shown for Model.

# EFFICIENCY OF ELECTRIC VEHICLES IN DIFFERENT BRANDS

Brand

Rapid Charge

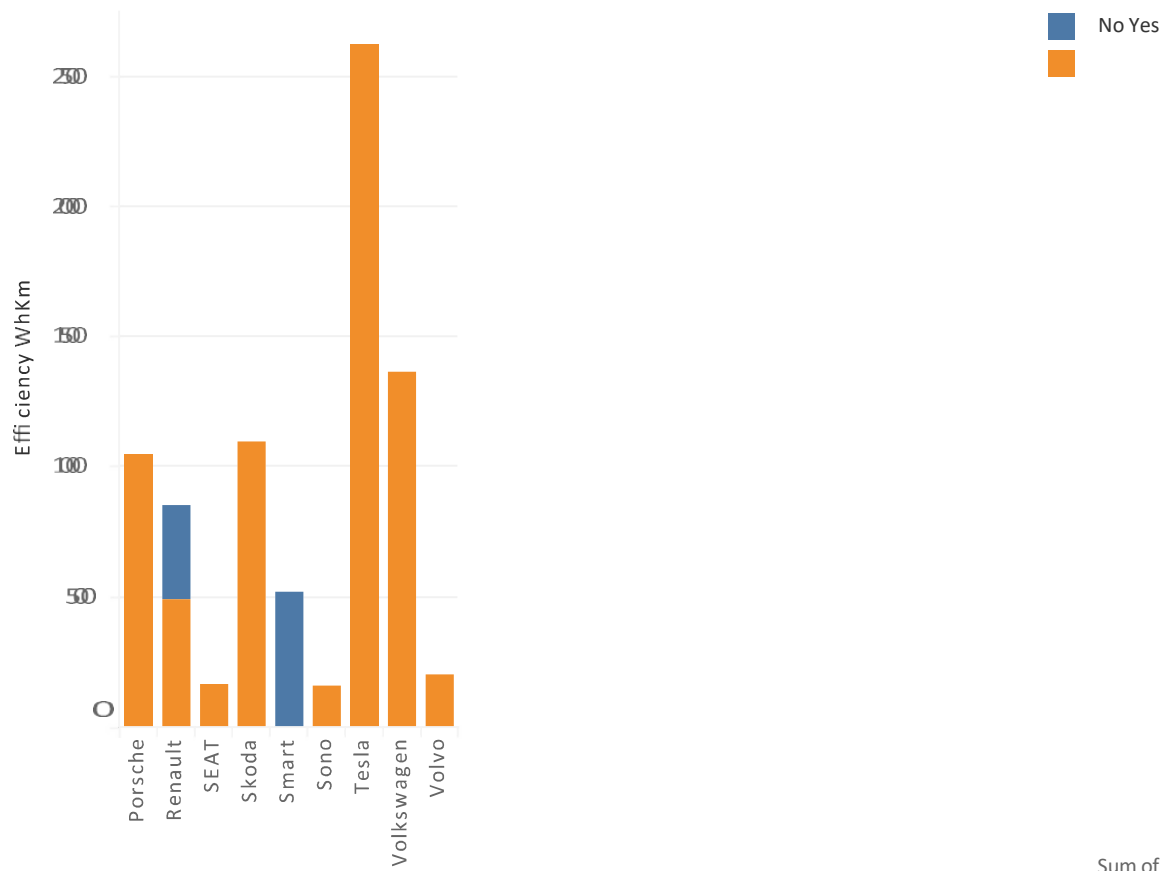


Sum of Efficiency WhKm for each Brand. Color shows details about Rapid Charge.

## EFFICIENCY OF ELECTRIC VEHICLES IN DIFFERENT BRANDS

Brand

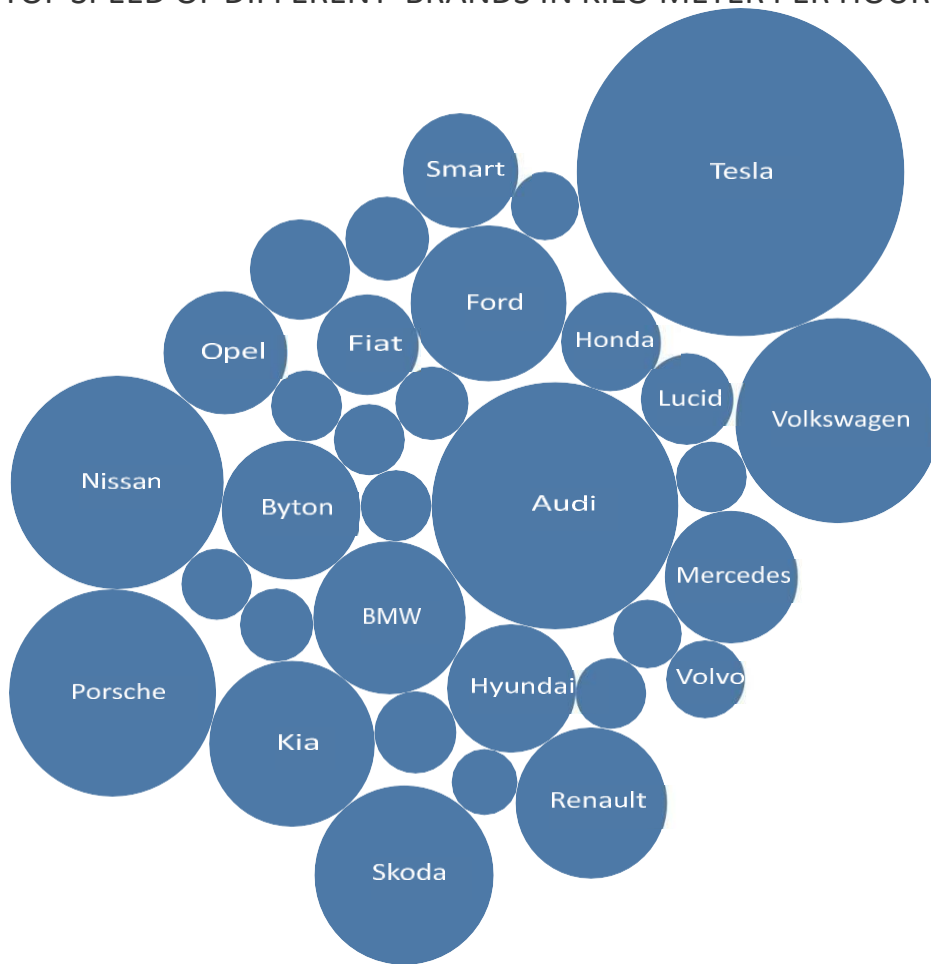
Rapid Charge



WhKm for each Brand. Color shows details about Rapid Charge.

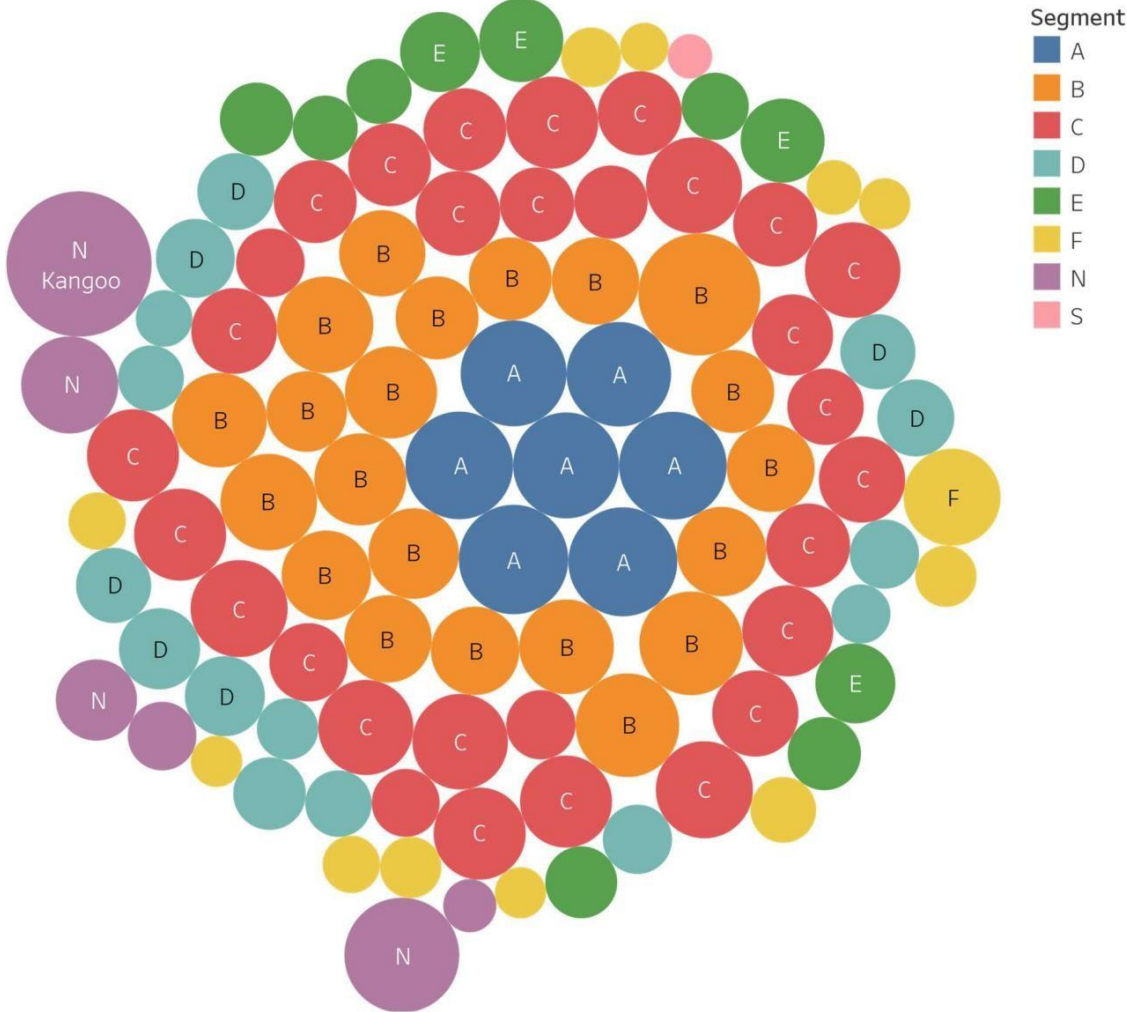
Sum of Efficiency

## TOP SPEED OF DIFFERENT BRANDS IN KILO METER PER HOUR



Brand. Size shows sum of TopSpeed KmH. The marks are labeled by Brand.

ACCELERATION OF DIFFERENT BRANDS IN INDIA



Segment, Model and Brand. Color shows details about Segment. Size shows sum of Accel Sec.  
The marks are labeled by Segment, Model and Brand.



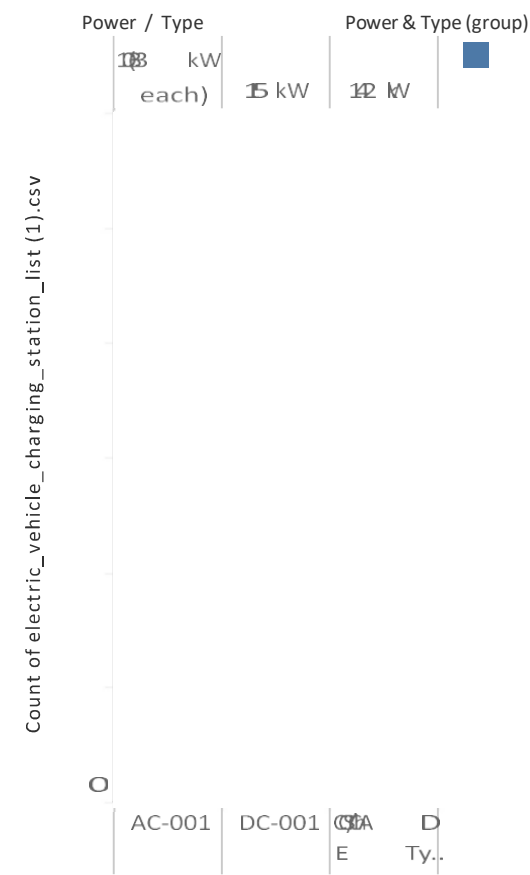
## DETAILS OF CHARGING STATIONS IN INDIA



A map of South Asia and surrounding regions, including parts of China, Mongolia, and Japan. The map is dark gray with white outlines for country borders. Labels for countries are in white text: Mongolia, China, Japan, Iraq, Iran, Saudi Arabia, Yemen, Pakistan, and India. Ten blue dots are plotted on the map, representing the study sites. These dots are located in India (one in the north, one in the central-east, one in the south, and one in the southern tip), Pakistan (one in the north), and China (one in the south). The copyright notice at the bottom left reads: © 2023 Mapbox © OpenStreetMap.

Map based on average of Longitude and average of Latitude. Details are shown for Region and Address.

# CHARGING STATION ACCORDING TO THEIR POWER IN Kw

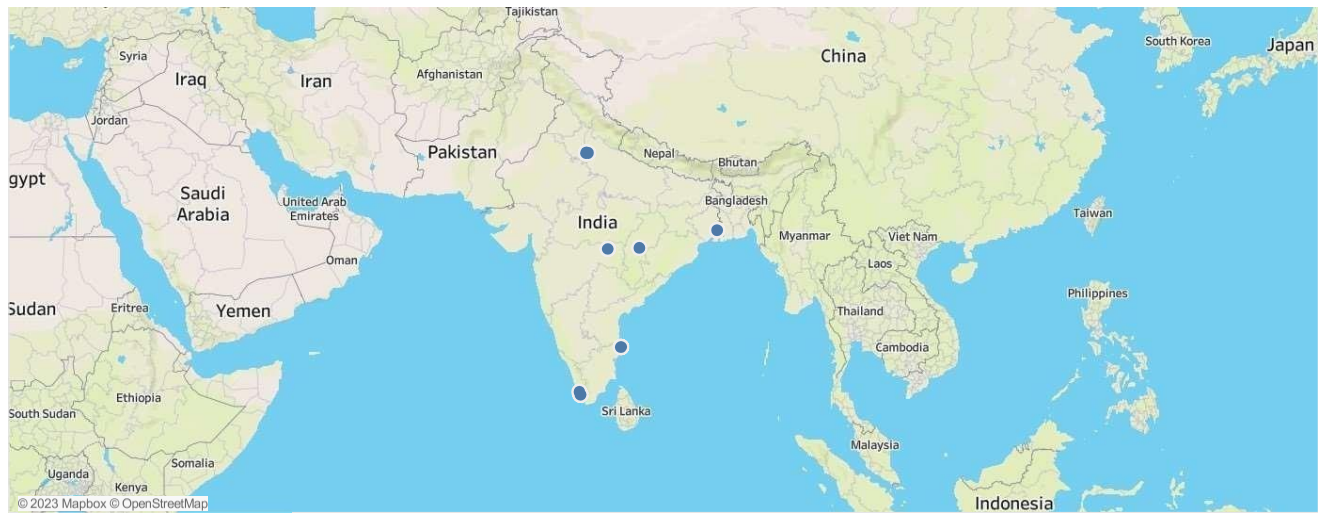


Countofelectric\_vehicle\_charging\_station\_list(1).csvforeachTypebroken downbyPower. Colorshowsdetails

about Power & Type (group).

(10(3.3 kW each), AC-001), (142kW, CCS/ChADEMO/ Type 2 AC), (15 kW, DC-001)

CHARGING STATIONS OF DIFFERENT REGIONS IN INDIA ACCORDING TO POWER IN Kw



Map based on average of Longitude and average of Latitude. Details are shown for Region and Power.