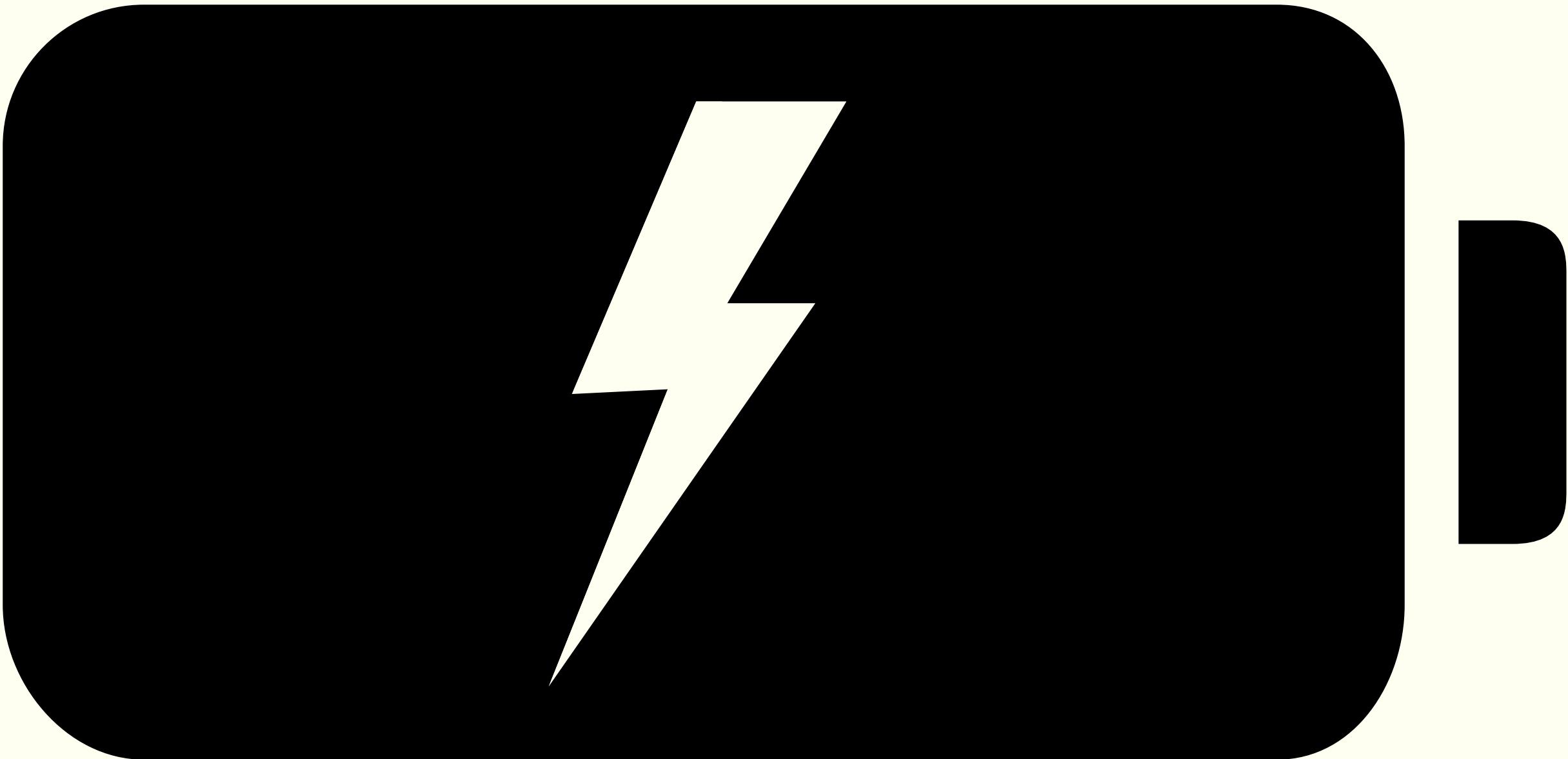


# **THE TRUTH ABOUT EVS**

# WE'VE ALL HEARD IT

“electric vehicles **aren’t REALLY** better for the environment..”



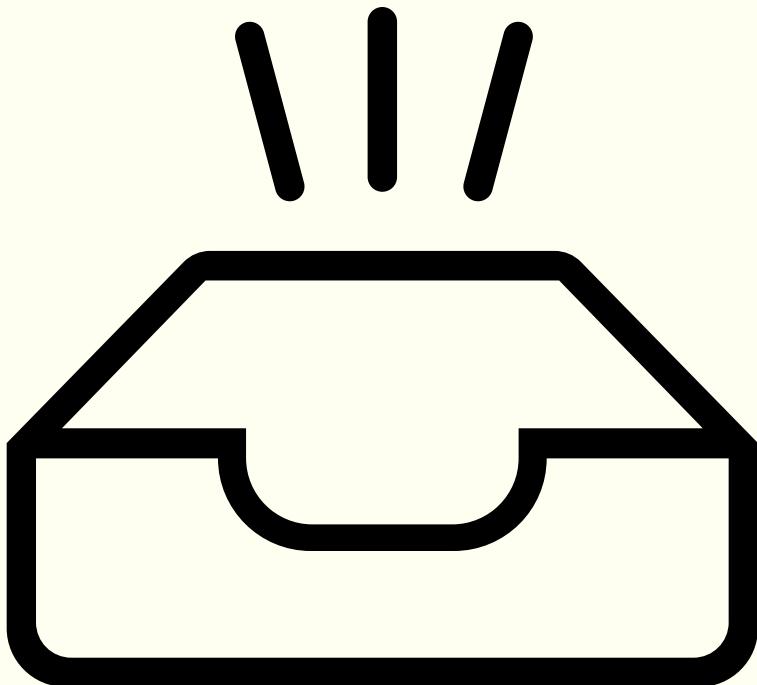


# THE LACK OF DATA

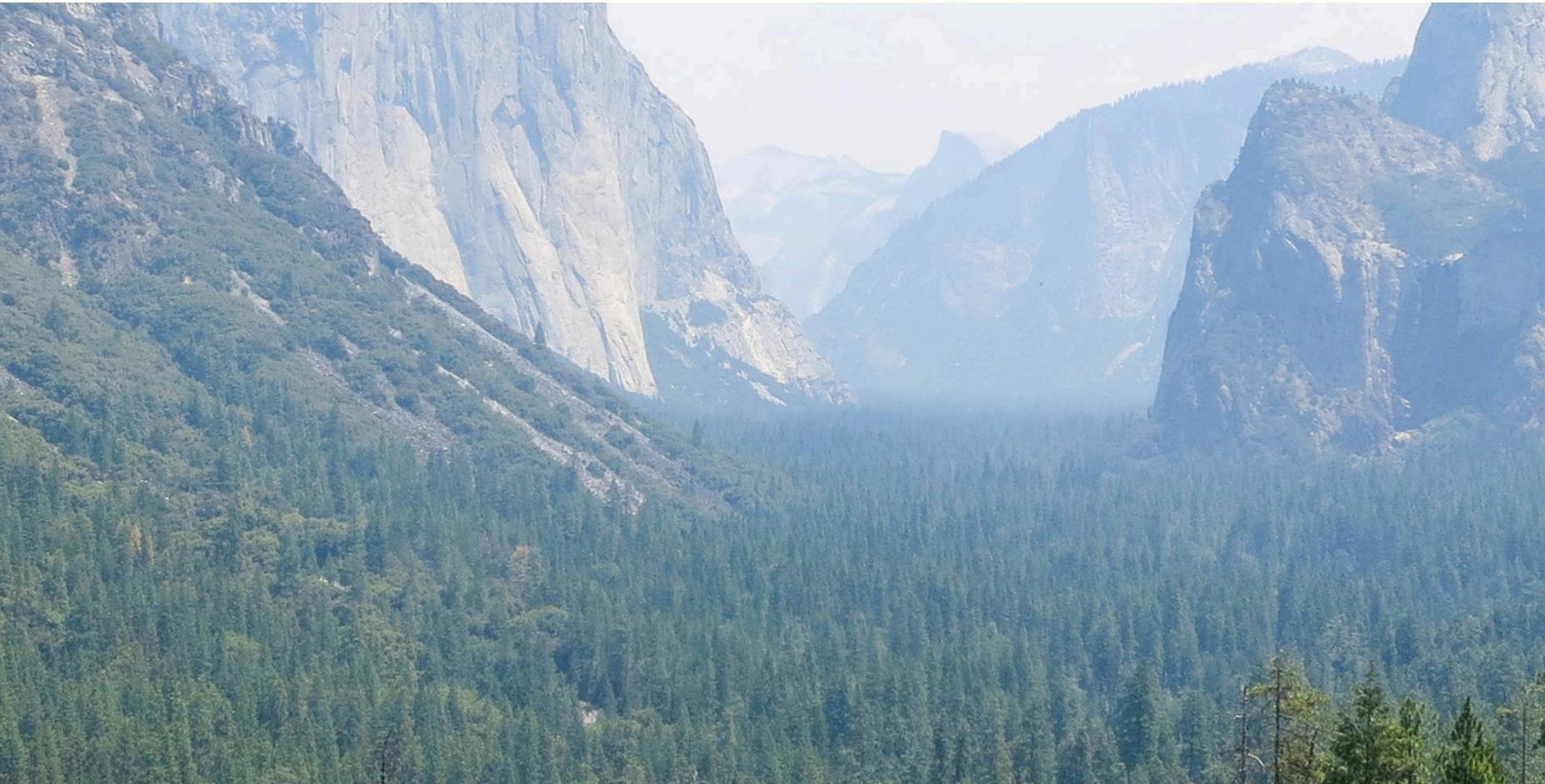
**goal: explore how  
electric vehicles  
livecycle footprint  
compares to  
gas-powered vehicles**

# THE LACK OF DATA

goal: explore how  
electric vehicles  
lifecycle footprint  
compares to  
gas-powered vehicles



# ZOOMING OUT



# ENVIRONMENTAL EFFORTS

- **stricter emissions standards**
- **improved air quality programs**

## TRANSPORTATION TRENDS IN CALIFORNIA

ALLIE PETERSON

CS150 COMMUNITY ACTION COMPUTING, WESTMONT COLLEGE

TOTAL VEHICLES

**31.1M**

in 2023

ELECTRIC VEHICLES

**0.8M**

in 2023

HYBRID VEHICLES

**3.0M**

in 2023

GASOLINE VEHICLES

**26.7M**

in 2023

### FILTERS

Fuel Types

Select fuel types

Year Range

2018 2019 2020 2021 2022 2023

### DATA SUMMARY

Years: 2018 to 2023

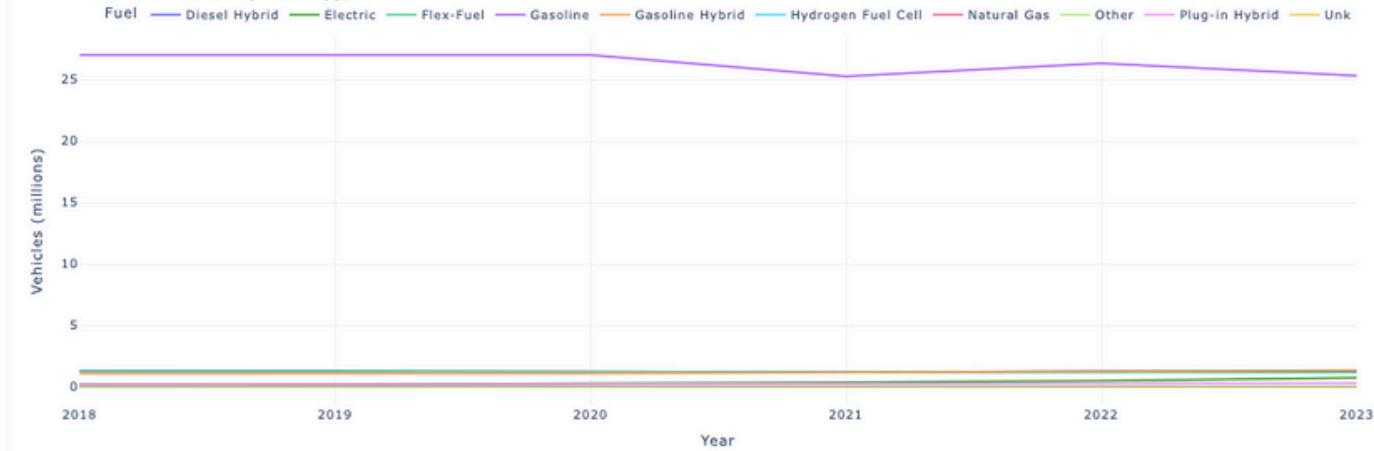
Total Vehicles: 185.27 million

Electric Vehicles: 2.43 million

Fuel Types: 10

Data Points: 55

### Vehicle Trends by Fuel Type



Fuel Composition (2023)

### Electric Vehicles and PM2.5 Trends Over Time

Ele Errors Callbacks v3.0.4 Server

# TAKE AWAYS



**EVS ARE A PART OF THE CHANGE**

**EVS ARE NOT THE SOLUTION**

# MORE TO LEARN

**CHINA  
IS THE LARGEST PROVIDER OF EV BATTERIES.  
CATL AND BYD**

# MORE TO LEARN

CHINA

IS THE LARGEST PROVIDER OF EV BATTERIES.

CATL AND BYD

PM2.5 rebounds in China in 2023, after falling for 10  
years straight



# STEWARDS OF EDEN