

# Looking Into Electric Cars

Session 1 : Intro



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**Breaking news**



We are beyond **thrilled** with the new IRS guidance that came out last week about how consumers will be able to use the federal tax credit on new and used EVs in 2024. Besides giving buyers access to the tax credit instantly, people who have lower wealth and no tax liability will also be able to benefit from the credit, giving more people access to EVs. We've included more information in this email and on our website about how the credit will work in 2024.

**This is sooooo -  
Cool !!**

**Dealer must be  
registered with  
the IRS**

***The Treasury says that "eligible consumers may transfer the full value of the new or previously owned vehicle credit regardless of their individual tax liability."***



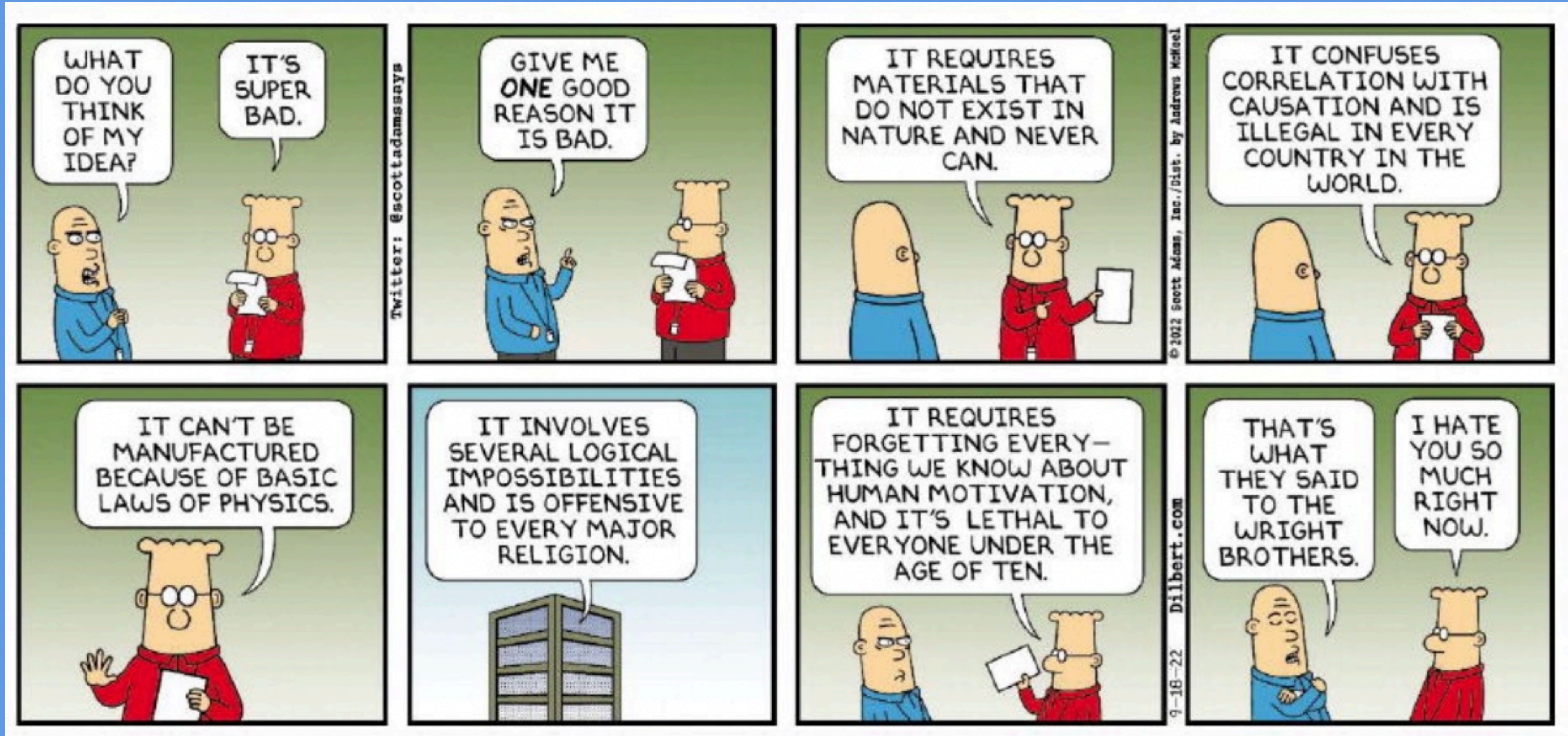
## **More than 7,000 dealers registered to offer point-of-sale EV tax credits next year**

The figure represents about 40% of the nearly 17,000 franchised dealerships selling light-duty vehicles in the U.S., according to 2023 NADA data.



# Looking Into Electric Cars

## Session 1 : Intro



This will (hopefully) be a kinder gentler version of the previous sessions. With the theme - -Don't think like gas !



# Looking Into Electric Cars

Session 1 : Intro

## How I got here



For me it started with a hybrid Subaru. After experience with several Subarus, I bought a 2014 Subaru hybrid, mostly to save some money on gas. I grew to love the electrical advantages of the car. I bought a short range EV in 2020. In December of 2021 I took delivery on my second EV (with longer range).



# Looking Into Electric Cars

# How I got here

Session 1 : Intro



I made mistakes buying each one of them.  
But I love them both (and their differences)  
I'm keeping both of them.



# Looking Into Electric Cars

Session 1 : Intro

## How I got here



After driving the BMW for a while including a range challenging trip to Bloomington, I realized community differences would have an effect on adopting Electric vehicles.

I wanted to change that and encourage change in the EV landscape and help people realize that going electric was possible and could suit their different needs.



# Looking Into Electric Cars

## Session 1 : Intro

2023 Chevrolet Bolt EV 1LT 17-inch	259	\$19 995
2023 Chevrolet Bolt EUV LT 17-inch	247	\$21 295
2023 Nissan Leaf S (40 kWh) 16-inch	149	\$29 135
2024 MINI Cooper SE Hardtop 2 door 16-inch	114	\$31 895
2023 Volkswagen ID.4 Standard 19-inch	209	\$32 790
2023 Hyundai Kona Electric 17-inch	258	\$34 885
2023 Mazda MX-30 18-inch	100	\$35 485
2023 Nissan Leaf e+ SV Plus (60 kWh) 17-inch	212	\$37 135
2023 Volkswagen ID.4 Pro 19-inch	275	\$37 790
2023 Volkswagen ID.4 S 20-inch	209	\$37 790
2023 Tesla Model 3 RWD 18-inch	272	\$38 130
2023 Tesla Model 3 RWD 19-inch	267	\$39 630
2023 Kia Niro EV 17-inch	253	\$40 875
2023 Ford Mustang Mach-E Select SR LFP RWD 18-inch	250	\$41 045
2023 Volkswagen ID.4 AWD Pro 19-inch	255	\$41 590
2023 Tesla Model Y AWD (4680) 19-inch	279	\$41 630
2023 Hyundai Ioniq 6 SE RWD Standard Range 18-inch	240	\$42 715
2023 Hyundai Ioniq 5 SE SR RWD 19-inch	220	\$42 785
2023 Volkswagen ID.4 Pro S 20-inch	275	\$42 790
2023 Toyota bZ4X XLE FWD 18-inch	252	\$43 335
2023 Tesla Model Y AWD (4680) 20-inch	269	\$43 630
2023 Kia EV6 RWD SR 19-inch	232	\$43 925
2023 Ford Mustang Mach-E Select SR LFP AWD 18-inch	226	\$44 045
2023 Nissan Ariya Engage FWD (63 kWh) 19-inch	216	\$44 525
2023 Tesla Model Y Long Range AWD 19-inch	330	\$44 630
2023 Ford Mustang Mach-E Premium SR LFP RWD 19-inch	250	\$45 045

I might show apparent bias  
I like ID.4

Like other items that will pop  
up through this series.  
Often it turns out there is a  
good reason for it.

This is a list of cars by range  
and price after tax credits.



# Looking Into Electric Cars

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<del>2023 Mazda MX-30 19-inch</del>	<del>100</del>	<del>\$25 495</del>	
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First remove EVs with a very low range

Then EVs with low DCFC charging speed.

And any EVs only available on the coasts.



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And viola

The top 3 are three different models of the VW ID4

But ultimately a car is a personal choice, each person should get what suits them.



# Looking Into Electric Cars

## Session 5: The Market Place

### List of 8 Electric Cars to Avoid Buying is Mostly Stupid

Zachary Shahan



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Clean Technica

I had to stick this one in somewhere.

I read so many bad, false, misleading junk - - and some are just stupid. I read the article referenced and this article appeared the next day.

1. Mazda MX-30
2. Tesla Model X
3. Chevrolet Bolt
4. Ford Mustang Mach-E
5. Nissan LEAF
6. Porsche Taycan
7. Hyundai Kona Electric
8. Ford Focus Electric

The list if you're curious, half are fine - the other half OK



# Looking Into Electric Cars

Session 5: The Market Place

## Two stories - Same day.

One says EV sales surging - the other EV sales are slumping

### The Electric-Vehicle Transition Is Quietly Surging Ahead

Nearly 10 percent of cars sold in 2023 were EVs.

BY RYAN COOPER JANUARY 2, 2024

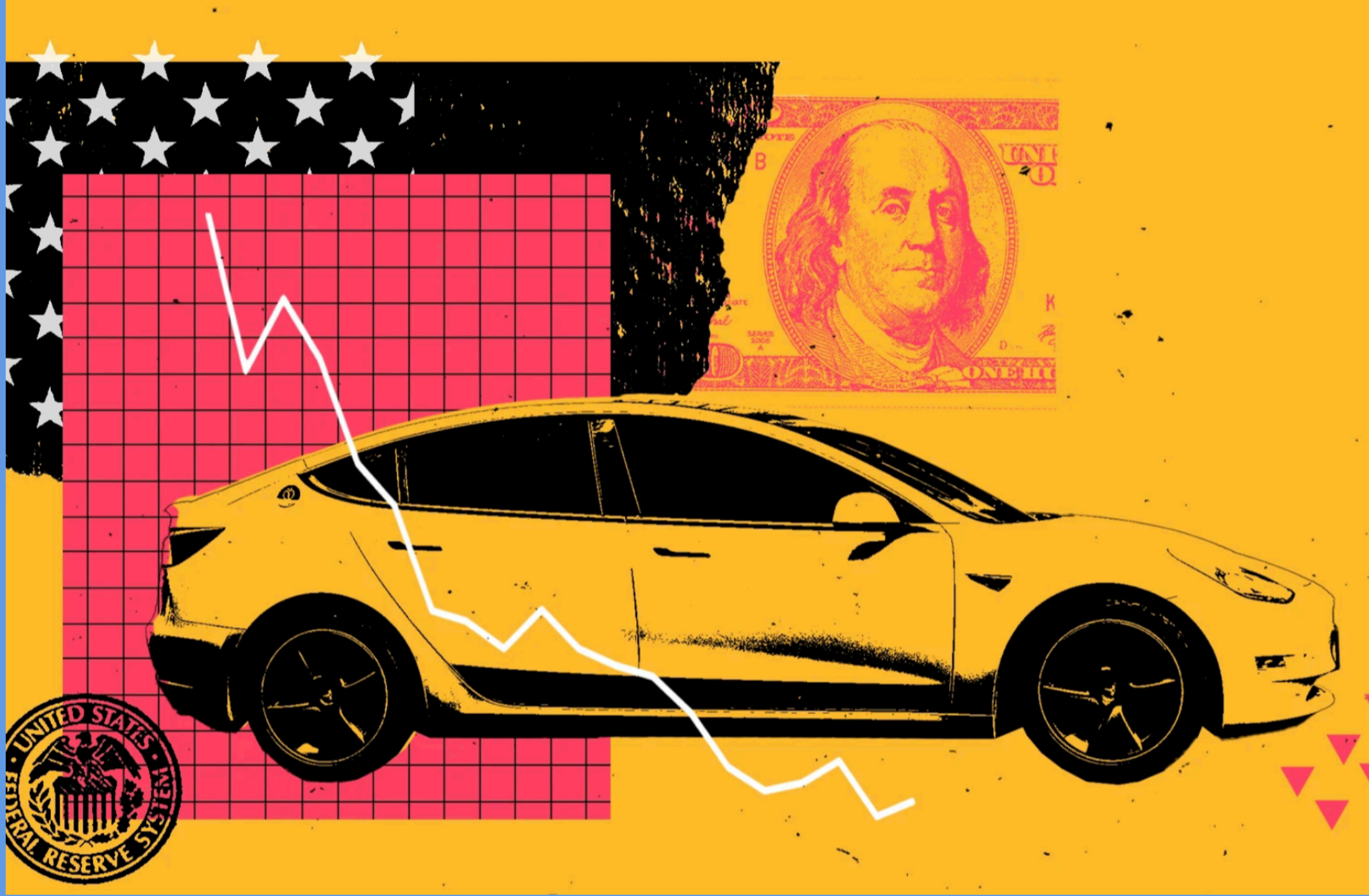
747 Shares



[prospect.org](https://prospect.org)

### What happened to EVs?

The sudden slowdown in electric car sales is a symptom of a much uglier problem.



Business Insider



# Looking Into Electric Cars

Session 1 : Intro

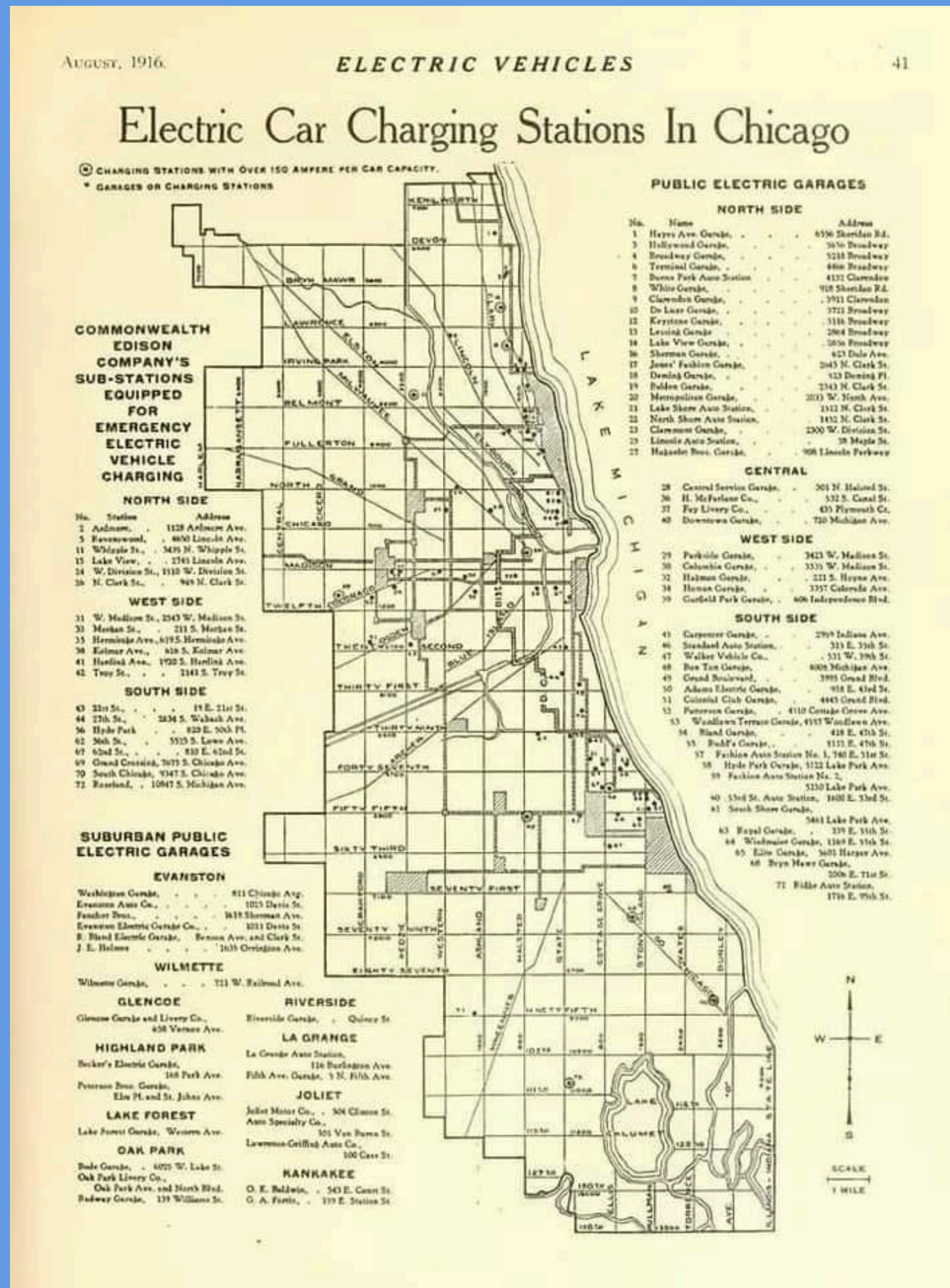
## Upcoming Sessions

- 2 Range Anxiety
- 3 Charging
- 4 Battery Secrets
- 5 Marketplace - both silly and serious
- 6 Alphabet soup Questions, Credits and Rebates  
( & things might change a little )  
( it will change a little with questions )  
( I will read the clipboard )



# Looking Into Electric Cars

## Session 1 : Intro



## The History of Electric Vehicles Is Older Than You Think

Danny Chadwick @jdannychadwick

Feb 4, 2023, 9:00 am EST | 6 min read



Year and make of this car not mentioned in article

The roots of EVs go back to the early 1800s. With the first electric car dating to about 1830.

August 1916 map of EV chargers



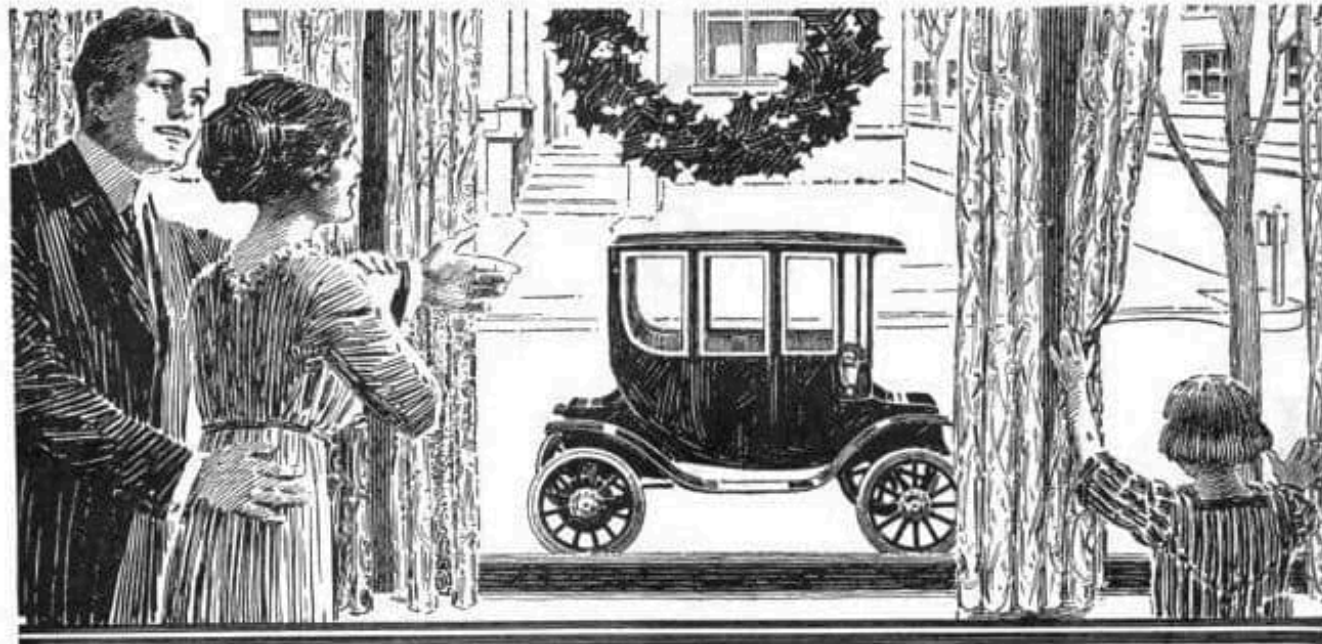
# Looking Into Electric Cars

## Session 1 : Intro

The roots of EVs go back to the early 1800s. With the first electric car dating to about 1830.

## 1912 magazine ad

AMERICAN JOURNAL OF SURGERY



### Make This the Happiest Christmas —Give Your Wife an Electric

**A**N Electric for her *very own*—what more enjoyable surprise could your wife receive on Christmas morning? Every woman longs to own an Electric. Every woman knows the comfort, convenience and heightened social prestige it gives. Why not make this year the *happiest* Christmas?

Your wife would love to drive about in her own Electric—quiet, fashionable, simple and safe. She can pay her social calls; do her shopping; attend the theatre and receptions. *You* will enjoy the luxury and convenience of it, too, in paying your professional calls.

And Christmas is the season of seasons for an Electric. The cold, biting winds and snow flurries make you feel all the cosier within an Electric. There is such exhilarating pleasure in gliding noiselessly down the boulevard, through the park, threading in and out of congested traffic—quickly, easily, without bother or effort.

Driving an Electric is simplicity itself—no trouble whatever. Any woman—even a child—can operate an Electric efficiently. The first cost of an Electric is decidedly moderate when you consider its lasting, satisfactory service. Maintenance expense and cost of power is far lower than that for other types of cars.

*Interesting literature about the Electric Vehicle sent gladly. Write today*

**Before you buy any car—consider the Electric**



**ELECTRIC VEHICLE ASSOCIATION OF AMERICA**  
BOSTON      NEW YORK, 124 W. 42nd St.      CHICAGO

Please mention the American Journal of Surgery when writing advertisers.



# Looking Into Electric Cars

Session 1 : Intro

Upcoming Theme ?

Getting into an EV and driving it ?  
Piece of cake.

Doing everything that just comes naturally with an ICE vehicle - there will be some speed bumps.

People in the 1920s who switched from EV to ICE had to give up on some EV advantages and learn the new car.

Its time to go back. Give up on gasoline thinking and let the EV run loose.



# Looking Into Electric Cars

## Session 1 : Intro

Charge door is in terrible spot.  
Terrible range in the cold.  
Constant electrical draw keeping batteries warm.  
Terrible interface.  
Climate control (pre warming) would work when it wanted to.  
Liftgate would drip water/road scum on you.  
Can't lift up wipers to scrape the snow/ice off windshield b/c they tuck under the hood for aero.  
Charge door wouldn't close due to snow/ice.  
Range guessometer... oy.  
If you have a bikerack on the hitch, expect sudden/harsh breaking as it thinks you are going to crash into something.  
Charge network *sucks*. Chargers down, chargers slow, on tech support to deal with chargers? No thanks....

**Sold our ID.4 after less than 2k miles**

[id4gone](#)



**Some people  
won't adapt to  
the differences**



# Looking Into Electric Cars

## Session 1 : Intro

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**Some of these items have nothing to do with electric. Some are easily learned adaptations.**



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**Some people  
won't adapt to  
the differences**

**Some of these items are covered in the  
owners manual.**



# Looking Into Electric Cars

## Session 1 : Intro

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~~Charge network sucks. Chargers down, chargers slow, on tech support to deal with chargers? No thanks.... --- --- --- --- ---~~

**Sold our ID.4 after less than 2k miles**

[id4gone](#)



**Some people  
won't adapt to  
the differences**

**Yep the range thing - and I will show how  
to get around that next week.**



# Looking Into Electric Cars

Session 1 : Intro



## Mini-Cooper EV

The only one that they currently plan to make. That's one vehicle - not one model



## BMW i3

I have a BMW i3 (2017)  
The Mini-Cooper is built on the same platform.

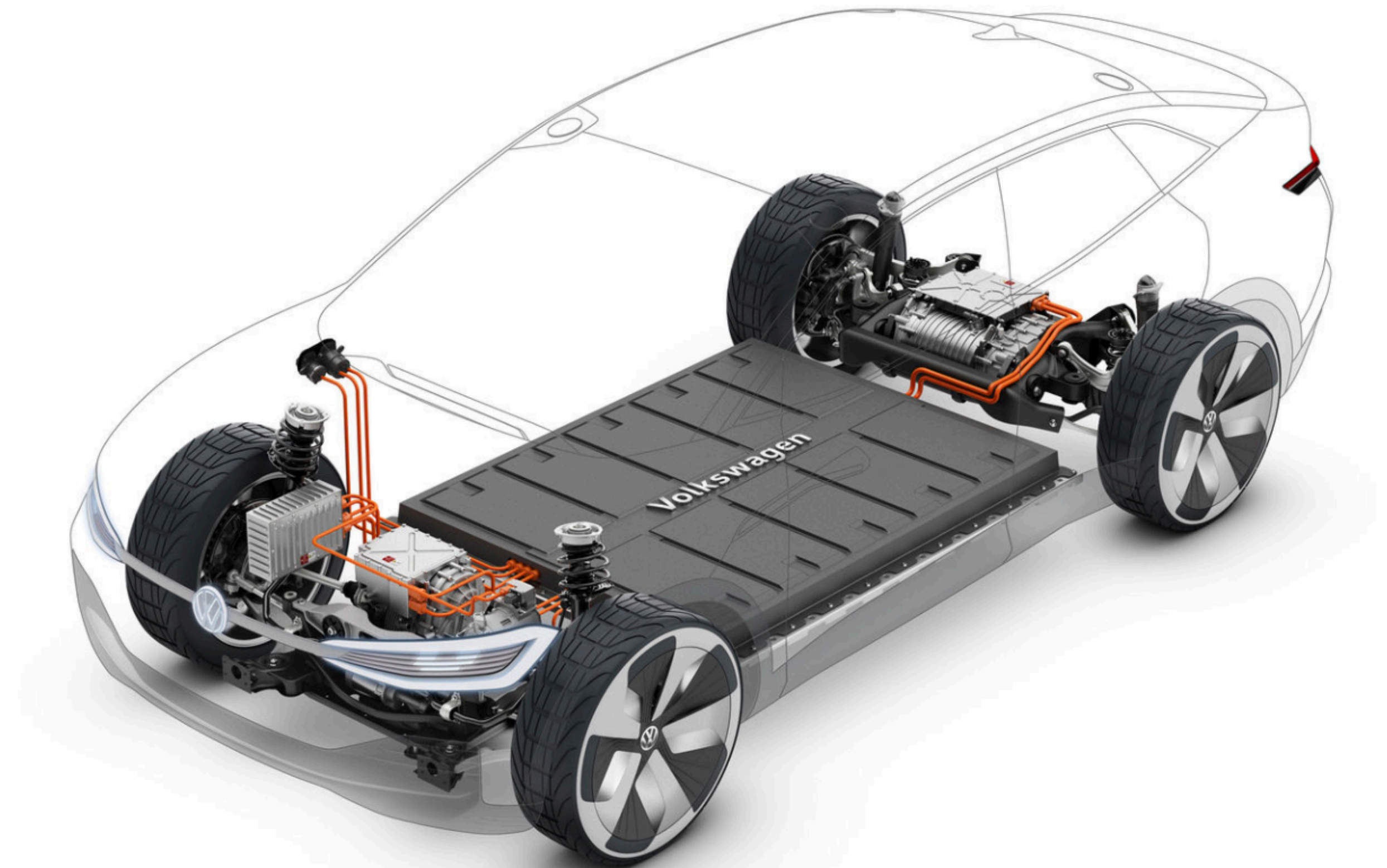
**All cars are basically the same**



# Looking Into Electric Cars

Session 1 : Intro

This is the VW MEB Platform  
All EVs are built on a similar platform and somehow manage to make very different cars.



1,600 x

Electric vehicles | Volkswagen Newsroom

[Visit](#)



# Looking Into Electric Cars

Session 1 : Intro



**Audi Q4 e-tron**

**And sometimes its  
the exact same  
platform - all of  
these are on the  
VW MEB platform**



**VW ID.4**



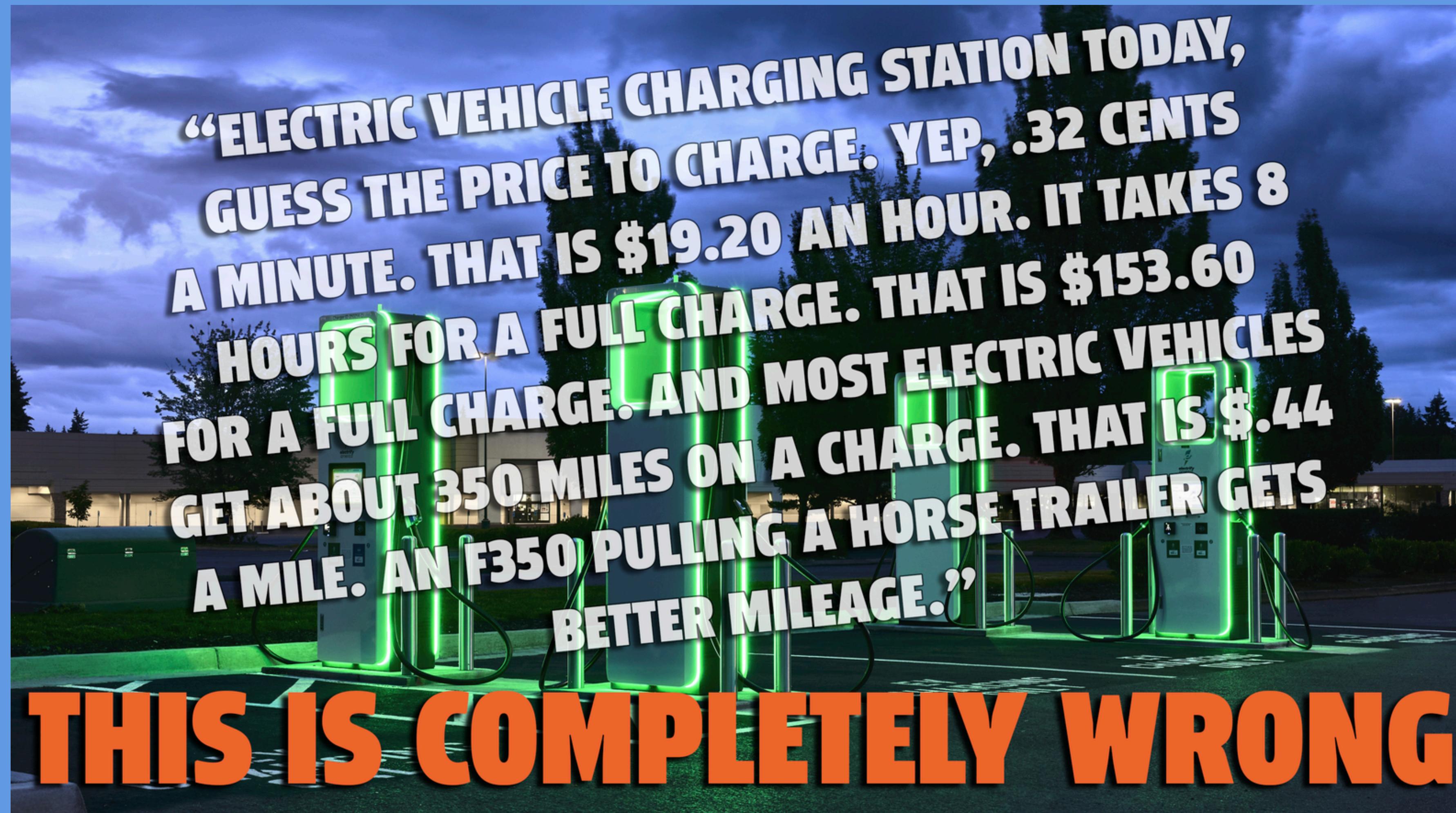
**European Ford  
Explorer  
And another  
European Ford  
is coming.**



# Looking Into Electric Cars

## A few myths

Session 1 : Intro



Recently there was another ‘proving’ an EV would be the same as \$17 a gallon without subsidies.



# Looking Into Electric Cars

# A few myths

Session 1 : Intro

6.6 kW AC	
Charging duration: May 17, 2022, 9:46 AM - 10:31 AM	
<b>Energy</b>	
4.5323 kWh @	1.13
\$0.25/kWh	
9:46:33 AM - 10:31:51 AM	
<hr/>	
<b>Total</b>	<b>\$1.13</b>



ChargePoint  
Equals about \$.08/mile

At Home I get about \$ .03/mile

Electrify America \$ .13/mile  
(Note charging speed 12 times  
faster) I consider the extra money  
well spent since I get to leave 3  
hours sooner.

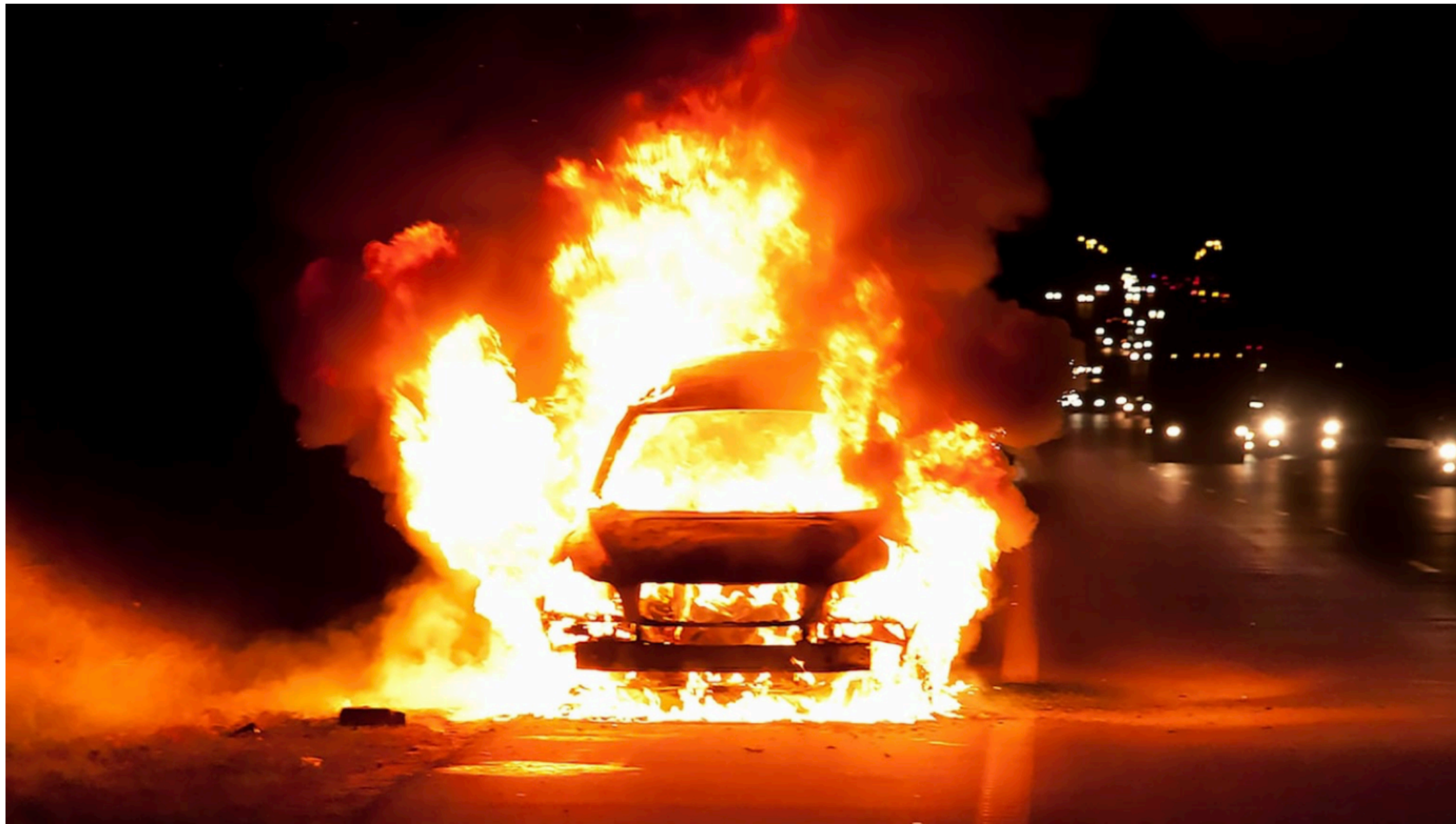


# Looking Into Electric Cars

Session 1 : Intro

## Study: Electric Vehicles Involved in Fewest Car Fires

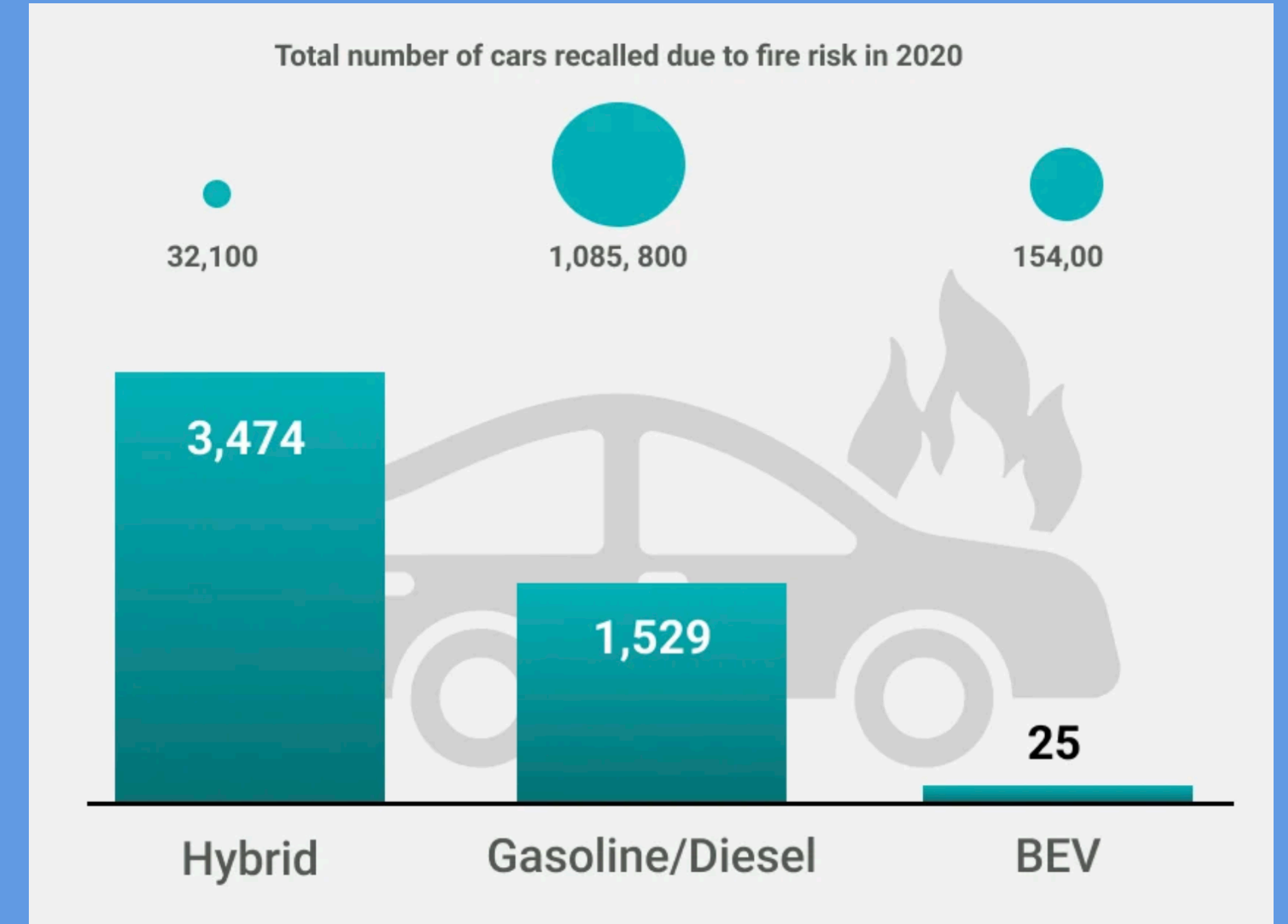
01/28/2022 9:28am



Electric cars have been subject to several high-profile recalls over fire risk. Yet, a new study shows they are less likely to cause a vehicle fire than either gas-powered cars or hybrid vehicles.

Kelley Blue Book

## A few myths



Its nice that when someone mentions an EV fire, Almost immediately there is a gas car fire I can counter with.

Note: that hybrids have the most.

[way.com](http://way.com)



# Looking Into Electric Cars

Session 1 : Intro

## 2023 Nissan Ariya Lease Prices Drop As Low As \$199 A Month

The offer is available in select East Coast cities, but the inventory is limited so you should hurry up if you're interested.



## A few myths EVs are expensive.

2023 Nissan Leaf S starts at  
**MSRP \$28,040**  
Minus the Federal Tax credit - \$7500.  
(Oops rule change)  
(Also, IL rebate \$4000 -now gone)  
(Maybe)  
So the Leaf is \$28,040 ( NEW )

Chevy Bolt 1LT \$26,500  
This price becomes \$19,000 after fed credit

This is just the purchase price and doesn't take into account the lower total cost of ownership.

InsideEVs

**A lot of things are effecting the EV market (currently a roller coaster). But EV prices will lower in the future.**



# Looking Into Electric Cars

Session 1 : Intro

## Electric car price war is coming, says Ford CEO

[Fred Lambert](#)



Ford CEO Jim Farley believes that the electric car market is going to soon enter a price war with upcoming \$25,000 models. He added, electric vehicles will be sold 100% online and have nonnegotiable price.

A few myths  
EVs are expensive.

Lower priced EVs are out there - just not currently in the US.



# Looking Into Electric Cars

Session 1 : Intro



## A few myths

**The grid can't handle the load of EV charging.**

**When home AC became popular, they said the same thing. And the grid was OK.**

**Now with V2X EVs actually help the grid.**



# Looking Into Electric Cars

## A few myths

Session 1 : Intro



**The companies that build and operate the grid want the business. They are building to supply the “electrify everything” movement. I get a time of day discount when I charge at night.**



### “The long tail pipe” -EVs powered by coal plants

**7. Electric vehicles are worse for the environment.** EVs are fundamentally more efficient than gas-powered vehicles. While a gas engine only converts **around 20%** of gasoline’s stored energy to power at the wheels, an EV motor converts about 60% to **77%** of the energy from the battery. This means that **even on a coal-powered grid**, EVs are better for the climate than gas cars.

Article on Freethink June 2022

Illinois electricity is about the national average at 25% coal.  
And the 12th cleanest in the US.



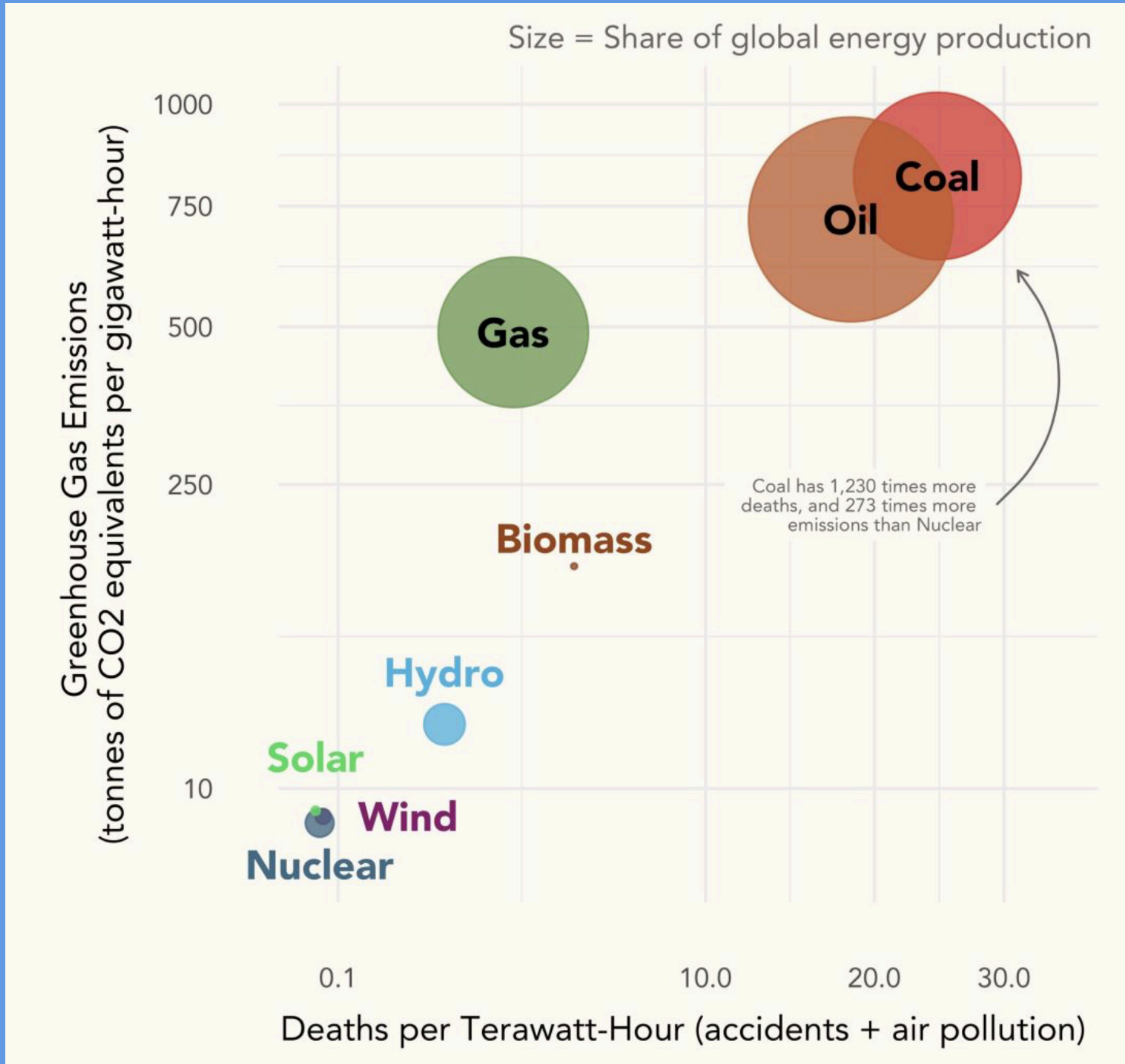
# Looking Into Electric Cars

Session 1 : Intro

## A few myths

**Pollution  
and deaths  
by various  
energy  
sources**

**But wait -  
there's  
More.**



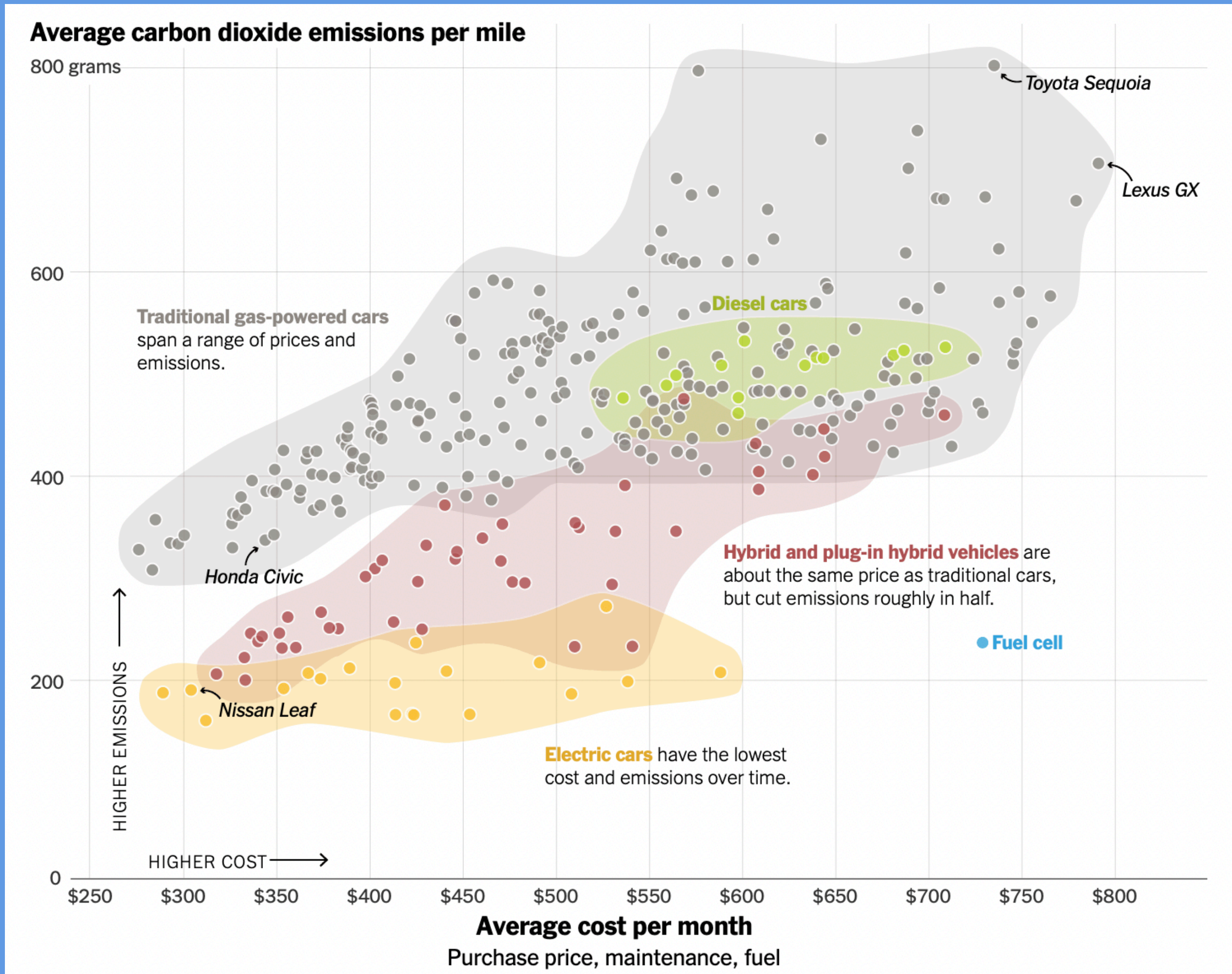
Visual Capitalist



# Looking Into Electric Cars

# A few myths

## Session 1 : Intro



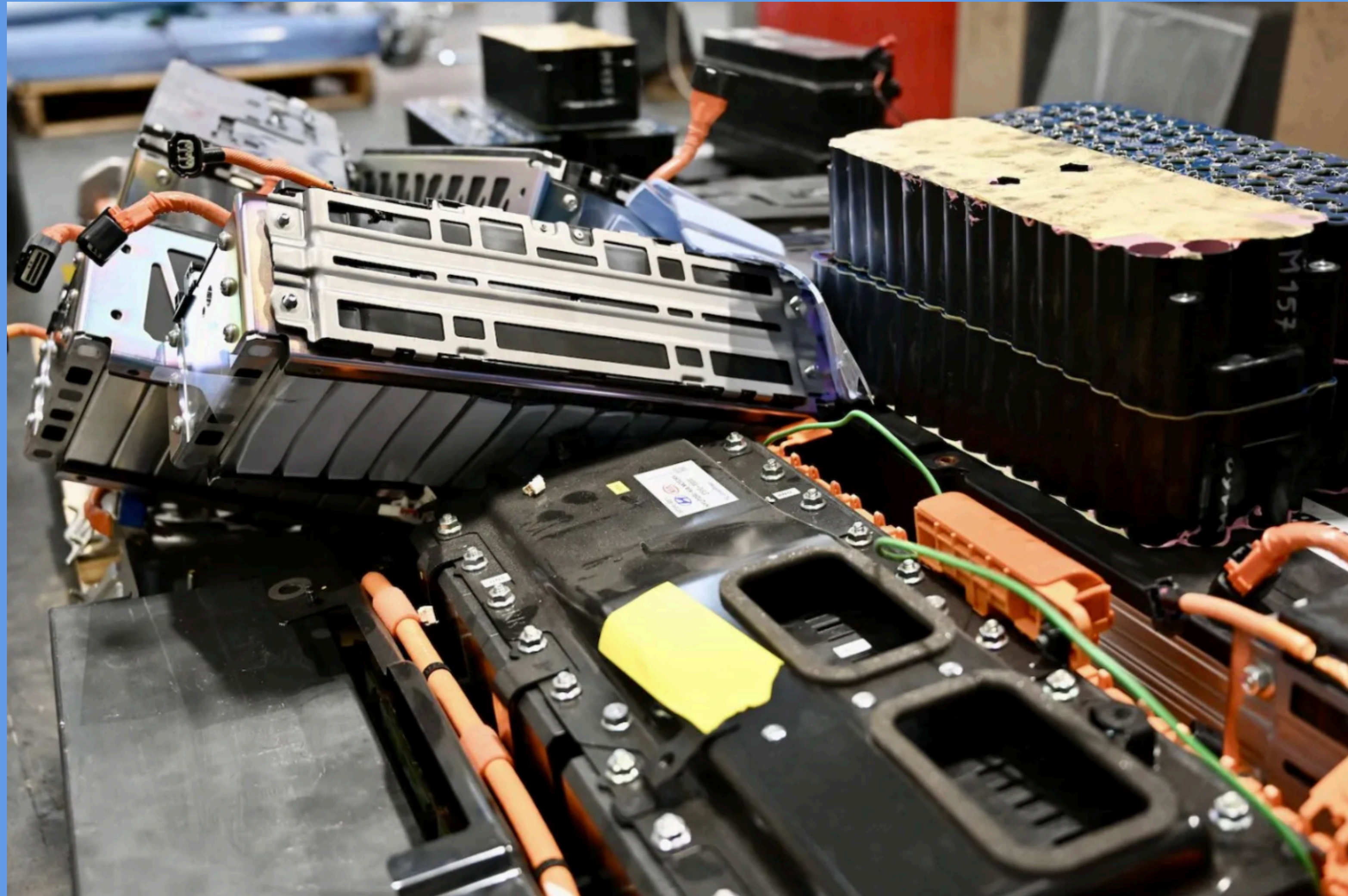
Cost is one reason to like EVs.



# Looking Into Electric Cars

## A few myths

Session 1 : Intro



**The minerals in the batteries are too valuable to throw away and will be recycled.**



# Looking Into Electric Cars

## A few myths

Session 1 : Intro

### **GMC Hummer EV Pollutes As Much As Small Gasoline-Powered Cars, Says Study**

Rhian Hunt • — Mar 9, 2023



GMAuthority

**And some are just a little misleading**

**An apple to oranges comparison that sounds OK . . . until you think about it.**



# Looking Into Electric Cars

## A few myths

Session 1 : Intro



A GMC Hummer EV weighs more than 9,000 pounds, Jennifer Homendy said, with a battery that weighs more than 2,900 pounds. The battery alone is around the weight of a Honda Civic.

Tribune

Opinion

**A waste of a good battery - if split up it could power 3 nice cars. Equal to 3 VW ID.4 batteries.**



Will show very few videos. They run sooooo long  
I will mention some and put a link in the downloads.

Most of the EV videos ramble on more than I do.  
So many of them talk and talk. After 30 minutes to an hour, you realize they  
said very little.

There was one where a gas and electric pickup truck with a huge trailer did a  
range test. No surprise the gas went farther. A surprise for me, neither truck  
made it to the destination without stopping.



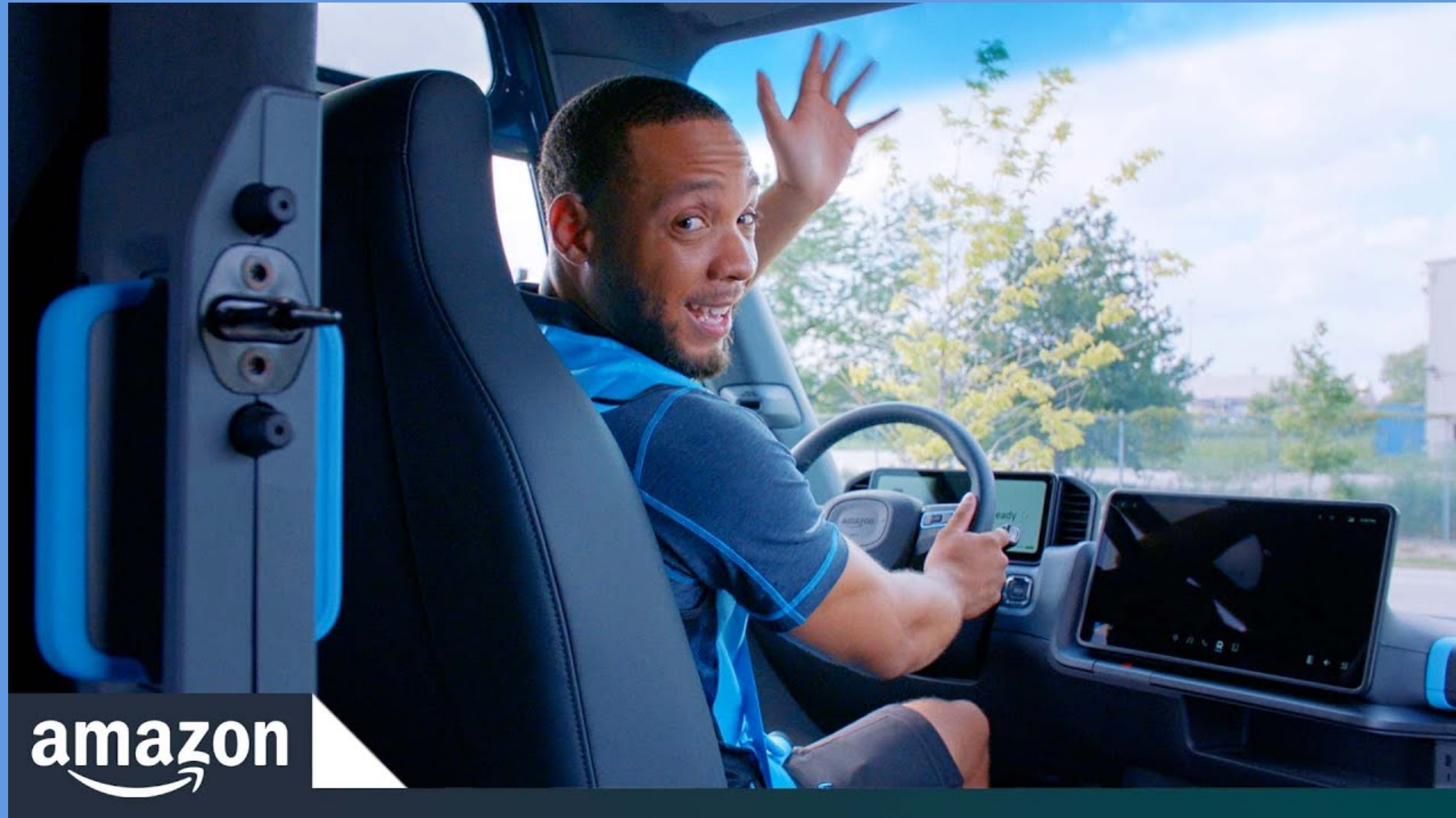
# Looking Into Electric Cars

# Why people love them

Session 1 : Intro

## Amazon Loves Their Rivian Delivery Vans

(Update EV vans have now delivered over 75 million packages)





# Looking Into Electric Cars

# Why people love them

Session 1 : Intro



Private sector fleet managers like saving money. A big item is how EVs have lower maintenance and reduced down time.

Then there is the lower energy costs. A lot of EVs have an MPGe around a hundred. MPGe is based on the energy of a gallon of gas



# Looking Into Electric Cars

Session 1 : Intro

## Amazon doubles its fleet of Rivian electric delivery vans to 10K

Jennifer Mossalgue



## Why people love them



And I saw one in  
Bradley



# Looking Into Electric Cars

## Why people love them

Session 1 : Intro



The PO has accepted the money to go EV, but is frequently changing what percentage that is .

At one time the largest private fleet of vehicles ( now second ) The federal Government is offering money to cover the cost of buying EVs to convert fleet to as close to 100% electric as possible. The little trucks that drive past my house are estimated to save \$8000 per year per vehicle when electrified.



# Looking Into Electric Cars

Session 1 : Intro

**Police chief explains how Tesla Model Y patrol car will save them \$80,000**

Fred Lambert



## Why people love them

Police cars like “last mile” delivery vehicles spend long hours in service. The long hours and miles generate large fuel savings. And large savings on maintenance costs and less downtime. Some hybrids are not available as entire production is presold to for Police cars.

**[UPDATE] Ford Kills Explorer Hybrid So It Can Keep Selling Hybrid Interceptor to Police**



“Given that driving an electric vehicle saves the average driver about \$20,000-\$30,000 over 15 years in fuel cost savings alone, I think the only thing holding back consumer demand is a lack of information about this,” he said.

WashingtonPost

Mark Z. Jacobson, renewable energy expert and  
engineering professor at Stanford



# Looking Into Electric Cars

Session 1 : Intro

## Why people love them

"They're unbelievably fast. They're unbelievably quiet. They're just effortless in terms of how they drive," he says.

Consumer Reports on NPR



EVs are better cars than gas

too quiet - Kinda bad – can scare people

too quick - Kinda bad – speed is tempting



Cost of energy - very low especially in town

Cost of maintenance - very low  
most items are per time interval not mileage.  
Things like cabin air filter and tire rotation.



**It drives better**

**Always nice and smooth**

**I like driving mine more than the Mercedes roadster convertible I used to have.**

**(But sometimes I miss the top down part.)**

**Love Hate <=> One Pedal Driving**



# Looking Into Electric Cars

## Why people love them

Session 1 : Intro

**EVs help reduce air pollution.**



Cars, trucks, and buses powered by fossil fuels are major contributors to air pollution. In fact, transportation emits more than half of nitrogen oxides in our air, and is a major source of global warming emissions in the US. ;Studies have linked pollutants from vehicle exhaust to adverse impacts on nearly every organ system in the body.



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## Experts Issue Warning About Carbon Monoxide Dangers Ahead of Hurricane Ian

Cara Murez Sep 28, 2022 Updated Sep 28, 2022



## Why people love them

**All combustion engine exhaust is still dangerous.**



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## **40% of US electricity is now emissions-free**

Good news as natural gas, coal, and solar see the biggest changes.

John Timmer - 12/28/2023, 1:12 PM



Arstechnica

## Why people love them

**Source of power for  
an EV gets cleaner  
every year.**







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### **A profound change is coming to American school buses**

Within a decade, advocates say electric school bus will supplant the old polluting ones

Michael Birnbaum • October 26, 2022 at 6:30 a.m. EDT

**Studies show that students that ride on Diesel Buses have a higher rate of respiratory illnesses including asthma.**



Driver John Walters plugs in his bus for recharging in Bethesda, Md. (Bill O'Leary/The Washington Post)



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## Electric cars may reduce severe asthma attacks, improve lung health: study

Brooke Kato



They discovered that for every 20 electrical vehicles per 1,000 people, there was a 3.2% decrease in annual emergency room visits due to asthma-related incidents.

Keck School of Medicine at USC



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**The End**



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