

# Benefits and Myths of Electric Vehicles

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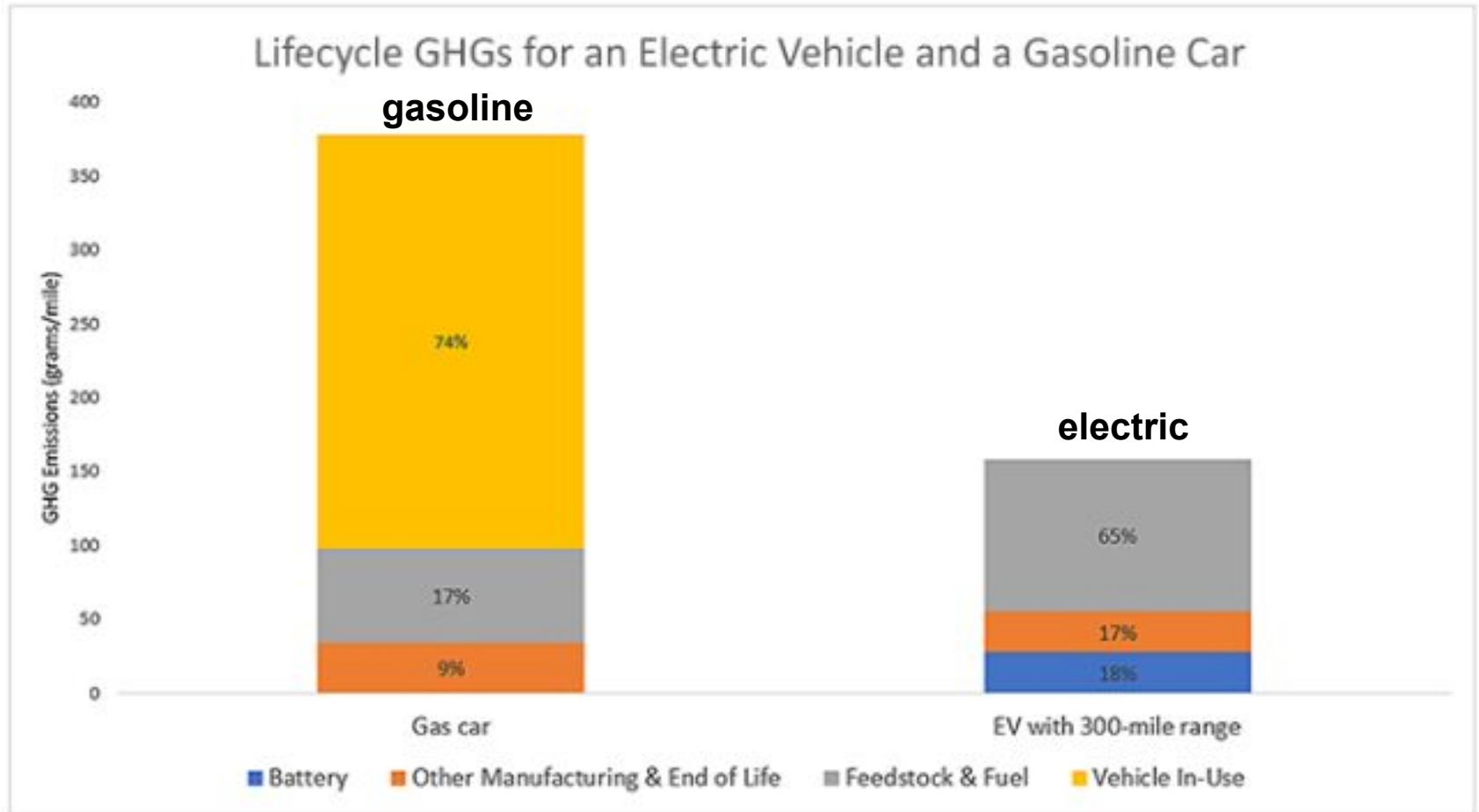
# Benefits of Driving Electric

- Clean - zero tailpipe emissions
- Lifecycle GHG emissions 60% less than a gas car (EPA)
- 90% of EV owners likely to buy again (2023 poll)
- \$7500 tax credit available on some models
- Electric 'fuel' is like gas at \$0.75 / gal
- Recharge at home
- Much lower maintenance
- Safer, 10x less likely to catch fire
- High performance. Quiet
- Nationwide fast charging network



**2023 Chevy Bolt EV**  
~\$20,000 after EV tax credit  
259 mile range

# EV Emissions: 60% Less Than a Gas Car



# Electric Vehicles Sales Are Surging

Plug-in vehicles are now **over 9%** of all US light duty vehicles sales - [Argonne National Labs](#)

“90% of EV owners say that it is ‘likely’ or ‘very likely’ that their next vehicle will be an EV.”

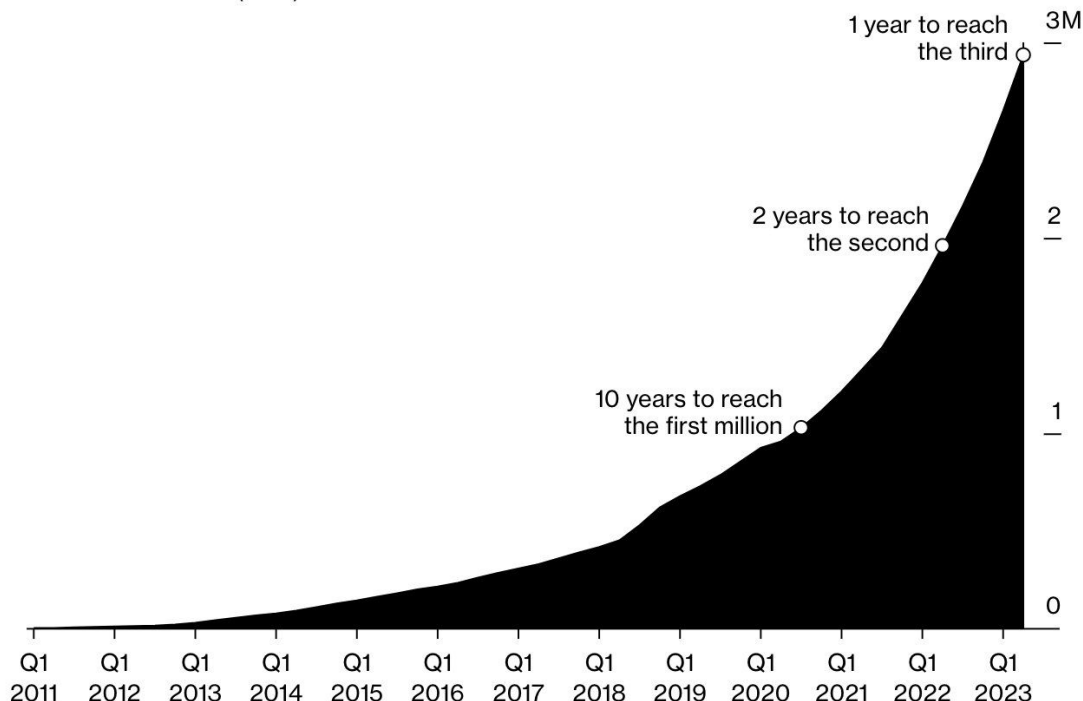
- [2023 poll](#) of 3300 EV drivers by Plug-in America.

## Fully Electric Vehicles Surge to 3 Million in US

The pace of adoption continues to accelerate

■ Cumulative sales (BEV)

**Bloomberg**

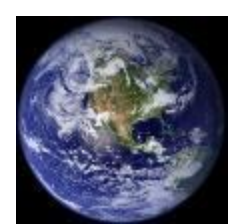


<https://www.anl.gov/es/light-duty-electric-drive-vehicles-monthly-sales-updates>

<https://pluginamerica.org/wp-content/uploads/2023/05/2023-EV-Survey-Final.pdf>

<https://rmi.org/insight/x-change-cars/>

Bloomberg: <https://t.co/WjwBmjYZG>

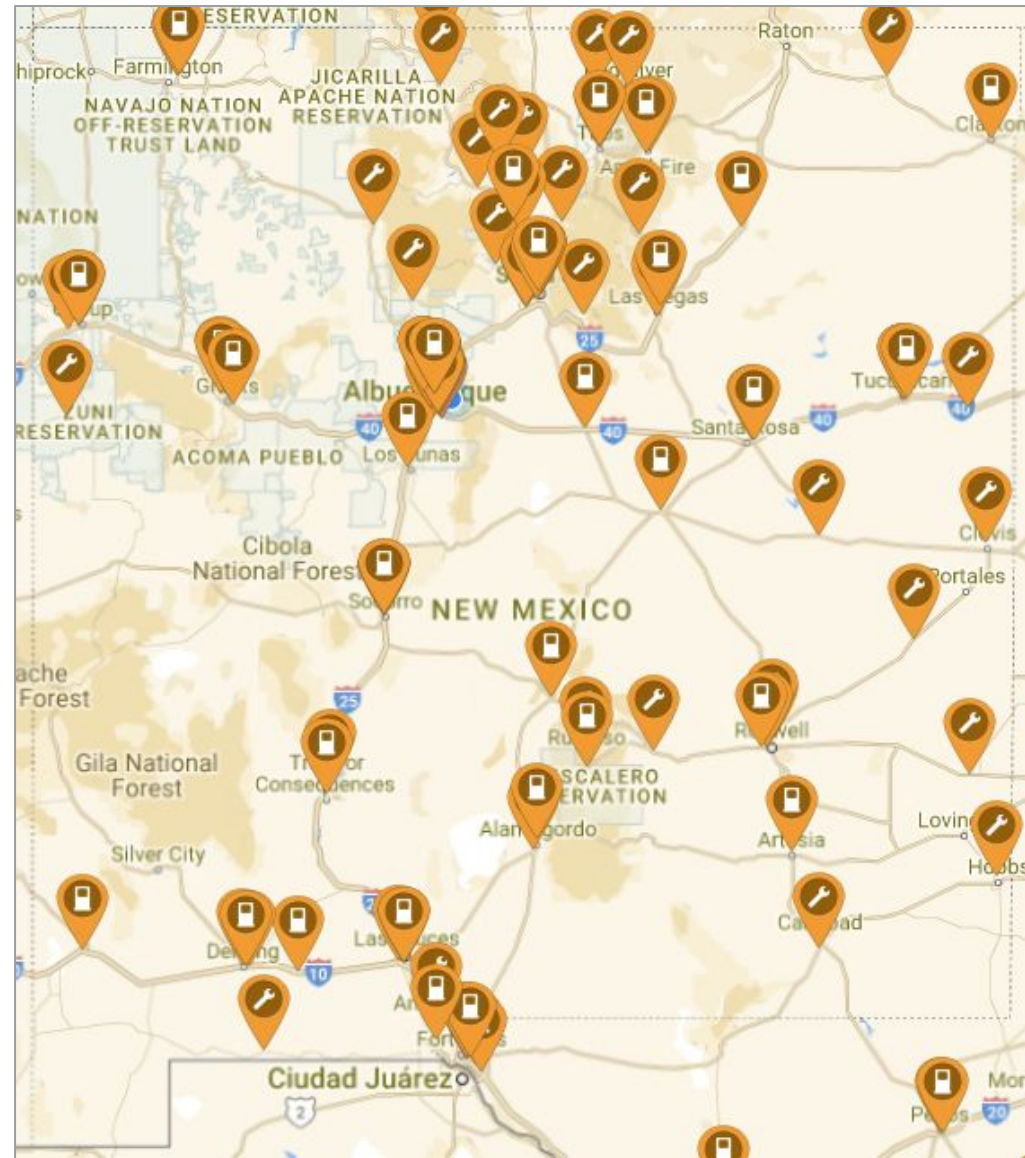


# DC Fast Charging Map for EVs

This Sept 2023 [Plugshare map](#) of the NM DC-fast charging network shows many charging stations being built.

Every icon with a wrench is a station under construction, ie the 40 charger locations [NMDOT says](#) are installing in 2023.

**The NM EV fast charging network will be solid in 2024.**



# EPA Debunks EV Myths



- Myth #1: Electric vehicles are worse for the climate than gasoline cars because of the power plant emissions.
  - a. FACT: Electric vehicles typically have a smaller carbon footprint than gasoline cars, even when accounting for the electricity used for charging.
- Myth #2: Electric vehicles are worse for the climate than gasoline cars because of battery manufacturing.
  - a. FACT: The lifetime greenhouse gas emissions associated with an electric vehicle are typically lower than those from an average gasoline vehicle, even when accounting for manufacturing.
- Myth #3: The increase in electric vehicles entering the market will collapse the U.S. power grid.
- Myth #4: There is nowhere to charge.
- Myth #5: Electric vehicles don't have enough range to handle daily travel demands.
- Myth #6: Electric vehicles only come as sedans.
- Myth #7: Electric vehicles are not as safe as comparable gasoline vehicles.

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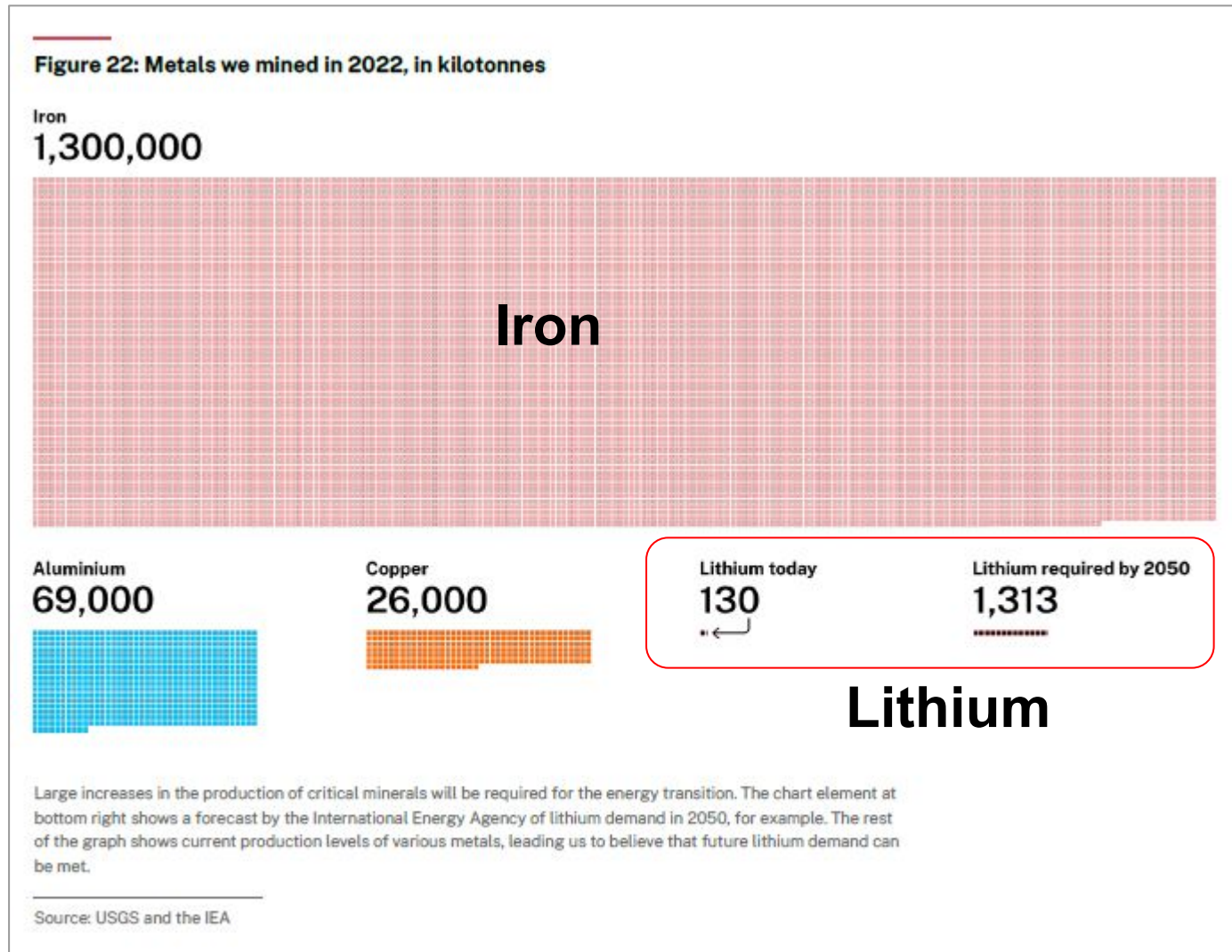
- **Also: A \$3.5 B Li-ion battery recycling plant is being built in South Carolina**
- **And: New world-class lithium deposit just discovered in Nevada**

# Lithium Mining is Only 0.09% of Metals



The Lithium we mine today and by 2050 (1,313kT\*) is tiny (0.09%) compared to other major materials mined **today** (1,395,000 kT) like **Iron**, Aluminum, and Copper.

\*Measured in kilotonnes.



# US Top Selling EV's in 2023

<b>Rank</b>	<b>Model</b>	<b>H1 2023 Sales</b>
1	Tesla Model Y	200,520
2	Tesla Model 3	112,791
3	Chevrolet Bolt	33,659
4	Rivian R1T	16,452
5	Volkswagen ID.4	16,448
6	Ford Mustang Mach-E	14,040
7	Hyundai Ioniq 5	13,641
8	Tesla Model X	13,475
9	Tesla Model S	10,106
10	Ford F-Series Electric	8,757