



ELECTRIC VEHICLE SAFETY

As we see more electric vehicles (EVs) on the road, some detractors have created myths regarding their safety. Experts conclude that **EVs are as safe as, or safer than, gas vehicles and are less prone to fires and rollover crashes.**

Rigorous Safety Testing

- EVs perform well in safety ratings and are consistently ranked as top safety picks.
- EVs sold in the U.S. must comply with the Federal Motor Vehicle Safety Standards.
- EV batteries must undergo additional testing to ensure regulatory compliance.

Durable Batteries

- EV battery packs are tightly sealed, so dust and water can't get in.
- Batteries are tested to ensure they are protected against overcharging, short circuits, water immersion, exposure to external fire, and other conditions.
- EV batteries are designed to shut down when they detect a collision or short circuit.
- Because of their batteries, EVs tend to have a lower center of gravity than conventional vehicles, making them more stable and less likely to roll over.

Less Prone to Fire

- According to data from Norway in 2025, fires in gasoline and diesel cars are more than 8 times as frequent as those in electric cars.
- EVs are less likely to experience non-crash fires than gas vehicles.
- EV charging stations do not pose an inherent fire risk. A fire while an EV is charging is very rare and can only happen if the vehicle or the charging station is damaged or defective.
- Specialized training helps firefighters control EV fires quickly and effectively.
- Gas and diesel vehicles catch fire every day. Because EVs are a newer technology, EV fires make the news. But a vehicle catches fire about every 3 minutes in the United States, and the vast majority are gas vehicles.

Plug In America is a national nonprofit that has been working to accelerate EV adoption through education, advocacy, and research for over 17 years. We represent EV drivers nationwide.

Visit pluginamerica.org/learn/ev-safety/ for sources and more information.