Plug In America

Electric Vehicle Fire Safety

In every major study, fires in EVs are less likely than fires in gas and diesel vehicles

Electric drivetrain technology has advanced rapidly over the last decade, and accurate, up-to-date statistics on EV fires are limited. Sensationalized media coverage of EV fires makes them seem more frequent than they actually are, and misinformation about EV fires has real policy consequences. Some municipalities and fire departments are restricting EV charging for communities that need it most.

Plug In America compiled and analyzed electric vehicle (EV) fire safety data in the largest EV fire frequency study to date. Together, the sources cover more than 30 million gas and diesel vehicles and close to 9 million EVs across four countries, one city, and one vehicle manufacturer globally.

Gas vehicles are more likely to catch fire

For every EV fire, the likelihood of gas and diesel vehicle fires is:

Likelihood of gas and diesel cars to catch fires compared to EVs



Key findings

- EVs are less likely to catch fire than gas vehicles. This finding is consistent worldwide across all of the major datasets.
- EVs present a lower fire risk than gas vehicles: For every 100,000 vehicles, gas car fires were more frequent.

Read the full report at: pluginamerica.org/survey/electric-vehicle-fire-safety or scan the QR code.

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.