

ELECTRIC VEHICLE SAFETY PRINCIPLES

Alliance for Automotive Innovation (Auto Innovators) members are dedicated to vehicle safety for consumers and other road users, including for electric vehicles (EVs). Although fires in EVs occur at lower rates than in vehicles with traditional internal combustion engines, the auto industry is focused on further reducing potential EV battery fire-related incidents and mitigating their impact when they occur. To guide and advance the industry's important work in this area, Auto Innovators puts forward the following EV safety principles.

Design and Testing:

Auto Innovators members continue to design thoughtfully and conduct thorough testing, from individual battery cells to full vehicles, reducing the potential for thermal events in EVs. This includes rigorous thermal, electrical, and mechanical testing and analysis to help minimize the chances of vehicle-related fire incidents and to help protect people against electric shock. As these vehicles continue to enter the market, auto companies are dedicated to advancing EV design and testing processes to further improve EV safety.

Safety Standards:

Auto Innovators members are committed to collaborating with regulators, research institutions, international standards organizations, and other stakeholders to expand and enhance EV safety standards and best practices. The industry also remains dedicated to engaging with policymakers and to providing important technical expertise to support the development of future EV battery safety regulations.

Training for First Responders:

Auto Innovators members engage in information sharing with first responders to educate and train them on how to interact with EV technology. This includes providing the National Highway Traffic Safety Administration with model-specific Emergency Response Guides for safer interactions with EVs and contributing to the development of best practices when responding to EV-related incidents.

Education for Consumers:

Auto Innovators members will continue to educate consumers on proper maintenance of EVs. Manufacturers will also continue to work with government, mobility partners, and public safety organizations to identify additional opportunities for simple, coordinated messages for the public on EV safety.

Research:

Auto Innovators members remain committed to R&D for next-generation EV technology, such as battery management systems and software, thermal management strategies, and advanced materials and chemistries. Industry will continue to support research in coordination with first responders on addressing EV incidents and ensuring they have the best available information for EV response.