



## Standardization Roadmap for Electric Vehicles – Version 2.0

### KEY MESSAGES FOR EV USERS

The *Standardization Roadmap for Electric Vehicles – Version 2.0*, developed by the American National Standards Institute (ANSI) Electric Vehicles Standards Panel (EVSP), tracks progress to implement recommendations made in the roadmap version 1.0, released in April 2012, and identifies additional areas where there is a perceived need for standardization work to help facilitate the safe, mass deployment of electric vehicles (EVs) and charging infrastructure in the United States.

The roadmap's primary focus is light duty, on-road plug-in electric vehicles that are recharged via a connection to the electrical grid, and comprises an assessment of the current standardization landscape as well as needs and recommendations for activity in three broad domains: vehicles, infrastructure, and support services.

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- Electric vehicles offer the potential to significantly reduce the United States' use of imported oil, create a multitude of well-paying jobs, and reduce on-road vehicular emissions. The demand from both regulators and consumers for "greener" vehicles must be met.
  - The updated roadmap assesses the relevant standards, codes, regulations, conformance and training programs necessary to satisfy EV user requirements. This includes a review of progress to address previously identified gaps, revisions to some of the earlier recommendations, expanded text and new recommendations, and review of timelines and organizations that may be able to carry out the work.
  - Priority concerns that may be interfering with the acceptance of EVs are identified, and their standardization needs addressed. These include issues of cost, the unique safety complexities of EVs, interoperability and convenience of charging options, and performance.
  - A key focus of the roadmap is the establishment of an interoperable charging infrastructure to mitigate the current range limitations of plug-in EVs on battery power alone.
  - The roadmap also outlines standardization needs for comprehensive support services sector, including training of emergency first responders, vehicle technicians, electrical installers and inspectors, as well as education of authorities having jurisdiction, building owners, and consumers.
  - The roadmap was developed by a collaborative effort of participants from the automotive, utilities, and electrotechnical sectors, standards developing organizations (SDOs), and government agencies.
  - Coordination and harmonization efforts among international standardizing bodies since publication of the original roadmap are also addressed to help foster innovation and grow global markets for EVs.

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