



Standardization Roadmap for Electric Vehicles – Version 2.0

KEY MESSAGES FOR TECHNICAL EXPERTS

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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- 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.
 - Issues within seven broad topical areas are identified: energy storage systems, vehicle components, vehicle user interface, charging systems, communications, installation and education and training.
 - Priority concerns that may be interfering with the acceptance of EVs by the general public 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.
 - The roadmap was developed by a collaborative effort of participants from the automotive, utilities, and electrotechnical sectors, standards developing organizations (SDOs), and government agencies.
 - Also updated is the *ANSI EVSP Roadmap Standards Compendium*, a searchable spreadsheet which lists standards that are directly or peripherally related to the issues described in the roadmap.
 - The deployment of EVs in the United States will be shaped by the standards activities of a number of SDOs, both U.S.-based and non-U.S. based, as well as related conformance and training programs, other cross-sector initiatives, and codes and regulations.
 - 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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