Medium- and Heavy-Duty Zero-Emission Vehicle Infrastructure Standards

Online Resource

Guidance Document

Project Background

Given the fast deployment timeline and the participation of numerous stakeholders, California faces challenges of scale and interoperability for electric charging and hydrogen fueling of medium- and heavy-duty zero-emission vehicles (MD/HD-ZEVs). Ideally, standardization should take place early in the process to ensure mass market success and universal expansion on necessary timelines. While limited-scope State efforts exist that incorporate some charging and fueling infrastructure standardization considerations (e.g., the Vehicle-Grid Integration Group and the CDFA Division of Measurement Standards), a comprehensive study on MD/HD-ZEV electric charging and fueling standards is not available in the context of MD/HD-ZEV adoption to meet State's goals. To provide market certainty, protect State investments, streamline heavy-duty transformation, and support accelerated early deployment, this project will conduct a holistic assessment of all standards and policies in order to expedite standards development and adoption for MD/HD-ZEV charging and hydrogen fueling. This project is funded by the California Air Resources Board under contract 20MSC006.
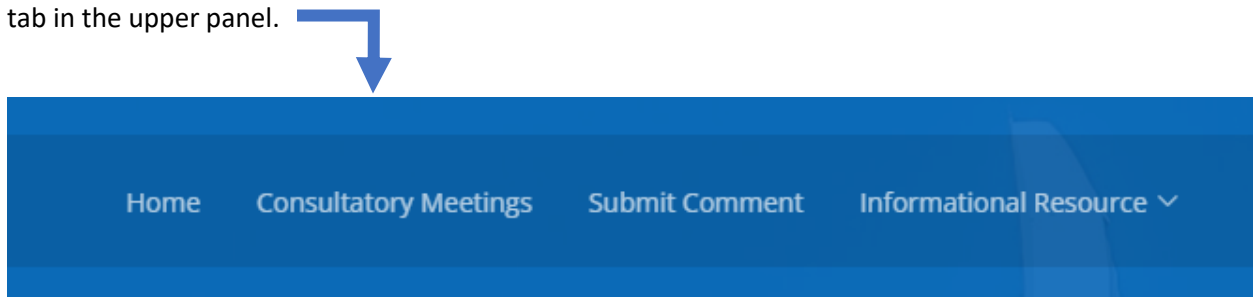
Online Resource Overview

The online posting provides an overview of the role and status of charging and hydrogen refueling standardization. The goal of the resource is to give guidance to government and stakeholders on standardization so that they can make informed decisions on subjects such as new regulations, vehicle deployment, infrastructure planning, and State support. The online posting will also host the white paper as a part of this project.

How to Navigate

The **website home page** is location at: www.apep.uci.edu/mhdv

Presentations given to stakeholders during the project can be found under the **"Consultatory Meetings"** tab in the upper panel.

Comments will be accepted until April 2024.

The **informational resource** is divided into sections based on key topics, which can be found under the upper right panel dropdown menu.

Each section provides an overview of the existing technologies, codes and standards. It further provides link to related resources that may be of interest.
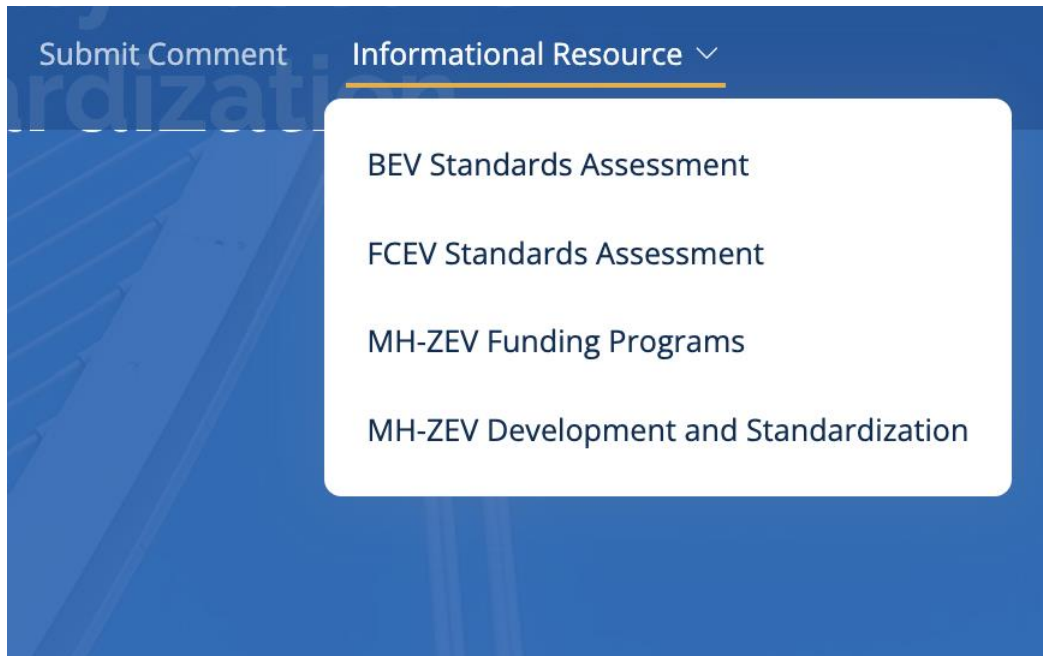

Figure: Informational Resource Sections

Once published the **white paper**, which serves as the project's final report, will be found: **www.apep.uci.edu/mhdv/whitepaper**