TRB Snap Search: Electric/Alternative Fuel Vehicles

TRB's involvement in research on Electric/Alternative Fuel Vehicles from 2021-2024

The Transportation Research Board (TRB) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: http://www.trb.org/InformationServices/Snap.aspx

TRB Research

TRID – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view search results on TRB published research on Electric/Alternative Fuel Vehicles within the past two years

Specialty Report

- Critical Issues in Transportation for 2024 and Beyond
- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Recent Reports & Publications

- Airport Cooperative Research Program (ACRP)
  - Report 236 - Preparing Your Airport for Electric Aircraft and Hydrogen Technologies
  - Report 130 - Airport-Centric Advanced Air Mobility Market Study

- Behavioral Traffic Safety Cooperative Research Program (BTSCRIP)
  - Research Report 9 - E-Scooter Safety Toolbox
  - Research Results Digest 1 - E-Scooter Safety: Issues and Solutions
  - Web-Only Document 5 - E-Scooter Safety: Issues and Solutions

- National Cooperative Highway Research Program (NCHRP)
  - Report 924 - Foreseeing the Impact of Transformational Technologies on Land Use and Transportation
  - Synthesis 597 - Micromobility Policies, Permits, and Practices
  - Synthesis 605 - Electric Vehicle Charging: Strategies and Programs

- Transit Cooperative Research Program (TCRP)
  - IDEA Report 99 - Bike Love
  - IDEA Report 96 - Multi-stage Planning for Electrifying Transit Bus Systems with Multiformat Charging Facilities
  - Report 230 - Transit and Micromobility
  - Report 219 - Guidebook for Deploying Zero Emissions Transit Buses
  - Synthesis 165 - Customer Education and Awareness of On-Demand Mobility

- Transportation Research Circulars
  - E-Circular 288 - Innovations in Freight Data: 2023 Workshop
Current & Upcoming Projects

Current Projects
- ACRP 03-71 - Guidelines for Planning for Future Electric Vehicles Growth at Airports
- ACRP 10-33 - Incorporating Emerging Transportation and Ground Access Technologies at Airports
- NCHRP 19-21 - Selecting Revenue Models for Electric Vehicle Charging
- NCHRP 19-23 - Revenue-Related Strategies for New Mobility Options
- NCHRP 20-123(16)A - Roadmap for the Transformation to Computer Simulation-Based Assessment of Bridge Railings
- NCHRP 25-66 - Reviewing the REMEL Noise Database to Accommodate the Current Vehicle Fleet
- TCRP Synthesis I-07/Topic SA-60 - Examination of Transit Agency Coordination with Electric Utilities

Upcoming Projects
- ACRP 03-75 - Preparing for Hydrogen at Airports
- NCHRP 19-22 - Equity Impacts of Transportation Revenue Mechanisms and Changing Trends
- NCHRP 19-26 - Modernizing Fuel Tax Revenue Forecasting
- NCHRP 22-61 - Crashworthiness of Roadside Hardware Impacted by Battery Electric Vehicles
- TCRP A-50 - Practical Considerations for Developing Transition Plans to Zero-Emission Fleets
- TCRP E-14 - Lithium-Ion Battery Transit Bus Fire Prevention and Risk Management

Reports from the National Academies Press on Electric Vehicles
- Options for a National Plan for Smart Manufacturing
- Future Directions for Southern Ocean and Antarctic Nearshore and Coastal Research
- Oil in the Sea IV: Inputs, Fates, and Effects
- Navigating an Electric Vehicle Future
- The Future of Electric Power in the United States
- Assessment of Technologies for Improving Light-Duty Vehicle Fuel Economy—2025-2035
- Powering the U.S. Army of the Future
- Enhancing Federal Clean Energy Innovation

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
- AMS30 - Transportation Energy
- AMS40 - Alternative Fuels and Technologies
- AP020 - Innovative Public Transportation Services and Technologies
- AP050 - Bus Transit Systems
- AR020 - Rail Rolling Stock and Motive Power
- AR030 - Railroad Operating Technologies

Task Forces - Search for task force under committee here

Project Panels
- D1921 - Selecting Revenue Models for Electric Vehicle Charging
- D2261 - Crashworthiness of Roadside Hardware Impacted by Battery Electric Vehicles
- DA0371 - Guidance for Planning for Future Electric Vehicle Growth at Airports
- SAS0223 - Electric Vehicle Charging Stations at Airport Parking Facilities
- STSA60 - Examination of Transit Agency Coordination with Electric Utilities

Councils
- A001C – Young Members Coordinating Council
Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

Upcoming Events – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

**TRB's Transportation Symposium on Environment, Energy, and Livable Economies**
*August 25-28, 2024*
*Denver, CO*

Past Events - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

**National Conference on Transportation Asset Management**
*July 8-11, 2023*
*Boston, MA*

**Marine Transportation System Innovative Science and Technologies Toward Greater Sustainability**
*June 19-22, 2023*
*Washington, D.C.*

**National Aviation System Planning Symposium**
*May 15-18, 2023*
*Irving, CA*

TRB's Transportation Research Information Services (TRIS)

TRIS includes the **TRB Library** and the **TRIS Databases** (listed below) which are available free on TRB's website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. **Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.**

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

- **Transportation Research International Documentation (TRID)** – trid.trb.org - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – trt.trb.org - A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – rip.trb.org - Current or recently completed transportation research projects
- **Publications Index (PubsIndex) Database** – pubsindex.trb.org - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

Contact or Questions: TRBLibrary@nas.edu