

FTA Battery Research Key Highlights

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Battery Safety Post Incident Stakeholder Meeting



U.S. Department of Transportation
Federal Transit Administration

Key Highlights

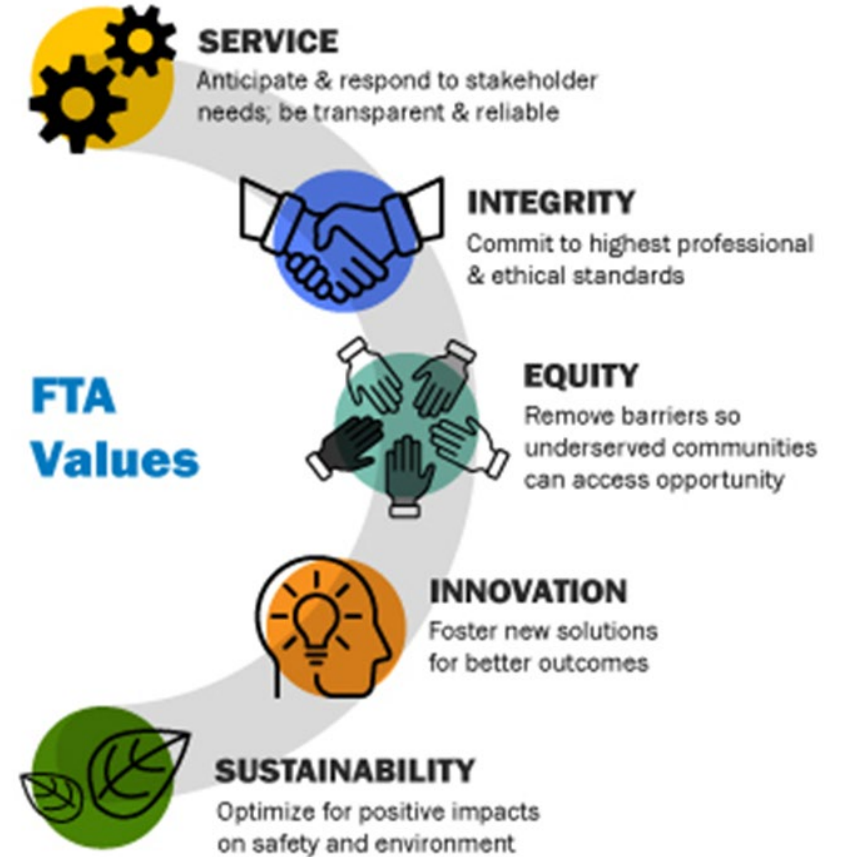
- FTA Mission and Values
- Safety Research
- Directed and Advanced Vehicle Research
- Battery Research Highlights

FTA Mission and Values



Mission

Improve America's Communities through Public Transportation



FTA Research Mission and Strategic Goals

FTA Research Mission

To improve America's communities through public transportation by accelerating innovation that enhances everyone's safety, improves equitable mobility, refines transit operations, and fosters clean energy.

Research Goals

- Enhance Safety
- Improve Equity
- Address Climate and Sustainability
- Build Resiliency
- Connect Communities (Transformation)
- Enhance Economic Strength and Global Competitiveness
- Act with Organizational Excellence

Improving Safety

Safety Research and Demonstration Pilots

\$7.5 million in grant to 10 projects to support safety and innovation in the transit industry

Real-Time Infrastructure Monitoring Program

Features digital twin technology and Artificial Intelligence

Transit Worker and Rider Safety Best Practices

Developing promising mitigation strategies



Toward Zero Emissions Goal with Directed and Advanced Vehicle Research

- Low or No Emissions Component Testing and Directed Research Centers
 - Auburn University – cybersecurity testing
 - The Ohio State University (OSU) – battery safety study
- Transit Vehicle Innovation Deployment Center
 - CALSTART
 - Center for Transportation and the Environment
- Enhancing Sustainability
 - Fuel Cell Dominant Proof of Concept
 - Industry collaboration



Current Battery Research

- Battery Failure Mechanisms for Battery Electric Bus (BEB)
Guide on Battery Safety Regulations and Standards for BEBs.
 - Standards
 - Fire Hazards
 - Site Preparation



Future Battery Research

- Safety Hazard Analysis for Battery Pack in Electrified Transit Vehicles (OSU)
- Battery Fire Safety Suppression (Calstart)
- Battery End of Life Assessment (Calstart)
- Battery State of Health Best Practices (CTE)



Thank you!

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