NREL
Transforming ENERGY

Transforming Energy through Sustainable Mobility:
Expanding Energy-Efficient Mobility Options

For more than 40 years, NREL has expanded American leadership and prosperity through world-class research that advances the science and engineering of energy efficiency, sustainable transportation, and renewable power technologies, providing the knowledge to integrate and optimize energy systems.

New, innovative, and integrated mobility strategies have the potential to transform the movement of people and goods, enhance national energy security, boost the domestic economy, and save individuals and businesses both time and money.

As the nation's premier facility for energy-efficient transportation R&D solutions, NREL blazes new trails by taking novel, whole-system approaches that combine vehicle components, fueling and charging, innovative systems of connectivity and automation, energy storage, data and analysis, and technical expertise to empower partners to make informed, sustainable transportation decisions.

NREL's expertise has established the laboratory as a national leader in a wide range of cutting-edge research areas and initiatives, including:

- Battery Safety Science and Materials Synthesis
- Energy Storage Engineering and Validation
- Vehicle-to-Grid Integration
- Mobility Behavior Science
- Commercial Vehicle Technology Development and Evaluation
- Fuel Chemistry and Combustion Science
- Fuel Cell and Hydrogen Technology Engineering and Analysis
- Connected Vehicles and Mobility Systems
- Thermal Management and Reliability of Power Electronics and Machines
- Sustainable Transportation Integration and Evaluation
- Transportation Data Analysis

To explore what we're working on today, or to join us in powering what's next, visit **nrel.gov/transportation-mobility**

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NREL is a national laboratory of the U.S. Department of Energy
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