

The National Renewable Energy Laboratory (NREL) serves as the nation's most credible and complete transportation energy efficiency clearinghouse for validated, up-to date statistics, data, and tools.

NREL's repository of integrated modeling and analysis tools is bolstered by world-class computational science and high-performance computing capabilities.

These refined tools help overcome technical barriers and spur the development of sustainable mobility technologies and strategies for decarbonizing passenger and freight transportation and combating climate change.



ALTRIOS
Advanced Locomotive Technology and Rail Infrastructure Optimization System Tool



BLAST
Battery Lifetime Analysis and Simulation Tool



DRIVE
Drive-Cycle Rapid Investigation, Visualization, and Evaluation Analysis Tool



EVI-EDGES
Enabling Distributed Generation Energy Storage



EVI-Equity
Electric Vehicle Infrastructure for Equity Model



EVFAST
Electric Vehicle Infrastructure – Financial Analysis Scenario Tool



EVI-Pro
Electric Vehicle Infrastructure – Projection Tool



FASTSim
Future Automotive Systems Technology Simulator



Fleet DNA
Commercial Fleet Vehicle Operating Data



FleetREDI
Fleet Research, Energy Data, and Insights



H2A
Hydrogen Analysis Production Model



H2FAST
Hydrogen Financial Analysis Scenario Tool



HIVE
Highly Integrated Vehicle Ecosystem Simulation Framework



LIBRA
Lithium-Ion Battery Resource Assessment Model



MATBOX
Microstructure Analysis Toolbox



MEP
Mobility Energy Productivity Tool



OpenPATH
Open Platform for Agile Trip Heuristics Tool



RouteE
Route Energy Prediction Model



T3CO
Transportation Technology Total Cost of Ownership Tool



TEMPO
Transportation Energy & Mobility Pathway Options Model



TSDC
Transportation Secure Data Center



View our full collection of modeling and analysis tools at www.nrel.gov/transportation/data-tools

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