



Photo by Werner Slocum, NREL 73925

**Simplified versions of some of the tools in the EVI-X suite** are available as user-friendly, web based applications. These “Lite” versions empower a wide range of users—local communities, state policymakers, utility companies, fleet operators, vehicle manufacturers, electric vehicle (EV) charging network operators, and others—to make informed decisions based on actionable insights garnered from the tools.

**EVI-Pro Lite: Daily Charging Needs Tool**

Estimates how much EV charging infrastructure is needed to support typical daily travel in a given area, with an option for ride-hailing applications.

**EVI-Pro Lite: Load Profile Tool**

Estimates power demands on the electric grid for typical daily charging in a given state or city.

**EVI-RoadTrip Lite: Long-Distance Travel Charging Needs Tool**

Estimates the requisite number and type of charging ports and associated energy demand for long-distance highway travel.



[afdc.energy.gov/evi-x-toolbox](https://afdc.energy.gov/evi-x-toolbox)

**The National Renewable Energy Laboratory's EVI-X modeling suite** informs the planning and development of EV charging infrastructure deployments, from the regional, state, and national levels to site and facility operations. It offers the unparalleled ability to answer the most complex questions addressing every aspect of EV charging—from network planning and site design to financial analysis.



[nrel.gov/evi-x](https://nrel.gov/evi-x)

## Electric Vehicle Charging Infrastructure Analysis NREL's EVI-X Modeling Suite

Lite Version Available Online

### Network Planning

**EVI-Pro**

Charging infrastructure projection based on typical daily travel

**EVI-OnDemand**

Charging infrastructure demand modeling for ride-hailing services

**EVI-RoadTrip**

Charging infrastructure analysis for long-distance travel

**EVI-Equity**

Charging infrastructure accessibility from an environmental justice perspective

**NEVI U-Finder**

Charging infrastructure networking data

### Site Design

**EVI-Ratio**

Planning the ratio and type of chargers to vehicles in a fleet

**EVI-InMotion**

Dynamic and quasi-dynamic charging infrastructure design

**EVI-EnSite**

Charging infrastructure energy estimation and site optimization

**HEVII**

Multifidelity telematics-enabled vehicle and infrastructure design

**EVI-EDGES**

Techno-economic evaluation of behind-the-meter storage

### Financial Analysis

**EVI-FAST**

Charging infrastructure financial analysis

**EVI-LOCATE**

Charging station installation design analysis and cost estimation

*These financial analysis tools can integrate with any of the tools above.*