Electric Vehicle Resource Toolkit for Cooperatives

As electric vehicles (EVs) become more common across the country, including in rural areas, electric cooperatives play a critical role in ensuring the reliability and affordability of the grid to support increased charging demands. Meeting this challenge will require smart planning, scalable solutions, and practical tools that help co-ops maintain service quality while preparing for new EV-related infrastructure needs.

NRECA has a variety of electric vehicle (EV) resources and engagement opportunities available for members to gain an understanding of the electrification trends in our industry and take steps to advance EV readiness. In addition, other industry organizations also offer resources which can be helpful to cooperatives.

The following resource toolkit provides a summary of resources currently available and the corresponding website links. Visit cooperative.com for more information and updates on NRECA's offerings.

Overarching Efforts

EV Topic Webpage on cooperative.com

EV-Focused Programs

- **REWIRED**

  Rural Electric Workflow Improvements for Rapid Electric Vehicle Supply Equipment Deployment (REWIRED) is a cooperative agreement between NRECA Research and EERE. This agreement provides over $2 million of federal funding over a 3-year period (June 2024 – May 2027). The project aims to reduce soft costs associated with EVSE deployment.

  - REWIRED: Annotated Bibliography
  - REWIRED Project: Initial Findings from Interviews and Literature Review on EVSE Energization and Interconnection
  - REWIRED: EVSE Technical Standards Whitepaper

  NRECA Research

  NRECA Research, a not-for-profit entity, was established in 2019 to complement the resources and services provided by NRECA to address the needs of electric cooperatives. Through NRECA Research, our members can leverage extensive internal expertise and established industry partnerships to develop and demonstrate new technical capabilities that directly address challenges and opportunities of the future electric grid.

EV Strategy Support

- **Electric Vehicle Strategy Services**

  With an effective EV strategy, co-ops can help ensure reliable and efficient electric service for their members while supporting the transition to electric vehicles and the broader goals of reliability and affordability. NRECA Research is here to help co-ops with our Electric Vehicle Strategy Services.

Common Electric Vehicle Industry Terms

- **Battery Electric Vehicle (BEV)**: An all-electric vehicle that uses electricity from an onboard battery to power its motor. Typically referred to as an Electric Vehicle, EV.
- **Direct-current Fast Charging (DC Fast Charging or DCFC):** Fast charging equipment that supplies EV batteries with Direct Current instead of the electric grid's Alternating Current.
- **Electric Vehicle Supply Equipment (EVSE):** Special equipment that takes energy from the grid and supplies electricity to electric vehicles. Commonly called charging stations, charging docks, or referred to by their ports.
- **Internal Combustion Engine (ICE)**: An engine that generates motive power by combusting gasoline, oil, or other fuel.
- **Level 1 Charging (Level 1):** Charging equipment that provides charging through a standard household outlet,120V AC plug.
- **Level 2 Charging (Level 2):** Charging equipment that provides charging through 240V (typical in residential applications) or 208V (typical in commercial applications) electrical service.
- **Plug-in Hybrid Electric Vehicle (PHEV):** A vehicle that is powered by an internal combustion engine and an electric motor that uses energy stored in a small battery.
- **Time of Use Rate (TOU Rate):** Utility rate structures that adjust the rate you pay for electricity over the course of the day.
- **Vehicle to Grid (V2G):** A technology that enables energy to be pushed back to the power grid from the battery of an electric car.

Resources

- **NRECA Business and Technology Strategies Reports & Tools**

  Class 8 EV Visualizer

  Serving Large Loads – Definitions and Characteristics: Large Electrified Transportation Loads

  2025 National EV Survey Report

  Electric Vehicle Rate and Program Design for Electric Cooperatives

  Here Comes the (Electric) School Bus! Early Experience at Electric Co-ops

  A Guide to Adopting Plug -in Electric Vehicles to Your Fleet

- **Advisories**

  How to Build an EV Strategy

  NRECA and MVEC: Electric Vehicle Telematics Pilot Program

- **Fact Sheets**

  Electric Vehicles and EV Deployment (A resource for policymakers)

  Cultivating Partnerships to Prepare for Transportation Electrification (A resource for cooperatives)

- **Podcasts**

  Along Those Lines: Powering Electric School Buses in Rural America

  Along Those Lines: EV Uptake in Rural America

Engagement and Learning Opportunities

- **Cooperative Approach for Vehicle Electrification (CAVE) Consortium**

  For more information and resources on electric vehicles (EVs), cooperatives are encouraged to join the (CAVE) Consortium, a network of electric cooperatives that have implemented or are planning to implement a variety of electric transportation programs.

- **NRECA Directors Course**

  (965.1) Electric Vehicles: Strategy and Policy Considerations (Directors Course)

Sign-up for
NRECA's *Business and Technology Update*
monthly newsletter for the latest information and opportunities.

Additional Industry Organizations' EV Resources

- DOE Resources:
  - Alternative Fueling Station Locator
  - DOE Alternative Fuels Data Center's Federal and State Laws and Incentives Database.
  - Electric Vehicle Infrastructure Projection Tool (EVI-Pro) Lite
  - EVs@Scale Research Consortia
  - Federal Tax Credits for New All-Electric and Plug-in Hybrid Vehicles
  - Public Electric Vehicle (EV) Charging Infrastructure Playbook
  - U.S. National Blueprint for Transportation Decarbonization
  - Workplace Charging Employer Workshop Toolkit
- DOT Resources:
  - Charging Forward: A Toolkit for Planning and Funding Rural Electric Mobility Infrastructure
  - FHWA's revised National Electric Vehicle Infrastructure (NEVI) Formula Program Interim Final Guidance (August 2025)
- Electrification Coalition Resources:
  - EV Funding Finder
  - V2X Implementation Guide
- Energetic's EV Watts Vehicle Dashboard
- EPA Resources:
  - Clean School Bus Program
  - Clean School Bus Case Studies
  - Coordinating with Electric Utility Partners Resource (School District Resource)
  - Final Rule: Greenhouse Gas Emissions Standards for Heavy-Duty Vehicles – Phase 3
  - Final Rule: Multi-Pollutant Emissions Standards for Model Years 2027 and Later Light-Duty and Medium-Duty Vehicles
- EPRI:
  - Small Fleet & Multifamily Service Connection Guide (2025)
  - EVs2Scale Resources
    i. EPRI E-Roadmap
  - EPRI Vetted Product List (2024)
- ESIG's Grid Planning for Vehicle Electrification (2024)
- EZMT's The Energy Zones Mapping Tool

- EVC's EVSE Regulatory Best Practices (2022)
- Federal Highway Administration Resources:
    - National Electric Vehicle Infrastructure Standards and Requirements
- ICCT Resources:
    - Briefing: Home Charging Access and The Implications For Charging Infrastructure Costs In The United States
    - White Paper: Emerging Best Practices for Electric Vehicle Charging Infrastructure
- IEEE Spectrum's The EV Transition Explained
- INL's Caldera EV Simulation Platform
- INL/PNNL's Energization Process Improvement Report (2025)
- IREC
    - EV Charger Interconnection Best Practices (2022)
    - Model Interconnection Procedures (2023)
- Joint Office of Energy & Transportation Resources:
    - Joint Office EV Infrastructure Playbook
    - Cold Weather Impacts on Electric School Buses
    - Community Charging: Emerging Multifamily, Curbside, and Multimodal Practices
    - Community Engagement Tips for EV Infrastructure Deployment
    - Electric Vehicle Charging Analytics and Reporting Tool (EV-ChART)
    - National Zero-Emission Freight Corridor Strategy
    - NEVI U-Finder (Utility Finder)
    - Public EV Charging Station Site Selection Checklist
    - Technical Assistance 101 – How Can the Joint Office Support You?
- NASEO Resources:
    - Electric Vehicle Charging Needs Assessment
    - Southeast Regional Electric Vehicle Information Exchange (SE REVI)
- NREL Resources:
    - Challenges and Opportunities of Integrating Electric Vehicles in Electricity Distribution Systems
    - The 2030 National Charging Network: Estimating U.S. Light-Duty Demand for Electric Vehicle Charging Infrastructure

- SEPA's Fleet Electrification Utility Framework
    - Accompanying case studies:
        i. Providing EV Load Capacity Maps
        ii. Partnering to Electrify Public Fleets
        iii. Streamlining Electrification Processes and Timelines
        iv. Understanding Fleets in Your Service Area
- Touchstone Energy's EV Resources (Members Only)
- UC Davis Electric Vehicle Research Center's National EV Toolbox
- U.S. Access Board's Design Recommendations for Accessible Electric Vehicle Charging Stations

Contact for Questions

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