



Accessible electric vehicle charging stations

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The Future of Vehicle Grid Integration: Harnessing the Flexibility of EV Charging illustrates the characteristics of a future where vehicles are successfully integrated with the power grid. This vehicle grid integration vision document is intended to serve as a guidepost for the transition--helping stakeholders prioritize and target action as they face competing priorities and balance tradeoffs based on the needs of their local communities.

EV Retail Rate Design 101, July 2022. This technical brief introduces and describes electric vehicle (EV) retail rate design, including motivations, metering configurations, cost recovery approaches, energy and demand charges (e.g., time-differentiated rate designs, locational-differentiated rate designs), charging controls, interactive grid services, and load flexibility. The brief synthesizes recent experience and identifies resources that provide more details and information.

An EV Future: Navigating the Transition, A Voices of Experience Initiative, October 2021. The report compiles ideas, advice, and approaches from various stakeholder perspectives about the transition to EVs. The topics include residential charging, long-haul transportation, public transit, infrastructure deployment, regulatory policy, and new market entrants.

The report also includes a broader, more informal collection of experiences and observations and explores successful approaches, as well as not-so-successful ones, to uncover unanticipated challenges or barriers.

Joint Office of Energy and Transportation Technical Assistance. The Technical Assistance webpage provides resources and tools to help decisionmakers plan and implement their state's network of electric vehicle chargers and zero-emission fueling infrastructure, as well as zero-emission transit and school buses. Find resources, information about the National Vehicle Infrastructure (NEVI) Formula Program process and more.

Electric Vehicle Charging Equity Considerations. The webpage from Argonne National Laboratory provides background information about the Justice40 Initiative, the process for identifying disadvantaged communities in census tracts, and the underlying indicators and sources for DOE and Department of Transportation working definitions of disadvantaged communities, in order to ensure investments in electric vehicle charging benefits disadvantaged communities.

Integrated Distribution System Planning (IDSP) Resources: An IDSP process provides a decision framework for developing holistic infrastructure investment strategies for local electricity grids. OE is advancing IDSP through guidance documents, best practices, and training for state officials and utilities. It also provides technical assistance to state energy officials and utility regulators and to improve upon the IDSP practices.



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NARUC Center for Partnerships & Innovation - Electric Vehicles: NARUC, with support from DOE, is working to explore the challenges around EV charging and load growth with its members and experts through resources, reports, and an Electric Vehicles State Working Group, which is open to all NARUC members and holds monthly meetings on EV regulatory topics.

Visit the Clean Cities Coalition Network's webinar page to watch the series, Using the EZMT to Equitably Plan for Electric Vehicle Charging Stations. Additional videos on EZMT are available via .

Dsgrid: Demand-Side Grid Model: NREL's demand-side grid (dsgrid) model harnesses decades of sector-specific energy modeling expertise to understand current and future U.S. electricity load for power systems analyses. The primary purpose of dsgrid is to create comprehensive electricity load data sets at high temporal, geographic, sectoral, and end-use resolution. These data sets enable detailed analyses of current patterns and future projections of end-use loads.

Utility Finder (U-Finder): This tool helps states, communities, and fleets identify active local utility partners supporting the installation of EV chargers, also called electric vehicle supply equipment (EVSE). Primary U-Finder outputs include the utilities operating in the state or local geography, utility contacts, and incentives offered by those utilities.

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