

## Electric Vehicles Charging Infrastructure Initiative

To support local efforts and align with national and state electric vehicle charging infrastructure initiatives, the CVPDC can provide information and stay current on resources, grants, and funding opportunities. The tables prepared and included herewith include a summary of resources and links to their websites for more detailed information.

CVPDC staff can also engage and facilitate communication with economic development and tourism directors and connect them to EV partners and resources, such as the Virginia Clean Cities (VCC) Coalition, funded by the DOE. This can lead to identifying business owners (office buildings, shopping centers, hotels, restaurants, gas stations, tourist destinations) interested in partnering with the locality. The VCC can also act as the buffer between these connections and the EV technology and equipment vendors.

Grant funding applications vary in eligibility criteria and cost-matching requirements. Preparing an application would differ depending on the level of effort, teaming agreements, preliminary data gathering and analysis, and stakeholder engagement to meet minimum requirements. Several resources and tools are available to assist with these tasks.

### Virginia Clean Cities (VCC) DOE designated Coalition

#### Community Transportation Action Planning (CTAP)

Workshop July 26, 2024, 1-4 pm, registration required, free event:

<https://vacleancities.org/event/lynchburg-community-clean-transportation-action-workshop/>

More information to be shared by Matthew Wade/Cassandre Torres such as:

- Is an application needed?
- Is it a contract?
- Is there a cost-share?
- What is the localities' commitment to receive assistance?

Contact: Cassandre Torres, Community Engagement Liaison

[ctorres@vacleancities.org](mailto:ctorres@vacleancities.org)

540-212-9416

James Madison University

1401 Technology Drive

MSC 4115

Harrisonburg, VA 22807

[Local Government Transportation Electrification Guidance and Best Practices](#) how to facilitate EV adoption

#### [Drive Electric VA](#)

Project to advance efforts toward electrification. Projection report for Lynchburg:

<https://vacleancities.org/wp-content/uploads/2021/07/Lynchburg-Area-EV-Charging-Report.pdf>

#### [Climate Mayors EV Purchasing Collaborative website](#)

A turnkey, one-stop online procurement portal provides U.S. cities, counties, courts, school districts, state governments, and public universities with equal access to competitively bid EVs and charging infrastructure, innovative financing options, best practices, and other forms of expertise.

[EV Fleet/School Buses Purchasing Contract website Sourcewell](#)

#### [Resources](#)

## Virginia Clean Cities (VCC) DOE designated Coalition

### [Drive Clean Rural USA Project](#)

**The website contains project webinars with lessons learned (2022)**

A learning project to understand what will help rural communities transition to cleaner fuels and vehicles and what barriers might need to be addressed by policy incentives, state and federal investments, or education. It provides rural fleets and counties with four areas of assistance: [Fleet Technical Assistance](#), [Demonstration Vehicles](#), [support of Regional Jobs and Business Growth](#), and [Promotion of Fleet Leadership](#). The ultimate goal is to see positive action from the counties we help. That might include a commitment to purchase one or more alternative fuel vehicles in the short term, or a plan to transition a fleet, and/or commitments from commercial and institutional fleets in your county.

[Alternative Fuels Data Center](#) Federal tax credits are available to consumers, fleets, businesses, and tax-exempt entities.

**Rural Reimagined:** Rural communities in Virginia are eligible for free DCFC and Level 2 EV charging equipment and discounted installation. Contact Matt Wade at [mwade@vaccleancities.org](mailto:mwade@vaccleancities.org).

### [Virginia Laws and Incentives](#)

**Electrify America (EA)**, headquartered in Reston, VA, is deploying charger depots and DC Fast Chargers. The company is expanding its charger network in Virginia and throughout the country. EA added Virginia to its kilowatt-hour pricing program, simplifying billing for customers. To become a site host, visit <https://www.electrifyamerica.com/realestate/>

### **EV Charger Planning Data/Map Toolkit Video presentation/walkthrough**

[EV Charging Locator](#)

[EVI-X](#)

[Electric Vehicle Infrastructure Toolbox](#)

[Geospatial Energy Mapping \(GEM\) Tool \(replaced the Energy Zones Mapping Tool\)](#)

<https://www.youtube.com/watch?v=rzu5-bS8cBM> Meeting with Charlottesville on Community EV charger planning (October 17, 2022)


Department of Energy (DOE)	
<p><b><u>C2C Clean Energy to Communities – In-Depth Technical Partnerships</u></b></p> <p><b>Potential for a new round? Sign up for updates to be notified of latest round of applications. TBD</b></p> <p><b>Eligibility: Teams must have</b></p> <ol style="list-style-type: none"><li><b>1. electric utility</b></li><li><b>2. local government (with authority to implement the plan) and</b></li><li><b>3. a community-based organization (PDC falls under this category)</b></li></ol> <p><b>No cost-match all cost types except equipment/property purchases.</b></p> <p><b>Deadline: June 14, 2024</b></p>	<p>Clean Energy to Communities (C2C) is a joint research project run by the National Renewable Energy Laboratory and supported by the DOE's Office of Energy Efficiency and Renewable Energy (EERE). C2C helps local communities transition to clean energy in areas such as the grid, buildings, and transportation.</p> <p>Through C2C efforts, the DOE will collaborate with electric utilities, local governments, and community organizations to build confidence in current clean energy goals, develop data-driven plans and actions, and make decisions that lead to more equitable outcomes in the clean energy sector.</p>
<p><b><u>Communities Taking Charge Accelerator FOA</u></b></p> <p><b>Potential for a new round? TBD</b></p> <p><b>Eligibility:</b></p> <ol style="list-style-type: none"><li><b>1. Institutions of higher education;</b></li><li><b>2. For-profit entities;</b></li><li><b>3. Non-profit entities; and</b></li><li><b>4. State and local governmental entities and Indian Tribes.</b></li></ol> <p><b>Deadline for Concept Paper: May 20, 2024</b> <b>Deadline for Full Application (must have concept paper approved): July 16, 2024</b></p> <p><b>Sign up for updates to be notified of a new round of applications.</b></p>	<p>Topic areas include:</p> <ul style="list-style-type: none"><li>• Solving for No-Home Charging: Expanding Charging Access for Privately Owned E-Mobility Planning projects (cost-share 0%), demonstration/deployment projects (cost-share 50%)</li><li>• Expanding E-Mobility Solutions through Electrified Micro, Light, and Medium-Duty Fleets Planning projects (cost-share 0%), demonstration/deployment projects (cost-share 50%)</li><li>• Managed Charging for Clean, Reliable Energy. Planning projects (cost-share 20%), demonstration/deployment projects (cost-share 50%)</li></ul>

Department of Energy (DOE)	
<p><b><a href="#">Energy Efficiency &amp; Conservation Block Grant Program (EECBG) Office of State and Community Energy Programs (SCEP) Formula Grant</a></b></p> <p><a href="#">Lynchburg</a> is eligible to receive an allocated \$140,890 through the Formula Grant – must apply for voucher or grant (<a href="#">instructions here</a>) <a href="#">Energy Efficiency and Conservation Block Grant Program Technical Assistance Opportunities</a> MUST BE RECIPIENT OF GRANT to receive support to reduce barriers to achieving their clean energy and energy efficiency goals and maximize project impact. Energy Efficiency and Conservation Block Grant (EECBG) Program technical assistance (TA) is available via peer networks and cohort-based learning, expert assistance in problem-solving, document templates, and more opportunities that help meet the specific needs of individual communities.</p> <p>Formula Grant Deadline: October 31, 2024</p>	<p><b><a href="#">EECBG Competitive Grant</a></b></p> <p><b>Deadline: No new round yet TBD</b></p> <p><b>Eligibility: Only local Governments</b></p> <p><b>No cost sharing</b></p> <p>Applicants can be in one of two tracks:</p> <ul style="list-style-type: none"> <li>• Track 1- Planning, Strategy development, and Analysis</li> <li>• Track 2 – Project Implementation and Scaling</li> </ul> <p><a href="#">Previous Awards and Examples</a></p> <p><b>Expert Match</b>—free, short-term technical assistance to address near-term clean energy challenges and questions. Expert Match is most suitable for communities that could benefit from assistance to inform time-sensitive decisions and identify and understand the range of options for achieving clean energy goals. The Expert Match technical assistance timeframe is 40–60 hours over 1–2 months. To apply for the Expert Match program, please see the <a href="#">C2C Expert Match Application webpage</a>.</p>
<p><b><a href="#">Technical Assistance from National Labs</a></b></p> <p><b>Work proceeds through teleconferences and site meetings with the experts and local stakeholders. At the conclusion of the project, the technical expert documents the final resolution and recommends future actions.</b></p>	<p>Evaluation of Project Potential: Some projects (including transit systems and airports) may qualify for technical assistance if expertise is not available from local or regional resources or stakeholders. When there is demonstrated local interest, a Tiger Teams expert can evaluate local market conditions, conduct infrastructure assessments, gauge stakeholder needs, and assist in defining project execution feasibility. Asking for <b>Tiger Teams Assistance</b></p> <p><b>Request Tiger Teams'</b> assistance by submitting your contact information and details about the project to <a href="#">John Gonzales</a> at the National Renewable Energy Laboratory. Include information about if you made efforts to find solutions using local resources.</p> <p>John Gonzales will work with you to define how the project will proceed and develop a timeline. In order to receive Tiger Teams' assistance, the coalition and stakeholders must have an ongoing commitment to a successful outcome.</p>

Department of Energy (DOE)	
<p><a href="#">Electric Vehicle Charging Assistance Program (EVCAP)</a> via the Virginia Department of Energy as a sub-award program</p> <p><b>Round 1 closed Feb. 2024.</b></p> <p><b>Potential Round 2? TBD</b></p> <p><b>Minimum Cost-Share: 20%</b></p> <p><b>Eligibility: EV charging vendors or for collaborations between governments and technology providers.</b></p>	<p>All areas within Virginia with a focus on disadvantaged and rural communities as defined by the Justice 40 criteria will be included.</p>

VDOT	
<p><a href="#">Virginia NEVI Phase 1B</a></p> <p><b>Eligibility: Localities, institutions of higher education, individuals, corporations, partnerships, and LLCs in good standing to do business in VA. Partnership with utility provider, vendor.</b></p> <p><b>Cost-share: 80% VDOT 20% applicant</b></p> <p><b>Deadline: July 10, 2024 6:00 PM</b></p> <p><b>Potential for a new round: Phase 2 TBD</b></p>	<p>Identify one site within target areas along designated AFCs (in our region US460 and US29) to install the infrastructure. Qualifies for planning and installation costs.</p>

Joint office of DOE/DOT	
<b>Planning Guide</b>	<a href="#">Public Electric Vehicle Charging Infrastructure Playbook</a>
<b>Technical Assistance</b>	<a href="#">Alternative Fuels Data Center's (AFDC) Electric Vehicle Readiness webpage</a> for guidance to help communities evaluate their readiness and plan for the arrival of EVs and EV charging. This page offers a series of case studies and tools to assist communities in preparing for EV adoption.
<b>Modeling Tools and Maps for Planning Support</b>	<ul style="list-style-type: none"> <li>• Argonne National Laboratory's (ANL) Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) Tool (<a href="https://afleet.es.anl.gov/home/">https://afleet.es.anl.gov/home/</a>). The tool provides assumptions for Level 2 and DC fast charging station hardware equipment and installation costs depending on the site type. For more information on the AFLEET tool, please contact <a href="mailto:afleet@anl.gov">afleet@anl.gov</a>.</li> <li>• National Renewable Energy Lab's (NREL's) EVI-X Modeling Suite Electric Vehicle Charging Infrastructure Analysis Tools (<a href="https://www.nrel.gov/transportation/evi-x.html">https://www.nrel.gov/transportation/evi-x.html</a>). NREL's modeling suite informs the development of large-scale EV charging infrastructure deployments from the regional, state, and national levels to site and facility operations. For more information on the EVI-X Suite, please contact <a href="mailto:EVI-X@nrel.gov">EVI-X@nrel.gov</a>.</li> <li>• Electric Power Research Institute (EPRI)'s eRoadMap (<a href="https://eroadmap.epri.com/">https://eroadmap.epri.com/</a>). A first-of-its-kind interactive energy map that presents the approximate amount of energy needed at a local level to electrify transportation over time for light-, medium- and heavy-duty electric vehicles.</li> </ul>

FHWA	
<p><u>Charging and Fueling Infrastructure (CFI) Discretionary Grant</u></p> <p><b>Round 2 will also award NEVI-10 funds (10% set aside of the Formula Program)</b></p> <p><b>Deadline: August 28, 2024</b></p> <p><b>Eligibility: Localities MPO/PDC</b></p> <p><b>Cost-match: 80% Federal, 20% Non-Federal</b></p>	<p>Two types of grants:</p> <ol style="list-style-type: none"><li>(1) Community Charging and Alternative Fueling Grants (Community Program) Min. \$500K total project for community grants; max. \$15M</li><li>(2) Charging and Alternative Fuel Corridor Grants (Corridor Program). Min. \$1M for corridor grants; no max</li></ol> <p>(USDOT has the discretion to grant smaller amounts after reviewing all applications)</p> <p></p> <p>Henrico CFI Full Project Application.</p> <p>CFI application from Henrico County (\$1,816,000 total project cost; \$1,452,800 plus County match of \$363,200) Henrico issued a \$60K task order for a consultant to assist with the application and grant. They currently have an RFP out to find an EV vendor to install, manage, and operate the chargers. Their strategy involved proposing county-owned locations with existing infrastructure (such as parking lots) and minor construction needs to support future charging stations with a focus on Justice 40 areas to enhance the application. Many EV operators will fund the costs and provide charging stations with an agreed-upon revenue split.</p>

EPA	
<p><a href="#">Climate Pollution Reduction Grant (CPRG) under Inflation Reduction Act (IRA)</a></p> <p><b>Not accepting applications currently</b></p> <p><b>Potential for a new round? TBD</b></p> <p><b>Eligibility: States, Municipalities, PDCs</b></p> <p><b>No cost-match</b></p> <p><b>Phase 2 implementation plans grant application, only open to grant recipients, is also closed.</b></p>	<p><a href="https://www.epa.gov/inflation-reduction-act/priority-climate-action-plans-states-msas-tribes-and-territories">https://www.epa.gov/inflation-reduction-act/priority-climate-action-plans-states-msas-tribes-and-territories</a></p> <p>DEQ recipient <a href="https://www.deq.virginia.gov/our-programs/air/greenhouse-gases">https://www.deq.virginia.gov/our-programs/air/greenhouse-gases</a></p>
<p><b>*New* Environmental and Climate Justice Community Change Grants under IRA</b></p> <p><b>Eligibility:</b></p> <ul style="list-style-type: none"> <li>• <b>A partnership between two community-based non-profit organizations (CBOs).</b></li> <li>• <b>A partnership between a CBO and one of the following:</b> <ul style="list-style-type: none"> <li>○ <b>a Federally-Recognized Tribe</b></li> <li>○ <b>a local/regional government (PDC falls under this category)</b></li> <li>○ <b>an institution of higher education.</b></li> </ul> </li> </ul> <p><b>Deadline November 21, 2024 - <a href="#">NOFO</a></b></p> <p><b>No cost-sharing</b></p> <p><b>Minimum awards of \$10M for Track I projects: Community-Driven Investments for Change</b></p> <p><b>Minimum awards of \$1M for Track II projects: Track II applications – Meaningful Engagement for Equitable Governance</b></p> <p><b>(Discretion to grant smaller amounts after reviewing all applications)</b></p> <p><a href="#">Technical Assistance Grants to prepare applications and be grant-ready</a></p> <p><a href="#">Webinars</a></p>	<p>The activities to be performed under the grants are expected to fall under the following categories:</p> <ul style="list-style-type: none"> <li>• Climate resiliency and adaptation.</li> <li>• Mitigating climate and health risks from urban heat islands, extreme heat, wood heater emissions, and wildfire events.</li> <li>• Community-led air and other (including water and waste) pollution monitoring, prevention, and remediation.</li> <li>• Investments in low- and zero-emission and resilient technologies and related infrastructure.</li> <li>• Workforce development that supports the reduction of greenhouse gas emissions and other air pollutants.</li> <li>• Reducing indoor toxics and indoor air pollution.</li> <li>• Facilitating the engagement of disadvantaged communities in state and federal advisory groups, workshops, rulemakings, and other public processes.</li> </ul> <p>Oral presentations for Track I. Applications must have projects that meet six requirements:</p> <ol style="list-style-type: none"> <li>(1) climate action strategies,</li> <li>(2) pollution reduction strategies,</li> <li>(3) a community engagement and collaborative governance plan,</li> <li>(4) a community strength plan,</li> <li>(5) readiness approach,</li> <li>(6) compliance plan</li> </ol>



A long-term effort (over the next couple of years) could entail developing a regional-scale plan. The purpose of this plan would be to identify and recommend priority locations for EV charging and alternative fueling stations in a way that advances national efforts to facilitate access to a convenient, affordable, reliable, equitable, and safe fueling and charging network. This would be achieved by preparing and developing a metric (e.g., traffic density, electrical capacity, Justice40, NEVI corridor proximity, etc.) by utilizing mapping tools and available resources to identify priority locations within our communities. This plan would enhance and assist in applications for funding opportunities for implementation and construction and fill in infrastructure gaps to help meet demand.

Aligning with future CVPDC initiatives, a smaller-scale plan could be incorporated into the Long-Range Transportation Plan to enhance locality efforts for future grant applications.

**Sample Regional Plans**

<a href="#">Richmond EV Initiative Readiness Plan</a>	Developed in 2013 was approximately \$500K per VCC.
<a href="#">PlanRVA Priority Climate Action Plan</a>	received \$1M for the Richmond MSA from EPA's Climate Pollution Reduction grant, currently in the survey phase for a Comprehensive Climate Action Plan.
<b>Southeast Metropolitan Planning Organization, MO EV Readiness Plan (<a href="#">website</a>)</b>	Per FY 22 UPWP - \$80,000 for consultant RFP activities (develop RFQ, selection of firm, public engagement, stakeholder outreach, data collection, developing draft); in FY 23 UPWP, \$20,000 for plan completion activities (finalize draft and plan adoption activities) total \$100,000. Adopted November 2022.
<b>RFP to engage consultant: (<a href="https://southeastmpo.org/wp-content/uploads/2021/09/2021-Electric-Vehicle-Readiness-Plan-RFP-9-8-21.pdf">https://southeastmpo.org/wp-content/uploads/2021/09/2021-Electric-Vehicle-Readiness-Plan-RFP-9-8-21.pdf</a>)</b> <b>East Central WI Regional Planning Commission (ECWRPC)</b>	<a href="https://www.ecwrpc.org/2023/05/08/rfp-oshkosh-mpo-electric-vehicle-ev-readiness-plan/">https://www.ecwrpc.org/2023/05/08/rfp-oshkosh-mpo-electric-vehicle-ev-readiness-plan/</a>
<b>Flint Hills MPO, KS EV Readiness Plan (<a href="#">website</a>). In the works.</b>	Per FY24 UPWP \$100K for consultant services

Examples of RFPs to develop Community EV Charging Infrastructure Plans by localities:

- City of South Bend – Office of Sustainability: Community Electric Vehicle Charging Infrastructure Plan Consultant (<https://southbendin.gov/wp-content/uploads/2022/09/FINAL-Community-EV-Charging-Infrastructure-Plan-RFP-August-2022-.pdf>)