

EV PREPAREDNESS FOR ELECTRIC UTILITIES



Electric vehicles (EVs) are growing in popularity in Kentucky and across the nation. Kentucky is also rapidly becoming the leader in EV battery manufacturing with over \$11.6 billion in new investment coming to the state over the next few years. With these changes underway, now is the time for electric utilities to prepare.

EDUCATE UTILITY LEADERSHIP AND STAFF ABOUT EVs AND EV INFRASTRUCTURE.

- ⚡ **Websites/Webinars** – Learn about EVs and EV funding on websites hosted by USDOT, USDOE, the Joint Office, non-profits or others.
- ⚡ **EV Infrastructure** – Understand the uses and costs for Level 2 and Level 3 (DCFC) charging.

COLLABORATE WITH THOSE INVOLVED WITH EV INFRASTRUCTURE IN YOUR AREA.

- ⚡ **Local and State Agencies** – Talk with your local agencies about their EV planning efforts. Work with state agencies on their efforts.
- ⚡ **Other Communities** – Consider collaborating on EV planning and deployment with your surrounding communities.
- ⚡ **Other Organizations** – Reach out to groups like the KY Clean Fuels Coalition, TVA, and Evolve KY.

PLAN FOR EVs AND EV INFRASTRUCTURE IN YOUR COMMUNITY.

- ⚡ **EV Infrastructure Planning** – Investigate the power demand and distribution infrastructure needed to support EV charging at home, work, and elsewhere.
 - Assess EV infrastructure impacts on grid load and the needed upgrades, evaluate distribution system and capacity limitations; identify transformer needs, identify where EV chargers can be integrated into a smart grid network, develop a distribution resource plan with station and solar hosting capacity maps.
- ⚡ **Rate Considerations** – Examine your rate structure. Explore changes to support affordable vehicle charging for customers. Work with the Public Service Commission (PSC).

FUND AND INCENTIVIZE NEW EV INFRASTRUCTURE IN YOUR COMMUNITY.

- ⚡ **Private Sources** – Most EV infrastructure to date has been installed using private funds and this trend is expected to continue. Talk to private firms, utilities, and non-profits (like those listed above) about how you can collaborate.
- ⚡ **Volkswagen Settlement Funds** – EEC Rebate program. Requires 50% match. EEC to announce details in 2024.
- ⚡ **NEVI Formula Funding Program** – Federal program. Limited to direct current fast charging (DCFC) stations along Interstates and Parkways until FHWA approves build-out. KYTC issued a Request for Proposals (RFP) in 2023 and awarded 24 projects. A second RFP was released in February 2024 with proposals due in April 2024.
- ⚡ **NEVI Competitive Grant Program** – Federal program. A total of \$2.5 billion is available over 5 years. The next notice of funding opportunity is expected in summer 2024.

SUPPORT AND DEPLOY EV INFRASTRUCTURE, GUIDELINES, AND STANDARDS.

- ⚡ **Public EV Infrastructure** – Facilitate, support, or fund charging stations. Determine if there are partners you could support.
 - Consider making “behind the meter” investments to ensure charging adequacy, and identify a “make ready” approach for residential and commercial consumers.
- ⚡ **Policies and Rates** – Implement new policies or rates in coordination with the Public Service Commission (as applicable).
- ⚡ **Publicity and Support** – Promote EV infrastructure awareness among businesses, developers, realtors and the public. Consider promoting guidance on EV infrastructure.

Notes: USDOT = U.S. Department of Transportation; USDOE = U.S. Department of Energy; DCFC = Direct Current Fast Charging; TVA = Tennessee Valley Authority; EEC = Energy and Environment Cabinet; NEVI = National Electric Vehicle Infrastructure; KYTC = Kentucky Transportation Cabinet; FHWA = Federal Highway Administration

