

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 billions in new investment coming to the state over the next few years. 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 the [U.S. Department of Energy Alternative Fuels Data Center](#), 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** – Level 2 and Level 3 rebate program funding is available; applications can be found through the [EEC](#).
- ⚡ **NEVI Formula Funding Program** – Federal program that supports development of charging along major corridors and within communities. KYTC has issued four Request for Proposals (RFP). Dozens of sites are open to the public, in development, and under construction.

SUPPORT AND DEPLOY EV INFRASTRUCTURE, GUIDELINES, AND STANDARDS.

- ⚡ **Public EV Infrastructure** – Implement the plan. Facilitate, support, or fund charging stations in your community. 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; RFP = Request for Proposals.

