



City of St. Louis EV Ready

By Maurice K. Muia, Climate Advisor



Key Terms

- ▶ EV Ready: “A designated parking space which is provided with one 50 ampere, 208/240 volt dedicated branch circuit for EVSE servicing EVs.
- ▶ Electric Vehicle Supply Equipment (EVSE): Conductors, Connectors, and Devices that transfer energy between the service and the EV.
- ▶ EVSE Installed Space: “A designated parking space which is provided with EVSE installed.” An EVSE Installed Space is a parking space with direct access to an EV charger.



City of St. Louis' Climate Goals

- ▶ Reduce GHG emissions by 100% by 2050.
- ▶ VMT is 20% of GHG emissions in St. Louis (2015)
- ▶ Electrify transportation in the public and private sector
 - ▶ Electrify the municipal fleet
 - ▶ Transform the EV and EVSE market in the City to meet its climate goals
 - ▶ Develop legislation that will reduce the burden of electrifying transportation in the City, i.e., EV Ready legislation
- ▶ EVs in Missouri emit 33% less GHG emissions than ICE vehicles.
- ▶ By 2030, at least 10% of newly registered vehicles will be EVs.
- ▶ Convenient access to charging is a barrier. Approx. 80% of charging is done at home.



Electric Vehicles vs ICE Vehicles

- ▶ An EV at 200k miles all in GHG emissions from mine to smelter is 36 tons.
- ▶ An ICE Vehicle at 200k miles all in GHG emissions from mine to smelter is 78 tons.

City Ordinances

- ▶ Electric vehicle (EV) charging ordinances [162](#), [163](#), and [181](#) were passed by the Board of Aldermen in January 2021 and signed into law by Mayor Krewson in February 2021.
- ▶ These ordinances support EV adoption by requiring new and significantly renovated buildings to build parking spaces that can easily be converted to EV charging stations in the future, and in cases of larger parking lots, also requires installation of EV charging stations.

Thank You!

- ▶ Maurice K. Muia, Climate Advisor – City of St. Louis, Missouri
- ▶ muia@stlouis-mo.gov, mmuia@nrdc.org, 2293950670