

Ordinance #220581



Authorizing the Director of Public Works to execute a Site License Agreement with Evergy to install, own, operate, and maintain Level Two Electric Vehicle Supply Equipment (EVSE) stations attached to City streetlight poles.



Ordinance # 220581



Streetlight/Curbside Electric Vehicle (EV) Charging Project

- Funded by an U.S. Department of Energy (DOE) grant in 2018
- Metropolitan Energy Center (MEC), the City of Kansas City Missouri, Evergy, and partners collectively identified and evaluated over 300 preliminary locations
- 46 sites were selected for project implementation
- Minimum of 30 locations will be constructed to meet the DOE grant requirements
- Will provide access to EV chargers for renters, multi-family residents, and diverse neighborhoods
- Curbside locations reduce equipment footprint, construction activities, and visual clutter



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City Contributions and Responsibilities

- Public Works Streetlight Group - technical review/evaluation of project sites. Provided streetlight asset inventory and attribute information
- Public Works Transportation Group - parking site reviews
- Office of Environmental Quality - review
- Parks and Recreation Department – right of way review
- Board of Parks and Recreation Commissioners - review and approval
- Allow Evergy to access and attach to streetlight infrastructure
- Enforce all City standards related to right of way and attachment to City assets
- Term of agreement with Evergy through December 31, 2032



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Site Selection Process

- Evaluate market demand based on existing charging station density, traffic volume, trip production and attraction and land use types
- Evaluate areas of opportunity based on air quality, income level, EV ownership growth rates, and rentership rates
- Send outreach letters to neighborhoods and adjacent properties, conduct community listening sessions, and consider feedback during decision-making
- Visit and evaluate all 300+ locations suggested by the modeling process and community (e.g. distance to power source, electrical capacity, curbside parking availability, streetlight placement, community feedback, cost estimates, construction and excavation difficulty, etc.)
- Present 46 identified feasible locations and prioritize 30 based on Transportation and Infrastructure Committee feedback, including equity and planned street projects



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CD1	CD2	CD3	CD4	CD5	CD6
Preferred (30)					
9703 N Shannon Ave	7301 NW 75th St	3636 Troost Ave	922 E. 5th St	5536 Troost Ave	444 Nichols Rd
8721 N. Mersington Ave	7979 N. Granby Ave	2208 Kensington Ave	346 E. 18th St	7202 E Indiana Ave	4809 Roanoke Pkwy
1201 NE Chowning Dr	4200 NE 50th St	3832 Wabash Ave	1413 W. 39th St	4299 Starlight Rd	1211 Arno Rd
8812 NE 114 Ter.	4060 N Bennington	113 Monroe Ave	110 W. 3rd St	9812 Sycamore Ave	300 E. 135th St
3820 NE 87th St.	8210 N Hickory	3107 Elmwood Ave	4053 Broadway	10805 Sycamore Terr	4725 Wyandotte St

*Locations are subject to change if necessary. If a location is determined to be infeasible or rejected for some other reason, the project team will make every effort to select an alternate location from the same district.



Lessons to be learned

- Evaluate installation, operation, and maintenance costs of the EV chargers
- Evaluate challenges and solutions
- Evaluate potential expansion of curbside chargers
- Evaluate the contribution to City's on-going sustainability goals

