

# GENERAL

## Ordinance Fact Sheet

Ordinance Number

Brief Title	Approval Deadline	Reason
Authorizing the City to partner with stakeholders to submit a grant application used to develop a feasibility analysis.		Determine if EVSE charging infrastructure can be feasibly paired with streetlights.

<p><b>Details</b></p> <p><b>Reason for Legislation</b></p> <p>The City endeavors to develop a feasibility analysis of pairing Electric Vehicle Support Equipment (EVSE) charging infrastructure with street lighting in various on-street locations in Kansas City. The analysis will detail costs and other challenges associated with providing streetlight charging and will provide recommendations on how best to address those challenges.</p> <p>Additionally, the analysis will factor in the need for equity and anticipate issues specific to streetlight charging access in lower income neighborhoods. The analysis will be supplemented by decision support tools, in the form of predictive modeling, to analyze diffusion rates and optimal charging locations. Lessons learned and best practices can be used to assist other urban regions in the U.S. to develop their own feasibility analyses.</p> <p><b>Discussion</b></p> <p>Electric Vehicles (EVs) provide more than just individual benefits. EVs can help the United States have a greater diversity of fuel choices available for transportation. According to the US Department of Energy, the U.S. used nearly nine billion barrels of petroleum last year, two-thirds of which went towards transportation.</p> <p>As determined in the 2013 Greenhouse Gas (GHG) Emissions Inventory Update, in Kansas City, MO, 25% of the GHG emissions are attributable to burning fossil fuels in internal combustion engines for on-road transportation.</p> <p>Our reliance on petroleum makes us vulnerable to price spikes and supply disruptions. EVs help reduce this threat because almost all U.S. electricity is produced from domestic sources, including coal, nuclear, natural gas, and renewable sources.</p> <p>The grant requires a minimum \$2,000,000 proposal, of which \$1,000,000 is grant funding, and matching funds of \$1,000,000 from in-kind services or monetary funding.</p>	<p><b>Positions/Recommendations</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><b>Sponsor</b></td> <td></td> </tr> <tr> <td><b>Programs, Departments, or Groups Affected</b></td> <td>Public Works Street Lights Kansas City Power &amp; Light Company Metropolitan Energy Center Various Stakeholders</td> </tr> <tr> <td><b>Applicants / Proponents</b></td> <td><b>Applicant</b>  City Department Public Works Department Office of Environmental Quality Other</td> </tr> <tr> <td><b>Opponents</b></td> <td><b>Groups or Individuals</b>  None Known <b>Basis of opposition</b></td> </tr> <tr> <td><b>Staff Recommendation</b></td> <td><input checked="" type="checkbox"/> For <input type="checkbox"/> Against  <b>Reason Against</b></td> </tr> <tr> <td><b>Board or Commission Recommendation</b></td> <td><b>By</b>  <input type="checkbox"/> For   <input type="checkbox"/> Against   <input type="checkbox"/> No action taken <input type="checkbox"/> For, with revisions or conditions (see details column for conditions)</td> </tr> <tr> <td><b>Council Committee Actions</b></td> <td><input type="checkbox"/> Do pass <input type="checkbox"/> Do pass (as amended) <input type="checkbox"/> Committee Sub. <input type="checkbox"/> Without Recommendation <input type="checkbox"/> Hold <input type="checkbox"/> Do not pass</td> </tr> </table>	<b>Sponsor</b>		<b>Programs, Departments, or Groups Affected</b>	Public Works Street Lights Kansas City Power & Light Company Metropolitan Energy Center Various Stakeholders	<b>Applicants / Proponents</b>	<b>Applicant</b>  City Department Public Works Department Office of Environmental Quality Other	<b>Opponents</b>	<b>Groups or Individuals</b>  None Known <b>Basis of opposition</b>	<b>Staff Recommendation</b>	<input checked="" type="checkbox"/> For <input type="checkbox"/> Against  <b>Reason Against</b>	<b>Board or Commission Recommendation</b>	<b>By</b>  <input type="checkbox"/> For <input type="checkbox"/> Against <input type="checkbox"/> No action taken <input type="checkbox"/> For, with revisions or conditions (see details column for conditions)	<b>Council Committee Actions</b>	<input type="checkbox"/> Do pass <input type="checkbox"/> Do pass (as amended) <input type="checkbox"/> Committee Sub. <input type="checkbox"/> Without Recommendation <input type="checkbox"/> Hold <input type="checkbox"/> Do not pass
<b>Sponsor</b>															
<b>Programs, Departments, or Groups Affected</b>	Public Works Street Lights Kansas City Power & Light Company Metropolitan Energy Center Various Stakeholders														
<b>Applicants / Proponents</b>	<b>Applicant</b>  City Department Public Works Department Office of Environmental Quality Other														
<b>Opponents</b>	<b>Groups or Individuals</b>  None Known <b>Basis of opposition</b>														
<b>Staff Recommendation</b>	<input checked="" type="checkbox"/> For <input type="checkbox"/> Against  <b>Reason Against</b>														
<b>Board or Commission Recommendation</b>	<b>By</b>  <input type="checkbox"/> For <input type="checkbox"/> Against <input type="checkbox"/> No action taken <input type="checkbox"/> For, with revisions or conditions (see details column for conditions)														
<b>Council Committee Actions</b>	<input type="checkbox"/> Do pass <input type="checkbox"/> Do pass (as amended) <input type="checkbox"/> Committee Sub. <input type="checkbox"/> Without Recommendation <input type="checkbox"/> Hold <input type="checkbox"/> Do not pass														

(Continued on reverse side)

**Details**

**Is it good for the children?**  
 Yes. Climate change is widely recognized by government, business, and academic leaders as a worldwide threat with the potential to harm our economy, safety, public health, and quality of life. EV use will ultimately reduce greenhouse gas (GHG) emissions will benefit those most vulnerable to the impacts of climate change, especially children, seniors, and those who experience respiratory problems, including asthma.

**How will this contribute to a sustainable Kansas City?**  
 EVs can help reduce the emissions that contribute to climate change and smog, thereby improving public health and reducing ecological damage. Charging your EV on renewable energy such as solar or wind, minimizes these emissions even more.

**Policy/Program Impact**

<b>Policy or Program Change</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
<b>Operational Impact Assessment</b>	To be determined by the analysis.

**Finances**

<b>Cost &amp; Revenue Projections -- Including Indirect Costs</b>	Grant requires a minimum \$2,000,000 proposal, of which \$1,000,000 is grant and matching funds of \$1,000,000 from in-kind services or monetary funding.
<b>Financial Impact</b>	
<b>Fund Source (s) and Appropriation Account Codes</b>	19__ Budget, Page ____ Unbudgeted, Appropriation _____ Fund 00-000-00-0000-A0000

(Use this space for further discussion, if necessary)

**Applicable Dates:**

**Fact Sheet Prepared by:**

Bruce Campbell  
 Parking Services, Public Works

Date 11 July, 2018

**Reviewed by:**

Date

**Reference Numbers**