

MARSHALLTOWN

— I O W A —

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TO: Mayor Greer and City Council
FROM: Heather Thomas, Public Works Director
DATE: October 24, 2022
RE: Fee Establishment – Electric Vehicle Charging Stations

Policy Issue: All fees shall be established by City Council.

<input type="checkbox"/> Goal 1: Expand and improve development	<input checked="" type="checkbox"/> Goal 3: Continually improve the City's organization & services
<input type="checkbox"/> Goal 2: Enhance Marshalltown's public image	<input type="checkbox"/> Goal 4: Partner with others to improve quality of life

Specific Objective/Action: Objective 5: Maintain a financially healthy organization - review city fees and charges

Recommendation: To adopt the following electric vehicle charging station fees:

\$ 1.80 / hour energy cost while charging (w/ free parking)

\$ 5.00 / hour parking cost (after 1 hour grace period after charging stops)

Budget Impact: The implementation of a fee will help provide revenue to partially offset the expenses the city currently has for electric charging station. The city will receive 90% of the fees collected / charged by ChargePoint for the electrical charging stations. 10% is retained by ChargePoint as a service fee. We still anticipate expenses exceeding revenue – the energy cost rate was estimated to cover electrical expenses only.

Description/Background: The city installed an electric charging station with two service ports in the parking lot reconstructed at S 1st St and Church St during a project constructed in 2021. Currently the city provides charging to the public at no cost. The city currently has expenses for the electric charging station including \$690 annual fee, electrical costs, and any repair/maintenance to the equipment.

The electric meter that includes the charging station also includes parking lot lighting, so electric costs are not totaled from the Alliant Energy bill; however, using the average usages reported by ChargePoint and a proration of cost/kWh from bill of approximately \$0.21/kWh, we estimate a monthly electric expense of about \$228. With an average energy session of 3 hours and average of 48 sessions per month, this results in an average energy cost of \$1.583 / session hour. The city receives 90% of this, so we would need to charge \$1.76/hour to recoup energy usage. We are proposing a flat \$1.80/hour. We are also recommending establishing a fee after a 1-hour grace period to encourage users to move their vehicle after they are done using the equipment to allow access for other users.

These fees compare to a local Marshalltown business that has a \$1.00/hour energy cost with a \$5.00/hour parking cost after 4 hours (unrelated to when charging stops).

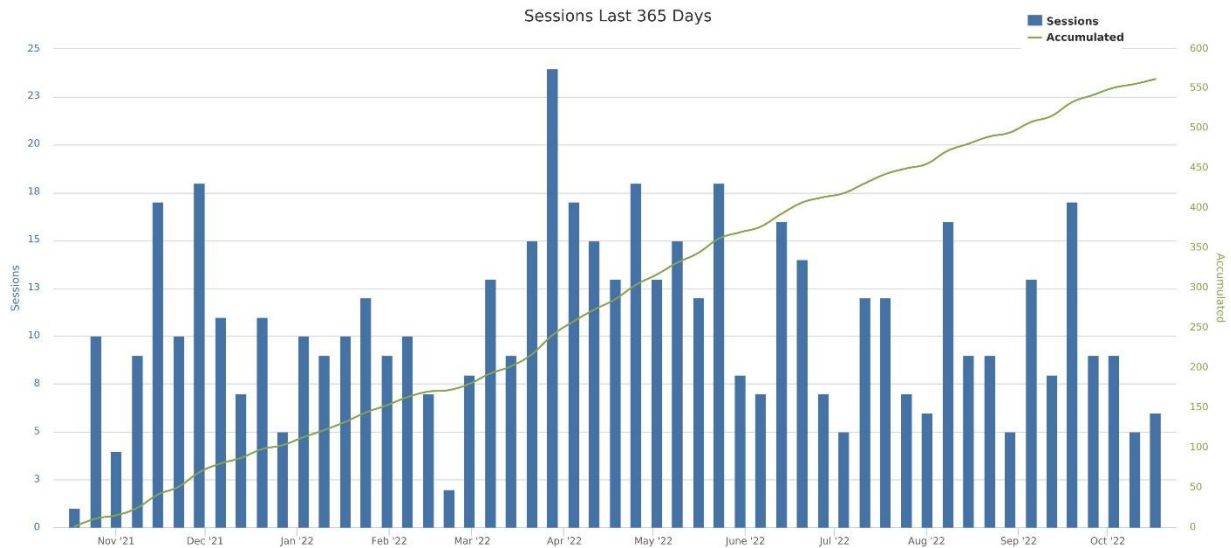
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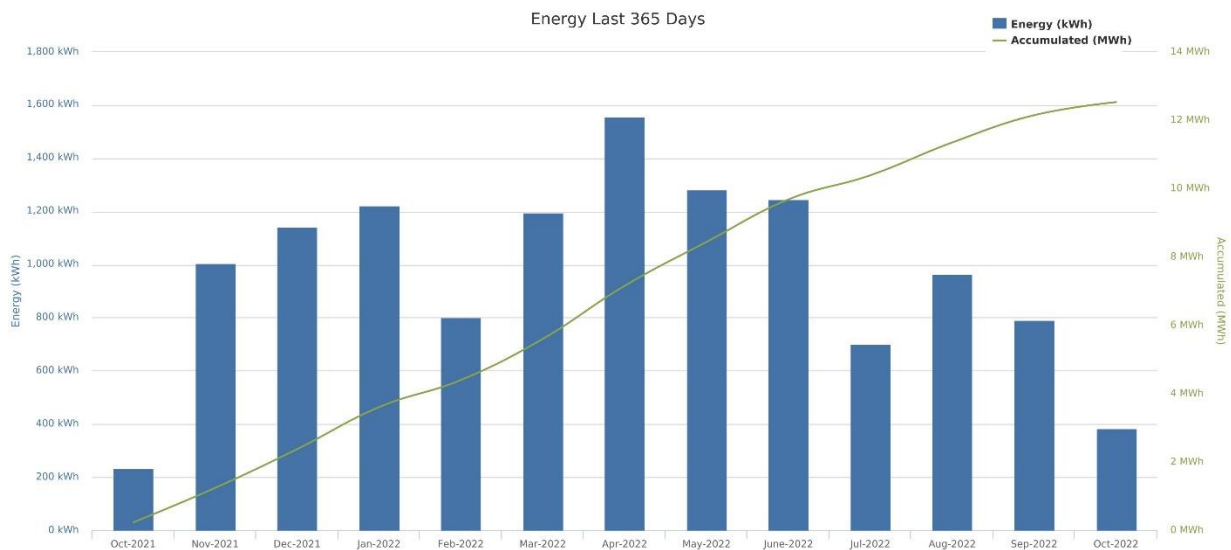


For informational purposes only, below are some statistics on the usage of the city's electric charging stations:

On average over the last 30 days, vehicles are taking approximately 3 hours and 3 minutes to charge. After they are fully charged, they are then sitting idle (still connected but not charging) for an average of 3 hours and 44 minutes.



The above chart shows the charging station usage, based on weekly charging sessions. In summary, the station varies anywhere between 2 to 24 sessions per week. On a daily basis in the last 90 days, we have had 13 days where we have had more than 2 unique driver cards.



The above chart shows the monthly electric charging station usage. In summary, monthly electric usage varies from 703 kWh in July of 2022 to 1,593 kWh in April of 2022. The average over the last year has been 1,085 kWh per month.

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