



CHEVERLY PUBLIC WORKS


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MEMORANDUM

Date: January 8, 2020

To: Dylan Galloway, Town Administrator

From: Stephen Brayman, Director of Public Works 

Subject: Electric Vehicle (EV) Charging Stations Energy Usage

On August 20, 2019, meters were installed in the three electric vehicle charging stations located down near the Public Works Building. The following is a chart of metered electrical usage for all three stations. A monthly cost has been calculated based upon 2019 contracted electrical cost for the four main Town electric accounts. That contracted cost was \$0.08 per kilowatt hour (kW·h). Some administrative account charges were not included as it is understood that these charges would be paid regardless of the EV Stations.

Dates	Kilowatt hours	Cost (kW·h x \$0.08)
08/20/2019 to 10/01/2019	1693.43	\$135.47
10/02/2019 to 11/07/2019	1181.6	\$94.53
11/08/2019 to 12/02/2019	841.89	\$67.35
12/03/2019 to 01/08/2020	1377.6	\$110.21

From discussions with the Electric Vehicle Institute (EVI), I understand that adding credit card features to these charging stations would cost approximately \$50 per month for wireless (cellular) charges for each station plus administrative fees for each transaction. Currently, the monthly cellular costs exceed the cost of the energy being used by these stations.

In a recent conversation, EVI indicated that they were looking into Wi-Fi connectivity for remote and automated metering purposes. This may eventually lead to more cost effective methods of monitoring, charging for electricity, and/or controlling access to the charging stations. At this point, it is too soon to make any determinations or recommendations regarding Wi-Fi options.

Public Works is also working with EVI to adjust the charging station cord length to coordinate lined parking spaces. Public Works is recommending orienting the parking spaces to be parallel to the curb to allow as much space between the regular parking spaces and the EV parking spaces for PW trucks to pass through. Weather and water are complicating implementing this parking arrangement, although it is anticipated that parking spaces can be delineated by April 2020. Additional signage is contemplated to help instruct users on proper parking procedures.