2018-2019 BUDGET QUESTION

Response to Request for Information

DEPARTMENT: Fleet Services

REQUEST NO.: 6

REQUESTED BY: Kitchen

DATE REQUESTED: 4/11/18

DATE POSTED: 4/18/18

REQUEST: Please provide the status of the City's transition to electric vehicles including any operational or fiscal impact it has on fuel costs.

RESPONSE:

The City's Fleet is currently composed of the following units:

- 237 Hybrid units
- 137 Electric units
- 33 Plug-in Hybrid Electric units

Currently, 7.34% of all Fleet units are hybrid, electric or plug- in hybrid electric.

Our current replacement model places the electric vehicles (EV) and plug-in hybrid electric vehicles (PHEV) as the highest priority of consideration. However, we are limited in scope to what is available for purchase on the market as a production model. Many of the models vary in availability and configuration from year to year. Additionally, we are challenged with matching what is available on the market that meets the operational needs for City departments.

Fleet plans to acquire 330 EV and PHEV by the end of calendar year 2020. This year, approximately 66 EV/PHEVs will be purchased as replacement vehicles for non-EV/non-PHEV.

Fleet is working with Austin Energy on identifying and installing charging stations needed to support these vehicles. Currently eight (8) locations have been identified for installation of charging stations in FY 2018. We are gathering more information as to locations and quantities of stations to install in FY 2019 and FY 2020.

Fuel usage savings are approximately 75%-100% depending on the type of unit (PHEV, EV) comparatively. While EV and PHEV taken in isolation result in reduced fuel usage, taken in context with the fleet as a whole relative to the total budgetary impact, the actual amount of savings may be mitigated by cost increases in fuel associated with the other 92.7% of the fleet.

Fuel usage will continue to decrease as we increase the number of electric units in the fleet. Projected annual fuel usage savings for 330 vehicles is $231,660. This is based on the assumption of 330 fuel operated vehicles generating 99,000 gallons of fuel usage annually at $2.34 per gallon of gasoline (current market price).