

# ***CITY OF STAMFORD***

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## **OFFICE OF OPERATIONS ENGINEERING BUREAU**

### ***INTEROFFICE MEMORANDUM***

To: City of Stamford Board of Finance  
From: Brandon Mark on behalf of Louis Casolo Jr., P.E.  
Date: November 7, 2023  
Re: Request for a Capital Project Appropriation – EV Infrastructure Grant

In connection with agenda item number 10 of the October 11<sup>th</sup> Board of Finance (BOF) meeting, *Request for a Capital Project Appropriation – EV Infrastructure Grant*, the following information is being provided to you in advance of the November 9<sup>th</sup> meeting.

In response to the discussion during last month's meeting, the City's Department of Engineering reached out to a nationally recognized EV charging and parking management firm to refine the previously presented analysis. As a result, the new analysis includes updated charger utilization assumptions that are based on the third-party firm's vast experience in forecasting the operational costs associated with EV charging.

Attached is a copy of the EV charger analysis for the proposed project at the City of Stamford's parking garage at 888 Washington Blvd. The analysis reflects the proposed Level II and Level III charging stations requested as part of the grant, the average cost of electricity provided by Eversource, and the estimated utilization assumptions. Additionally, this analysis compares the costs, net income/losses, and estimated payback for purchasing chargers with and without the CT DEEP Grant.

The sheet titled "Grant vs No Grant Summary" provides a detailed overview of the total out of pocket purchase costs (City Bond), energy consumption/costs, and estimated payback. Please refer to the instructional notes at the top of the sheet for additional guidance and details pertaining to the input variables. The sheet titled "Energy Usage Cash Flow Examples" provides an overview of four (4) different energy cost scenarios, namely:

1. No user fee from 2024 to 2032
2. \$0.10/kWh user fee from 2024 to 2027, and \$0.39/kWh user fee from 2027 to 2032
3. No user fee from 2024 to 2027, and \$0.39/kWh user fee from 2027 to 2032
4. \$0.23/kWh user fee from 2024 to 2032 (or fee equivalent to the cost of electricity per kWh)

Please note that there are cost variables in the analysis that can be adjusted, and we look forward to reviewing these with you at your next meeting. Moreover, rates/fees charged/set may require approval from Board of Representatives and do not apply to the city fleet vehicles.

If you have any questions about this information prior to the next meeting, please feel free to contact me.

Cc: Matt Quinones – Director of Operations  
Louis Casolo Jr., P.E. – City Engineer  
Brandon Mark, CEM, LEED AP – Energy and Sustainability Manager  
File Reg. No. \_\_\_\_\_