



Justin Elicker
Mayor

ENGINEERING DEPARTMENT

City of New Haven
200 Orange Street, Rm 503
New Haven, CT 06510
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Giovanni Zinn, P.E.
City Engineer

May 16, 2022

Honorable Tyisha Walker Myers
President - Board of Alders
City of New Haven
165 Church Street
New Haven, CT 06510

Re: Order authorizing the Mayor to accept the 2021 State Diesel Emissions Reduction Act (DERA) Program Grant from the Department of Energy and Environmental Protection (CTDEEP) for the purchase of an Electric Refuse Vehicle

Dear Honorable Tyisha Walker Myers:

The Connecticut Department of Energy and Environmental Protection is offering a grant program to cover up to 45% of the cost of an electric vehicle which replaces a diesel vehicle. The City of New Haven's refuse fleet represents the City's diesel fleet that spends the most time in our neighborhoods, and as such is a natural candidate for conversion to electric vehicles. New Haven is home to a number of environmental justice communities with a disproportionate rate of asthma and respiratory illnesses based on our location as a major regional transit center among other factors. By converting a refuse truck to electric, this eliminates a source of diesel exhaust in our neighborhoods, and improves the quality of life across the City.

An average New Haven refuse truck travels 37 miles per day. The electric version of the City's preferred refuse truck has a typical range of 100-160 miles, and has been found in New York City's testing to provide 60 curb-miles of pickup (not including transit and disposal) in New York City conditions. The City would install a 100 amp Level 2 charger in the Refuse Truck Garage at 260 Middletown Ave (near the transfer station). The electric truck was quoted in late 2021 at \$572,200 compared to a normal diesel unit at \$321,900. The CT DEEP would offer the City a grant of \$238,215.34, which would result in a purchase price of \$333,984.66 (a 3.7% increase over conventional). However, the cost per mile of electricity vs a gas vehicle, while varying with energy costs, is approximately 2-3 times less. This would result in a pay back period of well under 1 year.

Therefore, I write to respectfully request the Honorable Board of Alders authorize the Mayor to accept the 2021 State Diesel Emissions Reduction Act (DERA) Program Grant from the Department of Energy and Environmental Protection (CTDEEP) for the purchase of an Electric Refuse Vehicle as set forth in the proposed Order.

Thank you for your consideration of this matter. If you have any questions, please feel free to contact me at 203-946-8105.



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c: Regina Rush Kittle, Chief Administrative Officer
Dawn Henning, Engineering Department
file