

CHECK LIST FOR ALDERMANIC SUBMISSIONS

<input checked="" type="checkbox"/>	Cover Letter
<input checked="" type="checkbox"/>	Resolutions/ Orders/ Ordinances
<input checked="" type="checkbox"/>	Prior Notification Form
<input checked="" type="checkbox"/>	Fiscal Impact Statement - Should include comprehensive budget
<input checked="" type="checkbox"/>	Supporting Documentation
<input checked="" type="checkbox"/>	Disk or E-mailed Cover letter & Order

IN ADDITION, IF A GRANT:

<input type="checkbox"/>	Notice of Intent
<input type="checkbox"/>	Grant Summary
<input type="checkbox"/>	Executive Summary (not longer than 5 pages without an explanation)

Date Submitted: May 6, 2022

Meeting Submitted For: May 16, 2022

Regular or Suspension Agenda: Regular

Submitted By: Giovanni Zinn, City Engineer

Title of Legislation: 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

Comments: LM- 2022- 0260

Coordinator's Signature:  08/09/2022

Controller's Signature (if grant): 

Mayor's Office Signature: 

Call 946-7670 with any questions



Justin Elicker
Mayor

ENGINEERING DEPARTMENT

City of New Haven
200 Orange Street, Rm 503
New Haven, CT 06510
www.newhavenct.gov



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.



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

Respectfully submitted,

Giovanni Zinn, PE
City Engineer

mf

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

..title

RESOLUTION AUTHORIZING THE MAYOR TO ACCEPT FUNDING FROM THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP) AND SIGN ANY ASSOCIATED STATE AGREEMENTS, AGREEMENTS WITH CONTRACTORS AND OTHER DOCUMENTS THAT MAY BE DESIRABLE OR NECESSARY, INCLUDING ANY SUBSEQUENT AMENDMENTS TO AGREEMENTS, CONCERNING THE 2021 STATE DIESEL EMISSIONS REDUCTION ACT (DERA) FOR THE PURCHASE OF AN ELECTRIC REFUSE VEHICLE

..body

Whereas, The State of Connecticut Department of Energy and Environmental Protection (CTDEEP) has selected the City of New Haven to receive grant funding under the 2021 State Diesel Emissions Reductions Act for the purchase of an electric refuse vehicle; and,

Whereas, The Connecticut Department of Energy and Environmental Protection (CTDEEP) will administer the funds; and,

Whereas, The project is funded by grant funds which will be administered through the City subject to reimbursement; and,

Whereas, The City of New Haven in conjunction with the State of Connecticut desires to improve air quality in Connecticut by utilizing electric vehicles that will reduce diesel emissions; and,

Whereas, New Haven Residents' health and the environment will benefit from the purchase of said vehicle,

NOW, THEREFORE BE IT RESOLVED, BY THE BOARD OF ALDERS OF THE CITY OF NEW HAVEN THAT THE MAYOR IS AUTHORIZED TO ACCEPT FUNDING FROM THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP) AND SIGN ANY ASSOCIATED AGREEMENTS, WITH THE STATE OF CONNECTICUT, CONTRACTORS, SUBSEQUENT AMENDMENTS, AND OTHER DOUCMENTS, ANY OF WHICH MAY INCLUDE INDEMNIFICATION PROVISIONS AND WHICH MAY HAVE A TERM OF LONGER THAN ONE YEAR, THAT THE MAYOR DEEMS NECESSARY OR DESIRABLE, REGARDING THE PURCHASE OF AN ELECTRIC REFUSE VEHICLE USING THE 2021 STATE DIESEL EMISSIONS REDUCTION ACT (DERA) FUNDS

PRIOR NOTIFICATION FORM

NOTICE OF MATTER TO BE SUBMITTED TO THE BOARD OF ALDERMEN

TO (list applicable aldermen/women):

ALL

DATE: **May 16, 2022**

FROM: Department
Person

Engineering

Giovanni Zinn, P.E.

Telephone **946-8105**

This is to inform you that the following matter affecting your ward(s) will be submitted to the Board of Aldermen.

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

Check one if this an appointment to a commission

☐ Democrat

☐ Republican

☐ Unaffiliated/Independent/Other

INSTRUCTIONS TO DEPARTMENTS

1. Departments are responsible for sending this form to the alderperson(s) affected by the item.
2. This form must be sent (or delivered) directly to the alderperson(s) **before** it is submitted to the Legislative Services Office for the Board of Aldermen agenda.
3. The date entry must be completed with the date this form was sent the alderperson(s).
4. Copies to: alderperson(s); sponsoring department; attached to submission to Board of Aldermen.

FISCAL IMPACT STATEMENT

DATE:	May 16, 2022		
FROM (Dept.):	Engineering Department		
CONTACT:	Giovanni Zinn, City Engineer	PHONE	946-8105

SUBMISSION ITEM (Title of Legislation):

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

List Cost: Describe in as much detail as possible both personnel and non-personnel costs; general, capital or special funds; and source of funds currently budgeted for this purpose.

	GENERAL	SPECIAL	BOND	CAPITAL/LINE ITEM/DEPT/ACT/OBJ CODE
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A. Personnel

1. Initial start up
2. One-time
3. Annual

B. Non-personnel

1. Initial start up
2. One-time ~238,215.34 ~\$333,000 FY21-22 Vehicle Capital
3. Annual See note

List Revenues: Will this item result in any revenues for the City? If Yes, please list amount and type.

NO	<input checked="" type="checkbox"/>
YES	<input type="checkbox"/>

1. One-time 238,215.34
2. Annual

Other Comments:

While difficult to quantify accurately into the future as energy prices are volatile, at today's rates the truck will result in 50% to 75% savings in fuel costs per year to run the vehicle. This is approximately \$10k - \$15k. In addition electric vehicles have lower maintenance costs due to simpler mechanicals and regenerative braking.