

**Semi Annual Report to the Trustee
Commonwealth of Pennsylvania
July 2021
(Reporting Period – January 1, 2021 through June 30, 2021)**

Overview: The Commonwealth of Pennsylvania (Pennsylvania) was designated as a beneficiary of the Environmental Mitigation Trust Agreement for State Beneficiaries (Trust Agreement) on January 29, 2018. The Pennsylvania Department of Environmental Protection (PA DEP) was designated as the lead agency responsible for disbursing Pennsylvania’s allocation of the trust fund monies. Pennsylvania is one of the few beneficiaries that has vehicles and equipment eligible for repower or replacement under all Eligible Mitigation Actions (EMAs) 1 through 8. Pennsylvania also has developed an Electric Vehicle Roadmap¹ identifying goals for the distribution of electric vehicle charging infrastructure (EMA 9). Pennsylvania has participated in the State Clean Diesel Grant Program for many years prior to the establishment of the trust fund and plans to continue participating (EMA 10).

PA DEP has created a suite of programs called Driving PA Forward, that includes eight programs to disburse the trust fund monies. All 10 EMAs are included across these eight programs. This is consistent with PA DEP’s stated goal in its Beneficiary Mitigation Plan to offer funding for all EMAs.

Status of each EMA: PA DEP intends to offer funding under each program over at least five years, although PA DEP may offer the programs for varying periods of time, depending upon interest and participation in each program.

Progress: In the sections below, PA DEP provides the following information describing the progress of implementing each EMA, required under Section 5.3 of the Trust Agreement:

- A summary of all costs expended through the end of the current reporting period
- An actual or projected termination date of the EMA
- A description of the development, implementation, and any modification of each approved EMA

Additionally, for each EMA, PA DEP identifies which funding program supports the EMA, funding program details (open and close of application period, funding offered, etc.), projects completed under each program (per EMA), funds committed and expended, and other details.

EMA 1: Class 8 Local Freight Trucks and Port Drayage Trucks (Eligible Large Trucks)

PA DEP funds projects eligible under this EMA through two programs, the details for which are provided below:

- Truck and Bus Fleet Grant Program (formerly Class 8 Truck and Transit Bus Grant Program)
- Onroad Rebate Program

¹ <http://files.dep.state.pa.us/Energy/OfficeofPollutionPrevention/StateEnergyProgram/PAEVRoadmap.pdf>

Truck and Bus Fleet Grant Program / Class 8 Truck and Transit Bus Grant Program – Calendar Years (CY) 2018-2019; CY2020

- *Development*
 - As revised for CY2020, this program funds the repower or replacement of eligible Class 4-8 local freight trucks, school buses, shuttle buses, transit buses, and drayage trucks (EMAs 1, 2, and 6). When it was originally developed, this program only funded the repower or replacement of Class 8 local freight trucks (EMA 1) and transit buses (EMA 2). This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: No funding application periods were open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in July 2021.
- *Implementation*
 - CY2018-2019 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 18.0 to 20.0 percent for the non-government owned vehicle replacement projects,
 - 64.4 to 74.9 percent for a non-government owned vehicle replacement with electric project, and
 - 75.0 to 90.0 percent for government owned vehicle replacement projects.
 - CY2020 – Funding percentages: PA DEP is still evaluating applications and has not yet made funding commitments for awards.
 - CY2018-2019 – Total awarded grants: \$5,758,089.75 to eight EMA 1 projects (see EMA 2 for other projects).
 - CY2020 – Total awarded grants: No grant awards were made in the current reporting period. Applications are still under review.
 - Anticipated cumulative grant award outcomes: 66 diesel-to-diesel Class 8 truck replacements; 7 diesel-to-electric Class 8 yard hostler trucks; 2 diesel-to-diesel bulk collection truck replacements; 5 diesel-to-CNG refuse truck replacements; and 5 diesel-to-diesel Class 8 service vehicle replacements, including one bulk fuel delivery truck with hybrid battery idle mitigation (85 total replacements).
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: The following are the submitted, approved, and/or pending project reimbursements requested by PA DEP in Funding Requests (FRs).
 - FR0004: \$432,320.00 requested and approved by the Trustee on January 25, 2021.
 - Administrative expenditures to date: The following are the submitted, approved, and/or pending administrative expenditure reimbursements requested by PA DEP in Funding Requests (FRs) for this EMA.
 - FR0004: \$64,848.00 requested and approved by the Trustee on January 25, 2021.
 - PA DEP has approximately \$5,679.00 in pending administrative costs associated with the Truck & Bus Fleet Grant Program, that will be submitted with the next eligible funding request that includes EMA 1 projects.

Onroad Rebate Program –
CY2018-2019; CY2020

- *Development*
 - As revised for CY2020, this program funds the repower or replacement of eligible Class 4-8 local freight trucks, school buses, shuttle, buses, transit buses, and drayage trucks (EMAs 1, 2, and 6). When it was originally developed, this program only funded repowers or replacements of Class 4-7 local freight trucks, school buses, shuttle buses, and port drayage trucks (EMAs 1, 2, and 6). PA DEP has also revised the program to accept multiple vehicles per application and issue single rebate vouchers for a fleet of eligible vehicles (up to 5), where previously the program only provided single vehicle rebates.
- *Actual or Projected Termination Date*
 - Application periods: No funding application periods were open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in July 2021.
- *Implementation*
 - CY2018-2019 – No rebates were issued to EMA 1 projects under this program.
 - CY2020 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 18.9 to 50.0 percent for the non-government owned vehicle replacement projects, and
 - 43.0 to 70.0 percent for government owned vehicle replacement projects.
 - CY2020 – PA DEP issued 11 rebate vouchers for \$1,946,161.75 to replace 28 EMA 1 eligible vehicles under this program.
 - Anticipated cumulative rebate award outcomes: 9 diesel-to-diesel government-owned Class 8 truck replacements; 4 diesel-to-CNG government-owned truck replacements; 14 non-government Class 8 truck replacements, and 1 diesel-to-diesel non-government drayage truck replacement. (28 total replacements).
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No project costs were expended under this EMA for this program through this reporting period.
 - Administrative expenditures to date: The following are the submitted, approved, and/or pending administrative expenditure reimbursements requested by PA DEP in Funding Requests (FRs) for this EMA:
 - PA DEP has approximately \$7,744.15 in pending administrative costs associated with the Onroad Rebate Program, that will be submitted with the next eligible funding request that includes EMA 1 projects. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA under this program.

EMA 2: Class 4-8 School Bus, Shuttle Bus, or Transit Bus (Eligible Buses)

PA DEP funds projects eligible under this EMA through two programs, the details for which are provided below:

- Truck and Bus Fleet Grant Program (formerly Class 8 Truck and Transit Bus Grant Program)
- Onroad Rebate Program

Truck and Bus Fleet Grant Program (formerly Class 8 Truck and Transit Bus Grant Program – CY2018-2019; CY2020

- *Development*
 - As revised for CY2020, this program funds the repower or replacement of eligible Class 4-8 local freight trucks, school buses, shuttle, buses, transit buses, and drayage trucks (EMAs 1, 2, and 6). When it was originally developed, this program only funded the repower or replacement of Class 8 local freight trucks (EMA 1) and transit buses (EMA 2). This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: No funding application periods were open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in July 2021.
- *Implementation*
 - CY2018-2019 – Funding percentages: PA DEP committed to reimburse up to 44.4 percent for a government owned vehicle replacement with electric project.
 - CY2018-2019 – Total awarded grants: \$1,104,000 to one (1) EMA 2 project (see EMA 1 for other projects).
 - CY2020 – Funding percentages: PA DEP is still evaluating applications and has not made funding commitments yet for awards for CY2020.
 - CY2020 – Total awarded grants: No grant awards were made in the current reporting period. Applications are still under review.
 - Anticipated cumulative grant award outcomes: 2 diesel-to-electric transit bus replacements (2 total replacements).
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: The following are the submitted, approved, and/or pending project reimbursements requested by PA DEP in Funding Requests (FRs).
 - FR0004: \$1,104,000.00 requested and approved by the Trustee on January 25, 2021.
 - Administrative expenditures to date: The following are the submitted, approved, and/or pending administrative expenditure reimbursements requested by PA DEP in Funding Requests (FRs) for this EMA.
 - FR0004: \$13,723.18 requested and approved by the Trustee on January 25, 2021.
 - PA DEP has approximately \$5,679.00 in pending administrative costs associated with the Truck & Bus Fleet Grant Program, that will be submitted with the next eligible funding request that includes EMA 2 projects.

Onroad Rebate Program – CY2018-2019; CY2020

- *Development*
 - As revised for CY2020, this program funds the repower or replacement of eligible Class 4-8 local freight trucks, school buses, shuttle, buses, transit buses, and drayage trucks (EMAs 1, 2, and 6). When it was originally developed, this program only funded repowers or replacements for Class 4-7 local freight trucks, school buses, shuttle buses, and port drayage trucks (EMAs 1, 2, and 6). PA DEP has also revised the program to accept multiple vehicles per application and issue single rebate vouchers for a fleet of

eligible vehicles (up to 5), where previously the program only provided single vehicle rebates.

- *Actual or Projected Termination Date*
 - Application periods: No funding application periods were open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in July 2021.
- *Implementation*
 - CY2018-2019 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - up to 19.9 percent for a non-government owned shuttle bus replacement, and
 - 34.4 to 54.1 percent for the replacements of school buses contracted with a public school.
 - CY2018-2019 – PA DEP issued 260 rebate vouchers for \$10,499,333.00 to replace 260 EMA 2 eligible vehicles under this program (See EMA 6 for additional rebates).
 - CY2020 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 23.9 to 39.5 percent for government owned vehicle replacement projects.
 - CY2020 – PA DEP issued 50 rebate vouchers for \$4,280,937.16 to replace 144 EMA 2 eligible vehicles under this program.
 - Anticipated cumulative rebate award outcomes: 302 diesel-to-diesel school bus replacements; 45 biodiesel-to-biodiesel (B5) school bus replacements, 53 diesel-to-LPG (propane) ‘government-owned’ school bus replacements, 3 diesel-to-electric (including infrastructure) replacements, and 1 diesel-to-diesel shuttle bus replacement. (404 total replacements).
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: The following are the submitted, approved, and/or pending project reimbursements requested by PA DEP in Funding Requests (FRs).
 - FR0001: \$364,455.00 requested and approved by Trustee on September 20, 2019.
 - FR0002: \$7,174,878.00 requested and approved by Trustee on February 25, 2020.
 - FR0003: \$2,960,000.00 requested and approved by Trustee on September 14, 2020.
 - Administrative expenditures to date: The following are the submitted, approved, and/or pending administrative expenditure reimbursements requested by PA DEP in Funding Requests (FRs) for this EMA.
 - FR0001: \$52,401.90 requested and approved by Trustee on September 20, 2019.
 - FR0002: \$269,664.83 requested and approved by Trustee on February 25, 2020.
 - FR0003: \$10,149.97 requested and approved by Trustee on September 14, 2020.
 - PA DEP has approximately \$15,488.30 in pending administrative costs associated with the Onroad Rebate Program, that will be submitted with the next eligible funding request that includes EMA 2 projects.

EMA 3: Freight Switchers

PA DEP funds projects eligible under this EMA through the Marine and Rail Freight Movers Grant Program. Details for the program are provided below.

Marine and Rail Freight Movers Grant Program – CY2020-2021

- *Development*
 - PA DEP developed this program to fund the repower or replacement of eligible freight switchers (EMA 3) and the repower or upgrade of eligible marine engines (EMA 4). This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: This program opened for Round 1 applications from January 31, 2020 through June 5, 2020. The program reopened for Round 2 applications from November 6, 2020 through March 19, 2021.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in December 2021.
- *Implementation*
 - CY2020-2021 – Funding percentages: PA DEP committed to reimburse the following percentage of eligible project costs:
 - 60 percent for a government-owned, non-road equipment replacement project.
 - CY2020-2021 – PA DEP offered up to 60 percent reimbursement for government-owned repowers or replacements (up to 80 percent for electric), and up to 40 percent reimbursement for non-government owned repowers or replacements (up to 75 percent for electric) for Round 2 funding.
 - CY2020-2021 – Total awarded grants: PA DEP awarded \$1,260,000 to one (1) EMA 3 project during this reporting period.
 - Anticipated grant award outcomes: Replacement of 1 switcher locomotive with a diesel-electric switcher locomotive.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for these projects because none have been completed. PA DEP expects to request disbursement for these projects in 2021 or 2022.
 - Administrative expenditures to date: PA DEP has approximately \$12,793.06 in pending administrative costs associated with the Marine & Rail Freight Movers Grant Program, that will be submitted with the next eligible funding request that includes EMA 3 projects. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA.

EMA 4: Ferries/Tugs

PA DEP funds projects eligible under this EMA through the Marine and Rail Freight Movers Grant Program. Details for the program are provided below.

Marine and Rail Freight Movers Grant Program – CY2020-2021

- *Development*
 - PA DEP developed this program to fund the repower or replacement of eligible freight switchers (EMA 3) and the repower or upgrade of eligible marine engines (EMA 4). This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: Round 1 of this program opened for applications from January 31, 2020 through June 5, 2020. The program reopened for Round 2 applications from November 6, 2020 through March 19, 2021.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in December 2021.
- *Implementation*
 - CY2020-2021 – Funding percentages: PA DEP offered up to 60 percent reimbursement for government-owned repowers or replacements (up to 80 percent for electric), and up to 40 percent reimbursement for non-government owned repowers or replacements (up to 75 percent for electric).
 - Total awarded grants: No grants were awarded during this reporting period under this program for this EMA.
 - Anticipated grant award outcomes: Unknown at this time.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for these projects because none have been completed. PA DEP expects to request disbursement for these projects in 2021 or 2022.
 - Administrative expenditures to date: PA DEP has no pending administrative costs linked to this EMA under this program. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA under this program.

EMA 5: Ocean Going Vessels (OGV) Shorepower

PA DEP funds projects eligible under this EMA through the Ocean-Going Vessel Shorepower Grant Program. Details for the program are provided below.

Ocean-Going Vessel Shorepower Grant Program – CY2019-2020

- *Development*
 - PA DEP developed this program to fund the installation of eligible marine shorepower systems at eligible port locations in Pennsylvania. This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application period: No application periods were open during this reporting period.

- Next available funding: PA DEP plans to reopen this program and offer funding in 2021 or 2022.
- *Implementation*
 - Funding percentages: PA DEP offered up to 75 percent reimbursement for government applicants and up to 25 percent reimbursement for non-government applicants.
 - Total awarded grants: No grants were awarded during this reporting period; no applications were received.
 - Anticipated grant award outcomes: Unknown at this time, due to no awards being issued.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for this EMA because no projects have been approved for funding. PA DEP expects to request disbursement for projects under this EMA in 2021 or 2022.
 - Administrative expenditures to date: PA DEP has approximately \$3,927.57 in pending administrative costs linked to this EMA, that will be submitted with the next eligible funding request to the Trustee. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA.

EMA 6: Class 4-7 Local Freight Trucks (Medium Trucks)

PA DEP funds projects eligible under this EMA through two programs, the details for which are provided below:

- Truck and Bus Fleet Grant Program (beginning CY2020) (formerly Class 8 Truck and Transit Bus Grant Program)
- Onroad Rebate Program

Truck and Bus Fleet Grant Program

CY2020

- *Development*
 - As revised for CY2020, this program funds the repower or replacement of eligible Class 4-8 local freight trucks, school buses, shuttle, buses, transit buses, and drayage trucks (EMAs 1, 2, and 6). When it was originally developed, this program only funded the repower or replacement of Class 8 local freight trucks (EMA 1) and transit buses (EMA 2). This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: No funding application periods were open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in July 2021.
- *Implementation*
 - CY2020 – Funding percentages: PA DEP is still evaluating applications and has not made funding commitments yet for awards for CY2020.
 - CY2020 – Total awarded grants: No grant awards were made in the current reporting period. Applications are still under review.
 - Anticipated cumulative grant award outcomes: Unknown at this time.

- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for this EMA because no projects have been approved for funding. PA DEP expects to request disbursement for projects under this EMA in 2021 or 2022.
 - Administrative expenditures to date: PA DEP has no pending administrative costs linked to this EMA under this program. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA under this program.

Onroad Rebate Program –
CY2018-2019; CY2020

- *Development*
 - As revised for CY2020, this program funds the repower or replacement of eligible Class 4-8 local freight trucks, school buses, shuttle buses, transit buses, and drayage trucks (EMAs 1, 2, and 6). When it was originally developed, this program only funded repowers or replacements for Class 4-7 local freight trucks, school buses, shuttle buses, and port drayage trucks (EMAs 1, 2, and 6). PA DEP has also revised the program to accept multiple vehicles per application and issue single rebate vouchers for a fleet of eligible vehicles (up to 5), where previously the program only provided single vehicle rebates.
- *Actual or Projected Termination Date*
 - Application periods: Application periods: No funding application periods were open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding in July 2021.
- *Implementation*
 - CY2018-2019 – PA DEP issued 9 rebate vouchers for \$225,000.00 to replace 9 EMA 6 eligible vehicles under this program (See EMA 2 for additional rebates).
 - CY2018-2019 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 13.5 to 20.8 percent for the non-government owned vehicle replacement projects.
 - CY2020 – PA DEP issued 5 rebate vouchers (3 are all Class 4-7 trucks, 2 are mixed class trucks) for \$380,594.75 to replace 9 EMA 6 eligible vehicles under this program.
 - CY2020 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 19.9 to 60.2 percent for non-government owned vehicle replacement projects, and
 - up to 70.0 percent for government-owned vehicle replacement projects.
 - Anticipated cumulative rebate award outcomes: 17 diesel-to-diesel Class 4-7 truck replacements and 1 diesel-to-propane Class 4-7 truck replacement. (18 total replacements).
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: The following are the submitted, approved, and/or pending project reimbursements requested by PA DEP in Funding Requests (FRs).
 - FR0002: \$225,000.00 requested and approved by Trustee on February 25, 2020.
 - Administrative expenditures to date: PA DEP has an additional approximately \$2,581.38 in pending administrative costs associated with the Onroad Rebate Program that will be

submitted with the next eligible funding request that includes EMA 6 projects. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA.

EMA 7: Airport Ground Support Equipment

PA DEP funds projects eligible under this EMA through the Electric Cargo Handling Grant Program. Details for the program are provided below.

Electric Cargo Handling Grant Program – CY2019-2020

- *Development*
 - PA DEP developed this program to fund the repower or replacement of diesel-powered forklifts (EMA 8), airport ground support equipment (GSE) (EMA 7), and port cargo handling equipment (EMA 8) with all-electric equipment. This program is a reimbursement grant program, meaning that project work must be completed before the grantee applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: This program opened for Round 1 applications from June 21, 2019, through November 15, 2019. The program reopened for Round 2 applications from November 6, 2020, through March 5, 2021.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding later in late summer/early fall 2021.
- *Implementation*
 - CY2019-2020 – PA DEP committed to reimburse up to 60 percent for a government owned GSE replacement with electric project, and up to 40 percent for a non-government owned GSE replacement with electric project for Round 2 funding.
 - Total awarded grants: No grants were awarded during this reporting period.
 - Anticipated grant award outcomes: Unknown at this time.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for these projects because none have been completed. PA DEP expects to request disbursement for these projects in 2021 or 2022.
 - Administrative expenditures to date: PA DEP has approximately \$8,550.66 in pending administrative costs linked to this EMA, that will be submitted with the next eligible funding request with EMA 7 projects. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA.

EMA 8: Forklifts and Port Cargo Handling Equipment

PA DEP funds projects eligible under this EMA through the Electric Cargo Handling Grant Program. Details for the program are provided below.

Electric Cargo Handling Grant Program – CY2019-2020

- *Development*

PA DEP developed this program to fund the repower or replacement of diesel-powered forklifts (EMA 8), airport ground support equipment (GSE) (EMA 7), and port cargo handling equipment (EMA 8) with all-electric equipment. This program is a reimbursement

grant program, meaning that project work must be completed before the grantee applies for reimbursement from PA DEP.

- *Actual or Projected Termination Date*
 - Application periods: This program was opened for Round 1 applications from June 21, 2019, through November 15, 2019. The program reopened for Round 2 applications from November 6, 2020, through March 5, 2021.
 - Next available funding: PA DEP plans to reopen this program and offer additional funding later in late summer/early fall 2021.
- *Implementation*
 - CY2019-2020 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - up to 70.0 percent for a government-owned electric vehicle or equipment replacement project.
 - PA DEP committed to reimburse up to 60 percent for a government owned forklift or port cargo handling equipment replacement with electric project, and up to 40 percent for a non-government owned forklift or port cargo handling equipment replacement with electric project for Round 2 funding.
 - Total awarded grants: PA DEP awarded \$435,960.00 to one (1) EMA 8 project during this reporting period.
 - Anticipated grant award outcomes: 2 diesel-to-electric terminal tractor replacements.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for these projects because none have been completed. PA DEP expects to request disbursement for these projects in 2021 or 2022.
 - Administrative expenditures to date: PA DEP has approximately \$8,550.67 in pending administrative costs linked to this EMA, that will be submitted with the next eligible funding request including EMA 8 projects. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA.

EMA 9: Light-Duty Zero Emission Vehicle Supply Equipment

PA DEP funds projects eligible under this EMA through two programs, the details for which are provided below:

- DC Fast Charging and Hydrogen Fueling Grant Program
- Level 2 Electric Vehicle (EV) Charging Rebate Program

DC Fast Charging and Hydrogen Fueling Grant Program – CY2018-2019; CY2020

- *Development*
 - PA DEP developed this program to fund the purchase and installation of DC fast (Level 3) electric vehicle chargers or hydrogen refueling infrastructure. This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: The application period for Round 1 opened from July 2, 2020, through September 4, 2020. The application period for Round 2 opened from September 5, 2020 through February 26, 2021 (Round 2).

- Next available funding: PA DEP plans to reopen this program and offer additional funding later in July/August 2021
- *Implementation*
 - CY2018-2019 – Funding percentages: PA DEP committed to reimburse up the following percentages of eligible project costs
 - 69.3 to 75.0 percent of eligible costs for the purchase and installation of DC fast electric vehicle charging infrastructure.
 - CY2018-2019 – Total awarded grants: \$2,679,112.77.00 to 11 EMA 9 projects.
 - CY2020 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs
 - 47.1 to 74.9 percent of eligible costs for the purchase and installation of DC fast electric vehicle charging infrastructure.
 - CY2020 – Total awarded grants: Recommendations for funding are currently under review.
 - Anticipated cumulative grant award outcomes: Installation of 26 DC fast chargers. Additionally, 10 Level 2 EV charging plugs will be installed in conjunction with these projects but are not funded by this program.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: No disbursement requests have been submitted to the Trustee and no funds have been disbursed from the Trust Fund for these projects. Reimbursement requests for the first completed projects in this EMA are expected to be submitted in the next reporting period. PA DEP expects to request disbursement for these projects into late 2021 and 2022.
 - Administrative expenditures to date: PA DEP has approximately \$84,830.13 in pending administrative costs linked to this EMA, that will be submitted with the next eligible funding request including EMA 9 projects. PA DEP has not previously submitted any reimbursement requests for administrative costs for this EMA under this program.

Level 2 Electric Vehicle (EV) Charging Rebate Program – Version 1 (CY2018-2019); Version 2 (CY2020); Version 3 (2021)

- *Development*
 - PA DEP developed this program to provide rebates for the installation of Level 2 EV chargers in specific location types. This program is issued in ‘Versions’ rather than by calendar year.
- *Actual or Projected Termination Date*
 - Application periods: Version 2 opened for applications (continuous) from December 2, 2019 through April 30, 2021. Version 3 opened for applications on May 6, 2021 and will remain open until funds are awarded for the installation of an additional 750 Level 2 EV charging plugs.
 - Next available funding: Currently accepting applications. Next offering will be determined when the number of plugs installed in Version 3 reaches 750.
- *Implementation*
 - Version 1 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 15.8 to 100 percent of eligible project costs, depending on the public accessibility of the project and whether the site is networked.

- Version 1 – PA DEP issued 221 rebate vouchers (excludes vouchers that were withdrawn, denied, or expired) from October 2018 through December 1, 2019 for \$3,183,998.00 for installation of Level 2 EV chargers. PA DEP has approved 220 of the issued vouchers for reimbursements totaling \$3,039,208.00 for EMA 9 projects.
- Version 2 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 15.0 to 90.0 percent of eligible project costs, depending on the public accessibility of the project and whether the site is networked.
- Version 2 – PA DEP issued 201 rebate vouchers (excludes vouchers that were withdrawn, denied, or expired) December 2, 2019 through June 30, 2021 for a total of \$2,727,517.00, for installation of Level 2 EV chargers. DEP has approved 45 of the issued vouchers for reimbursements totaling \$533,028.00 for EMA 9 (Level 2) projects.
- Version 3 – PA DEP issued 32 rebate vouchers for the newly opened Version 3, totaling \$325,143.00, for the installation of Level 2 chargers.
- Version 3 – Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 15.0 to 80.0 percent of eligible project costs, depending on the public accessibility of the project and whether the site is networked.
- Anticipated cumulative rebate award outcomes: Installation of 1,047 new Level 2 EV charging plugs across Pennsylvania are complete. In total, installation of 1,572 Level 2 EV charging plugs is anticipated from currently active vouchers, including those already approved for reimbursement.
- *Summary of Costs Expended During Reporting Period*
 - Project disbursements to date: The following are the submitted, approved, and/or pending project reimbursements requested by PA DEP in Funding Requests (FRs).
 - FR0001: \$226,913.00 requested and approved by Trustee on September 20, 2019.
 - FR0002: \$872,899.00 requested and approved by Trustee on February 25, 2020.
 - FR0003: \$1,147,755.60 requested and approved by Trustee on September 14, 2020.
 - FR0004: \$970,860.00 requested and approved by the Trustee on January 25, 2021.
 - Administrative expenditures to date: The following are the submitted, approved, and/or pending administrative expenditure reimbursements requested by PA DEP in Funding Requests (FRs) for this EMA.
 - FR0001: \$34,036.95 requested and approved by Trustee on September 20, 2019.
 - FR0002: \$63,023.45 requested and approved by Trustee on February 25, 2020.
 - FR0003: \$39,748.34 requested and approved by Trustee on September 14, 2020.
 - FR0004: \$49,051.98 requested and approved by the Trustee on January 25, 2021.
 - PA DEP has approximately \$54,341.81 in pending administrative costs linked to this EMA, that will be submitted with the next eligible funding request to the Trustee.

EMA 10: Diesel Emission Reduction Act (DERA) Option

Under this EMA, PA DEP is authorized to use Trust Fund monies as its voluntary match funds under the EPA's State Clean Diesel Grant Program. PA DEP participated in the EPA's State Clean Diesel Grant Program prior to the establishment of the Trust Fund and has continued to do so with the addition of the match funds from the Trust Fund.

Pennsylvania State Clean Diesel Grant Program –
Fiscal Years (FY) 2017-2018, FY2019-2020

- *Development*
 - PA DEP modified its existing program to fund a variety of diesel emission reduction projects authorized by the Diesel Emission Reduction Act². This program is a reimbursement grant program, meaning that project work must be completed before the grant recipient applies for reimbursement from PA DEP.
- *Actual or Projected Termination Date*
 - Application periods: No funding application periods open during this reporting period.
 - Next available funding: PA DEP plans to reopen this program for FY2020 and offer additional funding in July/August 2021.
- *Implementation*
 - FY2017-2018 Funding percentages: PA DEP committed to reimburse the following percentages of eligible project costs:
 - 14.0 to 25.0 percent of eligible project costs for vehicle and equipment replacement projects, and
 - up to 39.8 percent for a locomotive idle reduction project.
 - FY2017-2018 Total awarded grants: \$3,259,683 to 13 EMA 10 projects (\$2,427,439.60 from Trust Funds, \$832,243.40 from EPA funds).
 - FY2019 applications are still being evaluated. Funding percentages will be determined in next reporting period.
 - FY2019 awards will be announced in next reporting period.
 - FY2020 awards will likely be announced late 2021/early 2022.
 - Anticipated grant award outcomes: 39 diesel-to-diesel school bus replacements; 17 diesel-to-CNG refuse truck replacements; 12 diesel-to-diesel refuse truck replacements; 2 diesel-to-diesel trash compactor vehicle replacements; 1 diesel-to-diesel bulldozer replacement; 2 diesel-to-diesel street sweeper replacements; 1 diesel-to-diesel crawler tractor replacement; and installation of idle reduction technology on 6 locomotives. (74 total replacements and 6 retrofits)
 - PA DEP’s latest PA State Clean Diesel Grant Quarterly Reports, which are submitted to the EPA to document DERA projects, are included as attachments to this report.

• *Summary of Cumulative Costs Expended Through Reporting Period*

Available Funds	FY2017	FY2018	Combined
EPA Funds (base and bonus)	\$413,218.00	\$419,025.00	\$832,243.00
Trust Funds (voluntary match)	\$275,479.00	\$2,154,310.00	\$2,429,789.00
Total Available	\$688,697.00	\$2,573,335.00	\$3,262,032.00

² “Diesel Emissions Reduction” program in the Energy Policy Act of 2005 (EPAAct 2005, P.L. 109-58, Title VII, Subtitle G §§791-797; 42 U.S.C. §§16131-16137)

Available Funds	FY2019	FY2020	Combined
EPA Funds (base and bonus)	\$500,532.00	\$553,494.00	\$1,054,026.00
Trust Funds (voluntary match)	\$2,154,309.00	\$2,154,310.00	\$4,308,619.00
Total Available	\$2,654,841.00	\$2,707,804.00	\$5,362,645.00

- Project disbursements to date: The following are the submitted, approved, and/or pending project reimbursements requested by PA DEP in Funding Requests (FRs).
 - FR0001: \$116,401.40 requested and approved by Trustee on September 20, 2019. These project payments were matched by \$174,602.10 in EPA funds.
 - FR0003: \$2,073,209.68 requested and approved by Trustee on September 14, 2020. These project payments were matched by \$605,721.82 in EPA funds.
 - FR0004: \$146,728.84 requested and approved by the Trustee on January 25, 2021. These project payments were matched by \$38,943.00 in EPA funds.
- Administrative expenditures to date: The following are the submitted, approved, and/or pending administrative expenditure reimbursements requested by PA DEP in Funding Requests (FRs) for this EMA.
 - FR0001: \$17,460.21 requested and approved by Trustee on September 20, 2019.
 - FR0003: \$16,831.21 requested and approved by Trustee on September 14, 2020.
 - FR0004: \$22,009.33 requested and approved by the Trustee on January 25, 2021.
 - PA DEP has approximately \$16,266.54 in pending administrative costs that will be submitted with the next eligible funding request that includes EMA 10 projects.

Additional Administrative Costs:

In addition to the administrative costs noted by EMA above, PA DEP also calculates general administrative costs for work applying to multiple EMAs, that will be included in various EMA submissions where there is room under the 15 percent cap. PA DEP has approximately \$24,487.52 in pending administrative costs that will be submitted appropriate with the next eligible funding request(s).

I, as an authorized representative of the Pennsylvania Department of Environmental Protection and the Commonwealth of Pennsylvania, attest that the information submitted in this report is true and correct, under penalty of perjury.



 Patrick McDonnell, Secretary
 Pennsylvania Department of Environmental Protection
 Attachments

July 27, 2021

 Date