



Bureau of Air Quality

Ocean-Going Vessel Shorepower Grant Program CY2019-2020

A Driving PA Forward Program

Overview and Application Process Webinar

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Webinar Agenda

1. Background and Scope
2. Award Information
3. Eligibility Information
 - a. Eligible and Ineligible Applicants
 - b. Eligible Project Types and Project Locations
 - c. Ineligible Project Types
 - d. Additional Funding Restrictions
4. Cost Share and Scrappage Requirements
 - a. Mandatory Cost Share
 - b. Voluntary Cost Share
5. General Conditions, Reporting, and Project Monitoring
6. Application Review, Scoring, and Project Selection
7. How to Apply
8. Website
9. Application Instructions and Walk-through

Background and Scope

- Reducing emissions from diesel engines is a significant air quality challenge facing the Commonwealth of Pennsylvania.
- The Wolf Administration has developed new grant and rebate programs under the Driving PA Forward initiative
 - to improve air quality in Pennsylvania
 - drive transformation from older, polluting diesel engines to clean technologies
 - reduce (NO_x) emissions from diesel-powered mobile sources through funding diesel emission reduction projects.
- New engine technologies can significantly reduce pollutants from vehicles and engines that rely on older diesel technology.
- The Ocean-Going Vessel Shorepower Grant Program is one of the Driving PA Forward financial incentive programs that the PA Department of Environmental Protection (DEP) has developed to fund Eligible Mitigation Actions (EMAs) from Pennsylvania's \$118.5 million allocation from the State Mitigation Trust.

Background and Scope

Definitions

- ‘Ocean-Going Vessel’ – barges, bulk vessels, container vessels, cruise vessels, fishing vessels, lakers, passenger vessels, reefer vessels, RORO, ROPAX, tanker vessels, and tug vessels.
- ‘Marine shorepower’ – Shore-side electrical power that marine vessels can plug into while at berth to power ancillary systems including on-board electrical systems, loading/unloading equipment, refrigeration, heating, and cooling
- ‘Port’ – a site located at a point along navigable waters (seaport), at a point along an international border (border point), or at a location away from navigable waters or international borders that is used to facilitate the transfer of goods between modes of transportation including air, marine, rail, and truck (inland port or intermodal terminal).

Background and Scope

Definitions

- ‘Hoteling’ – vessel operations while stationary at the dock.
- ‘Barge-mounted shorepower’ – electricity provided directly to shorepower enabled vessels from a self-contained power station installed on a barge.
- ‘Containerized shorepower’ – electricity supplied by a dockside system comprised of a cable reel, switchboard, transformers, and power monitoring and control systems. These systems may be designed so they are modular systems.

Background and Scope

Definitions

- ‘Dock-mounted shorepower’ – electricity provided by a permanent installation at a port that is connected directly and permanently to the shoreside electric grid.
- ‘High voltage shorepower design standards’ – standards established by the ISO in the document titled ISO/IEC/IEEE 80005-1-2012 High Voltage Shore Connection Systems or successor documents.
- ‘Low voltage shorepower design standards’ – standards established by the ISO in the document titled IEC/PAS 80005-3:2014 Low Voltage Shore Connection Systems standards or successor documents.

Award Information

- CY2019-2020 Available Funding - \$3 million.
- Project Period – The date a grant agreement is fully executed to 3 year later. Extensions are allowed and will be considered on a case-by-case basis.
- Funding Type – A reimbursement grant program.
- Technology Compatibility –
 - DEP strongly encourages applicants to ensure technology compatibility of all project elements prior to submitting application.
 - DEP strongly discourages changing technologies after a grant has been awarded but will consider requests to modify grant agreements on a case-by-case basis.

Eligibility Information

Eligible Applicants:

1. Businesses
2. Incorporated non-profit
3. State, Local, and Tribal Government
 - a. Including: school district, municipality, city, county, special district, transit district, joint powers authority, or port authority, owning fleets purchased with government funds; or tribal governments
4. Local, regional, or multi-state air quality or transportation organizations.
5. Metropolitan or rural planning organizations.
6. Some Federal agencies

Eligibility Information

Eligible applicants, or the entities they represent, must have a physical location or base of operations (port facility) located predominately within the boundaries of Pennsylvania.

Ineligible Applicants:

1. Businesses not incorporated or registered in PA
2. Individuals applying as individuals, not on behalf of an eligible applicant.

Eligibility Information

Eligible Project Types

- Purchase and installation of an eligible dock-mounted, containerized, or barge-mounted marine shore power system.
 - Marine shore power systems:
 - Must comply with international shore power design standards (ISO/IEC/IEEE 80005-1-2012 High Voltage Shore Connection Systems or the IEC/PAS 80005-3:2014 Low Voltage Shore Connection Systems). See below for detailed requirements.
 - Should be supplied with power sourced from the local utility grid or be self-contained.

Eligibility Information

Additional Project Requirements

- The applicant must demonstrate that the proposed project can achieve a minimum cost-effectiveness of \$40,000/per ton NO_x reduced.
- Applicants must demonstrate that the proposed shorepower system has the capacity, demand, and commitment to be utilized for more than 1,000 MW-hours per year. Smaller projects will be considered if the applicant can demonstrate cost/benefits.
- If an applicant's project proposal is selected for funding, the final design of the marine shorepower connection system will require specific DEP approval prior to purchase and installation.

Eligibility Information

Additional Project Requirements

- Applicants must commit to reporting usage information to DEP for five years after the shorepower system is operational.
- Shorepower capable vessels docked at a berth where shorepower is available must be required to turn off the vessel's main and auxiliary engines used for hoteling requirements and utilize the shorepower system, with limited exceptions for extreme circumstances.

Eligibility Information

Additional Project Requirements

- Applicants will need to provide, at minimum, the following information:
 - the annual number of ship visits to berth(s) where the shorepower system is to be installed;
 - average hoteling (or idling) time per visit;
 - information about the fleet of vessels that has, or will have, the ability to use the shore-side connection system;
 - any documented commitment of visits and hours by the fleet of vessels that has, or will have, the ability to use the shore-side connection system; and
 - estimated emission reductions using the step-by-step instructions provided in Appendix B of the U.S. Environmental Protection Agency's (EPA) Shore Power Port Assessment Report.

Eligibility Information

Eligible Project Locations

- Eligible locations must:
 - Be along navigable waters that serve ocean-going vessels.
 - Includes locations on the shores of the Great Lakes.
 - OGVs include: barges, bulk vessels, container vessels, cruise vessels, fishing vessels, lakers, passenger vessels, reefer vessels, RORO, ROPAX, tanker vessels, and tug vessels.
 - Be predominately located within Pennsylvania's borders. Some of the facility may cross state borders but the majority of the site must be within Pennsylvania.

Eligibility Information

Eligible Project Locations

- Have, or be able to have installed, the necessary electrical infrastructure to power a shorepower system.
- Have enough business from compatible ships to make a shorepower system cost-effective. See below for details on potential usage requirements.

Eligibility Information

Ineligible Project Types

- Marine shorepower installation at a facility that does not serve ocean-going vessels.
- Marine shorepower installation that does not meet international shore power design standards.
- Marine shorepower installations at facilities primarily located outside of Pennsylvania.

Eligibility Information

Ineligible Project Types

- Projects already completed or started prior to submitting an application to DEP.
- Projects that are physically located entirely outside of Pennsylvania.
- Projects that were previously funded by a different state or federally funded grant program.
- Projects with no measurable environmental net benefit for the Commonwealth.

Funding Restrictions

No funds awarded under the Ocean-Going Vessel Shorepower Grant Program may be used:

- for lobbying, or intervention in local, state, or federal regulatory or adjudicatory proceedings, and cannot be used to sue the Commonwealth of Pennsylvania or any other government entity.
- to cover expenses incurred prior to the project period set forth in any grant agreement funded by the Ocean-Going Vessel Shorepower Grant Program. Additionally, expenses incurred prior to the project period set forth in any grant agreement resulting from this project solicitation are not eligible as a cost-share for proposed projects.
- to prepare the Ocean-Going Vessel Shorepower Grant Program grant application.
- for administrative costs.

Cost Share

Ocean-Going Vessel Shorepower Grant Program Reimbursement Chart

Project Type	Government Applicant* Cost Share	Non-Government Applicant Cost Share
Marine Shorepower Purchase and Installation	Up to 75% reimbursement / minimum 25% from applicant	Up to 25% reimbursement / minimum 75% from applicant

* Note: Preference will be given to applicants that are approved distressed municipalities under Act 47, Financially Distressed Municipalities Act of 1987, by allowing up to 100 percent reimbursement for eligible projects. Such municipality must be identified on DCED's website to be eligible.

Cost Share

Mandatory Cost-Share Requirement

- Applicant's must commit to at least the minimum mandatory cost-share for the applicant type.
- The following marine shorepower components are eligible for funding:
 - Cables,
 - Cable management systems,
 - Shorepower coupler systems,
 - Distribution control systems,
 - Installation, and
 - Power distribution components.

Cost Share

Voluntary Cost Share

- Voluntary cost share/overmatch - additional funds/resources above and beyond mandatory cost share.
- Not required but a voluntary cost share or overmatch may improve the environmental outputs and outcomes of the project; may also improve the cost-effectiveness of a project, resulting in a higher score during the evaluation process.
- If proposed, the voluntary cost share or overmatch funds must be included in the total for the match portion of the budget section of the application.

See the application instructions for allowable sources for match funds.

General Conditions, Reporting, and Project Monitoring

- **Public Disclosure of Application Documents**
 - Ocean-Going Vessel Shorepower Grant Program applications and supporting documentation are public documents and subject to disclosure to the public upon request.
- **Additional Conditions**
 - DEP may consider past performance of applicants who have received state funded grants when determining grant eligibility.
 - All projects must be in compliance with all applicable local, state, and federal laws and must adhere to DEP guidance and policies.
 - Applicants must not have any outstanding obligations (financial or otherwise) to the Commonwealth and must not have any unresolved environmental violations.
 - Grantees must secure all permits or approvals otherwise required for the project to proceed, including permits required by DEP.

General Conditions, Reporting, and Project Monitoring

- **Reporting Requirements**

- Quarterly Reports: Quarterly reports will be submitted to DEP within 14 days after the end of each quarter during the project period. Reporting quarters end March 31, June 30, September 30, and December 31.
- Final Report: A final report will be submitted to DEP upon completion of the project, no later than 30 days after the Project Completion Date established by the grant agreement or future amendments.
- Annual Follow-Up Reports: An annual follow-up report will be submitted to DEP, at the earliest, one year after the completion of the project, but no later than one year and 30 days after the Project Completion Date, and each year thereafter for 5 years total. Detailed requirements for the annual follow-up reports will be established in the grant agreement.

- **Report Submission**

- This program uses an electronic reporting system.
- Successful grantees will be required to register for and submit all required reports through this electronic system.
- Registration and submission details will be included in the package with a fully executed grant agreement.

General Conditions, Reporting, and Project Monitoring

- **Financial Monitoring**

- Grantees must properly manage and account for funding received under the Ocean-Going Vessel Shorepower Grant Program and any matching funds provided by the applicant.
- No credit will be given for funds spent prior to the period of performance, unless otherwise approved in writing by DEP. All funding must be spent in accordance with the spending plan included in the grant agreement.
- Extensions of the grant period of performance will not be issued, unless DEP concludes it to be necessary based on its own determination or in response to an approved request from the grantee.

General Conditions, Reporting, and Project Monitoring

- **Financial Monitoring**

- Projects may be subject to PA Prevailing Wage Act requirements.
- DEP reserves the right to terminate the project and/or recover funding from grantees not properly managing the funding in accordance with the conditions of the program and the grant agreement.
- DEP reserves the right to inspect projects financed with Ocean-Going Vessel Shorepower Grant Program funds and to audit or require a third-party audit of any project's financial transactions or compliance with agreement terms.

General Conditions, Reporting, and Project Monitoring

Project Status and Monitoring

- Grantees will be required to provide a status report with each application for reimbursement, as outlined in the grant agreement.
- DEP may, at any time during the project period, request an update on the status of the project.
- Project Completion
 - The project must be completed in accordance with the specifics of the grant agreement.
 - Modifications will not be considered, except for very limited scope and budget changes. All changes must be approved by DEP.
 - On-site inspection of the project work or waiver from DEP required to confirm project completion. DEP will send written notification to the grantee when it has confirmed that the project work is complete.

Scoring

- DEP will conduct a comprehensive review of the grant applications and supporting documentation.
- Some of the scoring criteria include the following:
 - Small business status
 - Emission reductions, particularly NO_x reductions
 - Cost effectiveness (\$/ton NO_x reduced)
 - Size of the marine shorepower installation
 - Match funding requirements
 - Project location – environmental justice areas, priority counties, high-pollution areas, Act 47 municipalities
 - Population density

Scoring

- **Project Selection**

- Complete applications will be reviewed and evaluated by a panel of air quality experts using the criteria defined on the previous slide.
- Applications with the highest scores will be considered first for funding.
- Other criteria, such as an applicant's past performance with DEP grants or the Commonwealth's economic and environmental priorities, may be considered.
- DEP may offer full or partial funding for projects.

Scoring

- **Notification of Applicants**

- All applicants will receive notification whether or not they are being offered grant funding.
- Unsuccessful applicants can contact DEP to discuss the details of why the application was not selected.
- Successful applicants will be assigned a DEP project advisor; grantees may be required to meet with DEP staff to review contract requirements.
- Signatures for grant execution for successful grantees is completed electronically.

How to Apply

- DEP began accepting applications for the Ocean-Going Vessel Shorepower Grant Program on June 12, 2019.
- The application period closes at 4pm on October 30, 2019.
- This application period is for all projects expected to be complete in 2019 or 2020.
- This program will not reopen until 2021, unless otherwise announced by DEP.
- See the Ocean-Going Vessel Shorepower Grant Program Application Instructions document for detailed, step-by-step instructions for registering in eGrants and applying for the grant.

How to Apply

- DEP will only accept grant applications submitted through the Department of Community and Economic Development's (DCED) Electronic Single Application website, eGrants, at: <https://www.esa.dced.state.pa.us/Login.aspx>.
- Minimum application information
 - Applicant and organization information
 - Project location
 - Project Type
 - Project summary
 - Shorepower potential usage information
 - Potential fleet information

How to Apply

- **DEP Assistance and Contacts**

- Questions regarding the application process, including signing up for access and any issues with completing the online application should be directed to the DCED Customer Service Center at 1-800-379-7448. They are open 8:30 am-5:00 pm EST Monday thru Friday.
- Any questions about the contents of the application questions, deadlines, and webinar registration should be directed to Valerie Shaffer or Samantha Harmon at 717.787.9495, or by e-mail to RA-EPVWMITIGATION@pa.gov.

Website

- Program Guidelines, Application Instructions (including screenshots), and a link to the eGrants log-in webpage are available here under Diesel Programs:
- <http://www.depgis.state.pa.us/DrivingPAForward/>

▶ Application Instructions and Walk-through

- Live Demonstration of Application Process
- Screenshots available in Application Instructions

Questions?

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