

You have arrived at:

**Building Green and Resilient
Communities through
Bipartisan Infrastructure
Law Opportunities**

Welcome!

**We will get started
soon.**

Friendly Reminders Before We Get Started

Please **mute yourself** and **turn off your webcam** during presentations.

If you encounter technical difficulties during the meeting, you can:

- ✓ Put a request for help in the chat
- ✓ Call in to the meeting at +1 646 828 7666;
Meeting ID: 160 149 3008
- ✓ Email ezzell.billy@epa.gov

This session is being recorded and will be made available after the summit.

Presenters:

- Magdalene Cunningham, EPA-Region 3, Clean Water State Revolving Fund Coordinator
- Robert Boos, PENNVEST, Deputy Executive Director for Project Management
- Jeffrey Popp, Chesapeake Bay Trust, Senior Program Officer, Restoration

Facilitators:

- Kyle Zieba
- Cynthia Burrows

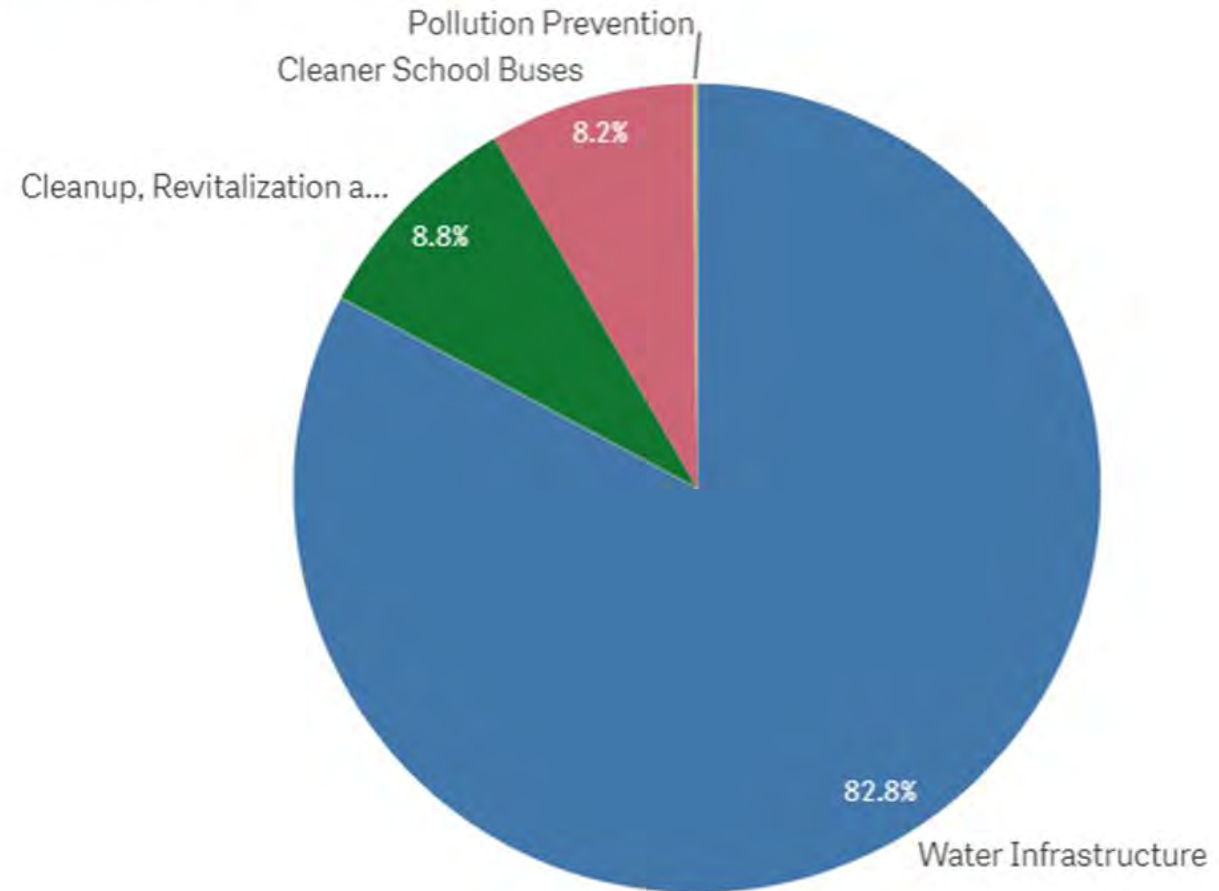
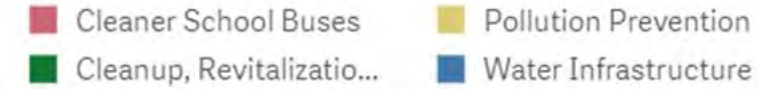
Bipartisan Infrastructure Law Funding Opportunities

BIL Overview

- Signed on November 21, 2021
- Authorization and Appropriation law
- Authorization
 - Created new programs
 - Changed requirements of existing programs
 - Build America, Buy American (BABA)
- Appropriation
 - Provided historic funding levels: once-in-a-generation

\$60 Billion over 5 Years

- \$50.4B for Water Infrastructure
- \$5.3B for Cleanup, Revitalization, and Recycling
- \$5B for Cleaner School Buses
- \$100M for Pollution Prevention



Water Infrastructure (blue pie slice)

- Clean Water State Revolving Fund
- Drinking Water State Revolving Fund
- Underground Injection Control Grants
- Chesapeake Bay Program
- National Estuary Programs
- Small & Disadvantaged Community Assistance Grants for Emerging Contaminants/PFAS

State Revolving Fund Programs

- Federal-State partnership
- EPA's largest grant program - even before BIL
- Drinking water, wastewater, stormwater and nonpoint source
- SRFs function like banks
- Low interest loans; flexible repayment terms
- Loan forgiveness / grants
 - Disadvantaged communities (urban and rural)

DWSRF



GENERAL SUPPLEMENTAL
49% LOAN FORGIVENESS
10% STATE MATCH



EMERGING CONTAMINANTS
100% LOAN FORGIVENESS
0% STATE MATCH



LEAD SERVICE LINE
49% LOAN FORGIVENESS
0% STATE MATCH

CWSRF



GENERAL SUPPLEMENTAL
49% LOAN FORGIVENESS
10% STATE MATCH



EMERGING CONTAMINANTS
100% LOAN FORGIVENESS
0% STATE MATCH

SRF Grant Amounts for FFY 2022 - Base & BIL
(in millions)



	BIL Total	DWSRF GENERAL	DWSRF Lead Service Line Replacement	DWSRF Emerging Contaminants	CWSRF GENERAL	CWSRF Emerging Contaminants
District	\$63,024,000	\$17,922,000	\$28,350,000	\$7,555,000	\$8,738,000	\$459,000
Delaware	\$63,024,000	\$17,922,000	\$28,350,000	\$7,555,000	\$8,738,000	\$459,000
Maryland	\$144,041,000	\$32,960,000	\$51,934,000	\$13,840,000	\$43,046,000	\$2,261,000
Pennsylvania	\$240,167,000	\$55,403,000	\$87,296,000	\$23,264,000	\$70,500,000	\$3,704,000
Virginia	\$126,278,000	\$29,357,000	\$46,256,000	\$12,327,000	\$36,424,000	\$1,914,000
West Virginia	\$83,099,000	\$17,992,000	\$28,350,000	\$7,555,000	\$27,745,000	\$1,457,000
SRF BIL Total	\$719,633,000					

Justice 40 Initiative

- Executive Order 14008-signed 1/27/2021
- “Tackling the Climate Crisis At Home and Abroad”
- Government-wide effort
- 40% of the benefits of federal investment to disadvantaged communities
- EPA selected 3 pilot grant programs:
 - Clean Water State Revolving Fund (CWSRF)
 - Drinking Water State Revolving Fund (DWSRF)
 - Water Infrastructure Improvements for the Nation (WIIN) Act

Justice 40 Initiative – EO 14008

- Directs Federal Agencies, thru state and local partners:
 - to make achieving environmental justice part of their missions;
 - to address the disproportionately high and adverse human health, environmental, climate-related and other cumulative impacts on disadvantaged communities;
 - to secure environmental justice and spur economic opportunity for disadvantaged communities that have been historically marginalized, overburdened by pollution, and underinvested in housing, transportation, **water and wastewater infrastructure**, and health care.

Green Project Reserve (GPR)

- BIL Requires 20% of CWSRF grants go towards:
 - Green infrastructure
 - Water efficiency
 - Energy efficiency
 - Environmental innovation
- Since 2010, the CWSRF state programs in Region 3 funded:
 - 273 GPR projects totaling \$573 million (32%)

Contact Information:

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PENNVEST

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY

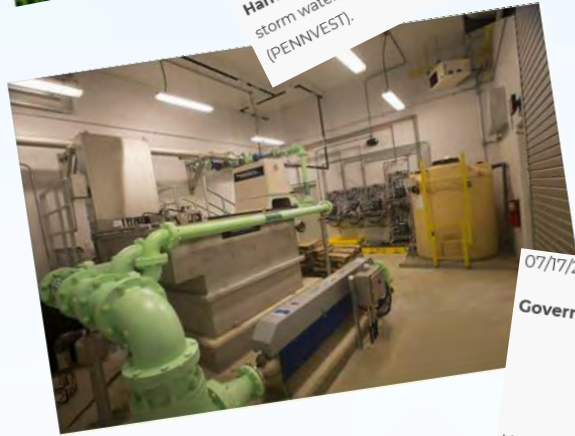
Funding Clean Water Projects!!



10/16/2019

Governor Wolf Announces \$98 Million Investment in Water Infrastructure Projects in 11 Counties

Harrisburg, PA – Governor Tom Wolf today announced the investment of \$98 million for 16 drinking water, wastewater, storm water, and non-point source projects across 11 counties through the Pennsylvania Infrastructure Investment Authority (PENNVEST).



07/17/2019

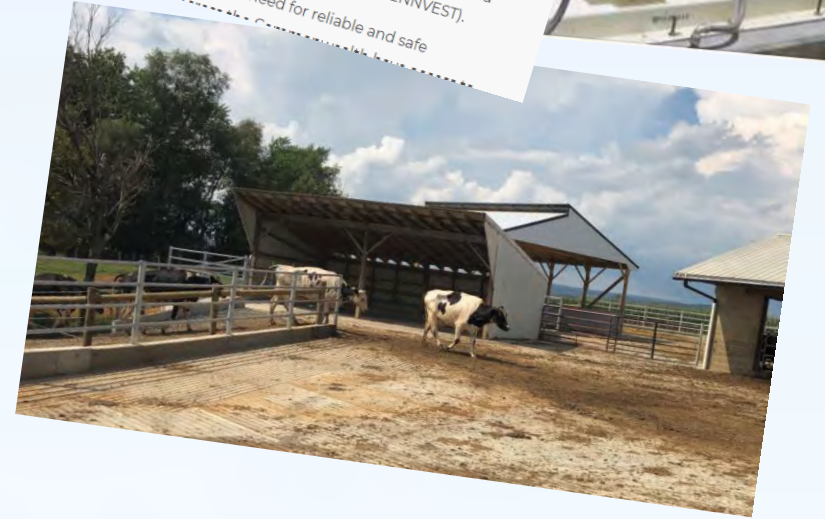
Governor Wolf Announces \$136 Million Investment in Water Infrastructure Projects in 17 Counties

Harrisburg, PA – Governor Tom Wolf today announced the investment of \$136 million for 17 drinking water, wastewater, storm water, and non-point source projects across 17 counties through the Pennsylvania Infrastructure Investment Authority (PENNVEST).

01/29/2020

Governor Wolf Announces \$119 Million Investment in Water Infrastructure Projects in 15 Counties

Harrisburg, PA – Governor Tom Wolf today announced the investment of \$119 million for 18 drinking water, wastewater, and non-point source projects across 15 counties through the Pennsylvania Infrastructure Investment Authority (PENNVEST).
"The investments made today in Pennsylvania's communities continue to demonstrate the need for reliable and safe infrastructure," said Governor Wolf.



How Can PENNVEST Help?

- Drinking Water – Public/Private
- Wastewater – Public/Private
- Stormwater – Public/Private
- Non-Point Source
 - Ag BMPs – Public/Private
 - Acid Mine – Public/Private
 - Brownfield – Public/Private
 - Green Infrastructure – Public/Private
 - Onlot Systems – Principal Residence
 - Sewer Lateral Repair/First-Time Hookup – Principal Residence

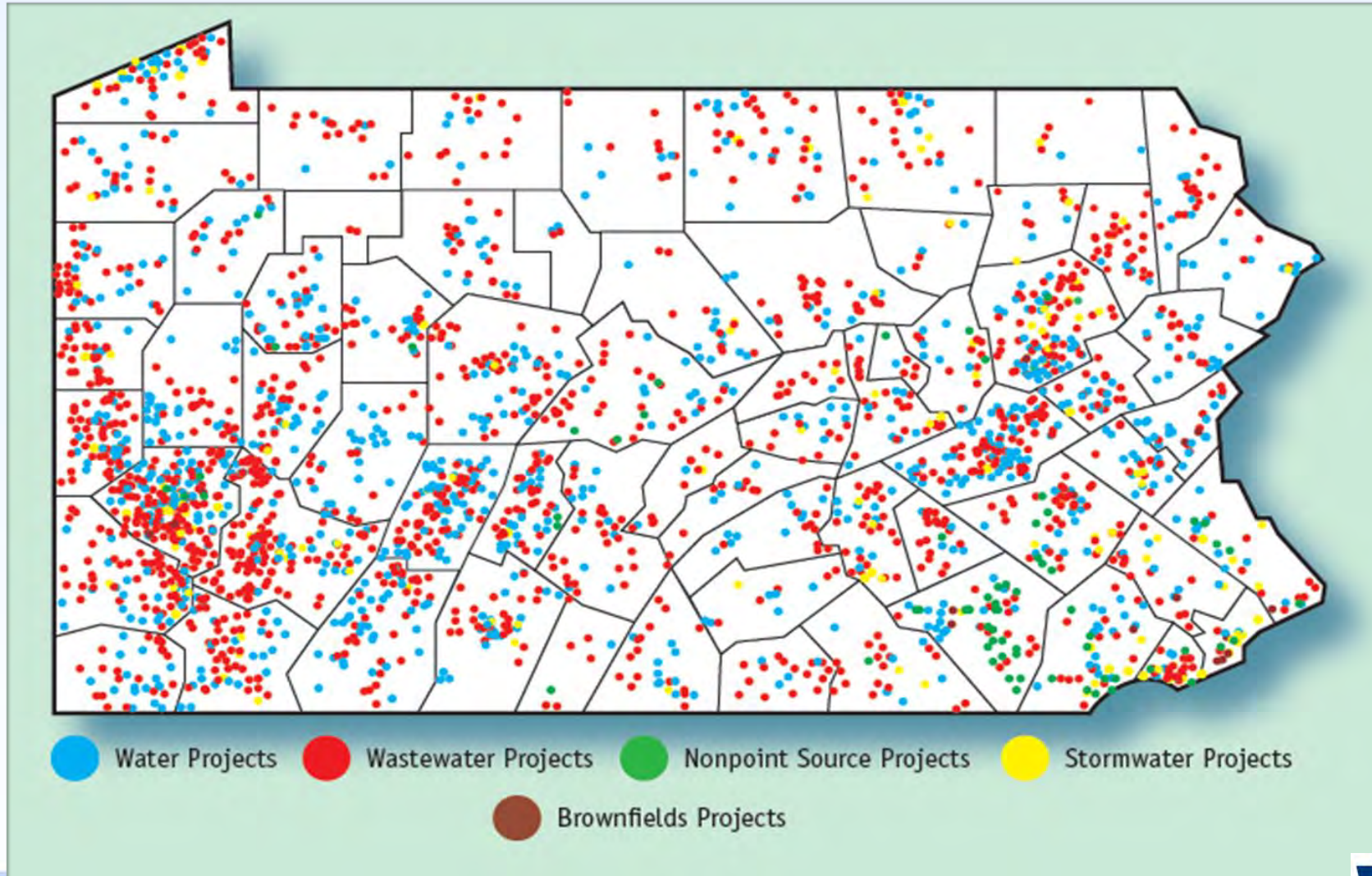
PENNVEST Financing

Projects Approved: 4,465 for a Total Funding of \$10.4 Billion

\$769 Million Budgeted for 2021-2022

- **1,156 Drinking Water**
- **1,731 Wastewater**
- **17 Brownfield**
- **184 Non-Point Source**
- **3 Acid Mine Drainage**
- **148 Stormwater**
- **987 Onlot Repairs**
- **22 Sewer Laterals Replaced**
- **217 New Sewer Connections**

PROJECTS DISTRIBUTION STATEWIDE



PENNVEST BOARD MEETINGS

APPLICATION CUT-OFF DATES

May 4, 2022

August 3, 2022

November 2, 2022

February 1, 2023

May 3, 2023

BOARD MEETING DATES

July 20, 2022

October 19, 2022

January 18, 2023

April 19, 2023

TBD



WEB-BASED SYSTEM

APPLY **ONLINE**

- The collection and evaluation of information for project review, ranking, and recommendation
- Submittal of bid, project costs, contracts, and documents necessary for settlement
- Submittal, review, and disbursement of eligible costs associated with implementation of construction
- PENNVEST review of change orders and project close-out
- Collection of repayments and annual financial statements
- Electronic signature

24/7 access to the information and status of your project along the way!

GREEN INFRASTRUCTURE PROJECTS

- Installation of porous pavement, green roofs and other approaches to managing wet weather runoff
- Street tree and urban forestry programs
- Installation of riparian buffers and wetlands
- Downspout disconnection programs to eliminate stormwater from combined sewer systems
- Installation of water meters
- Purchase of leak detection equipment
- Energy Efficiency – Retrofits and upgrades to pumps and treatment process
- Installation of water efficient fixtures, fittings, and equipment

TOWAMENCIN TOWNSHIP **FISCHER'S PARK**

- ▶ \$281,964 Grant
- ▶ Stormwater Run-off:
 - ▶ 35,910 square feet of Pervious parking lot with filtration bed and bio-retention.

SELLERSVILLE LENAPE PARK – 500 TREES PLANTED

- ▶ \$112,031 Loan & \$112,031 Grant
- ▶ Tree plantings can maximize impact on erosion and sediment reduction as well as reduce stormwater runoff.



LANCASTER CITY – GREEN INFRASTRUCTURE PROJECT

- ▶ \$7,000,000 Loan
- ▶ - Reduce Inflow and infiltration
- ▶ - Eliminate Hydraulic Overloads at Wastewater Plant
- ▶ - Remove storm water during peak flows



Project Development Initiatives

Infrastructure Investment and Jobs Act

Program	Funding Amounty	Percent Additional Subsidy
DWSRF General Supplemental	\$55,287,000	49%
DWSRF Emerging Contaminant	\$23,217,000	100%
DWSRF lead Service Line Replacement	\$87,065,000	49%
DWSRF Total	\$165,569,000	
CWSRF General Supplemental	\$71,081,000	49%
CWSRF Emerging Contaminants	\$3,731,000	100%
CWSRF Totals	\$74,812,000	
Total Additional DWSRF/CWSRF	\$240,381,000	

PENNVEST HOMEOWNER SEPTIC PROGRAM

The PENNVEST Homeowner Septic Loan Program helps qualified homeowners:

- repair or replace an **existing connection to public sewer OR** an individual, on-lot sewage disposal system;
- connect an existing home for the first time to public sewer.

This low-cost loan is funded by PENNVEST and administered by the PA Housing Finance Agency.

TERMS

- Fixed interest rate for life of loan, currently as low as 1.75 percent.
- Up to 20 years to repay the loan balance.
- Funds can be used for design, construction and permit costs.

SAMPLE PAYMENTS

- If you borrow \$15,000 at 1.75 percent (2.55 percent APR¹) for 20 years, you pay \$75 monthly.
- If you borrow \$25,000 at 1.75 percent (2.22 percent APR¹) for 20 years, you pay \$124 monthly.



Tom Wolf, Governor
Robin Wiessmann, PHFA Executive Director & CEO
Bron Johnson, PENNVEST Executive Director

Construction Projects Initiatives

Homeowner Sewage Program

- Implemented in cooperation with the Pennsylvania Housing and Finance Agency
- Onlot repair
- First-time connection for an existing residential structure
- Existing lateral replacement



LOAN ADVANTAGES

- Pay an attractive interest rate for this vital home improvement.
- No prepayment penalties if the loan is paid off early.

WHY REPLACE YOUR SEPTIC SYSTEM?

- Increase the value and marketability of your home.
- Eliminate worries about your septic system when you sell your home.
- Improve the environmental health of your property.
- Avoid or respond to citations from your municipality.

LEARN MORE AND APPLY

1. Call PHFA's Solution Center at 855-U-ARE-HOME (855-827-3466) or visit www.phfa.org to learn more and view a list of participating lenders.
2. Visit or call one of the listed participating lenders to begin the loan application.
3. Work with design and construction professionals of your choice to develop an approved system.

¹ Subject to credit approval and eligibility restrictions including loan use and owner occupancy. Interest rate quoted as of 1/1/2019. The APR is fixed for the term of the loan. Borrower pays origination and closing charges. Sample payments based on \$15,000 and \$25,000 loan examples have twenty year term and 240 payments. Total finance charge for a \$15,000 loan is \$3,869 and for a \$25,000 loan is \$5,727.



PV 2/20

Construction Projects Initiatives

Small Projects

- \$500,000 or less for projects not exceeding \$1,000,000
- Quick turnaround/approvable by staff
- No need to wait for Board Meeting
- Loan monies only

TERMS THAT DO NOT APPLY

- Davis Bacon Wage Rates
- Architectural and Engineering Services Requirements
- American Iron and Steel Requirements
- Uniform Environmental Review Requirements
- Disadvantaged Business Enterprise Requirements
- Fiscal Sustainability Plan Requirements

TERMS THAT DO APPLY

- Steel Products Procurement Act Requirements
- **“Or Equal” Bidding Requirements**
- Cost Effectiveness Requirements

Construction Projects Initiatives

Sub-Level Revolving Loan Program

- PENNVEST provides seed money
- County or Regional implementation
- Address local water quality priorities



350 x 277

Construction Projects Initiatives

Programmatic Financing (ProFi)

- Larger projects
- Implement over a couple of years
- WIFIA/SWIFA



“TAKE A BITE OUT OF
YOUR CAPITAL
IMPROVEMENT PLAN”

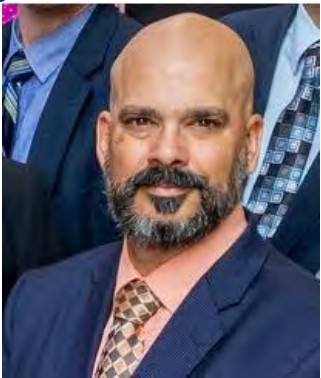
PENNVEST CONTACTS

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Region 2 – Southwest PA



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Region 3 – Southcentral PA



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Region 4 – Northeast and Southeast PA



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Region 5 – Northcentral PA




Leslie Cote
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Coronavirus Information 

SPOTLIGHT






[Mission](#)


[Update Regarding COVID-19](#)

[Payment Deferral](#)

[Funding Programs](#)

PRESS RELEASES







[Gov. Wolf Announces \\$450 Million Loan Program for Financially Strained Hospitals](#)

[Governor Wolf Announces \\$1.3 Billion Investment in Water Infrastructure Projects in 15 Counties](#)

[Governor Wolf Announces \\$98](#)

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Come join us at one of our information exchanges at a location nearest you!

PENNVEST
PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY

SPRING 2015 PENNVEST INFORMATION SESSIONS

Municipal officials, conservation districts, private landowners, authority users and staff, regulators, engineers, and others interested in learning how PENNVEST funding can help improve water quality in your community.

Join PENNVEST to learn about:

- PENNVEST overview (funding levels, sources of funding, timelines/milestones)
- Discussion of project development:
 - Architecture and engineering requirements
 - Project Eligibility
 - Lead line replacement program
 - On-lot, lateral replacement program
- New funds disbursement system
- Discussion of modernizing the application process (input on the current process)
- What's working & what needs improvement (settlement, disbursement, closeout)
- Open forum Q&A
- Adjourn

If interested in attending, register at:
<http://www.pennvestpa.com/en/joinpenvest/information-sessions-PA-kefs-55848>

Register soon to reserve your seat!

contact your regional Project Specialist with questions or concerns regarding the events.

East Region: Rebecca Kennedy (717) 574-8454 rkennedy@pa.gov
West Region: Dan Mikanic (717) 574-8452 dsmikanic@pa.gov
West and Northcentral Regions: David Henning (717) 574-8451 dhenning@pa.gov
East and South Central Regions: Tesra Schlupp (717) 574-8453 tschlupp@pa.gov

ALL WORKSHOPS ARE 9:30 - NOON UNLESS NOTED OTHERWISE
Parking is available on-site for all locations

- 11th CLEARFIELD COUNTY 9:30-NOON, at the PennDOT Training Center 671 Drive, Clearfield, PA, 16830 814-965-8828
- 12th YOGA COUNTY 9:30-NOON at the Mansfield, PA, Microtel Inn, Suites, 50 Elmwood, PA, 16933; 570-662-9300
- 13th CHESTER COUNTY 9:30-NOON at the Trudy/Ann Township Building, Keen Memorial Road, Berwyn, PA, 19312; 610-833-1400
- 14th CAMBRIA COUNTY 9:30-NOON at the PADEP Offices, 288 Industrial Park Road, PA, 15591; 814-472-1305
- 15th WESTMORELAND COUNTY 1:00 P.M. @ the PADEP Offices, 131 Broadview Road, PA, 15672 724-925-5530
- 16th CRAWFORD COUNTY 9:30-NOON at the Meadowdale Holiday Inn Express, 18240 Lake Road, Shadyside, PA, 15884; 814-724-6013
- 17th LEHIGH COUNTY 9:30-NOON at the offices of the Lehigh Valley Planning Commission, Maroon Boulevard, Allentown, PA, 18109; 610-965-4544
- 18th DAUPHIN COUNTY 9:30-NOON at the offices of the Fish and Boat Commission, Avonlea, Harrisburg, PA, 17110 717- 705-7900
- 19th LACKAWANNA COUNTY 9:30-NOON at the Lackawanna County Emergency Center, View Drive, Jessup, PA, 18434; 570-807-7900
- 20th BEDFORD COUNTY 9:30-NOON at the Bedford County Courthouse, 200 S. Juddford, PA, 15522; 814-623-4807
- 21st LUZERNE COUNTY 9:30-NOON at the Top of the 80's Restaurant Meeting Room, 80's Road, Halls Township, PA, 18202 570-454-8795

CONTACT INFORMATION:

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Deputy Executive Director for Project Management
PENNVEST
Phone – 717.783.4493
E-mail - rboos@pa.gov

The Green Streets, Green Jobs, Green Towns (G3) Grant Program

Jeffrey Popp

Senior Program Officer, Restoration

Chesapeake Bay Trust



The Chesapeake Bay Trust



- The Chesapeake Bay Trust is a nonprofit grant-making organization dedicated to improving the watersheds of the Chesapeake Bay, Coastal Bays, and Youghiogheny River.
- Created in 1985 our goal is to increase stewardship through grant programs, special initiatives, and partnerships that support on-the ground watershed restoration, green infrastructure, community engagement, and restoration research.
- Over \$10M in grants awarded each year to schools, local governments, community groups, faith-based groups, watershed organizations, and other not-for-profit entities.
- Over 90% of the Trust's expenditures are directed to its Chesapeake Bay restoration and education programs.

The Chesapeake Bay Trust



- Our **MISSION**: to engage and empower diverse groups to take actions that enrich natural resources and local communities of the Chesapeake Bay region.
- Our **VISION**: The Chesapeake Bay and local watersheds are healthy and safe, our waters are fishable and swimmable, local communities benefit from these healthy resources, and everyone participates in restoring and protecting our natural resource treasures.
- Our **GOAL**: we believe that getting residents involved is key to restoring the Chesapeake Bay.



The Green Streets, Green Jobs, Green Towns (G3) Grant Program

- A Partnership between the U.S. Environmental Protection Agency, Region III (EPA) and the Chesapeake Bay Trust since 2011.
- Created to support design projects, financing strategies, and/or implementation of green street projects.
- The goal of this grant program is to help communities develop and implement green infrastructure plans that reduce stormwater runoff, increase green space, improve water quality, and ensure communities are more resistant to climate change.

The Green Streets, Green Jobs, Green Towns (G3) Grant Program

What does this program fund?

Design projects, financing strategies, and/or implementation of green street and community greening projects.

How much can be awarded?

Generally, up to:

- \$15,000 for conceptual plans;
- \$30,000 for engineered designs;
- \$50,000 for community greening projects; and
- \$150,000 for implementation projects.

This program also supports white papers up to \$20,000 that summarize analysis of one or more aspects of green infrastructure or tools that promote green infrastructure efforts.

Who can apply?

Local governments such as municipalities, non-profit organizations, neighborhood/community associations, and other nonprofit entities anywhere in the Chesapeake Bay watershed portion of EPA Region 3 (excludes New York).

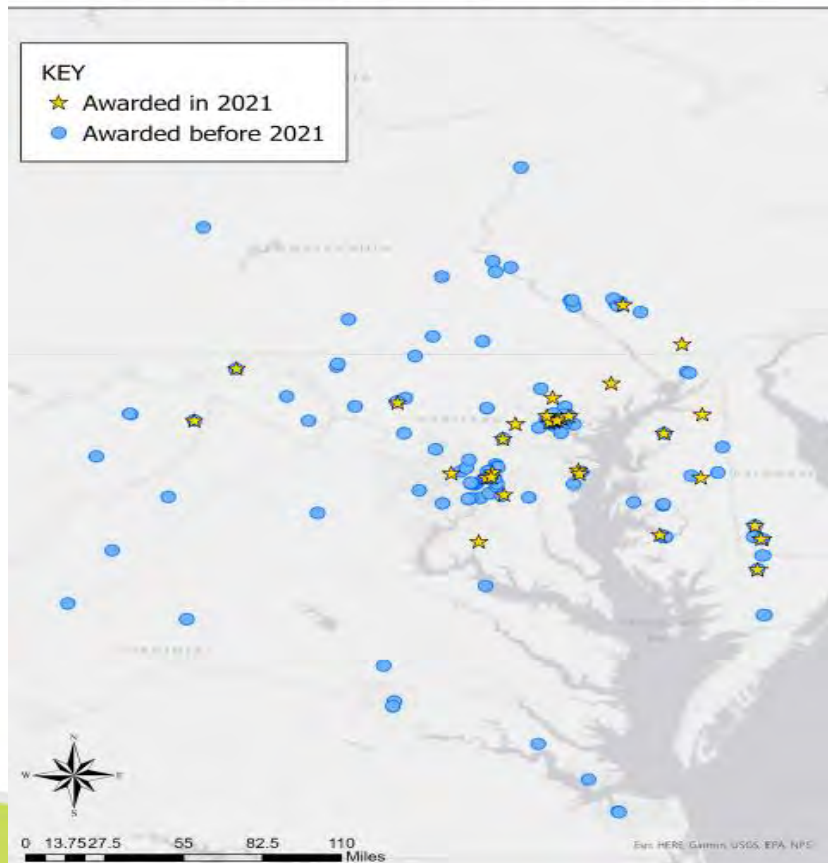
Is match required?

Match is encouraged but not required.



The Green Streets, Green Jobs, Green Towns (G3) Grant Program

Green Street Projects Awarded from 2011 to 2021



June 2021



Green Streets, Green Jobs, Green Towns (G3) Grant Program

231 PROJECTS
AWARDED

\$13 MILLION
AWARDED

\$23 MILLION
MATCHING LEVERAGE FUNDS

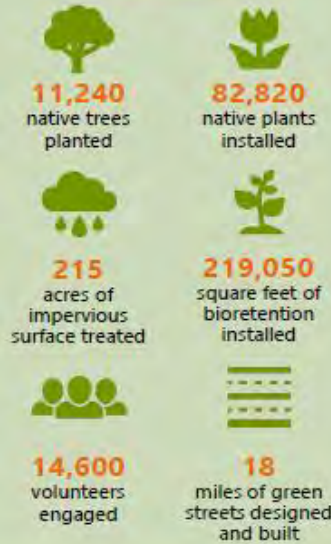
PROJECT TYPES



supports projects in the
CHESAPEAKE BAY WATERSHED

ASSIST COMMUNITIES TO
reduce stormwater runoff,
increase the number and amount of green spaces,
enhance quality of life and community livability

IMPACT



AWARDS BY STATE



Learn more about the G3 grant program at cbtrust.org/grants

2022 Green Streets, Green Jobs, Green Towns (G3) Grant Program

- **Total Requests received:** 31 (includes Delaware, Maryland, Pennsylvania, Virginia, and West Virginia)
- **Request Breakdown:** 14 implementation, 9 engineered design, 3 concept plans, 3 community greening, and 2 white papers.
- **Total Request Amount:** \$2,706,828
- **Total Amount Available:** \$1,058,720
- **Total Fundable Demand:** \$1,759,239
- **Additional funds needed to support externally reviewed, viable, green infrastructure projects:** \$700,519



James River Association

Building Community Resilience in Southside Richmond - Bellemeade Green Street Project

- G3 Award Amount: \$161,111; Match Amount: \$187,202; Total Project Amount: \$348,313
- Total of 0.4 miles of Green Street installed (bioretention, filterra boxes, native plants, 31 street trees)
- Creates safer walking and biking route for residents
- Improves local water quality
- More info: <https://cbtrust.org/building-community-resilience-in-southside-richmond-through-the-bellemeade-green-street-project/>



Town of Bath, West Virginia: A Bath for the Bay

- G3 Award Amount: \$20,000; Match Amount: \$75,000; Total Project Amount: \$95,000
- Total of 250 ft of Green Street installed (permeable pavers, 4 Silva cell systems, native plants, 7 street trees)
- Created more inviting shopping experience which boosted local business.
- Improves local water quality and reduced flooding to local businesses and residents.
- More info: <https://cbtrust.org/wp-content/uploads/13895-Town-of-Bath-One-Page.pdf>



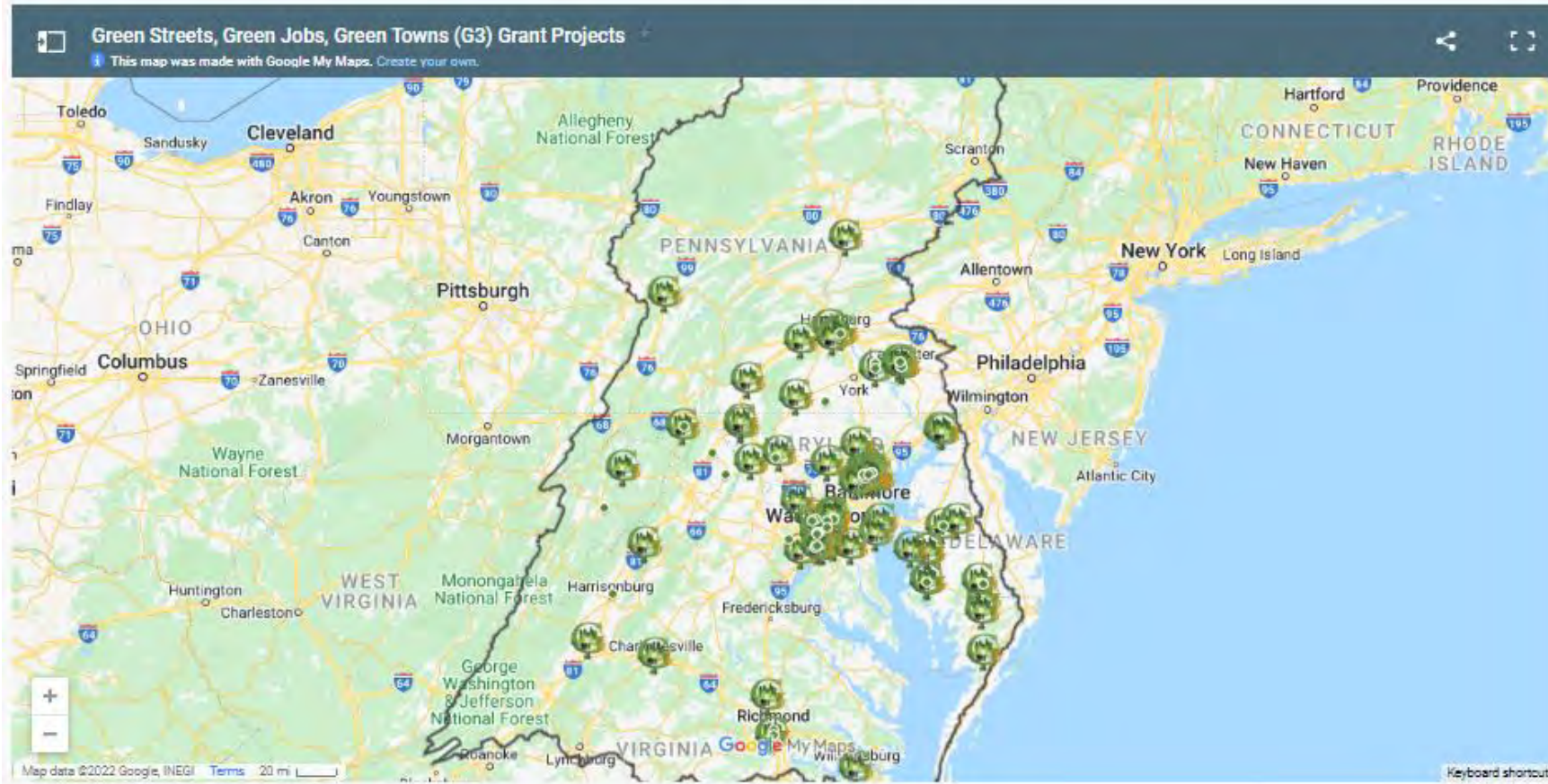
City of Salisbury, Maryland City of Salisbury Main Street Masterplan

- G3 Award Amount: \$75,000; Match Amount: \$3,796,236; Total Project Amount: \$3,871,236
- Total of 0.15 miles of Green Street installed (10 bioretention, permeable pavers, native plants)
- Leveraged planned gray infrastructure improvements with green infrastructure improvements.
- Improves local water quality and reduced.
- More info: <https://cbtrust.org/wp-content/uploads/13897-City-of-Salisbury.pdf>
- Video: <https://www.facebook.com/watch/?v=330714415444786>

For More G3 Projects:

Interactive Map

Explore the interactive map below to learn about projects funded through this grant program. You may also view a full screen version of this map, [here](#).



<https://cbtrust.org/grants/green-streets-green-jobs-green-towns/projects/>

Keeping up the good work...

- Seeking more engagement from DE, PA, VA and WV.
- Using EPA's EJScreen to target outreach.
- Engaging State stormwater managers, climate scientists, and hazard mitigation teams on our review team.
- Looking to help Bay states find and support the best green infrastructure projects.





Jeffrey Popp
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