

# Infrastructure Investments in Kentucky

Kentucky Division of Forestry

*Brandon Howard*  
*State Forester / Director*

TEAM  
KENTUCKY®

ENERGY AND  
ENVIRONMENT CABINET  
DIVISION OF FORESTRY



# Kentucky Division of Forestry

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## **Mission**

“To protect, conserve and enhance the forest resources of the Commonwealth through a public informed of the environmental, social and economic importance of these resources.”





# Kentucky's Forests

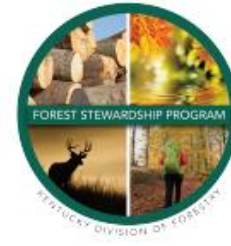
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12.4 million acres of forestland in  
the Commonwealth of Kentucky



# KDF Services

- Land evaluation + management plan/stewardship plan development
- Forest Management Implementation
- Timber Harvesting
- Tree Planting
- Wildlife Management
- Invasive Species and Forest Health
- Clean Water and Air
- Noise Pollution and Screening
- Natural Disaster Recovery
- Educational Opportunities
- Community Forestry Initiatives
- Forest Fire Protection



For more information about the Forest Stewardship Program, visit [www.ky-fsp.org](http://www.ky-fsp.org) or a Kentucky Division of Forestry Field Office near you.

[www.ky-fsp.org](http://www.ky-fsp.org)



Kentucky Division of Forestry

## Forest Stewardship Program

**Campbellsville Branch**  
120 Games Drive  
Campbellsville, KY 42718  
270.465.5071

**Madisonville Branch**  
625 Hospital Drive  
Madisonville, KY 42431  
270.824.7527

**Frankfort Branch**  
105 Corporate Dr. Ste 1  
Frankfort, KY 40602  
502.573.1085

**Morehead Branch**  
255 Rodburn Hollow  
Morehead, KY 40351  
606.783.8625

**Hazard Branch**  
154 Grand Vue Plaza  
Hazard, KY 41701  
606.435.6073

**Pineville Branch**  
12008 US Hwy 25E  
Pineville, KY 40977  
606.337.3939

### Forest Stewardship Program Application

Do You Want To . . .



Increase the quality and quantity of your woodlands?



Improve diverse recreational opportunities and woodland aesthetic qualities?



Improve habitat for our native wildlife species?



Improve your woodland's ability to provide clean water?

By completing the information below and mailing it to the Kentucky Division of Forestry Field Office that serves your area (see map page), natural resource professional(s) will contact you and arrange for a no cost/no obligation evaluation of your property. A plan will be developed to assist you in reaching your goals and objectives for your property.

**LANDOWNER INFORMATION**

Name \_\_\_\_\_  
Address \_\_\_\_\_

**PROPERTY INFORMATION**

County \_\_\_\_\_ Total Acreage \_\_\_\_\_

# Infrastructure Funding

## Bipartisan Infrastructure Law

- Forest Health
- Forest Stewardship
- Urban and Community Forestry
- Wildland Fire Management
- Tree Nurseries

## Inflation Reduction Act

- Urban and Community Forestry

*\* Focused on Underserved Communities*



# Grant Opportunity Update

## Bipartisan Infrastructure Law

Wildland Fire Management Program

*Community Wildfire Defense Grant*



## Inflation Reduction Act

Urban and Community Forestry Program

*Community Forestry Grants*



# Community Wildfire Defense Grants (CWDG)

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2023

- Pulaski County
  - \$73,675
  - Hire Project Director to create Community Wildfire Protection Plan (CWPP)

2024

- City of Harlan
  - \$250,000
  - CWPP
- Kentucky River Area Development District
  - \$249,540
  - CWPP
- London / Laurel County
  - \$248,900
  - CWPP





GRANT OPPORTUNITY AVAILABLE FOR  
KENTUCKY NONPROFITS, COUNTIES, AND CITY GOVERNMENTS

# COMMUNITY WILDFIRE DEFENSE GRANT

APPLICATION DEADLINE: TBA

## CWDG CONTACTS

**Kessley Baker**

CWDG State Program Coordinator  
kessley.baker@ky.gov  
606-260-5651

**Scott Shepherd**

CWDG Specialist  
KDF Morehead Branch  
scott.shepherd@ky.gov  
502-682-8227

**Leigh Nedlo**

CWDG Specialist  
KDF Pineville Branch  
leigh.nedlo@ky.gov  
606-337-3939

# CWDG - 2024

The Community Wildfire Defense Grant (CWDG), established from the Bipartisan Infrastructure Law, provides funding assistance for wildfire preparedness and risk reduction projects.

**Eligible projects include:**

- Developing a Community Wildfire Protection Plan (CWPP)
- Updating an existing CWPP older than 5 years
- Projects described in an existing CWPP no older than 10 years

Kentucky Division of Forestry is available to facilitate communities through CWPP assistance, informational workshops, and application processing. Priority will be given to areas with high wildfire risk potential, low-income communities, or communities recently impacted by a natural disaster.

# *Community Forestry Grants*

- ~1.7 million in funding being awarded to communities across Kentucky
- Successful grant applicants will be notified this month
- Successful project applications included 16 projects in underserved communities
- Tree planting, canopy inventory, public education, strategic planning, hardscape to green scape conversion, urban forestry workforce training, municipal tree board collaboration, and replacing trees lost to storms
- Work will begin in the fall



Brandon Howard  
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Kentucky Division of Forestry

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<https://eec.ky.gov/Natural-Resources/Forestry/>



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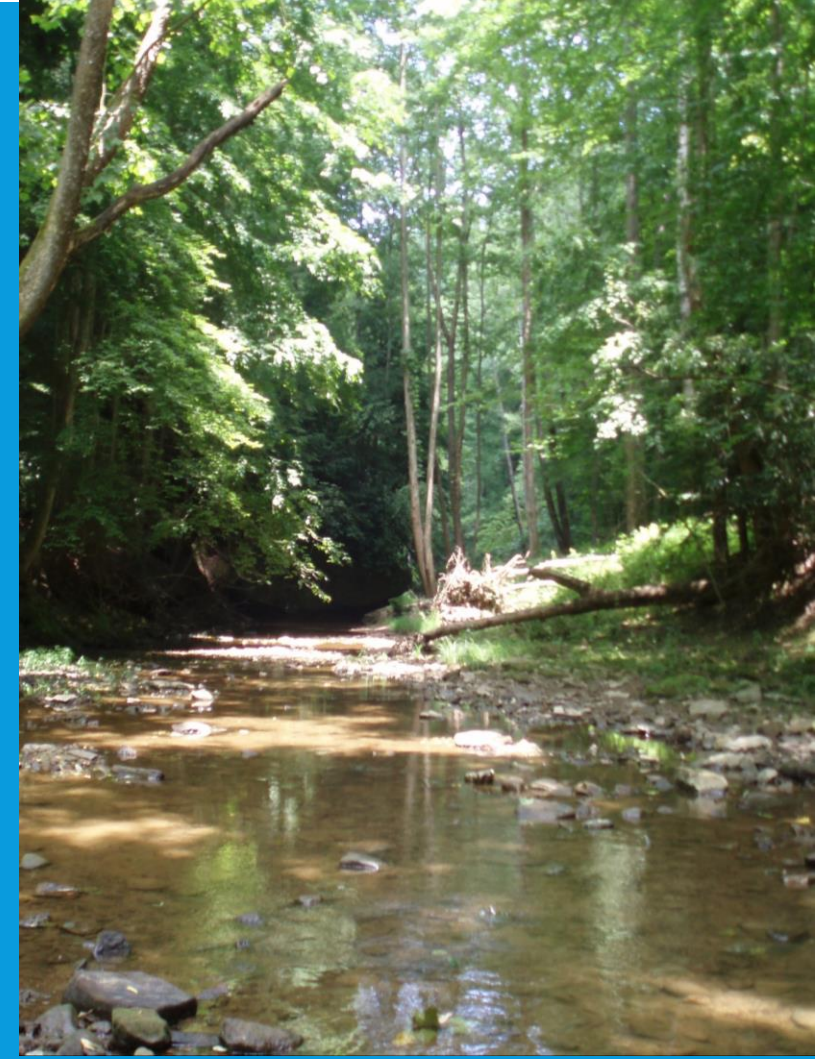
ENERGY AND  
ENVIRONMENT CABINET

# DIVISION OF WATER: SHOW ME THE MONEY

Sarah Jon Gaddis, P.G.  
Director  
Kentucky Division of Water

# 2024 DOW PRIORITIES

- Continue timely issuance of agency permits to meet water quality and quantity goals
- Continue implementation of new Drinking Water Rules, including Lead and Copper, Consumer Confidence Reports, Microbial and Disinfection Byproducts
- Continue statewide assessments, and implement new rules for Per- and Polyfluoroalkyl Substances (PFAS)
- Support drinking water and clean water system needs through implementation of Bipartisan Infrastructure Law (BIL) and other programs
- Continue implementation of Nutrient Reduction Strategy and Wastewater Optimization
- Work to enhance Kentucky's Water Resource Information System
- Support High Ground Community Development Initiative



# DOW ORGANIZATION

**Sarah Gaddis, Director**  
**John Webb, Assistant Director**  
**John Carlton, Administrative Specialist Senior**

**Melanie Arnold**  
*Environmental Scientist Consultant*

**Jory Becker, PE**  
*Environmental Engineer Consultant*

**Carole Catalfo**  
*Policy Specialist*

**Josiah Frey**  
*Environmental Scientist Consultant*

**Drinking Water Branch**

*Alicia Jacobs, Manager*

**Field Operations Branch**

*Shannon McLeary, Manager*

**Program Planning and Support Branch**

*Heather Baker, Manager*

**Water Quality Branch**

*Nick Reif, Manager*

**Surface Water Permits Branch**

*Jason Hurt, Manager*

**Water Resources Branch**

*Shawn Hokanson, Manager*

**Water Infrastructure Branch**

*Vacant, Manager*

**Watershed Management Branch**

*Joanna Ashford, Manager*

# AWARD WINNING DRINKING WATER IN KENTUCKY!

**J.D. POWER**

Automotive ▾ Financial Services ▾ Insurance ▾ All Industries ▾



ARTICLE/INSIGHT

## As Americans Focus on Water Quality, These States Boast the Best

29 June 2023

### The Blue (Water?) State

After analyzing the data, Kentucky ranks highest with a score of 768 (on a 1,000-point scale). A hallmark of the Blue Grass State's success: Kentucky's performance at the tap was so good that Louisville Water was actually able to trademark its tap water (called Louisville Pure Tap®), a feat some states would not dare to attempt.

Kentucky	808
Washington	808
New York	801
Oregon	796
Kansas	795
Massachusetts	793
Connecticut	789
Minnesota	788
Virginia	785
Hawaii	782

Washington State finishes in a virtual tie with Kentucky, as residents made note of their willingness to drink tap water. More than half (55%) of Washington State residents said they

### Kentucky is crowned the state with the cleanest tap water

August 21, 2023

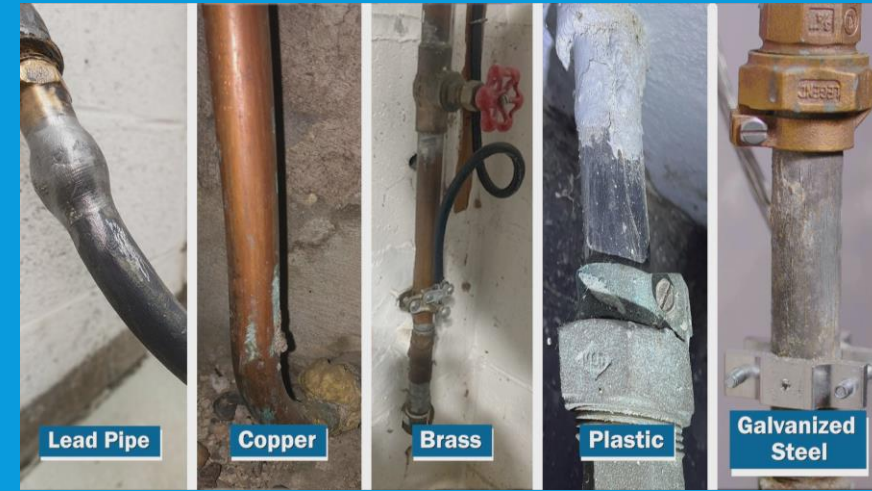
1,905 Views

According to a new report analyzing public water system violations, Kentucky has the cleanest tap water in the contiguous United States.

~Green Well Health (via Lane Report)

# SAFE DRINKING WATER ACT: NEW RULES

- **Lead and Copper Rule Revisions/Improvements:** Underway! Drinking Water systems are compiling a service line inventory which they will use during the next 3 years to create a 10-year lead service line replacement plan. The deadline is **October 16, 2024**.
- **PFAS Rule:** water systems required to monitor for per- and poly-fluoroalkyl substances (PFAS) during the next 3 years. If the average of the sample results exceeds the MCL, the systems may be required to install new treatment for PFAS or else make plans to find a new water source.
- **CCR Rule:** (January 1, 2027) water systems will be required to update the language in Consumer Confidence Reports to make them more readable. Also, systems serving greater than 10,000 will be required to send CCRs to their consumers twice a year.



**EPA**  
Understanding Your **WATER QUALITY REPORT**

The Consumer Confidence Report (CCR) is an annual water quality report that a community water system is required by law to provide to its customers each year by July 1st. Your CCR can help you make informed choices about the water you drink.

**Your CCR Provides Need-To-Know Information**  
SUCH AS:

- Where your water comes from, such as an aquifer, lake, river, or other source.
- A list of regulated contaminants that the CWS detected and the level.
- Potential health effects from consuming contaminated water and additional safeguards against water-related illness.
- Contaminant levels in your CCR compared to national standards and any violations of health-based standards.



# DRINKING WATER BRANCH: 2023 REPORT

## Kentucky Water Systems



BY THE NUMBERS - 2023

**428** PUBLIC WATER SYSTEMS



**263** WATER TREATMENT PLANTS OPERATED



**1.9** MILLION SERVICE CONNECTIONS



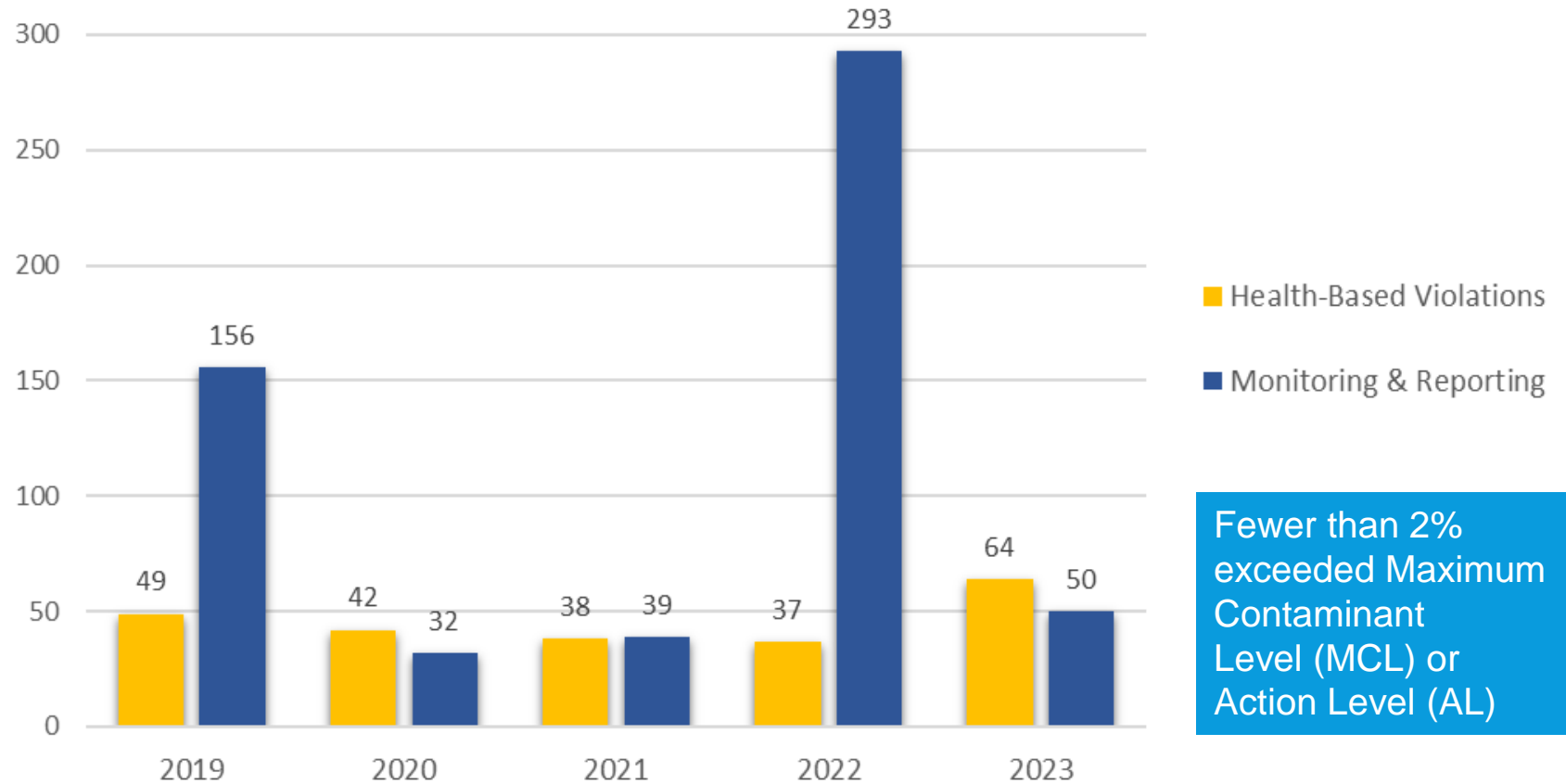
**200** BILLION GALLONS OF WATER TREATED



**90,000** REGULATED CONTAMINANT TESTS



Some values are rounded or approximate.



Fewer than 2% exceeded Maximum Contaminant Level (MCL) or Action Level (AL)

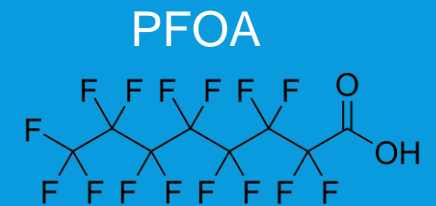
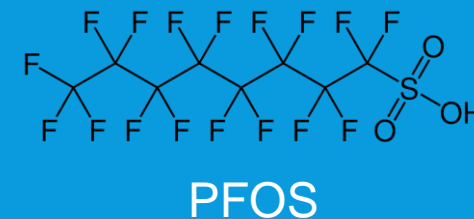
# PFAS OUTREACH & ASSISTANCE

## Emerging Contaminants in Small or Disadvantaged Communities Grant

- Bipartisan Infrastructure Law Funding
- Assist municipal drinking water systems in small or disadvantaged communities
- Address PFAS or other emerging contaminants

## Eligible Activities Include

- Sampling
- Technical assistance
- Pilot testing
- Treatment upgrades
- Connecting households
- Consolidation
- Public outreach



# LEAD SERVICE LINE INVENTORY ASSISTANCE

## Contracts Established to provide assistance:

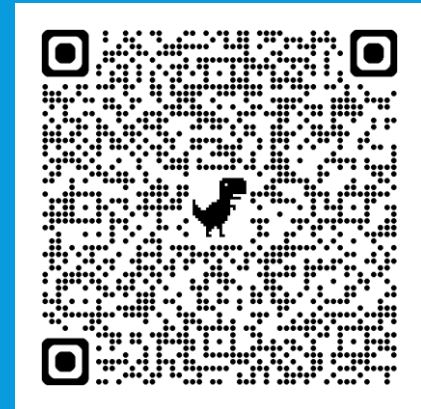
- Kentucky Rural Water Association
  - 183 systems, 63 are >50% complete, 3 complete
- Great Lakes Community Assistance Partnership (formerly RCAP)
  - 47 systems, 23 are >50% complete

## Additional TA Available

- Hazard Regional Office
- Regional Office
- Central Office

## Check your Pipes, Kentucky!

- Community resources (QR Code)



# GULF HYPOXIA PROGRAM

## KENTUCKY & THE GULF HYPOXIA PROGRAM

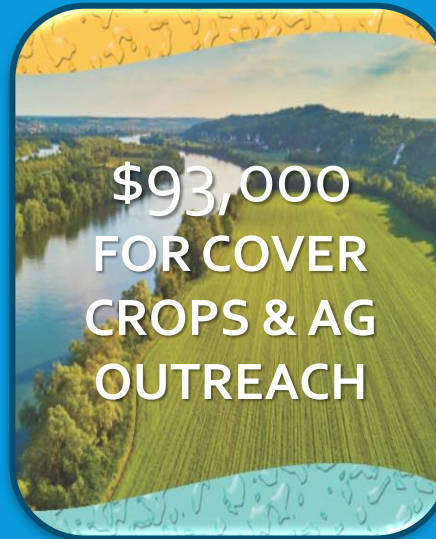
- Federal funding for KY's Nutrient Reduction Strategy
  - \$1.7 million grant in 2023
  - \$2.4 million grant expected in 2025
- Funded by the Bipartisan Infrastructure Law
- Provides dedicated nutrient staffing in DOW

**KEEP  
PHOSPHORUS  
OFF THE  
GRASS.**

Use a zero phosphorus lawn fertilizer for healthier waters.

**TEAM KENTUCKY**  
ENERGY AND ENVIRONMENT CABINET

[LEARN MORE](#)



# WATER INFRASTRUCTURE BRANCH



WIB supports responsible community planning and construction of water infrastructure and works with the Kentucky Infrastructure Authority to administer infrastructure project financing.

## Municipal Planning Section

- Clean water planning: 201 Facility Planning Process and Asset Inventory Program
- Water Capacity Development Program
- Environmental assessments of water infrastructure projects

## Engineering Section

- Reviews and Approves Plans and Specifications for water infrastructure projects
- Technical support on State Revolving Fund Loan projects

## Infrastructure Funding Section

Ensures compliance with the State Revolving Loan Fund Program:

- Manages the projects in conjunction with KIA
- Education and outreach on the SRF Program and other funding opportunities

# WATER RESOURCES BRANCH: FLOOD RECOVERY PERMITTING

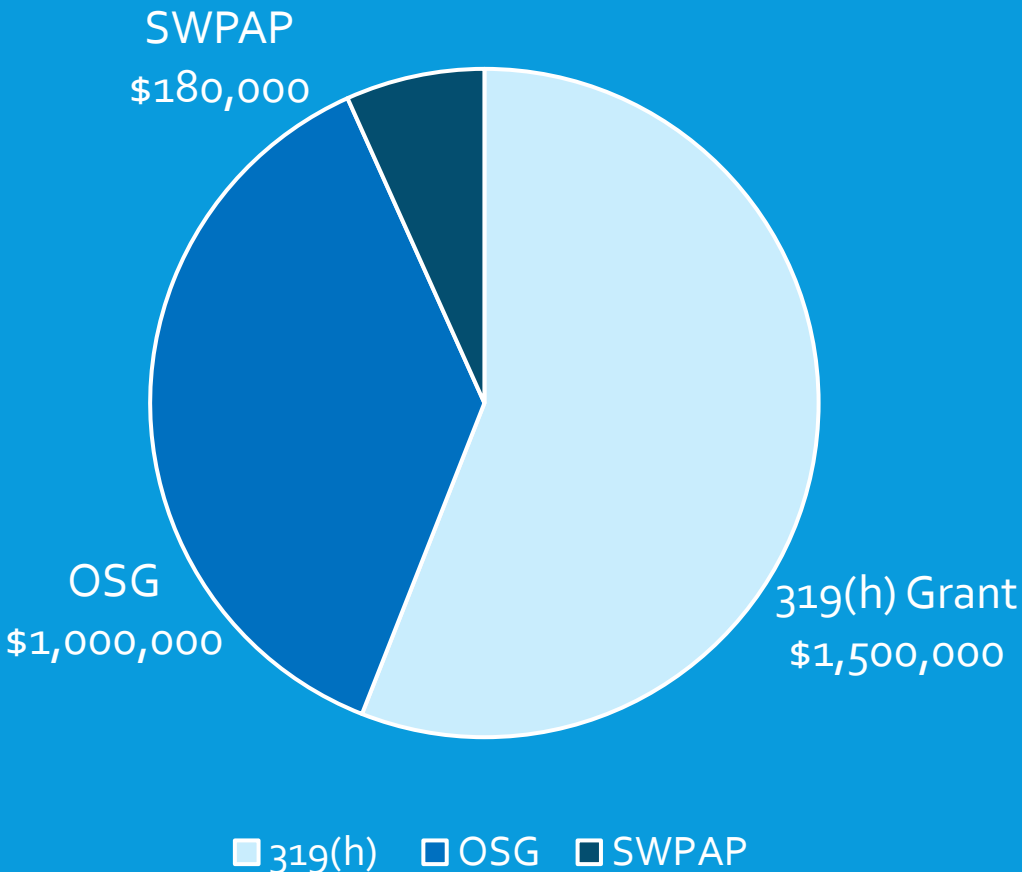
Since January 2021 DOW has issued approvals for repairs on 9,000 flood damaged infrastructure sites, allowing rapid restoration of water, power, sewer services and travel routes. These approvals provide local governments documentation required to qualify for Federal Assistance.



DOW issued nearly 500 permits for FEMA buyout and demolition of structures. DOW provides technical assistance to encourage local communities to use the newly created greenspace for flood mitigation projects to decrease the severity of future flooding.

# WATERSHED MANAGEMENT BRANCH

## Funding Opportunities



**319(h) Grant Program:** Provides funding for efforts to reduce nonpoint source pollution. Funds may be used:

- Demonstrate innovative best management practices
- Support education & outreach
- Develop Watershed Based Plans
- Implement Approved Watershed Plans

### **OSG: Overflow, Stormwater Grant**

- Planning and design for green infrastructure
- Installation of green infrastructure projects

### **SWPAP: Source Water Protection Assistance Program**

Source water protection activities including:

- Well closure and abandonment
- Implementation of a source water protection plan
- Education and outreach

# CONTACT INFORMATION: HELP ME HELP YOU!



DOW Funding Page



Sarah Jon Gaddis, PG  
Sarah.gaddis@ky.gov  
502-782-6953



The DOW Water Maps Portal has a wide variety of water-specific web maps, applications and services including:

- Kentucky Watershed Explorer
- HAB Viewer
- Well Driller Locator
- Water Health Portal
- Special Use Waters

*Kentucky Watershed Explorer:  
Utilities Explorer*

*Water Maps Portal*



**TEAM KENTUCKY** Kentucky Watershed Explorer

Home 319 Grant Reporter GW/SW Explorer Utilities Explorer GW Monitoring Network MS4 Reporter

PWSID: KY0570315

Capacity	
Design Capacity	9.00 MGD
Avg Daily Production	4.51 MGD
Percent Capacity in use	66.83 %
Highest Daily Production	6.79 MGD
Clear Well Capacity	1,000,000

TREATMENTS	
Aeration	NONE
Corrosion Control	PHOSPHATE-BASED INHIBITOR
Taste & Odor	POTASSIUM PERMANGANATE/ CARBON
Iron Removal	NONE
Fluoridation	HYDROFLUOROSILIC ACID
Sedimentation	
Softener	NONE
Flocculation	POLYALUMINUM CL/SO4
Filtration	HIGH RATE/MIXED
Pre-Treatment	SODIUM HYPOCHLORITE
Disinfection	
Other Pre-Treatment	
Post-Treatment	
Disinfection	
Other Post-Treatment	

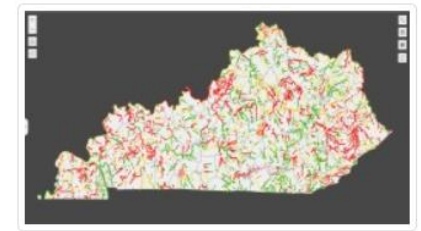
Drinking Water Systems

Powered by Esri

## Portals, Viewers and Story Maps 2.0



Flood Hazard Portal ▼



Water Health Portal ▼



Story Map Gallery ▼



HAB Viewer ▼



Drought Viewer ▼



Risk MAP Portal ▼

# Federal Funding Update

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OFFICE OF ENERGY POLICY



# Office of Energy Policy

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Mission: To support the utilization of all of Kentucky's energy resources for the betterment of the Commonwealth while protecting and improving the environment

## Focus Areas:

- Energy Affordability
- Energy Education
- Energy Security

<https://eec.ky.gov/Energy/Pages/default.aspx>



# Office of Energy Policy Impact Dashboard

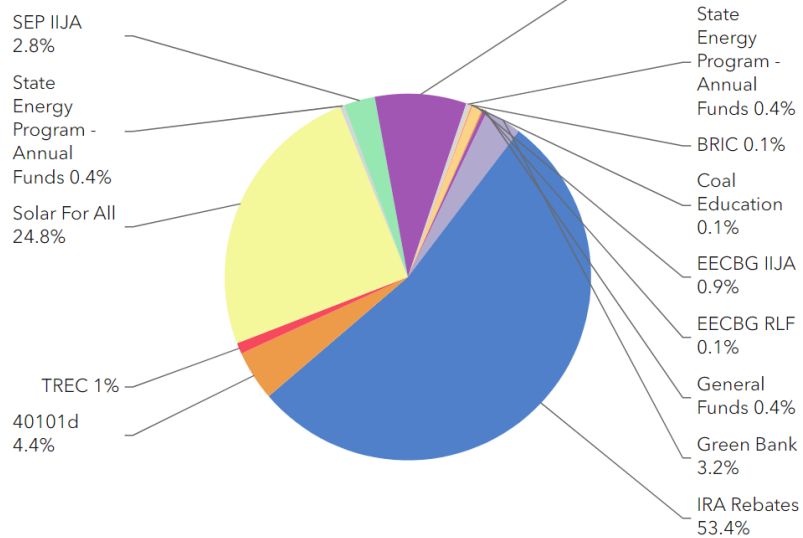


## Anticipated Funding Allocation \$199.1M

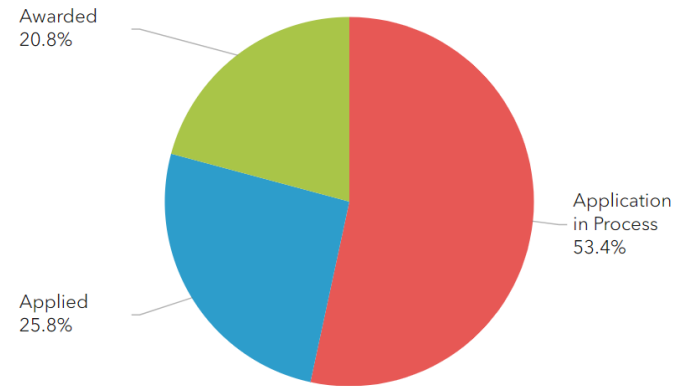
\*Includes funds with the status of applied or application in progress

## Awarded Funding Allocation \$52.4M

### Anticipated Allocation by Funding Program



### Funding Allocation by Award Status



Funding Allocation Table

Funding Allocation Pie Charts

<https://experience.arcgis.com/experience/cf5c38b388da4c40a9cc8a1994fc8efa/page/OEP-Impact-Dashboard-/>



# IRA Home Energy Rebate Program

~\$130M in funding allocated to Kentucky

Vendor has been selected to Administer the program

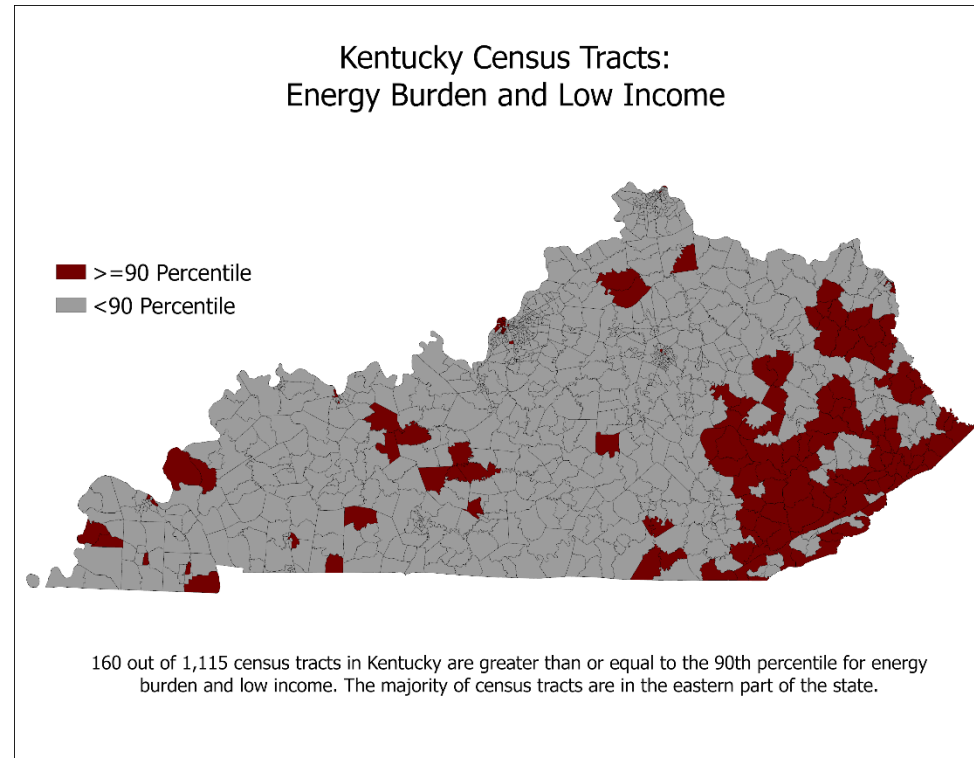
Kentucky's application is in progress and isn't due to DOE until January.

Anticipated submittal date is late summer early fall with award in early 2025.

Core targeted areas include low-income high-energy burden areas.

There will be funding for contractor training and integration into the Rebate Program.

Billie Hardin is the OEP point of contact for Rebate program



# Solar for All (SFA)

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~62M in funding obligated to Kentucky

Funds will support

- Solar plus storage for disaster housing in EKY and WKY
- Solar for existing weatherized homes through the Kentucky Weatherization Assistance Program (WAP)
- LIHEAP or other categorically eligible subscriptions to Community Solar Projects
- Workforce development and training
- Solarize campaigns for local governments and SolSmart technical assistance
- Demonstration of a solar storage resilience hub at the substation level for electric dependent medical populations
- 5 year program with the 1<sup>st</sup> year for planning and teaming opportunities
- Status: Currently negotiating workplan with EPA

Emma Strong is the OEP point of contact for SFA



# Grid Resilience Funding

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5 year program with ~5.5M annually

First two years are supporting state park electric grid infrastructure

Years 3-5 will support municipal electric utilities and cooperatives

There is a 33% match requirement for small utilities

Eligible activities include grid hardening and smart grid technology upgrades

Steven Barrera at the OEP is the point of contact

# Volkswagen Settlement Funding

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Kentucky has access to \$3,056,700 through the Volkswagen Environmental Mitigation Settlement for Light Duty Zero Emission Vehicle (ZEV) Infrastructure funding. This funding will cover Level 2 and DC Fast Chargers in the state. Plans are to use 25% of the funding (roughly \$765,000) for level 2 chargers and 75% (roughly \$2.2 million) for DC Fast Chargers, as DC Fast Chargers are substantially more expensive than level 2 chargers. There is a legislatively mandated 50% cost match on the funding.

This funding is currently remains unobligated. Please contact us if you have a project ideas for ZEV funding.

Some funding remains from the School Bus Replacement Program. School districts received a 50% reimbursement for the purchase cost, allowing for the replacement of up to five school buses per district. Contact us for more details on eligibility.





# Other Funding Updates

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We have staff that can assist with FEMA BRIC (Building Resilient Infrastructure in Communities) project development relating to energy disruption mitigation. Amanda LeMaster is the OEP point of contact for energy security and assurance projects.

Energy Efficiency Conservation Block Grant (EECBG) project solicitation is closed, and we are evaluating projects for contracting.

In EKY, the Office is funding and working with Shaping our Appalachian Region (SOAR) on community energy economic development, project technical assistance and evaluating nuclear energy opportunities with the Idaho National Laboratory as well as other advanced energy opportunities.

# What Can You Do?

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Help us get the word out when Solar for All and Home Energy Rebate programs launch.

Host community meetings with us on these programs and listening sessions.

Contact us if you are interested in ZEV infrastructure development in your community

Understand your energy assets, critical facilities and energy disruption mitigation strategies for potential FEMA BRIC funding

Work with your municipal or cooperative utility on grid hardening project for your community and for potential Grid Resilience Funding

Work with us on identifying advanced energy economic development opportunities.



# Contacts

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## Contact Us

Position Title	Name	Email Address
Executive Director	Kenya Stump	✉ <a href="mailto:Kenya.Stump@ky.gov">Kenya.Stump@ky.gov</a>
Assistant Director	Ashley Runyon	✉ <a href="mailto:Ashley.Runyon@ky.gov">Ashley.Runyon@ky.gov</a>
Deputy Director	Lona Brewer	✉ <a href="mailto:Lona.Brewer@ky.gov">Lona.Brewer@ky.gov</a>
Federal Program Specialist	Carol Stringer	✉ <a href="mailto:Carol.Stringer@ky.gov">Carol.Stringer@ky.gov</a>
Energy Assurance and Efficiency Coordinator	Amanda LeMaster	✉ <a href="mailto:Amanda.Lemaster@ky.gov">Amanda.Lemaster@ky.gov</a>
Planning and Research Advisor	Evan Moser	✉ <a href="mailto:Evan.Moser@ky.gov">Evan.Moser@ky.gov</a>
Grants Administrator	Hailey Mattingly	✉ <a href="mailto:Hailey.Mattingly@ky.gov">Hailey.Mattingly@ky.gov</a>
Executive Staff Advisor	Steven Thomas-Barrera	✉ <a href="mailto:Steven.Thomasbarrera@ky.gov">Steven.Thomasbarrera@ky.gov</a>
Office Support Assistant	Emma Strong	✉ <a href="mailto:Emma.Strong@ky.gov">Emma.Strong@ky.gov</a>

