



# Tools, Training, and Technical Assistance to Increase Water System Resilience

A certificate of attendance will be offered for this webinar

**January 30, 2024 from 2 to 3 p.m. ET**

**Optional Q&A session  
from 3 to 3:30 p.m. ET**

## Creating Resilient Water Utilities

*Nash Keyes and Aliza Furneaux, EPA Office of Water*

To reduce the risks associated with climate-related hazards, EPA's Creating Resilient Water Utilities (CRWU) initiative provides training, tools, and technical assistance designed to educate the water sector on climate science and adaptation options. This presentation will highlight the Resilient Strategies Guide an application that guides water utility owners and operators through identifying adaptation strategies to address their climate resilience priorities. It will also preview other CRWU resources including the Climate Resilience Evaluation and Awareness Tool, Climate and Weather Data Maps, and Environmental Justice StoryMap. This presentation will communicate the real-world challenges and successes of utilities in adapting to the impacts of climate change and focus on CRWU's efforts to provide technical assistance to small water systems through a utility case study.

## EPA's Water Network Tool for Resilience (WNTR)

*Terra Haxton, EPA Office of Research and Development*

In partnership with Sandia National Laboratories, EPA developed the Water Network Tool for Resilience (WNTR), an open-source Python package, to integrate critical aspects of resilience modeling for water distribution networks into a single software framework. The software estimates potential damages from disaster scenarios; predicts how damage to infrastructure would occur over time; evaluates preparedness strategies; prioritizes response actions; and identifies worse case scenarios, efficient repair strategies, and best practices for maintenance and operations. This presentation will provide an overview of WNTR along with a few case study applications.

**Registration:** [us02web.zoom.us/webinar/register/WN\\_mQTXEi8xTZKXrvCTrimdA#/registration](https://us02web.zoom.us/webinar/register/WN_mQTXEi8xTZKXrvCTrimdA#/registration)

### Who should attend?

The series is designed for state, tribal, and territory personnel responsible for drinking water regulations compliance and treatment technologies permitting. Water system operators, technical assistance providers, local government personnel, and others may benefit from attending.

### Looking for more webinars?

EPA's Small Drinking Water Systems Webinar Series is typically held on the last Tuesday of the month from 2 to 3:30 p.m. ET.

[epa.gov/water-research/small-drinking-water-systems-webinar-series](https://epa.gov/water-research/small-drinking-water-systems-webinar-series)





## **Nash Keyes, EPA Office of Water**

Nash (they/them) is an ORISE Fellow with EPA's Creating Resilient Water Utilities (CRWU) team. They received their bachelor's degree in applied mathematics from Yale University, and they have research experience in climate modeling and GIS. Nash is passionate about applying their technical skills to building climate resilience and environmental justice in the water sector.



## **Aliza Furneaux, EPA Office of Water**

Aliza (she/her) supports the EPA's Creating Resilient Water Utilities Initiative as an Environmental Protection Specialist. Before joining the EPA, she worked in the water reuse sector as a Technical and Regulatory Program Director at the WaterReuse Association. She holds an M.S. in environmental engineering from University of Illinois Urbana-Champaign and is passionate about connecting policy and engineering for sustainable water systems.



## **Terra Haxton, EPA Office of Research and Development**

Terra (she/her) is an engineer in the Center for Environmental Solutions and Emergency Response within EPA's Office of Research and Development. Since joining EPA in 2007, she has helped develop water system modeling approaches to assist drinking water utilities in improving security and resilience to natural disasters. She holds a B.S. in Civil Engineering from Rose-Hulman Institute of Technology and a M.S. and Ph.D. in Environmental Engineering from Vanderbilt University.

