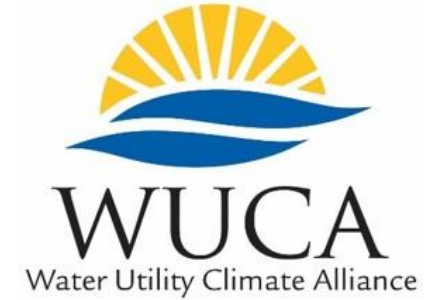


**Building Resilience to a Changing Climate:
A Technical Workshop in Water Utility
Decision Support and Adaptation**



Welcome & Agenda Review

Alan Cohn, WUCA Staff Vice Chair, NYC Dept of Environmental Protection

Julia Rockwell, WUCA, Philadelphia Water Department

Alyssa Hall, Cadmus

Water Utility Climate Alliance

Over 50 million Americans get their drinking water from WUCA utilities

Mission

Collaboratively advancing water utility climate change adaptation

Vision

Climate-resilient water utilities supporting thriving communities



Examples of Key Accomplishments & Products



WUCA
Water Utility Climate Alliance

www.wucaonline.org



Business Function Mapping



Leading Practices in Climate Adaptation



Piloting Utility Modeling Applications



Embracing Uncertainty




Engineering Case Studies



Sea Level Rise Guide



Climate Resilience Trainings and Workshops



Climate change is here and now ...
BUT how it manifests is deeply uncertain

The water sector needs guidance and practical approaches to prepare and plan

“An all-hands-on-deck effort”

Objective 1: Embed climate resilience into planning and management.

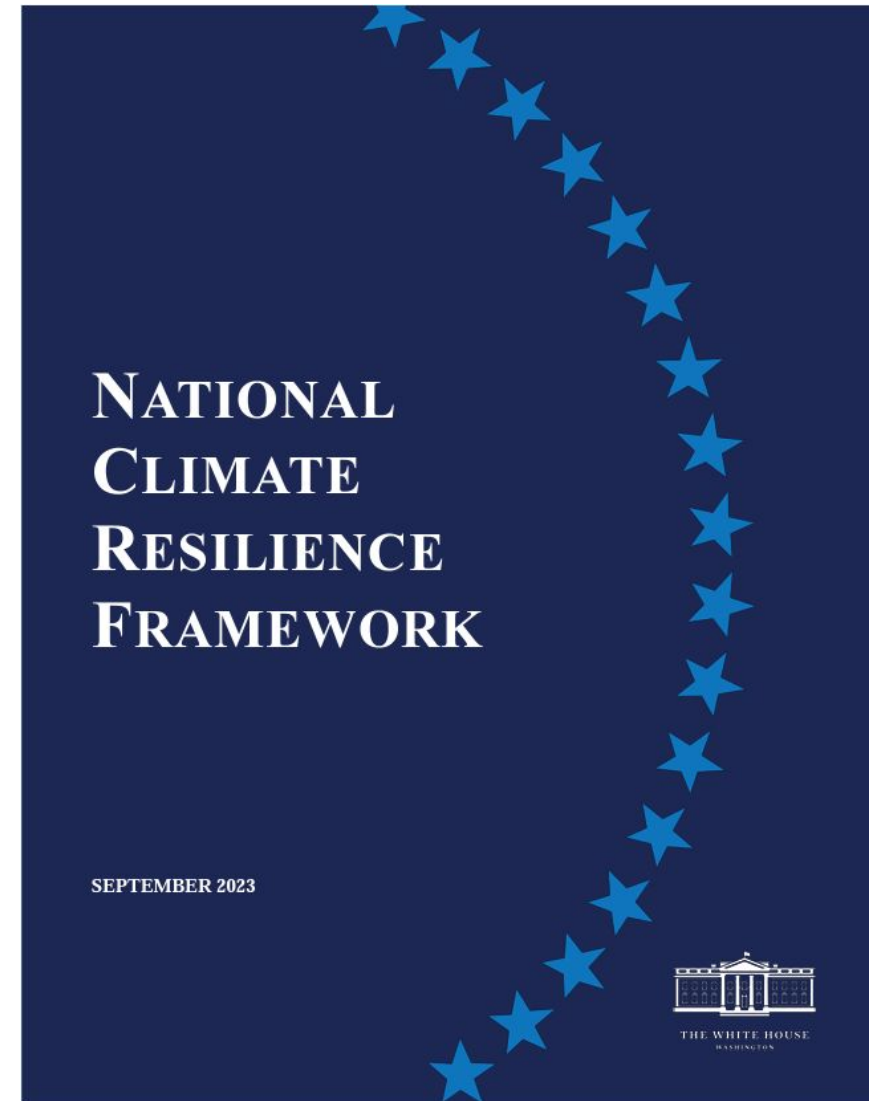
Objective 2: Increase resilience of the built environment to both acute climate shocks and chronic stressors.

Objective 3: Mobilize capital, investment, and innovation to advance climate resilience at scale.

Objective 4: Equip communities with information and resources needed to assess their climate risks and develop the climate resilience solutions most appropriate for them.

Objective 5: Sustainably manage lands and waters to enhance resilience while providing numerous other benefits.

Objective 6: Help communities become not only more resilient, but also more safe, healthy, equitable, and economically strong.



Participant Make-Up

- 29 from utilities
- 13 from climate science/boundary orgs
- 15 from basin/partner organizations

Workshop Vision

WUCA's broader vision:

- Foster smart translation and use of climate information
- Encourage action on adaptation and resilience planning under conditions of deep uncertainty
- Effectively communicate to decision makers
- Transfer knowledge from WUCA's community of practice
- WUCA Strategic Plan goals to Innovate & Lead, Mainstream & Operationalize and Transfer Knowledge

Today's workshop objectives:

- Provide participants a better understanding of the latest climate change projections
- Enhance understanding of the capabilities and limitations with using climate science
- Highlight national and local case studies related to actionable climate science and adaptation leading practices
- Provide a forum to explore opportunities to enhance the co-creation of actionable climate science for water utilities in the Northeast Region

Oct 17 – 19 Agenda Brief Preview

Day 1 (Oct 17)

- Provide participants a better understanding of the latest climate change projections for the Northeast Region of the US and the Delaware River Basin, specifically.
- Create a shared understanding of the context in which climate change science and adaptation leading practices are being applied at water/wastewater/stormwater utilities.

Day 2 (Oct 18)

- Enhance understanding of the capabilities and limitations associated with using climate science in long-term water agency planning.
- Understand different planning frameworks that address deep uncertainty associated with climate change.
- Highlight case studies related to adaptation leading practices and discuss opportunities, challenges and barriers related to successful adaptation.

Day 3 (Oct 19)

- Highlight case studies related to adaptation leading practices and discuss opportunities, challenges and barriers related to successful adaptation.
- Provide a forum to explore opportunities to enhance the co-creation of actionable climate change science for drinking water, wastewater and stormwater utilities in the Northeast Region.

Pre-workshop Survey Questions

- Do you use climate projections or climate change assessment information in your work?
- What challenges have you encountered in integrating climate information into your work?
- What skills or information would you like to get from the workshop?

Pre-workshop Survey Questions

Do you use climate projections or climate change assessment information in your work?

- Majority responded “I currently use information from climate models and/or climate assessments.”

Pre-workshop Survey Questions

What challenges have you encountered in integrating climate information into your work?

- Funding for climate adaptation evaluations and investments
- Lack of training or understanding
- Lack of easily accessible and locally relevant climate projections
- Other utility/organization priorities take precedent

Pre-workshop Survey Questions

What skills or information would you like to get from the workshop?

- Better understanding of how other utilities are incorporating climate projections into their planning
- Understanding of the current skill and precision in projections
- Understanding of what others are doing, sources of funding and other resources
- More meaningful regional technical partnerships

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