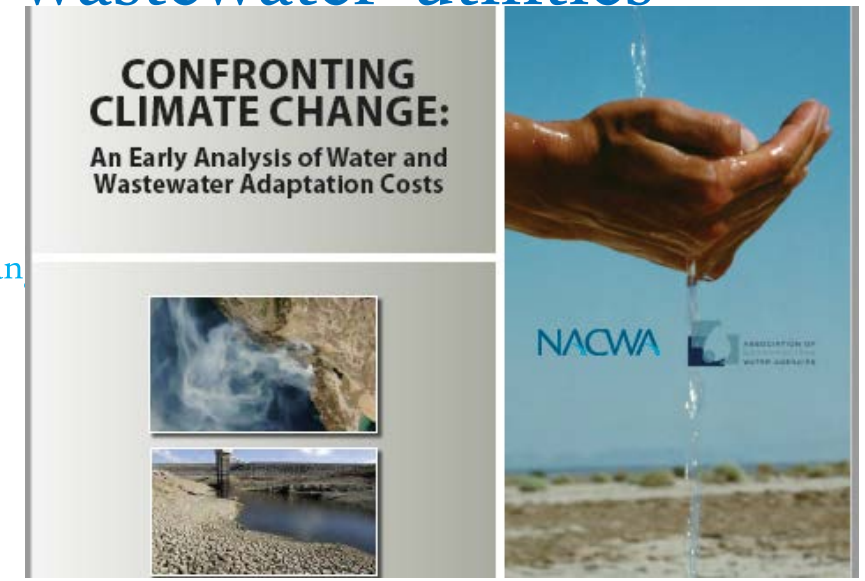
National Association of Clean Water Agencies

- Represents the interests of public clean water agencies
- Elevate clean water as a top national priority.

NACWA
A Clear Commitment to America's Waters

Economic impact of climate resiliency for wastewater utilities



- An early cost assessment of adaptations to address some of the likely impacts of climate chan on U.S. wastewater and drinking water utilities through 2050.
- Cost to utilities could range from $448 to $944 Billion

- Northeast: Wastewater Utilities: Increased demand for maintaining quality and quantity of discharges to rivers and streams for environmental purposes.
- Southwest: Wastewater Utilities: Anticipated increased regulation for many treatment components; increased issues with results of increased concentration of sewage, creating odor and treatment process problems; increased demand for maintaining quality and quantity of discharges to rivers and streams for environmental purposes.
    - Aligns with drinking water utility challenges: supply reductions and increased uncertainty; increased focus on conservation and reuse

Encouraging climate resilient federal investments

- Integrated Planning - EPA: *a comprehensive and integrated planning approach to a municipal governments CWA waste- and storm-water obligations offers the greatest opportunity for identifying cost-effective and protective solutions and implementing the most important projects first.*
  - A potential framework for coastal utilities to consider climate change
- Federal government proactively incentivizing holistic thinking
  - Flexibility to innovate (e.g. Hampton Roads Sanitation District) – requires changes in consent decree – an opportunity for site-specific discussion between federal government and unique utilities
  - Combination of prioritizing resilient investments and direct federal investment
  - Water reuse; stormwater capture; green infrastructure
- Energy-Water Nexus
  - Incentives for harnessing and generating energy
  - Black & Veatch findings - research need on capturing thermal energy