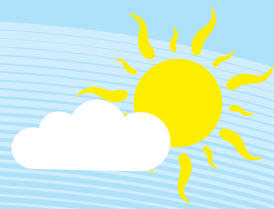


The background features a stylized illustration of a water treatment dam on the left, with water flowing through four spillways into a large, curved channel. The water is depicted with light blue wavy lines. In the foreground, a park scene is shown with green trees, two black street lamps with yellow lights, a person walking a dog, and a person sitting on a bench reading a newspaper. The sky is a dark green with a pattern of small, lighter green circles in the upper right corner.

# Promoting Environmental and Community Service Leadership as an Essential Best Practice for the Clean Water Utility of the Future

**Andrew Kricun, P.E., BCEE**  
Executive Director/Chief Engineer  
Camden County Municipal Utilities Authority

November 11, 2015

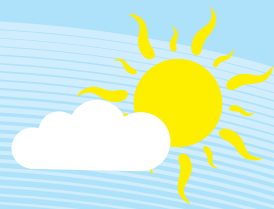


**You must be the change  
you wish to see  
in the world.**

*M. Gandhi*



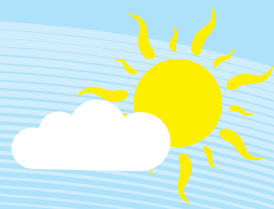
# Four Stages of Utility Investment in Their Community



- Indifference
- Do No Harm
- Be a Good Neighbor
- Be a Proactive Advocate & Anchor Institution that is Invested in the Quality of Life of our Community



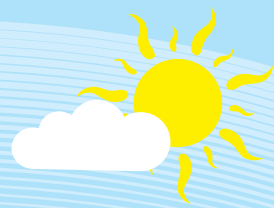
# Clean Water Utilities can Make a Positive Difference by:



- Optimizing Water Quality
- Minimizing Odors
- Achieving Cost Efficiencies to Reduce Rates
- Reducing Carbon Footprint and implementing Green Energy Initiatives
- Implementing Green Infrastructure, Creating Parks & Rain Gardens
- Providing Environmental & Community Service Leadership for our ratepayers and the Clean Water Industry



# Camden City, NJ



- One of the poorest cities in the nation
- One of the highest rates of violent crime in the nation
- Poor urban planning (little separation between residential community and industry)
- Aging infrastructure (combined sewer system is over 100 years old)

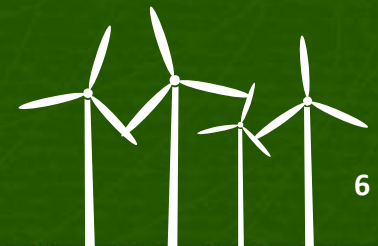


# Camden County Municipal Utilities Authority, Camden, NJ



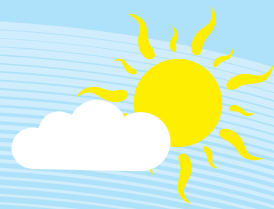
Services 500,000 customers in  
Southern NJ

- Design Flow: 80 MGD
- Average Flow: 58 MGD
- Secondary, pure oxygen activated sludge treatment
- Discharges to Delaware River



# Stage 1- “Indifference”

## *Initial Conditions*

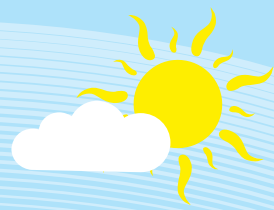


- Numerous odor complaints from neighboring residents
- Lawsuits from NJDEP and Community Groups



## Stage 2- "Do No Harm"

### *Optimizing Odor Control Performance*



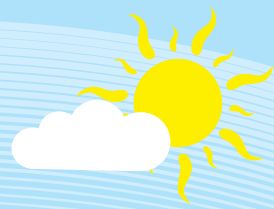
- Replaced odorous sludge composting facilities with sludge drying facility
- Installed \$50 million in new odor control systems
- Imposed zero tolerance policy with respect to odors from carelessness (doors left open; odor systems left off, etc)
- Increased supervision, especially on weekends





# Stage 3- “Be a Good Neighbor”

## *Green Infrastructure & Flood Control*

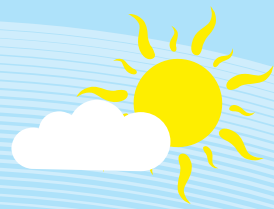


- Collaborative among NJDEP, NJ Tree Foundation, Rutgers, CCMUA, Camden City and Cooper’s Ferry Partnership to reduce flooding citywide
- 50 rain gardens, stream daylighting, depaving projects and 1000 trees planted
- Water conservation ordinance adopted
- Combined sewers replaced and rehabilitated
- Increased oversight of operations and maintenance



# Stage 3- “Be a Good Neighbor” *(cont’d)*

## *Economic Stewardship*

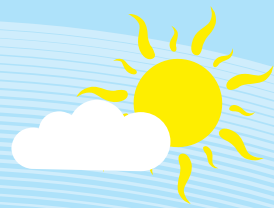


- Rates held for 17 years
- Rates 45% lower after interest adjustments (\$337 in 1996; \$342 in 2014)
- Host Community Rate Benefit given to Camden City residents



# Stage 3- “Be a Good Neighbor” *(cont’d)*

## *Green Energy Initiatives*

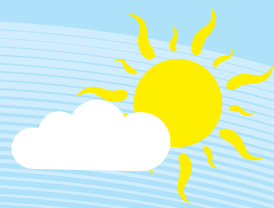


- Reduced electricity usage through improved operational efficiency and more energy efficient equipment
- 2 MW solar panel system installed
- 3 MW digestion/CHP system being installed
- Sewage to Heat facility

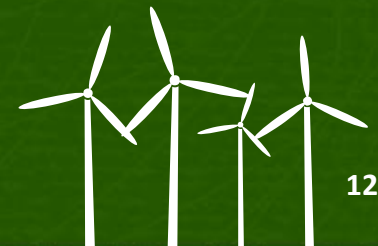


# Stage 4- "Become An Anchor institution"

## *Environmental & Community Service Leadership- Camden Collaborative Initiative*

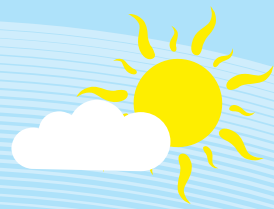


- Collaboration among USEPA, NJDEP, CCMUA, Camden City and 25 other environmental and community agencies, to address environmental issues
- Six working groups formed:
  - Flooding
  - Contaminated Sites
  - Air Emissions
  - Recycling
  - Environmental Justice
  - Environmental Education
- Camden County Sustainability Initiative



## Stage 4- "Become An Anchor Institution" *(cont'd)*

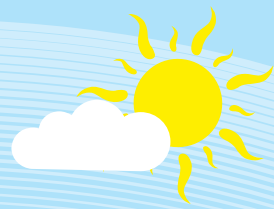
### *Riverfront Access through Creation of New Parks*



- Michael Doyle Riverfront Park (fishing pier)
- Phoenix Park (10 acre riverfront park created from an abandoned factory)
- Gateway Park (40 acre riverfront park)
- Cramer Hill Nature Preserve (25 acre riverfront park)



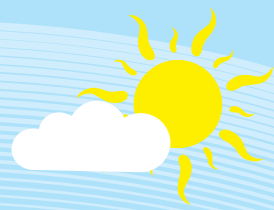
# Doing the Right Thing is also the Smart Thing



- Reduction of regulatory liability, fines, etc.
- Reduction of liability to litigation from residents
- Improvement in public perception
- Improved efficiencies not only allowed for improved environmental performance and community service initiatives but also significant cost savings



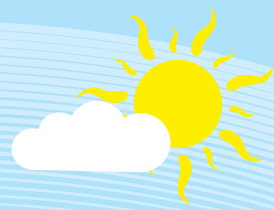
# Conclusion



The Clean Water Utilities of the Future have the opportunity, and the obligation, to “become the change we seek” and do our part to help save the planet by providing environmental and community service leadership for our ratepayers and our industry



# Thanks for Listening!



If you would like more information, please contact:

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