

CATAWBA
WATEREE
WATER MANAGEMENT GROUP

2nd Annual Water for All Summit





Year-in-Review

About CWWMG



Mission

CWWMG's Mission is to identify, fund, and manage projects that will help preserve, extend, and enhance the capabilities of the Catawba-Wateree River Basin to provide water resources for human needs while maintaining the ecological integrity of the waterway.

Membership (19)

- Catawba River Water Supply Project
 - Lancaster County Water & Sewer District (SC)
 - Union County (NC)
- Chester Metropolitan District
- City of Hickory (NC)
- City of Belmont (NC)
- City of Camden (SC)
- Charlotte Water (NC)
- City of Gastonia, Two Rivers Utilities (NC)
- City of Lenoir (NC)
- City of Morganton (NC)
- City of Mount Holly (NC)
- City of Rock Hill (SC)
- City of Statesville (NC)
- Duke Energy Carolinas, LLC
- Lincoln County (NC)
- Lugoff- Elgin Water Authority (SC)
- Town of Granite Falls (NC)
- Town of Long View (NC)
- Town of Mooresville (NC)
- Town of Valdese (NC)

Our Vision

We envision a future with a sustainable water source achieved through proactive planning, cutting edge research, and water shortage preparedness.



**Water Supply
Master Plan**



**Research and
Technical**



Communications

Water Supply Master Plan

Goal

To extend safe yield capacity beyond the year 2100

Current Status

- Completed Phase 3 - water quality
- Produced water quality platform

Next steps

- Update water quantity phases in next 5 years
- Develop Phase 4 - economic issues

RTI Water Research Foundation Study

Goal

To understand the future of the Catawba-Wateree River as a drinking water supply

Current Status

Created tool to help prioritize land conservation efforts based on cost

Next steps

Develop Water Quality Data Program

Water Loss Management Audit

Goal

To reduce per capita water loss across the basin

Current Status

Developed detailed water loss profiles and statistical analysis for each CWWMG member

Next steps

Conduct economic analysis and identify target goals both specifically for each member and the aggregate group

2018 Highlights

- Completed Water Supply Master Plan Phase 3
- Awarded Water Resources Fund Grant from Duke Energy
- Selected for AWWA journal publication
- Launched inaugural Citizens' Water Academy
- Implemented recommendations from first 5-Year Self Assessment
- Completed second 5-Year Self Assessment with overwhelmingly positive feedback



Our Investment

Our work aims to extend the shared water supply and protect the ecological integrity of our waterways into the next century.

> \$5 million

**Our total investment in projects that
aim to advance solutions to our
most pressing water challenges.**

Our Investment

Partnerships are vital to our success!



THE
**Water
Research**
FOUNDATION



**CAROLINA
LAND & LAKES**
RESOURCE CONSERVATION & DEVELOPMENT



U.S. Endowment
for Forestry and Communities



USGS
science for a changing world

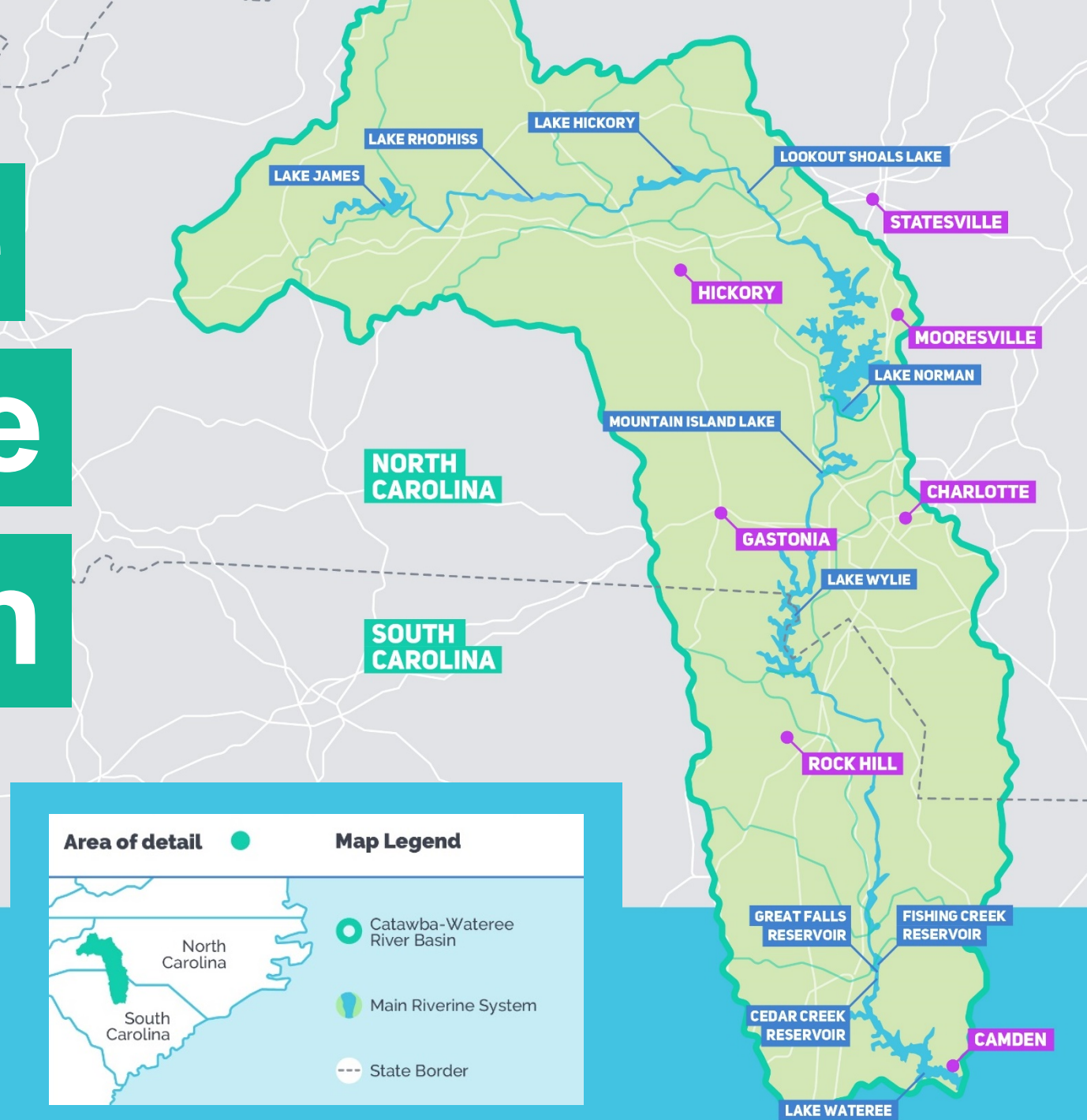


A Look Ahead

- **Focus on implementation of 5-Year Strategic Plan**
- **Ongoing development of key projects & USGS groundwater monitoring work**
- **Support for Catawba-Wateree Clean Water Initiative**
- **Advancement of Citizens' Water Academy, Annual Summit, and other forums for dialogue & collaboration**
- **Consideration for adding new members**

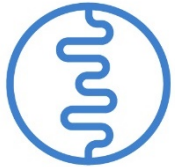


State of the Basin



A Hard-Working River

Approximately 2 million people get drinking water from system



225 miles of river



**4,750 square miles
of watershed area**



**11 interconnected
reservoirs**



18 public water suppliers

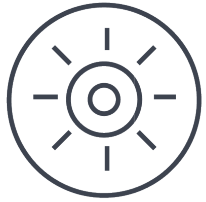


**13 hydropower stations
and many public utilities**

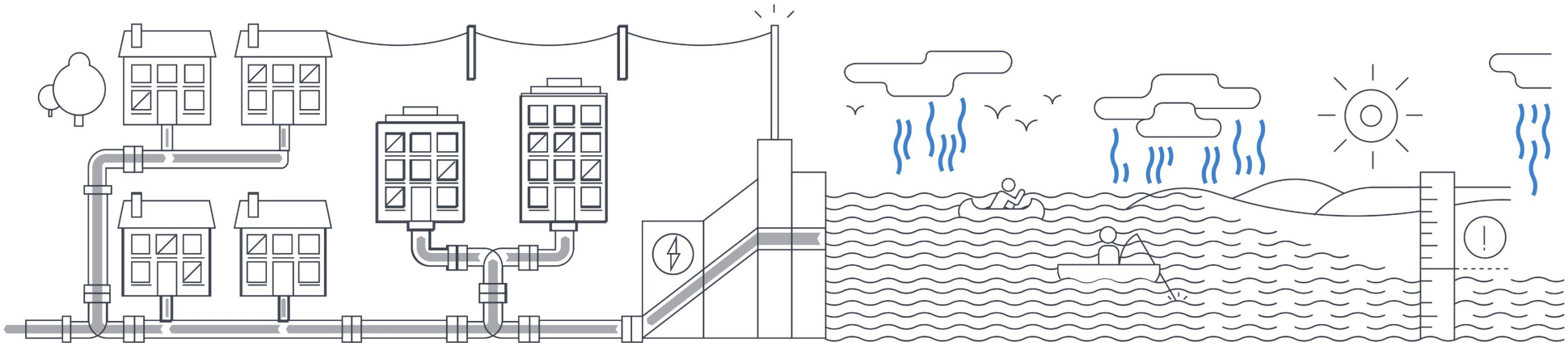


**Nuclear & coal-fired
power stations**

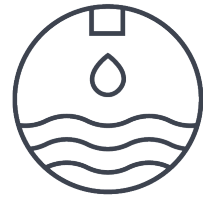
Climate Change



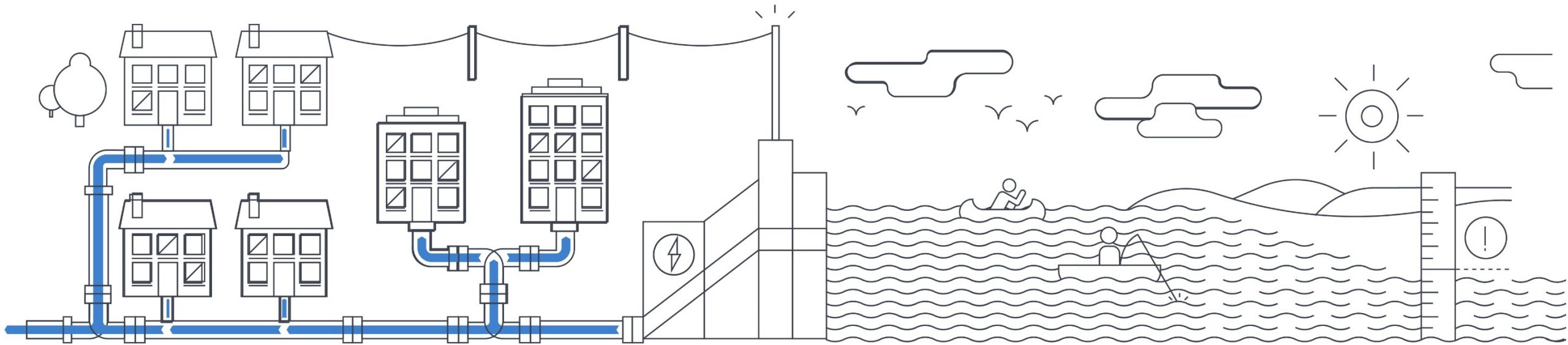
Climate Change



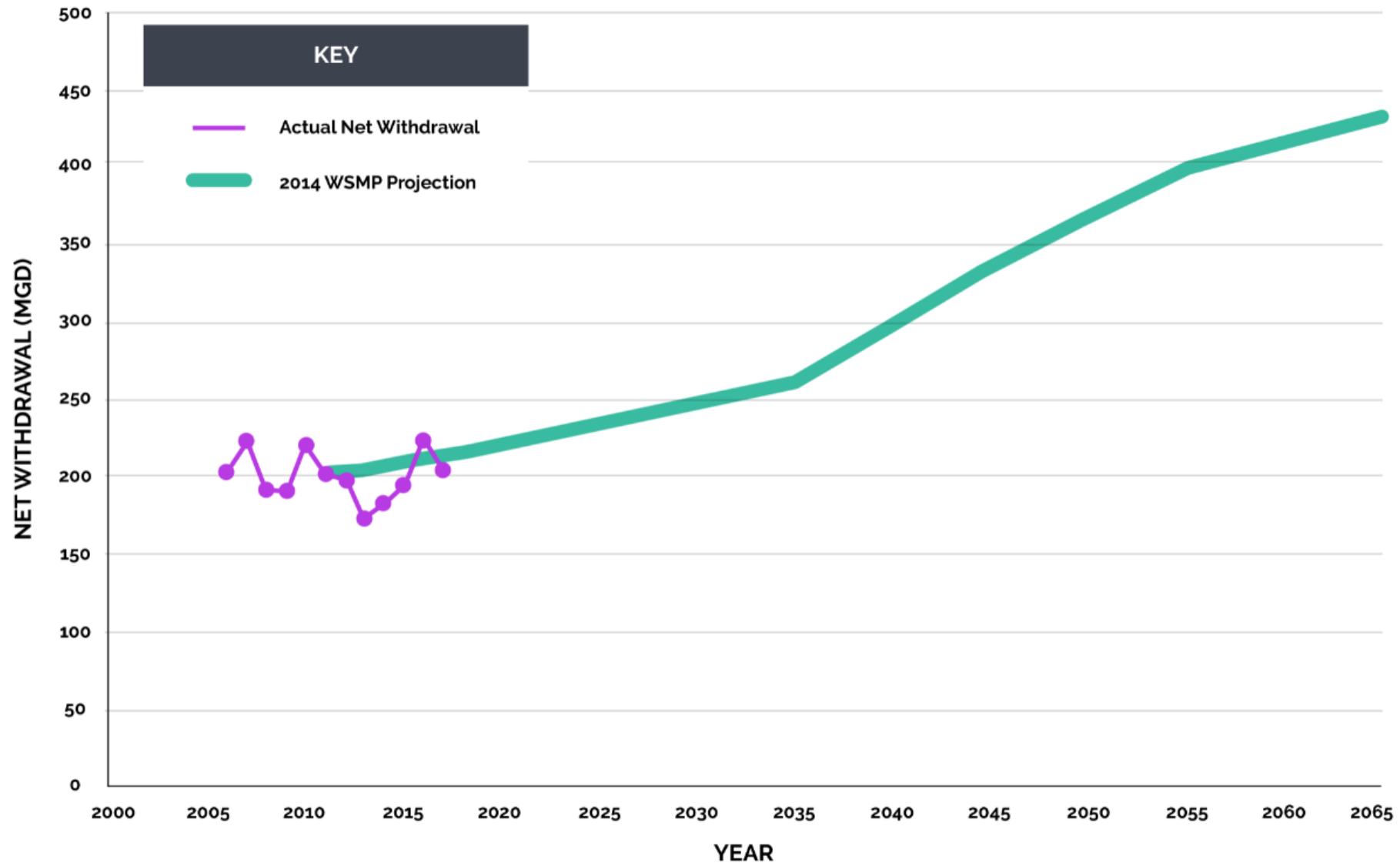
Water Demand



Water Demand



Projected vs Actual Net Withdrawal

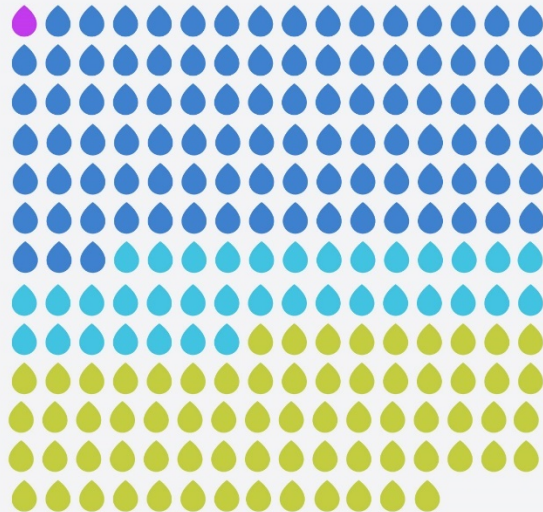


Water Use Data

2017:

**Net water withdrawn from Basin:
205 million gallons per day**

💧 = 1M GALLONS



1
Industrial

98
Public Water Suppliers

36
Agricultural/Irrigation

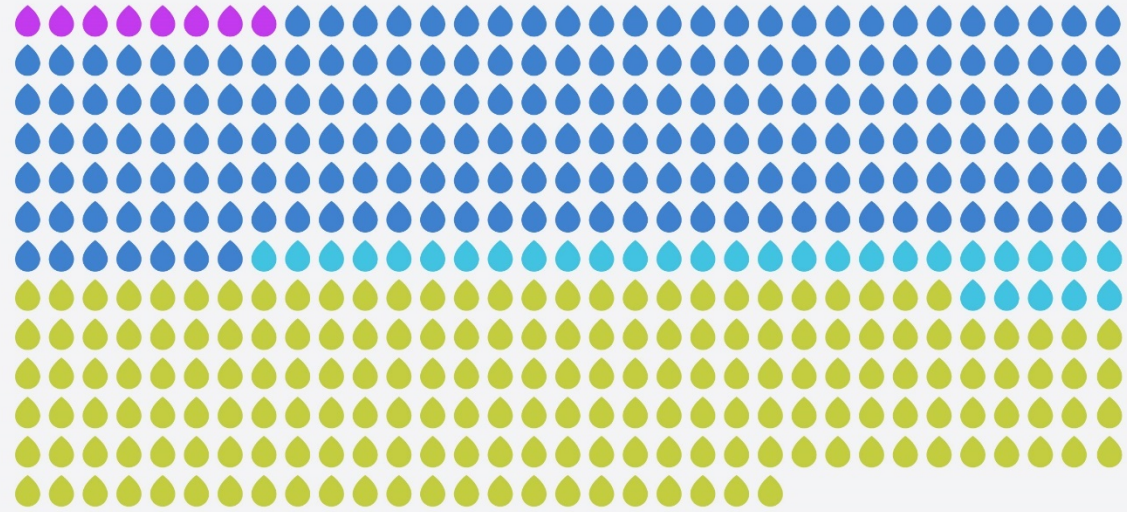
70
Power

Source: CW-DMAG (2018 June) Catawba-Wateree Annual Water Use

2065:

**Future projected net water withdrawn
from Basin: 419 million gallons per day**

💧 = 1M GALLONS



8
Industrial

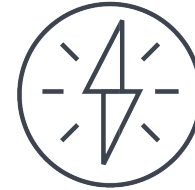
199
Public Water Suppliers

35
Agricultural/Irrigation

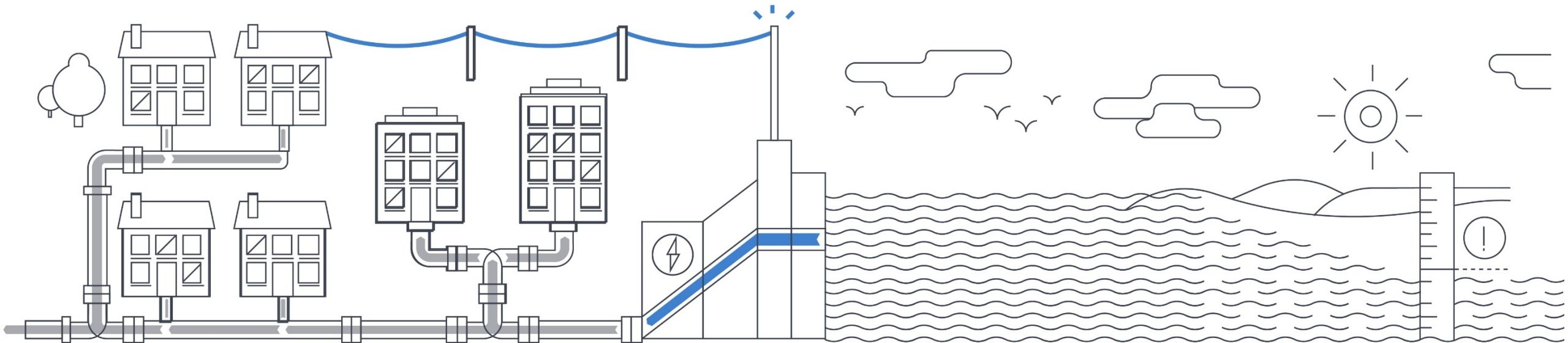
178
Power

Source: Water Supply Master Plan

Energy Demand



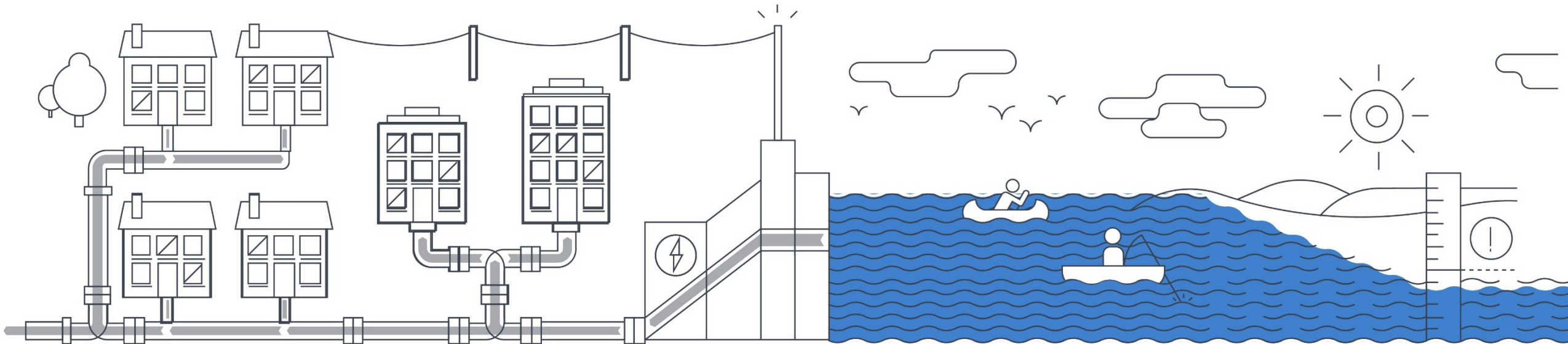
Energy Demand



Recreational Activity




**Recreational
Activity**



Are we prepared?



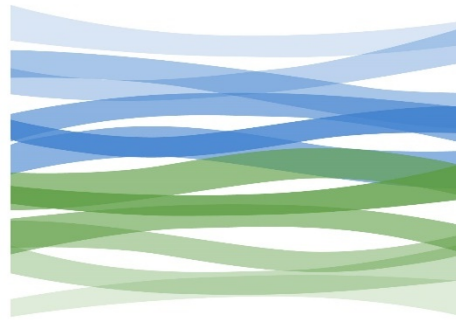
**Investments in
Basin-wide projects**



#Trending



Citizens' Water Academy



CATAWBA
WATEREE
WATER MANAGEMENT GROUP

2nd Annual Water for All Summit

