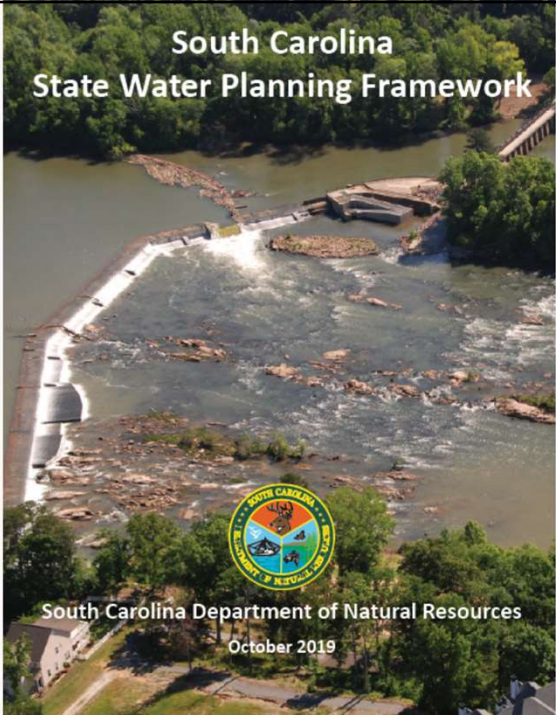


<p><b>Prioritize Strategies</b></p> <p>Part of Chapter 7 Water Management Strategies</p> <p>Effectiveness &amp; Feasibility</p> <p>Expected Cost to Implement</p> <p><i>Establish and prioritize water management strategies</i></p>	
--	--



**South Carolina  
State Water Planning Framework**

South Carolina Department of Natural Resources  
October 2019

## Required Methods

Planning Framework is not specific as to methods.

*“A cost-benefit analysis of each strategy to determine those strategies that provide a net benefit will be given.”*

*“The cost-benefit analysis also may be used to prioritize strategies.”*

JDS

## Multiple Criteria

Disaggregation approach

Consensus tool

It takes time

Best used in mature organizations

Does not get to dollars

## Little League Draft



**Throwing, Hitting, Fielding, Speed**

## Little League All-Stars



### Polling (Player Votes)

## Preference Ranking

Variety of forms

Voting methods by ballots

Plurality, Borda Count and Pairwise Comparison are common methods

Does not take a lot of time

Establishing “on what do we agree”

JDS<sup>+</sup>

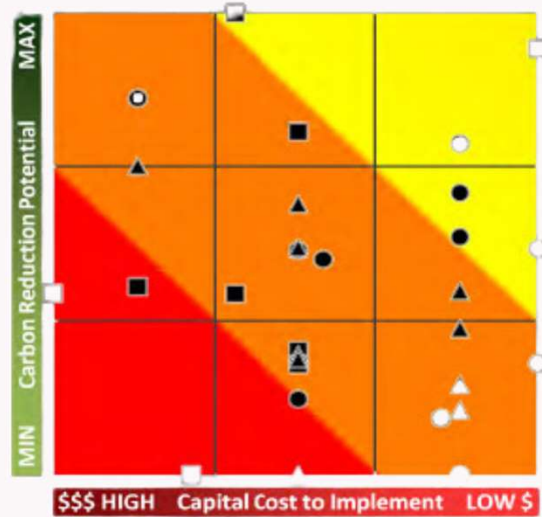
## Other Methods

Cost and Benefits

Ease of Implementation  
(PICK Diagram)

Time to Implement

Risks




Top 34 Proposed Strategies	Initial Cost	O&M Impact	Carbon Impact	Payback
Building Climate Controls and Technology Interface	\$\$\$	Decrease in Costs	🌿🌿🌿	Mid-Term
Consolidate Collection of Recyclables and Outdoor Solid Waste from City Parks	\$\$\$	Decrease in Costs	🌿🌿🌿	Mid-Term
Building Envelope Improvements	\$ <sup>2</sup>	Decrease in Costs	🌿🌿🌿	Short-Term
Raleigh Convention Center Preventative Maintenance Plan Implementation	\$\$	Decrease in Costs	🌿🌿	Mid-Term
Building Interior Light Controls	\$ <sup>2</sup>	Decrease in Costs	🌿🌿	Short-Term
Solar Thermal for Heating City Pools	\$	Decrease in Costs	🌿🌿	Short-Term
Increase Recycling Container Size	\$\$	Decrease in Costs; Revenue Neutral	🌿	Mid-Term
Fleet Alternative Fuel Vehicles	\$\$	No Change	🌿🌿	Mid-Term
LED Lighting in Parking Decks	\$\$	Decrease in Costs	🌿🌿	Mid-Term
Future Water Efficiency	\$	Decrease in Costs	🌿🌿🌿	Mid- to Long-Term
Real Time Energy Management Operations Optimization Project	\$\$	Decrease in Costs	🌿🌿	Mid-Term
LED Street Lighting	\$ <sup>1</sup>	Decrease in Costs	🌿🌿	Short-Term
Lighting Replacements by PUD	\$ <sup>1</sup>	Decrease in Costs	🌿	Mid-Term
Alternative to Methanol Use at Neuse River WWTP	\$\$\$	No Change	🌿🌿🌿	n/a
Energy Efficiency Policy for City LEED Buildings	\$	Decrease in Costs	🌿	Mid-Term
Energy-Efficient Vending Machines	\$	Decrease in Costs; No New Revenues	🌿	Short-Term
Tree Planting Programs	\$	Increase in Costs	🌿	n/a

## Proposed Approach

Preference Ranking

Supported Qualitatively by:

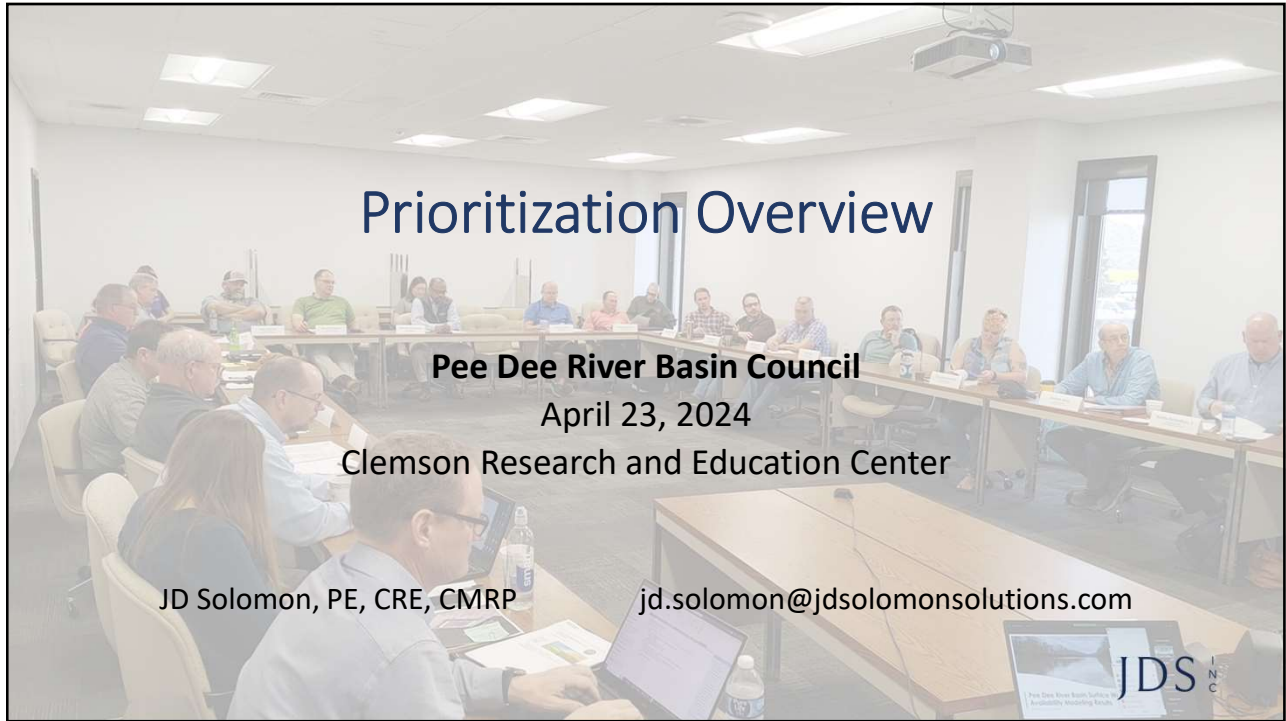
- Capital Costs
- Total Impact (Benefits)
- Time to Implement



## Next Steps

- Strategies approval by RBC
- Consulting team develops order-of magnitudes for Capital Costs, Total Impact, and Time to Implement
- RBC Ranks Strategies
- RBC Reviews and Approves





# Prioritization Overview

**Pee Dee River Basin Council**

April 23, 2024

Clemson Research and Education Center

JD Solomon, PE, CRE, CMRP

[jd.solomon@jdsolomonsolutions.com](mailto:jd.solomon@jdsolomonsolutions.com)

