



Sustainable Water Systems



Vision: *Conserving and protecting our water sources while developing sustainable systems for water delivery, stormwater management, and wastewater treatment.*

What is included?

- Protecting the quantity and quality of water throughout our watershed
- Programs and education to reduce water consumption and increase efficiency
- Infrastructure for treating and distributing drinking water, wastewater, and stormwater that is well-maintained, efficient, and prepared for changing climate conditions

Key Collaborators

- Regional Water and Stormwater Agencies
- Policymakers and Regulators
- HOAs
- Developers
- Businesses and Industries
- Skilled Trades and Unions







Final Goals, Recommended Strategies, and Example Action



The table below includes the following:

- **Final Goals** created from discussions with the Advisory Group, feedback from key stakeholders, and survey responses from the community.
- **Recommended Strategies** developed from the GHG Pathways Analysis, the Climate Vulnerability Assessment, discussions with the Advisory Group, feedback from key stakeholders, and survey responses from the community.
- **Example Actions** for consideration that align with the strategies and goals based on existing Southern Nevada plans, national best practices, discussions with the Advisory Group, feedback from key stakeholders, and survey responses from the community.

Goal 1: Water supply is high quality and sustainable.		Alignment
1.1	Protect and enhance the quality of Southern Nevada’s water resources.	
	1.1.A <i>Identify areas for targeted land conservation or protection due to proximity to sensitive water resources.</i>	
	1.1.B <i>Retrofit detention basins and add features to regional basins to remove pollutants before they reach the Las Vegas Wash.</i>	
1.2	Improve Southern Nevada’s resilience to drought.	
	1.2.A <i>Transition all public property to drought-resilient landscaping.</i>	
	1.2.B <i>Establish an efficiency review policy and process for new, large water users that encourages efficient development and disincentivizes consumptive uses.</i>	
	1.2.C <i>Create and distribute a guidebook and training on incorporating functional and drought tolerant green infrastructure onto existing properties. See Example Guidebooks SNWA; Tucson AMA Plant List.</i>	



Goal 2: Southern Nevada is a national leader on water conservation and efficiency.		
2.1	Reduce or eliminate consumptive water uses.	
2.1.A	<i>Develop a program to transition industrial and commercial customers to dry cooling technologies.</i>	
2.1.B	<i>Expand water submetering to increase compliance with outdoor watering laws See examples Beverly Hills Residential Irrigation Submetering Ordinance, Long Beach, CA, Irrigation Metering Regulations.</i>	
2.2	Require aggressive water conservation in new development.	
2.2.A	<i>Develop and implement uniform regional performance standards to help local governments evaluate water demands of planned development.</i>	
2.2.B	<i>Develop tools and guidance for developers to estimate water demand of proposed projects and report results to local jurisdictions.</i>	
2.3	Increase water conservation in existing buildings.	
2.3.A	<i>Train and incentivize relevant building tradespeople to identify and repair water leaks as they are providing services See example Georgia Qualified Water Loss Auditor Certification Program.</i>	
2.3.B	<i>Identify barriers to participation in SNWA’s commercial and industrial Water Efficient Technologies program and implement solutions.</i>	

Goal 3: Water infrastructure is reliable, safe, resilient, and efficient.		
3.1	Enhance regional collaboration around water planning.	
3.1.A	<i>Train public sector officials and staff in water issues such as roles of each agency, resource plans, and intersection of water and energy.</i>	
3.1.B	<i>Align all jurisdictions’ water policies and programs based on water agency studies and scientific evidence.</i>	
3.2	Invest in resiliency for water systems.	
3.2.A	<i>Ensure power grid redundancy for key water transmission systems. See example EPA Power Resilience Guide for Water and Wastewater Utilities.</i>	



Aligns with Southern Nevada Water Authority [2021 Water Resources Plan](#).



Related Actions in the County Operations Plan

Goals	Actions
<p>Decrease water consumption in County operations.</p>	<p><i>Continue to retrofit existing County facilities with water smart fixtures and technology.</i></p>
	<p><i>Assess areas on County facilities where existing ornamental turf can be converted to xeriscaping.</i></p>
<p>Improve area water quality by reducing impacts from County operations.</p>	<p><i>Reduce non-point source pollution at County facilities by ensuring the County is meeting National Pollutant Discharge Elimination System (NPDES) permit requirements.</i></p>
<p>Support policies, programs, and regional collaboration for improved water quality, water conservation, and drought management.</p>	<p><i>Promote SNWA’s Joint Water Conservation Plan (2019). Revise Title 30 during Transform Clark County to strengthen water conservation requirements during land use approval.</i></p>
	<p><i>Continue to enhance the tracking of water consumption to analyze consumption trends at the building level and create a dashboard to educate staff and encourage conservation.</i></p>
	<p><i>Continue to modify design guidelines for County facilities, as necessary, that emphasize locally appropriate green infrastructure and low-impact design techniques and require adoption for all new County facilities.</i></p>