

INVESTING IN THE FUTURE



Regional Projects

The South Metro Water Supply Authority ("South Metro Water") and our 13 water provider members are investing in new renewable water supplies to provide a secure water future for the South Denver Metro region. These projects will ensure we have enough water resources to support our families now and in the future. They will also help maintain and enhance property values and our quality of life. Collectively these regional and local projects comprise the foundation of our plan to transition to a renewable and sustainable water supply.

The **WISE Project** is our partnership with Denver Water and Aurora Water where we share infrastructure to bring new supplies of water to our region. Through WISE, Aurora and Denver will provide fully treated water to South Metro Water for distribution to participating members on a permanent basis. WISE will also provide a new back-up drought supply for Denver and offset costs and stabilize water rates for Aurora. The partnership is one of the first of its kind in the country and will bolster water supplies to the South Metro area while maximizing existing water assets in Denver and Aurora. Current plans call for water delivery to begin in 2016. By build-out the project will deliver an average of 7,250 acre-feet of water a year to the South Metro region. This amount is equivalent to that used by 18,000 households in a year based on 2.5 households per acre-foot annually. Currently 10 South Metro Water members participate in WISE.



The expansion of **Chatfield Reservoir** will increase our available water supply and decrease our reliance on the nonrenewable Denver Basin aquifers. The project is a collaboration among nine entities, including four South Metro Water members, to convert more than 20,000 acre-feet of existing storage space from flood control to multi-use and water supply purposes. The project will provide about 8,500 acre-feet of water per year for municipal, agricultural, and environmental uses. The Chatfield Reallocation Project creates the rare opportunity to capture runoff in an on-stream reservoir using an existing dam.

South Metro Water members also are leading the way in developing new ways to store water through **Aquifer Storage and Recovery**. In Highlands Ranch, more than 14,000 acre-feet of water has been injected back into underground aquifers, enough to supply the city for a year. This provides an emergency back-up supply in times of drought. South Metro Water is conducting a pilot program to store some of the region's new renewable supply underground. South Metro Water members Castle Rock and East Cherry Creek Valley, serving Centennial and unincorporated Arapahoe County, are conducting additional pilot programs.

INVESTING IN THE FUTURE



Local Collaboration

The **Rueter-Hess Reservoir** in Parker was completed in 2012 with collaboration among four South Metro Water members serving Parker as well as Castle Rock, Castle Pines North and Stonegate. The reservoir provides reliable water storage to the region. When filled, the reservoir will encompass 1,170 acres, making it 50 percent larger than Cherry Creek. The reservoir enables Parker to capture and reuse water, lessening the district's dependence on nonrenewable groundwater. The district also is exploring possible recreational uses for the reservoir.

The **Northern Project** is a collaboration between two South Metro Water members, East Cherry Creek Valley and Arapahoe County Water and Wastewater Authority, to deliver new renewable water supplies to the region and reduce dependency on nonrenewable groundwater. The project includes the 31-mile Northern Pipeline and the state-of-the-art Northern Water Treatment Plant. ECCV and ACWWA serve Centennial, Foxfield and unincorporated areas of Arapahoe County. Five other South Metro Water members share capacity on the pipeline: Castle Rock, Centennial, Cottonwood, Inverness, and Stonegate.

The treatment plant, completed in 2012, uses advanced technology to produce up to 11 million gallons of treated water per day. At full capacity, it will be able to treat more than 33 million gallons of water per day.

The **InterConnect Pipeline Project** is a collaboration between two South Metro Water members serving Highlands Ranch and Castle Pines North to reduce dependency on nonrenewable underground aquifers. This new infrastructure allows Castle Pines North to be 100 percent reliant on existing renewable water sources for half of the year from October through April, allowing the district to shut down wells in preparation for heavy demand during summer months. The InterConnect Pipeline is a model for how communities can work together, across jurisdictional lines, to solve problems and serve constituents.

Two South Metro Water members serving Castle Rock and The Pinery are **connecting their water systems** to increase reliability of both systems. This project is designed to be an emergency supply for either community should the need arise. Both communities will benefit from the increased reliability provided by this new connection.

Local Projects

The Town of Castle Rock recently completed the **Plum Creek Water Purification Facility** as part of the Town's goal of attaining a 75 percent renewable water source. Brought online in Spring 2013, the facility allows Castle Rock to capture and reuse renewable water supplies. The plant can treat up to 4 million gallons per day now and up to 12 million gallons per day in the future.

Centennial Water and Sanitation District, serving Highlands Ranch, completed the **South Platte Reservoir** in 2007 to store surface water as part of the district's efforts to develop more renewable supplies. The 6,400-acre-foot storage reservoir was converted from a gravel mine.

Douglas County, through its **Water Alternatives Program**, is assisting qualifying non-SMWSA water providers and subdivisions that are interested in connecting to a regional utility with resources to do so.