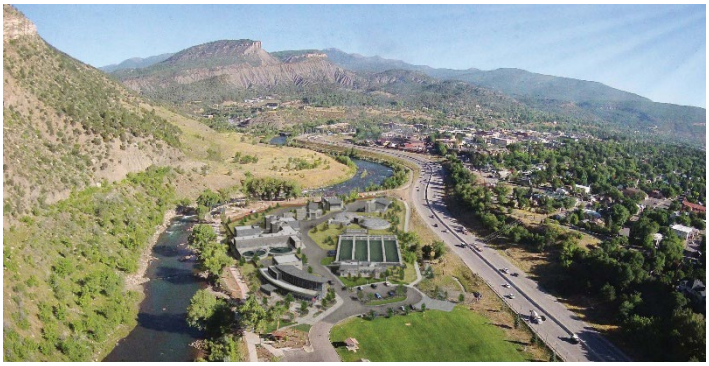
Clean Water
State Revolving Fund

# WATER RECLAMATION FACILITY

**STATE PROGRAM:** Colorado Water Resources and Power Development Authority

**ASSISTANCE RECIPIENT:** City of Durango

**ASSISTANCE AMOUNT:** $60M



## PROJECT DESCRIPTION

In 2012, the State of Colorado set water quality standards in the State's waterways and numeric effluent limits for wastewater dischargers. The expanding City of Durango needed to upgrade its Santa Rita Water Reclamation Facility (SRWRF) to meet these new regulations for its 18,000 customers. The last time the plant was upgraded was 36 years ago, so the decision was made to upgrade the plant to a Johannesburg secondary treatment facility to enhance performance, operation, redundancy, and capacity deficiencies. Upgrades include a second anaerobic digester and micro turbine system that is expected to produce 80 kilowatts of power, doubling the plant's current power generation. A high-speed turbo secondary blower system will be installed, which will result in 30 percent in annual energy savings compared to the current blowers. A fats, oil, and grease receiving station will be built that will significantly increase the amount of renewable energy the anaerobic digesters produce. Primary clarifiers will now be active primary clarifiers, increasing the efficiency in primary sludge removal and enabling the anaerobic digesters to generate additional biogas. Finally, biosolids will be dewatered by a Fournier dewatering rotary press that will reduce the annual $250,000 cost for hauling and disposing biosolids.

To read more about this case study, please visit https://www.epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf.