



— BUREAU OF —  
RECLAMATION

## Fiscal Year 2024 WaterSMART Small-Scale Water Efficiency Projects (Second Application Period)

### Arizona

#### **Coldwater Canyon Water Company, Upgrade Manual Read Meters to Advanced Meter Reading Technology**

**Reclamation Funding: \$91,786**

**Total Project Cost: \$183,572**

The Coldwater Canyon Water Company, located in Yavapai County, Arizona, will upgrade 425 manual meters to meters with advanced meter reading technology. The installation and upgrades will support efforts for water management efficiency by accurately accounting for water use and identifying unaccounted for water, such as leaks and breaks, paired with enhanced notifications for more responsible water use. The company's asset management plan supports the implementation of meter upgrade projects.

#### **Global Water Resources, Turf Removal Incentive Program for Residential and Non-Residential Customers**

**Reclamation Funding: \$50,000**

**Total Project Cost: \$100,000**

Global Water Resources, located in Maricopa, Arizona, will add a turf removal and replacement rebate program for residential and non-residential customers to their existing water conservation program. This project will replace turf with water-efficient landscaping to enhance water conservation, increase groundwater reliability by reducing groundwater withdrawal demands, and increase public awareness of water efficiency. This effort will support Global Water Resources' Total Water Management Plan by incentivizing behaviors to reduce demand for non-renewable resources.

#### **Joshua Valley Utility Company, Phase III: Upgrade 400 Meters to Advanced Reading Technology**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$200,432**

The Joshua Valley Utility Company, located in Meadview, Arizona, will upgrade 400 manual read residential and commercial meters with meters containing advanced meter reading technology to enhance operational efficiency, improve leak detection, reduce water losses, provide accurate and timely data collection, and improve the overall reliability of the water supply system. With the new metering technology, the company can access real-time water usage and leak detection alarms to help them make informed decisions about conserving water. The project advances water management and conservation goals identified by local and state water resource agencies.

**Sonora Environmental Research Institute, Inc, High-Efficiency Clothes Washer Replacement Program for Low-Income Households**

**Reclamation Funding: \$47,500**

**Total Project Cost: \$95,000**

The Sonora Environmental Research Institute, in partnership with Tucson Water, located in Tucson, Arizona, will install 100 high-efficiency clothes washers in low-income households. The upgraded appliances will be installed through the existing Limited Income High-Efficiency Clothes Washer program to reduce water use. This project is supported by Tucson Water's Drought Preparedness and Response Plan. This plan emphasizes conservation, efficiency, and water loss prevention.

**California**

**City of Hercules, Enhancing Park Irrigation Efficiency with Cloud-Based Controllers**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$247,000**

The city of Hercules, located in western Contra Costa County, California, will upgrade manual irrigation controllers in city parks to cloud-based controllers. The new controllers will be tied into a weather station and soil moisture that will manage irrigation demands through an algorithm and provide water use data to city staff. These irrigation system upgrades will improve water management, delivering water more precisely based on real-time weather data and soil moisture levels, ensuring optimal water use. The project is a key initiative identified in the city's Environmental Sustainability Plan to enhance water efficiency and sustainability.

**Cucamonga Valley Water District, Water Savvy Parkway Transformation Program**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$268,096**

Cucamonga Valley Water District, located in San Bernadino County, California, will convert 20,000 square feet of residential parkway turf into drought-tolerant alternatives through the Water Savvy Parkway Transformation Program. The program intends to display drought-tolerant parkway transformations inspiring residents to adopt outdoor water-saving practices in their own homes. The program will prioritize converting parkway turf in low-income areas and in areas of high-water use, including neighborhoods with consistently overwatered parkways. Turf replacement is a strategy that supports the district's 2020 Water Shortage Contingency Plan.

**Desert Water Agency, Grass Removal Program**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$200,000**

The Desert Water Agency, located in Palm Springs, California, will provide rebates for the removal and replacement of approximately 100,0000 square feet of turf with water-efficient landscaping and drought-tolerant plants. The landscape conversions will help to support a more reliable water supply and provide drought resiliency. The project supports the planning efforts and objectives of the 2018 Coachella Valley Integrated Regional Water Management and meets the water conservation and efficiency goals of the Desert Water Agency's 2020 Coachella Valley Regional Urban Water Management Plan.

**Fresno Irrigation District, Meter Installation Program**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$200,000**

Fresno Irrigation District, located in the Central Valley of California, will provide landowners financial incentives to install meters on twenty existing groundwater wells. The project will provide water use data from irrigation wells to landowners to better manage groundwater consumption during periods of the year when surface water is not available from the district. The project will provide data for decision-making and water conservation within a critically over-

drafted groundwater basin. The project supports the goals of the District's Water Management Plan and 2018 Agricultural Water Management Plan.

**Jackson Valley Irrigation District, Propeller Meter Upgrades**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$224,000**

Jackson Valley Irrigation District, located in Amador County, California, will upgrade 65 surface water diversion flow meters from manual read propeller flow meters to remote read electromagnetic meters. Installing the electromagnetic meters will allow the district to better manage surface water diversions, reduce time spent reading manual meters, and more accurately appropriate water in drought conditions. Water not diverted due to more efficient metering will benefit the threatened and endangered fish species within the basin by enhancing river habitat. The project addresses the district's goal to accurately report surface water volumes identified in the district's Groundwater Sustainability Plan.

**Pajaro Valley Water Management Agency, Remote Data Acquisition for High Production Groundwater Wells**

**Reclamation Funding: \$97,878**

**Total Project Cost: \$195,757**

The Pajaro Valley Water Management Agency, located on the coast of California, will upgrade 49 manually read propeller meters with electromagnetic meters and remote read technology on high-production groundwater wells. The upgrades of the meters will provide water system operators real-time data on groundwater use for improved groundwater management, improved groundwater pumping data, and help reduce groundwater declines through more accurate irrigation management. The project addresses the agency's goal to install remote telemetry to improve the irrigation management identified in the agency's 2014 Basin Management Plan.

**San Lorenzo Valley Water District, AMI Water Meter Replacement Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$225,000**

San Lorenzo Valley Water District, located in Santa Cruz County, California, will upgrade 443 meters with advanced metering infrastructure (AMI) meters. The addition of the AMI infrastructure will allow the district to reduce water leakage, increase water conservation, improve operational efficiency, and increase energy efficiencies. This project supports the district's 2020 Urban Water Management Plan.

**Upper San Gabriel Valley Municipal Water District, Water Use Efficiency Plant Voucher Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$208,915**

Upper San Gabriel Valley Municipal Water District, located in Los Angeles County, California, will support outdoor landscaping water conservation by providing residential customers incentives to remove turfgrass and replace it with water-efficient landscaping and drought-tolerant plants. The program will help improve water supply reliability, provide drought resiliency, increase water use efficiency, and reduce energy consumption. The project supports the planning efforts and water conservation goals of the district's 2020 Urban Water Management Plan.

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## **Colorado**

### **Community Agriculture Alliance Inc, Automate Headgates on the Bear River**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$244,115**

Community Agriculture Alliance, in partnership with the Upper Yampa Water Conservancy District, located in Steamboat Springs, Colorado, will automate critical diversion headgates on the Bear River in the Yampa River Basin, including a communication base station for radio transmission. Along this stretch of the Bear River, flows are characterized by fluctuations due to snowmelt runoff in the spring months, temperature impacts during the summer, and reservoir releases, leading to a dynamic water management system ideally positioned to benefit from automation. The project will improve water-delivery accuracy for irrigated lands and aid river administration for both priority and junior-priority water users. The project addresses the goals and objectives identified in the Yampa Integrated Water Management Plan.

### **Town of Fraser, 2026 Water Meter Modernization and Replacement Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$216,305**

The town of Fraser, located in the Rocky Mountains of Colorado, will install advanced metering infrastructure with 380 new meters and cellular endpoints. The project will improve the town's efficient management of water supply by acquiring real-time consumption data, with algorithmic analysis tools to identify water losses and excessive water use. The data will be used to encourage water conservation detect leaks within customers' homes, prevent ruptures due to frozen pipes by alerting staff to freezing temperatures in the plumbing, and record water consumption throughout the system. This project is supported by the town's 2023 Water Efficiency Plan.

### **Town of Simla, Municipal Water Meter Upgrade for Water Efficiency**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$225,000**

The town of Simla, located in eastern Colorado, will upgrade 320 residential and commercial water meters with advanced metering infrastructure water meters. The project will result in more efficient management of the town's water supply system through real-time water consumption monitoring, accurate reporting and billing, reduced non-revenue water loss and saved staff time. The project supports the town's water system improvements goals.

## **Idaho**

### **A&B Irrigation District, Water Accounting Software Implementation and Project Upgrade**

**Reclamation Funding: \$47,500**

**Total Project Cost: \$95,000**

A & B Irrigation District, located in south-central Idaho, will upgrade its water data system. The project will migrate the district's existing user data and facility data to the new software system, allowing for automated reporting, synchronized record management, and enhanced system-wide security. The project will improve the operational efficiency of the district, and the Eastern Snake River Plain Aquifer will benefit from more efficient water deliveries since any water saved as a result of the project will remain in the aquifer. The project supports the goals of the A & B Irrigation District Water Management and Conservation Plan.

### **Boise Project Board of Control, Automation of the Brooks Lateral**

**Reclamation Funding: \$24,967**

**Total Project Cost: \$49,934**

The Boise Project Board of Control, located in southwest Idaho, will install an automated gate with flow measurement on the Brooks Lateral at the diversion point from the Mora Canal, and integrate the operations with its supervisory control and data acquisition system. This system will

enable remote sensing and control of gate operations, improving water flow management and reducing losses. This project will enhance water use efficiency, prevent spills and overflows, and provide real-time data to optimize water deliveries. The project supports the goals of the Boise Project Board of Control Water Conservation Plan, that prioritizes operational efficiency and safety.

**Fremont Madison Irrigation District, Fremont-Madison Irrigation District Automation and SCADA Project Phase 4**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$200,267**

Fremont Madison Irrigation District, located in eastern Idaho, will automate six water control structures and install remote operation and data collection equipment. With the installation of automated gates, the district will be able to set the desired water elevation in the canal and automatically adjust gate position to maintain desired water levels. This project will benefit the Upper Snake Reservoir System and result in more constant releases from the reservoir to improve conditions for fish and wildlife including the Yellowstone Cutthroat Trout. This project supports the goals of the Fremont-Madison Irrigation District Conservation Plan.

**Jefferson Irrigation Company, Flow Measurement of Irrigation Canal Turnouts for Jefferson Irrigation Company, LTD**

**Reclamation Funding: \$99,715**

**Total Project Cost: \$199,430**

Jefferson County Irrigation Company, located in eastern Idaho, will install water flow measurement technology at 23 canal turnouts to accurately measure shareholder water deliveries. The company pumps groundwater from the Eastern Snake Plain Aquifer, that is experiencing long term water level declines and delivers this water via a canal system. These improvements will enhance the equitable distribution of water, help quantify annual deliveries and conveyance losses, and promote groundwater diversion reduction obligations, resulting in increased water supply stability and drought resiliency. This project supports the goals identified in the 2015 the company's canal efficiency investigation.

**Long Island Irrigation Company, Main Diversion Replacement**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$224,915**

The Long Island Irrigation Company, located in Jefferson County, Idaho, will upgrade and automate a diversion structure in the Long Island Canal. The new diversion structure will increase accuracy and reliability of water deliveries for crop irrigation. The project will more accurately control the water flowing into the system, resulting in greater accuracy in quantity of flows to remain in the Dry Bed and Snake River for recreational use. The project addresses the goals and objectives of increasing operation and management efficiency identified in the company's System Optimization Review.

**Upper Wood River Water Users Association, Inc, Bypass Canal Lining Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$200,000**

Upper Wood River Water Users Association, Inc., located in Blaine County, Idaho, will line approximately one mile of an earthen bypass canal. Lining the canal will conserve water by reducing seepage losses and will improve water management, resulting in more reliable water deliveries. The project addresses the goals and objectives of the association's Big Wood River Ground Water Management Area Management Plan to increase water delivery efficiency and reduce groundwater pumping.

## **North Dakota**

### **Agassiz Water Users District, Agassiz Water Users District 2024 Remote Read Water Meter Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$206,211**

Agassiz Water Users District, located in Gilby, North Dakota, will install 425 residential meters with automatic meter reading technology and associated data transceivers. These systems will allow the district to read the meters automatically, detect leaks, and alert customers quickly, effectively reducing water loss. This project will help create a more reliable water supply throughout the system. and has been prioritized by the district's board members.

### **City of Bottineau, City of Bottineau, Advanced Metering Infrastructure Project - Phase I**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$224,729**

The city of Bottineau, located in central North Dakota, will install a telemetry base station and new advanced metering infrastructure water meters for 274 residences. The new system will enable the city to conserve water while providing customers with easy access to their water-use data. Water users will receive alerts that help them make informed water-use decisions and address leaks. This initiative aims to reduce water losses caused by inaccurate readings and aligns with the city's Comprehensive Plan of 2013.

### **City of Mandan, Mandan Advanced Metering Infrastructure System Update Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$223,706**

The city of Mandan, located in central North Dakota, will purchase and install 615 upgraded advanced metering infrastructure meters. By upgrading meter reading technology, the city will improve its ability to identify and respond to water leaks and usage spikes more efficiently. Customers will also have access to their water usage through an online portal. These improvements will help the city better manage its water supplies more efficiently and enhance the quality of its services. This project aligns with the goals of the State of North Dakota Water Development Plan to improve the resiliency and reliability of water supplies.

### **City of Watford City, Watford City Advanced Metering Infrastructure Project - Phase II**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$223,450**

The city of Watford City, located in McKenzie County, North Dakota, will install 1,090 smart water data transmitters to existing municipal water meters. The project will enable the city to collect more accurate data, helping to reduce water loss and identify leaks and usage spikes more efficiently. Additionally, customers will have access to real-time water usage data through an online portal. The project is supported by the city's 2040 Infrastructure Master Plan, which prioritizes improving the water meter network and reading processes.

### **Southeast Water Users District, Southeast Water Users District Advanced Metering Infrastructure Improvements Phase II Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$200,013**

Southeast Water Users District, located in southeast North Dakota, will install 1,000 advanced metering infrastructure nodes to existing manual read water meters to automate water use metering. The nodes will provide the district real-time data, helping to manage water loss, identify consumption spikes, and respond to leaks. This project supports the goals in the Southeast Water Users District's Capital Improvements Plan by reducing nonrevenue water, ensuring more accurate monthly billings, identifying leaks, and using real-time data to generate

a hydraulic model of the systems to identify potential distribution improvements and optimizations.

## **Nevada**

### **City of Boulder City, Boulder City Water Meter Upgrades**

**Reclamation Funding: \$98,613**

**Total Project Cost: \$197,225**

Boulder City, Nevada, located southeast of Las Vegas, will implement an automatic meter infrastructure system by installing 300 municipal meters equipped with radio transmitters. The project will enable the city staff to more effectively monitor water usage, detect leaks, and identify malfunctioning meters. The new meters will also enhance customer service and information sharing. Additionally, the project will benefit the Lower Colorado Basin by conserving water that will be left in the system. The meter upgrades are supported by the Southern Nevada Water Authority's Water Resource Plan and 2003 Drought Plan.

## **Oregon**

### **Colton Water District, Automated Meter Reading**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$256,674**

Colton Water District, located in Clackamas County, northwest Oregon, will upgrade manually read water meters to automated meter reading meters along with the associated software. The upgrade will enable the district to effectively track water usage, improve operational and water efficiencies. The project will help to ensure a reliable water supply during peak demands and drought conditions while reducing the need for additional water sources. The initiative aligns with the district's Water System Master Plan.

### **Ochoco Irrigation District, Inc, J1 Lateral Pipe and Metering Project**

**Reclamation Funding: \$36,574**

**Total Project Cost: \$73,919**

Ochoco Irrigation District, located in Crook County, Oregon, will convert approximately 2,000 feet of the J1 Lateral to a buried pipeline. Electronic flow meters, isolation valves, and drains will be installed at all turnouts. The pipe installation will result in water conservation, increased energy efficiency, reduced operations and maintenance needs, and improved water measurement. The project supports the goals and objectives of the Ochoco Irrigation District System Optimization Review.

## **South Dakota**

### **Belle Fourche Irrigation District, Anderson Lateral Pipeline**

**Reclamation Funding: \$83,406**

**Total Project Cost: \$170,823**

Belle Fourche Irrigation District, located in Newell, South Dakota, will convert approximately 3,480 feet of the open earthen Anderson Lateral to a piped system, including new turnouts and valves. This project will advance water conveyance efficiency and reliability, saving water and enabling future on-farm improvements. The project is identified on the District's priority list of Laterals for improvement.

## **Utah**

### **Circleville Irrigation Company, Dalton Ditch Water Conservation Project - Phase 3**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$204,082**

Circleville Irrigation Company, located in Piute County, Utah, will install 2,700 feet of pipe in the Dalton Ditch, an earthen irrigation canal, to improve water conservation and conveyance. The

Circleville Irrigation Company diverts water into the Dalton Ditch from the Sevier River. The Sevier River supports several diversions and is prone to running dry. Piping the canal will prevent water loss from seepage and evaporation, allowing for more efficient management of water flow to match demand. This will conserve additional water for other irrigators by keeping water in the river. This project aligns with Circleville Irrigation Company's goals of enhancing irrigation efficiency and water management within the community.

**Clinton City, Clinton City AMI Project Phase I**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$225,782**

Clinton City, Utah, located north of Salt Lake City, will upgrade 1,000 residential water meters with advanced metering infrastructure radio antennas. The upgrades will help the city conserve water while providing customers with easy access to water-use data, including near-real-time alerts, enabling them to make informed water-use decisions and quickly address leaks or unexpected consumption. This project aligns with the 2022 Clinton City Water Conservation Plan.

**Draper Irrigation Company, Culinary Smart-Metering Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$221,067**

Draper Irrigation Company, located south of Salt Lake City, Utah, will upgrade 536 culinary water meters to ultrasonic meters equipped with cellular data transmission capabilities. These upgrades will provide more accurate water use data, promoting water conservation through identifying and reducing water losses, and curbing high water usage. Conservation through meter upgrades align with the company's 2020 Water Conservation Master Plan.

**Jensen Water Improvement District, Residential Meter Replacement and Upgrade Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$238,513**

Jensen Water Improvement District, located in northeastern Utah, will install ultrasonic water meters with mobile read capabilities. The ultrasonic meters will improve the accuracy of meter readings and ensure precise measurement of water, decrease water losses by accounting for water that has previously unaccounted for, and allow for real-time data collection. Collected data will support future water supply planning for the district, and the project supports the goals and objectives to eliminate losses identified in the 2019 Jensen Water Improvement District Master Plan.

**Powder Mountain Water and Sewer Improvement District, System-Wide Radio Read Meter Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$220,550**

Powder Mountain Water and Sewer Improvement District, located in Ogden, Utah, will install five electromagnetic meters and supervisory control and data acquisition capabilities along the main culinary water distribution system. This project will improve water management and efficiency by enabling real-time leak detection, enhancing water conservation efforts, and providing a data-driven decision-making process. The meters align with priority goals outlined in the district's Water Conservation Plan and Water Master Plans of monitoring water usage and building a comprehensive water use database for future reference.



## **Washington**

### **Clallam County PUD No. 1, Small-Scale Advanced Metering Infrastructure Project**

**Reclamation Funding: \$100,000**

**Total Project Cost: \$218,692**

Clallam County PUD No. 1, located in northern Washington, will install 440 advanced metering infrastructure endpoints that will capture water flow data, enabling integration with its existing advanced metering infrastructure network. This upgrade will enhance water resource management, improve operational efficiency, and enhance customer service, all while supporting regional water conservation goals. By providing real-time water use data and leak notifications, the project will conserve water and reduce vulnerability to drought, advancing regional climate resiliency. The project aligns with the goals and objectives identified in the Clallam PUD's Capital Improvement Plan.