

Notice of Funding Opportunity No. R24AS00052

WaterSMART Grants:

Water and Energy Efficiency Grants for Fiscal Year 2024 and Fiscal Year 2025





Mission Statements

The U.S. Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated Island Communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Cover Photo – North Kern Irrigation District, Kern County, CA (Reclamation/Shelbie Neff)



Synopsis

Federal Agency Name:	Department of the Interior, Bureau of Reclamation, Water Resources and Planning Office		
Funding Opportunity Title:	WaterSMART Grants: Water and Energy Efficiency Grants for Fiscal Year (FY) 2024 and FY 2025		
Announcement Type:	Notice of Funding Opportunity (NOFO)		
Funding Opportunity Number:	R24AS00052		
Assistance Listing Number:	15.507		
Dates:	This NOFO covers two application submittal periods:		
(See NOFO Sec. D.4)	 Application Period 1: Proposals received by mail prior to Thursday, February 22, 2024, 4:00 p.m. Mountain Daylight Time or proposals submitted electronically in Grants.gov prior to Thursday, February 22, 2024, 4:00 p.m. Mountain Daylight Time, will be considered for FY 2024 funding. 		
	 Application Period 2: Proposals received by mail prior to Wednesday, October 30, 2024, 4:00 p.m. Mountain Daylight Saving Time or proposals submitted electronically in Grants.gov prior to Wednesday, October 30, 2024, 4:00 p.m. Mountain Daylight Saving Time, will be considered for FY 2025 funding. 		
Eligible Applicants: (See NOFO Sec. C.1)	Applicants eligible to receive an award of financial assistance under this funding opportunity include:		
	Category A: States, Indian Tribes, irrigation districts, and water districts; any state, regional, or local authority whose members include one or more organizations with water or power delivery authority; and other organizations with water or power delivery authority. All Category A applicants must be located in the Western United States or United States Territories, including Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wyoming, American Samoa, Guam, the Northern Mariana Islands, the Virgin Islands, and Puerto Rico.		
	Category B: Nonprofit conservation organizations that are acting in partnership and with the agreement of an entity described in Category A. All Category B applicants must be located in the United States, or the specific Territories identified above.		
Recipient Cost-Share: (See NOFO Sec. C.2)	50 percent or more of project costs (Note: this cost-sharing requirement is not applicable to American Samoa, Guam, the Northern Mariana Islands, or the Virgin Islands)		
Federal Funding Amount: (See NOFO Sec. B.1)	Funding Group I: Up to \$500,000 per agreement Funding Group II: Up to \$2,000,000 per agreement Funding Group III: Up to \$5,000,000 per agreement		
Estimated Number of Agreements to be Awarded: (See NOFO Sec. B.1)	Approximately 40-50 projects per application period, contingent on available funding.		
Intergovernmental Review: (See NOFO Sec. D.5)	This NOFO is not subject to Executive Order 12372, "Intergovernmental Review of Federal Programs."		



Application Checklist

The following table contains a summary of the information that you are required to submit with your application.

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	SF-424: Application for Federal Assistance (Office of Management and Budget (OMB))	
	SF-424C: Budget Information – Construction Programs (OMB)	20
	SF-424D Assurances - Construction Programs	
	Unique Entity Identifier (UEI) and System for Award Management (SAM) registration	26
	Technical Proposal (Use Project Narrative Attachment Form to upload in Grants.gov)	20
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✓	Recommended Application Components:	Page
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	SF-LLL: Disclosure of Lobbying Activities (required, if applicable) (OMB)	25
	Letters of Support	25
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Acronyms and Abbreviations

% percent section

AFY Acre-Feet per Year

AMI Advanced Metering Infrastructure

ASAP Automated Standard Application for Payments

ARC Application Review Committee

BIL Bipartisan Infrastructure Law

CE Categorical Exclusion

CEC Categorical Exclusion Checklist

CEJST Climate and Economic Justice Screening Tool

CFR Code of Federal Regulations

cfs/sf/day cubic feet of seepage per square feet of canal surface per day

cfs/sf/mile cubic feet per second of canal flow per mile of canal

CWA Clean Water Act

Department U.S. Department of the Interior

E.O. Executive Order

EA Environmental Assessment
EIN Employer Identification Number
EIS Environmental Impact Statement

EQIP Environmental Quality Incentives Program

ESA Endangered Species Act

FAIN Federal Award Identification Number

FAQ Frequently Asked Questions

FERC Federal Energy Regulatory Commission FGDC Federal Geospatial Data Committee

FOIA Freedom of Information Act
FONSI Finding of No Significant Impact

FY Fiscal Year

GIS Geographic Information System

IBC Interior Business Center

I.S.

LOPP Lease of Power Privilege

NAICS North American Industry Classification NEPA National Environmental Policy Act NHPA National Historic Preservation Act NOAA National Oceanic and Atmospheric Administration

NOFO Notice of Funding Opportunity

NRCS Natural Resources Conservation Service

O&M Operation and Maintenance

OM&R Operations, Maintenance, and Replacement

OMB Office of Management and Budget

P.L. Public Law

PSC Product Service Code

Reclamation Bureau of Reclamation

SAM System for Award Management

SCADA Supervisory Control and Data Acquisition

SF Standard Form

TAP Technical Assistance Program

UEI Unique Entity Identifier

U.S. United States

U.S.C. United States Code

USFWS United States Fish and Wildlife Service

WaterSMART Sustain and Manage America's Resources for Tomorrow

West western United States

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Section A: Funding Opportunity Description

A.1 Authority

This Notice of Funding Opportunity (NOFO) is issued under the authority of Section 9504(a) of the Secure Water Act, Subtitle F of Title IX of the Omnibus Public Land Management Act of 2009, Public Law (P.L.) 111-11 (42 United States Code [U.S.C.] 10364).

A.2 Background and Program Requirements

The U.S. Department of the Interior's (Department) WaterSMART (Sustain and Manage America's Resources for Tomorrow) Program provides a framework for Federal leadership and assistance to stretch and secure water supplies for future generations in support of the Department's priorities. Through WaterSMART, the Bureau of Reclamation (Reclamation) leverages Federal and non-Federal funding to work cooperatively with States, Tribes, and local entities as they plan for and implement actions to increase water supply sustainability through investments in existing infrastructure and attention to local water conflicts. WaterSMART Water and Energy Efficiency Grants provide support for priorities identified in Presidential Executive Order (E.O.) 14008: *Tackling the Climate Crisis at Home and Abroad* (E.O. 14008). WaterSMART Water and Energy Efficiency Grants will advance the Biden-Harris Administration's Justice40 Initiative. Established by E.O. 14008, the Justice40 Initiative has made it a goal that 40 percent of the overall benefits of certain federal investments, such as climate, clean energy, and other areas, flow to disadvantaged communities. Water and Energy Efficiency Grants also support the goals of the Interagency Drought Relief Working Group established in March 2021 and the National Drought Resiliency Partnership.

Drought conditions across the Western United States (West) impact a wide range of communities and sectors, including agriculture, cities, Tribes, the environment, recreation, hydropower producers, and others. The West is experiencing its worst drought this century—historic in both duration and severity—threatening to kill crops, spark wildfires, and harm public health. Through WaterSMART, Reclamation provides financial assistance to water managers for projects that seek to conserve and use water more efficiently and accomplish other benefits that contribute to the resilience and sustainability in the West.

Through Water and Energy Efficiency Grants, Reclamation provides financial assistance to support projects that result in quantifiable and sustained water savings, implement renewable energy components, and support broader sustainability benefits. Water and Energy Efficiency Grants are a component of Reclamation's WaterSMART Grants Program, which also includes Small-Scale Water Efficiency Projects. For further information on the WaterSMART Grants

¹ For more information, see E.O. 14008: *Tackling the Climate Crisis at Home and Abroad* (Jan. 27, 2023), www.federalregister.gov/documents/2021/02/01/2021-02177/tackling-the-climate-crisis-at-home-and-abroad; Justice40 Initiative, www.whitehouse.gov/environmentaljustice/justice40/.

Program, please see www.usbr.gov/waterSMART/

This Water and Energy Efficiency Grants NOFO provides funding for projects that result in quantifiable water savings, implement renewable energy components, and support broader sustainability benefits. These projects conserve and use water more efficiently; increase the production of renewable energy; mitigate conflict risk in areas at a high risk of future water conflict; and accomplish other benefits that contribute to the resilience and sustainability in the Western United States and other areas.

A list of Frequently Asked Questions (FAQ) about this NOFO can be found online at www.usbr.gov/WaterSMART/weeg/faq.html. The list of FAQs will be updated periodically during the application period. For further information on WaterSMART Grants, please see www.usbr.gov/watersmart/weeg/index.html. For further information on the WaterSMART Program, please see www.usbr.gov/waterSMART/.

A.3 Notice of Funding Opportunity Purpose and Objectives

The objective of this NOFO is to invite eligible applicants (Section C.1) to leverage their money and resources by cost sharing with Reclamation on projects that seek to conserve and use water more efficiently; increase the production of renewable energy; mitigate conflict risk in areas with a high risk of future water conflict; enable farmers to make additional on-farm improvements in the future, including improvements that may be eligible for Natural Resources Conservation Service (NRCS) funding; and accomplish other benefits that contribute to sustainability in the West.

A.4 Other Related Funding Opportunities

Small-Scale Water Efficiency Projects. Reclamation provides funding for small-scale water management projects (up to \$100,000 in Federal funding for each project) that have been identified through previous planning efforts. Reclamation has developed a streamlined selection and review process to reflect the small-scale nature of these projects.

Drought Response Program. Reclamation provides funding to help build resilience to drought. Through **Drought Contingency Planning**, Reclamation supports developing drought contingency plans with participation from a diverse set of stakeholders. Reclamation also provides funding for **Drought Resiliency Projects** that increase water supply flexibility and improve water management to build long term resilience to drought and are supported by an existing drought contingency plan.

Environmental Water Resources Projects. Reclamation provides cost-share funding for projects that focus on environmental benefits developed as part of a collaborative process to help carry out an established strategy to increase the reliability of water resources. Project types may include efforts such as water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values; water management or infrastructure improvements to mitigate drought-related impacts to ecological values; and watershed management or restoration projects benefitting ecological values that have a nexus to water resources or water resources management. The Federal share of the cost of an infrastructure improvement or activity may be up to 75 percent of the total project cost if certain conditions are met.

Planning and Project Design Grants. Reclamation provides cost-share funding for collaborative planning and design projects to support water management improvements. This includes funding for comprehensive Drought Contingency Plans; Water Strategy Grants to investigate and develop activities and projects supporting water marketing, water conservation, drought resilience, and ecological values; and Project Design Grants to conduct project-specific design for projects supporting water conservation, drought resilience, and ecological values. The Federal cost share of a project may be up to 50 or 75 percent depending on the project type.

Native American Affairs Technical Assistance Program (TAP). Reclamation's Native American Affairs TAP provides technical assistance to assist Indian Tribes to develop, manage, and protect their water and related resources. Cost sharing is not required and technical assistance requests must satisfy "Program Criteria." Proposals are solicited via notices of funding opportunity, and successful proposals approved for funding can be found on Reclamation's website at the address below.

For information on the funding opportunities listed above, visit the WaterSMART Program website at www.usbr.gov/waterSMART, or the Native American Affairs Program Technical Assistance Program website at www.usbr.gov/native/programs/TAPprogram.html.

A.5 Collaboration with the Natural Resources Conservation Service

Reclamation and NRCS are collaborating to align program resources in areas of the West where our mission areas overlap to improve the impact of the agencies' respective drought resiliency and water efficiency investments. Applicants under WaterSMART Grants receive additional consideration in the evaluation process for delivery system improvements that complement on-farm improvements supported by NRCS, such as those funded through their Environmental Quality Incentives Program (EQIP). Contingent on available appropriations, NRCS provides dedicated EQIP funding to support on-farm water efficiency improvements by producers served by water delivery systems improved through a WaterSMART Grant.

Note: On-farm improvements themselves are not eligible activities for funding under this NOFO. NRCS will have a separate application process for the on-farm components of selected projects.

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Under this NOFO, consideration will be given under Section E.1.5. Evaluation Criterion D—Complementing On-Farm Irrigation Improvements for proposals that describe on-farm efficiency work that is currently being completed or is anticipated to be completed in collaboration with NRCS in the area (e.g., with a direct connection to the district's water supply). Please contact your state NRCS office for more information regarding NRCS assistance. You can find the contact information for your State NRCS office on the U.S. Department of Agriculture's website, www.nrcs.usda.gov/conservation-basics/conservation-by-state/state-offices

Section B: Award Information

B.1 Total Funding

This NOFO will allocate available program funds including fiscal year (FY) 2024 and FY 2025 enacted appropriations for WaterSMART Grants and funding available under the Bipartisan Infrastructure Law (BIL), P.L. 117-58 in FY 2024 and/or FY 2025. Funds made available under this NOFO are subject to the Buy America Act. Please see Section F.2.6. Buy America Domestic Procurement Preference and Section F.2.7. Additional Bipartisan Infrastructure Law Requirements: Wage Rate Requirements for additional information regarding the Buy America preference as well as Wage Rate Requirements (Davis Bacon Act).

The amount of funding available for awards under this NOFO will depend on the demand for funding under this and other categories of WaterSMART Grants. Any awards are subject to a determination by Reclamation that FY 2024 appropriations, FY 2025 appropriations, and/or BIL funds are available. Applications submitted under this NOFO may also be considered if other funding becomes available in FY 2024, FY 2025, or subsequently.

Note: Category A applicants are limited to a total of \$5,000,000 in Federal funding through this NOFO per Application Period. Category B applicants may be considered for multiple awards up to a total of \$15,000,000 in Federal funding through this NOFO per Application Period, if the Category A partners are different for each project selected.

B.2 Expected Award Amount

Maximum Award: \$5,000,000

Minimum Award: \$0

The Federal share (Reclamation's share in addition to any other sources of Federal funding) of any one proposed project shall not exceed 50 percent of the total project costs. Generally, the non-Federal share of project costs must be expended at the same or greater rate as the Federal share of project costs.

Applicants are invited to submit proposals under the following three funding groups.

B.2.1 Funding Group I

Up to \$500,000 in Federal funds provided through this NOFO will be available for smaller on-the-ground projects that may take up to 2 years to complete (see *Section C.6. Length of Projects* for additional information).

B.2.2 Funding Group II

Up to \$2,000,000 in Federal funds provided through this NOFO will be available for larger on-the-ground projects that may take up to 3 years to complete.

B.2.3 Funding Group III

Up to \$5,000,000 in Federal funds provided through this NOFO will be available for larger onthe-ground projects that may take up to 3 years to complete.

Note: Reclamation may consider limiting the number of Funding Group III projects selected if funding is not adequate to support larger awards.

B.3 Expected Award Funding and Anticipated Dates

B.3.1 Application Period 1

Reclamation expects to contact potential award recipients and unsuccessful applicants in Summer 2024 (or later if necessary), subject to the timing of final FY 2024 appropriations.

Anticipated Award Date: December 31, 2024

Anticipated Project Completion Date:

Funding Group I projects: December 31, 2026

Funding Group II projects: December 31, 2027

Funding Group III projects: December 31, 2027

B.3.2 Application Period 2

Reclamation expects to contact potential award recipients and unsuccessful applicants in spring 2025 (or later if necessary), subject to the timing of final FY 2025 appropriations.

Anticipated Award Date: October 31, 2025

Anticipated Project Completion Date:

Funding Group I projects: October 31, 2027

Funding Group II projects: October 31, 2028

Funding Group III projects: October 31, 2028

B.4 Number of Awards

Approximately 40 to 50 awards, depending on the amount requested by each applicant and the amount of Federal funding available will be awarded under this NOFO, per application period. More awards may be made if additional funding becomes available.

B.5 Type of Award

Project awards will be made through grants or cooperative agreements as applicable to each project. If a cooperative agreement is awarded, the recipient should expect Reclamation to have substantial involvement in the project. Substantial involvement may include but is not limited to:

- Collaboration and participation with the recipient in the management of the project and close oversight of the recipient's activities to ensure that the program objectives are being achieved.
- Oversight may include review, input, and approval at key interim stages of the project.

B.6 Technical Assistance

By request, Reclamation can provide technical assistance **after** award of the project. If you plan to receive Reclamation's assistance, you must account for these costs in your budget. Technical assistance should be discussed with Reclamation staff prior to applying. To discuss available assistance and associated costs, contact the Program Coordinator identified in *Section G. Agency Contacts*.



Section C: Eligibility Information

C.1 Eligible Applicants

Applicants eligible to receive an award under this funding opportunity are described below.

C.1.1 Category A Applicants

- States, Tribes, irrigation districts, or water districts;
- State, regional, or local authorities, the members of which include one or more organizations with water or power delivery authority; and
- Other organizations with water or power delivery authority.

All applicants must be located in the West or territories as identified in the Reclamation Act of June 17, 1902, as amended and supplemented; specifically: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wyoming, American Samoa, Guam, the northern Mariana Islands, the Virgin Islands, and Puerto Rico.

C.1.2 Category B Applicants

Nonprofit conservation organizations that are acting in partnership with, and with the agreement of an entity described in Category A. All Category B applicants must be located in the U.S., or the specific territories identified above.

Category B applicants should include with their application a letter from the Category A partner stating that the Category A partner:

- Is acting in partnership with the applicant;
- Agrees to the submittal and content of the application; and
- Intends to participate in the project in some way, for example, by providing input, feedback, or other support for the project.

All Category B applicants must be located in the or the specific Territories identified above.

Note: Partners do not necessarily need to contribute cost share funding.

C.1.3 Ineligible Applicants

Those not eligible include, but are not limited to, the following entities:

- Federal Governmental entities
- Individuals
- Institutes of higher education

C.2 Cost Sharing or Matching

Applicants must be capable of cost sharing 50 percent) or more of the total project costs at the time of award. If the proposal is unclear regarding non-Federal cost share amount and the proposal is selected for award, Reclamation will verify that non-Federal cost share requirements are met prior to award. Note: This cost sharing requirement is not applicable to American Samoa, Guam, the Northern Mariana Islands, or the Virgin Islands. The total project cost is defined as the total allowable costs incurred under a Federal award and all required cost share and voluntary committed cost share contributions, including third-party contributions.

Cost share may be made through cash, costs contributed by the applicant, or third-party in-kind contributions. Third-party in-kind contributions include the value of non-cash contributions of property or services that benefit the federally assisted project and are contributed by non-Federal third parties, without charge. Cost-share funding from sources outside the applicant's organization (e.g., loans or state grants) should be secured and available to the applicant prior to award. Please see Section D.2.2.13 Official Resolution and Section D.2.2.14 Letters of Commitment for more information regarding the documentation required to verify commitments to meet cost sharing requirements.

Other sources of Federal funding **may not** be counted towards the required cost share. The exception to this requirement is where the Federal statute authorizing a program specifically provides that Federal funds made available for such program can be applied to matching or cost sharing requirements of other Federal programs, such as awards to tribal organizations under P.L. 93-638, as amended. *If it is determined that the Federal funding cannot be applied towards the non-Federal cost share, the work associated with the funding may be removed from the proposed project.*

C.2.1 Cost Share Regulations

All cost-share contributions must meet the applicable administrative and cost principles criteria established in 2 Code of Federal Regulations (CFR) Part 200, available at www.ecfr.gov.

C.2.2 Third-Party In-Kind Contributions

Third-party in-kind contributions may be in the form of equipment, supplies, and other expendable property, as well as the value of services directly benefiting and specifically identifiable to the proposed project. Applicants may not include as part of their cost-share for projects funded under this NOFO the cost or value of third-party in-kind contributions that have been or will be relied on to satisfy a cost-sharing or matching requirement for another Federal financial assistance agreement, a Federal procurement contract, or any other award of Federal funds. Applicants should refer to 2 CFR §200.434 *Contributions and donations* for regulations regarding the valuation of third-party in-kind contributions.

C.3 Other

C.3.1 Multiple Applications

Multiple applications for funding may be submitted for consideration under this funding opportunity (for example, an applicant may submit a proposal for funding under Funding Group I and a separate proposal under Funding Group II). In general, if you are seeking funding for multiple project components, and the components are interrelated or closely related, you should combine these in one application. However, if the projects are only loosely related, you should submit them as separate applications.

Note: Category A applicants are limited to a total of \$5,000,000 in Federal funding through this NOFO per Application Period. Category B applicants may be considered for multiple awards up to a total of \$15,000,000 in Federal funding through this NOFO per Application Period, if the Category A partners are different for each project selected.

C.3.2 Excluded Parties

Reclamation conducts a review of the System for Award Management (SAM) <u>SAM.gov</u> <u>Exclusions database</u> for all applicant entities and their key project personnel prior to award and ineligibility condition apply to this Federal program. If entities or key project personnel are identified in the <u>SAM.gov Exclusions database</u> as ineligible, prohibited/restricted or otherwise excluded from receiving Federal contracts, certain subcontracts, and certain Federal assistance and benefits, Reclamation cannot award funds to them.

C.4 Eligible Projects

Projects eligible for funding under this NOFO are described below. Applications may include any one, or a combination, of the types of projects described. In general, if you are seeking funding for multiple projects (e.g., a piping project and a hydropower project) and the projects are interrelated or closely related, they should be combined in one application.

Proposed projects will be reviewed by the Program Office to determine whether the application is eligible for evaluation.

C.4.1 Water Conservation Projects

Water conservation projects resulting in quantifiable and sustained water savings or improved water management. Note: An agreement will not be awarded for an improvement to conserve irrigation water unless the applicant agrees to the terms of P.L. 111-11 §9504(a)(3)(B) of. See Section F.2.7. Requirements for Agricultural Operations under P.L. 111-11 §9504(a)(3)(D) of this NOFO for further information. Eligible water conservation projects include:

- Canal Lining/Piping: Projects that line or pipe canals, resulting in conserved water. Projects include, but are not limited to:
 - o Installing new proven lining materials or technology
 - o Converting open canals to pipeline
 - o Improving existing conveyance and delivery infrastructure

Note: This NOFO is not intended for projects to replace municipal drinking water lines.

- **Municipal Metering:** Projects that install meters, resulting in measurable water savings. Projects include, but are not limited to:
 - o Installing end-user water service meters, e.g., for a residential or commercial building unit
- Irrigation Flow Measurement: Projects that improve measurement accuracy and result in reduced spills and over-deliveries to irrigators. Projects include, but are not limited to:
 - o Installing weirs, flumes, ramps, etc. in open channels
 - Installing meters in pressurized pipes
- Supervisory Control and Data Acquisition and Automation (SCADA): Projects that install SCADA and/or automation components that provide water savings when irrigation delivery system operational efficiency is improved to reduce spills, over-deliveries, and seepage. Projects include, but are not limited to:
 - Installing SCADA components that allow for remote monitoring of irrigation delivery system conditions (flow rates, water elevations, controls devices openings, etc.)

- o Installing automation components that allow for remote operation of delivery system control features (gates, valves, turnouts, etc.)
- Landscape Irrigation Measures: Projects that provide water savings by reducing outdoor water usage. These measures include turf removal, Smart irrigation controllers (weather or soil-moisture based) and high-efficiency nozzles (sprinkler heads). These measures are typically promoted by water entities through rebates or direct-install programs, which are eligible for WaterSMART Grants funding. Projects include, but are not limited to:
 - Removing turf
 - o Installing Smart irrigation controllers
 - o Installing high-efficiency nozzles (e.g., sprinkler heads)
- **High-Efficiency Indoor Appliances and Fixtures:** Projects that promote installation of high-efficiency indoor appliances and fixtures to provide water savings for municipal water entities where there is significant potential for replacing existing non-efficient indoor appliances and fixtures. This is typically promoted by water entities through rebates or direct-install programs, which are eligible for WaterSMART Grants funding.
- Commercial Cooling Systems: Projects to retrofit or replace large evaporative cooling units (cooling towers) to reduce consumptive water use and energy, such as conversion to air-cooled units or high-efficiency cooling towers.

C.4.2 Renewable Energy Projects

Projects that increase the use of renewable energy sources in managing and delivering water and/or projects that upgrade existing water management facilities resulting in quantifiable and sustained energy generation and/or savings.

Renewable energy projects related to water management and delivery include, but are not limited to:

- Developing new hydropower capacity by installing a new hydropower facility or uprating (i.e., increasing) the capacity of an existing hydropower facility
- Bringing existing mothballed hydropower capacity back online through facility investment
- Installing solar-electric, wind energy, or geothermal power systems (e.g., replacing fossil fuel powered pumps with renewable energy-based pumps)

Proposals including a renewable energy component typically require additional permitting not needed for other water management improvements (e.g., canal lining). In evaluating these proposals, Reclamation may consider the applicant's progress in obtaining requisite permits – e.g., for hydropower projects, a Federal Energy Regulatory Commission (FERC) license or a Reclamation Lease of Power Privilege (LOPP), depending on which is applicable. Applicants for a project including a renewable energy component are asked to include documentation of steps taken to date for obtaining requisite permits, as applicable.

Note: Improvements to Federal facilities that are implemented through any project awarded funding through this NOFO must comply with additional requirements. The Federal Government will continue to hold title to the Federal facility and any improvement that is integral to the existing operations of that facility. See *Section F.2.8 Title to Improvements under PL*: 111-11, §9504(a)(3)(D).

Applicants proposing renewable energy development may wish to contact the Program Coordinator listed in *Section G. Agency Contacts*, prior to the application deadline to discuss the requirements listed above.

C.5 Ineligible Projects

Any project not specifically described in *Section C.4 Eligible Projects* is not eligible under this NOFO. The following subsections further explain ineligible projects.

C.5.1 Operations, Maintenance, and Replacement

Projects that are considered normal operations, maintenance, and replacement (OM&R) are not eligible. OM&R is described as system improvements that replace or repair existing infrastructure or function without providing increased efficiency or effectiveness of water distribution over the expected life of the improvement. Examples of ineligible OM&R projects include:

- Replacing malfunctioning components of an existing facility with the same components
- Improving an existing facility to operate as originally designed
- Performing an activity on a recurring basis, even if that period is extended (e.g., a 10-year interval)
- Sealing expansion joints of concrete lining because the original sealer or the water stops have failed
- Sealing cracks in canals and/or pipes, including those sealant projects intending to improve facilities with inherent design and construction flaws

- Replacing broken meters with new meters of the same type
- Replacing leaky pipes with new pipes of the same type
- Completing one-time leak detection surveys

If you have questions regarding OM&R, contact the Program Coordinator, listed in *Section G*. *Agency Contacts*, prior to the application deadline for further information.

C.5.2 Water Reclamation, Reuse, and Desalination

Water reclamation, reuse, and desalination projects are not eligible for funding under this NOFO. Entities seeking funding for these types of projects should consider Reclamation's Title XVI Water Reclamation and Reuse Program and Drought Response Program. If you have questions about a water reclamation, reuse, or desalination project please contact Maribeth Menendez at 303-445-2094 or mmenendez@usbr.gov.

C.5.3 Injection Wells and Recharge Projects Primarily for Agricultural or Municipal Benefits

Injection wells and recharge projects primarily for agricultural or municipal benefits are not eligible. Applicants proposing such projects should consider applying for funding under the WaterSMART Drought Resiliency Projects NOFO. See the WaterSMART Drought Response Program webpage, www.usbr.gov/drought, for more information.

C.5.4 Surface Water and Groundwater Storage Projects

A project that proposes to construct surface water or groundwater storage is not eligible under this NOFO. Applicants proposing surface water or groundwater storage projects with a total estimated project cost of less than \$10 million should consider applying for funding under the WaterSMART Drought Resiliency Projects NOFO. See the WaterSMART Drought Response Program webpage, www.usbr.gov/drought, for more information.

Applicants proposing larger storage projects or a phase of a larger project that exceeds a total estimated cost over \$10 million may wish to consider Reclamation's Small Surface Water and Groundwater Storage Program (currently under development), for the planning, design and construction of small surface water and groundwater storage projects, authorized under P. L. 117-58 §40903. More information, including requirements for feasibility studies under this program, can be found at www.usbr.gov/recman/temporary releases/cmptrmr-127.pdf.

C.5.5 Distribution Meters

A project that proposes to install distribution system meters associated with production and/or leakage quantification is not eligible under this NOFO.

C.5.6 Water Purchases

Applications to use Federal funding to purchase water are not eligible under this NOFO. Applicants seeking funding to purchase water in a drought emergency should request emergency drought assistance under Reclamation's Drought Response Program.

For more information about the requirements for receiving emergency drought assistance, please see www.usbr.gov/drought.

C.5.7 Land Purchase and Easements

Applications to use Federal funding for the purchase of land, or with the primary purpose to secure a permanent easement, are not eligible under this NOFO.

C.5.8 Building Construction

Applications to construct a building are not eligible for Federal funding under this NOFO (e.g., a building to house administrative staff or to promote public awareness of water conservation).

C.5.9 Pilot Projects

Applications to conduct a pilot study to evaluate technical capability, economic feasibility, or viability for full-scale implementation or to test an unproven material or technology are not eligible for Federal funding under this NOFO.

C.5.10 On-Farm Irrigation Efficiency Improvements

Projects to conduct on-farm irrigation efficiency improvements are not eligible under this NOFO. Applicants interested in on-farm improvements should contact the U.S. Department of Agriculture and NRCS to investigate opportunities for Federal assistance. For more information on NRCS programs, including application deadlines and a description of available funding, please contact your local NRCS office or see www.nrcs.usda.gov/ or further contact information in your area.

C.5.11 Projects Receiving Other Federal Financial Assistance

Proposals for projects or activities that are funded under another Federal Financial Assistance agreement are not eligible for funding under this NOFO.

C.5.12 New Conveyance Infrastructure for Municipal or Agricultural Water Delivery

A project that proposes to construct new conveyance to allow for the distribution of additional or new water supplies for municipal or agricultural use is not eligible. Applicants proposing such projects should consider applying for funding under the WaterSMART Drought Resiliency Projects NOFO. See the WaterSMART Drought Response Program webpage, www.usbr.gov/drought/ for more information.

C.6 Length of Projects

In general, Funding Group I projects should be completed within two years of award. Funding Group II and Funding Group III projects should be completed within three years of award. Applications for projects requiring more time will be considered for funding only under limited circumstances. For example, some hydropower project installations may require additional time to secure necessary permits.

Reclamation will determine the capability of an applicant to complete the proposed project within the timeframe identified in the application.

Proposed projects for Application Period 1 should not have an estimated construction start date that is prior to December 31, 2024.

Proposed projects for Application Period 2 should not have an estimated construction start date that is prior to October 31, 2025.



Section D: Application and Submission Information

D.1 Address to Request Application Package

This section contains all the information, forms, and electronic addresses required to submit an application. If you are unable to access this information electronically, you can request paper copies of any of the documents referenced in this NOFO by emailing the Reclamation Financial Assistance Contact identified in Section G.1.

D.2 Content and Form of Application Submission

All applications must conform to the requirements described in this section.

D.2.1 Application Format and Length

The Technical Proposal (defined below in Section D.2.2.2) shall be limited to a maximum of 50 consecutively numbered pages. If this section of the application exceeds 50 pages, only the first 50 pages will be evaluated. The full application, including attachments, cannot exceed 125 pages. If the application exceeds 125 pages, only the first 125 pages will be considered in the evaluation.

The font shall be at least 12 points in size and easily readable. Page size shall be 8½ by 11 inches, including charts, maps, and drawings. Margins should be standard 1-inch margins. Oversized pages will not be accepted.

Applications will be prescreened for compliance to the above page number limitation. Excess pages will be removed and not considered in the evaluation of the proposed project.

D.2.2 Application Content

The application should include the items identified as Mandatory Application Components in the Application Checklist (located on page ii) to be considered complete. To facilitate fair and timely reviews by the Application Review Committee (ARC), it is **highly recommended** that application packages be structured in the order identified in the Application Checklist.

Applications will be screened for completeness and compliance with the provisions of this funding opportunity. A complete application must include all the items identified as Mandatory Application Components in the Application Checklist. Any application which fails to include these items will be deemed ineligible and will not be considered for funding.

Following awards of funding, Reclamation may post successful applications on the Reclamation website, www.usbr.gov/watersmart after conducting any redactions determined necessary by Reclamation, in consultation with the successful applicant. See Section F.6 Freedom of Information Act.

D.2.2.1 Mandatory Federal Forms

The application must include the following standard Federal forms. Questions regarding forms should be referred to the Financial Assistance Point of Contact under Section G.1 Reclamation Financial Assistance Contact.

These forms are available at www.grants.gov/applicants/grant-applications/how-to-apply-for-grants.

D.2.2.1.1 SF-424: Application for Federal Assistance

A fully completed Standard Form (SF)-424: Application for Federal Assistance form that must be signed by a person legally authorized to commit the applicant to performance of the project must be submitted with the application. The SF-424 should include your organization's valid Unique Entity Identifier (UEI).

D.2.2.1.2 SF-424 C Budget Information Form

A fully completed SF-424 C Budget Information – Construction Programs must be submitted with the application.

D.2.2.1.3 SF-424 D Assurances Form

A SF-424 D Assurances – Construction Programs signed by a person legally authorized to commit the applicant to performance of the project must be submitted with the application.

D.2.2.2 Technical Proposal

Submission of a technical proposal (limited to 50 pages) is mandatory and must be received by the application deadline.

While an application will not be removed from consideration if the technical proposal does not address each of the following, it is highly recommended that applicants address each component listed below to ensure that your proposal is competitive.

D.2.2.2.1 Title Page

Provide a brief, informative, and descriptive title for the proposed work that indicates the nature of the project. Include the name and address of the applicant, and the name and address, e-mail address, and telephone of the Project Manager.

D.2.2.2.2 Table of Contents

List all major sections of the proposal in the table of contents.

D.2.2.2.3 Executive Summary

The executive summary should include:

- The date, applicant name, city, county, and state.
- Please indicate whether you are a Category A applicant or Category B applicant. If you are a Category B applicant, please briefly explain how you are acting in partnership with a Category A partner. Note: If you are a Category B applicant, you must include a letter from the Category A partner confirming that they are partnering with you and agree to the submittal and content of the application (see Section C.1 Eligible Applicants). See Section D.2.2.12 Letter of Partnership for additional information.
- A one-paragraph project summary that provides the location of the project, a brief description of the work that will be carried out, any partners involved, expected benefits, and how those benefits relate to the water management issues you plan to address. Note:
 This information will be used to create a summary of your project for our website if the project is selected for funding. For example, see the following description of a project selected for funding in FY 2023:

Example: The East Columbia Basin Irrigation District, near Othello, will convert 24,483 feet of earthen canals to polyvinyl chloride pipelines to address seepage and evapotranspiration losses. The project is expected to result in annual water savings of 290 acre-feet, which will be used to offset existing groundwater pumping in an area with significant aquifer depletion and to enhance flows in the Columbia River.

- State the length of time and estimated completion date for the proposed project (month/year).
- Whether or not the proposed project is located on a Federal facility.

D.2.2.2.4 Project Location

Provide specific information on the geographic location of the proposed planning area (e.g., watershed, basin, county) or location of the project being designed, including a map showing the geographic location. For example, [project name] is located in [county and state] approximately [distance] miles [direction, e.g., northeast] of [nearest town]. The project latitude is {###°##'N} and longitude is {###°##'W}.

D.2.2.2.5 Project Description

Provide a more comprehensive description of the technical aspects of your project, including the work to be accomplished and the approach to complete the work. This description should provide detailed information about the project including materials and equipment and the work to be conducted to complete the project. This section provides an opportunity for the applicant to provide a clear description of the technical nature of the project and to address any aspect of the project that reviewers may need additional information to understand.

Please do not include your project schedule and milestones here; that information is requested in response to the Readiness to Proceed criterion described in Section E.1.6. In addition, please avoid discussion of the benefits of the project, which are also requested in response to evaluation criteria described in Section E.1. This section is solely intended to provide an understanding of the technical aspects of the project.

Note: If the work you are requesting funding for is a phase of a larger project, please only describe the work that is reflected in the budget and exclude description of other activities or components of the overall project.

D.2.2.2.6 Evaluation Criteria

Section E.1 Evaluation Criteria provides a detailed description of each criterion and subcriterion and points associated with each. The evaluation criteria portion of your application should thoroughly address each criterion and subcriterion in the order presented to assist in the complete and accurate evaluation of your proposal.

Copying and pasting the evaluation criteria and subcriteria in Section E.1. Technical Proposal: Evaluation Criteria into your applications is suggested to ensure that all necessary information is adequately addressed.

D.2.2.2.7 Performance Measures

Provide a brief summary describing the performance measure that will be used to quantify actual benefits upon completion of the project (e.g., water saved or better managed, energy generated or saved). For more information calculating performance measure, see *Appendix A: Benefit Quantification and Performance Measure Guidance*.

All Water and Energy Efficiency Grants applicants are **required** to propose a "performance measure" (a method of quantifying the actual benefits of their project once it is completed). A provision will be included in all assistance agreements with Water and Energy Efficiency Grants recipients describing the performance measure and requiring the recipient to quantify the actual project benefits in their final report to Reclamation upon completion of the project. If information regarding project benefits is not available immediately upon completion of the project, the financial assistance agreement may be modified to remain open until such information is available and until a Final Report is submitted. Quantifying project benefits is an important means to determine the relative effectiveness of various water management efforts, as well as the overall effectiveness of Water and Energy Efficiency Grants.

Note: Program funding may be used to install necessary equipment to monitor progress. However, program funding may not be used to measure performance after project construction is complete (these costs are considered normal operation and maintenance costs and are the responsibility of the applicant).

D.2.2.3 Budget Narrative

In the budget detail and narrative section, applicants should describe and justify requested budget items and costs. Applicants should provide details to support the SF-424A, "Object Class" categories or the SF-424C, "Cost Classification" categories. The budget narrative must clearly identify all items of cost (total estimated project cost), including those contributed as non-Federal cost share by the applicant (required and voluntary), third-party in-kind contributions, and those covered using the funding requested from Reclamation, and any requested pre-award costs.

The total project cost is the sum of all allowable items of costs, including all required cost sharing and voluntary committed cost sharing, including third-party contributions necessary to complete the project. Applicants must include detailed descriptions of all cost justifications (see Reclamation's suggested format in Attachment B for more detail). Costs, including the valuation of third-party in-kind contributions, must comply with the applicable cost principles contained in <u>2 CFR</u>, §200.

Note: The Budget Narrative Attachment Form in Grants.gov is to be used to upload the budget proposal.

D.2.2.4 Environmental and Cultural Resources Compliance

Please answer the questions from Section H.1 Environmental and Cultural Resource Considerations.

D.2.2.5 Required Permits or Approvals

You should state in the application whether any permits or approvals are necessary and explain the plan for obtaining such permits or approvals.

Note: Improvements to Federal facilities that are implemented through any project awarded funding through this NOFO must comply with additional requirements. Reclamation may also require additional reviews and approvals prior to award to ensure that any necessary easements, land use authorizations, or special permits can be approved consistent with the requirements of 43 CFR Section 429 and that the development will not impact or impair project operations or efficiency.

D.2.2.6 Overlap or Duplication of Effort Statement

Applicants should provide a statement that addresses if there is any overlap between the proposed project and any other active or anticipated proposals or projects in terms of activities, costs, or commitment of key personnel. If any overlap exists, applicants must provide a description of the overlap in their application for review.

Applicants should also state if the proposal submitted for consideration under this program does or does not in any way duplicate any proposal or project that has been or will be submitted for funding consideration to any other potential funding source—whether it be Federal or non-Federal. If such a circumstance exists, applicants must detail when the other duplicative proposal(s) were submitted, to whom (Agency name and Financial Assistance Program), and

when funding decisions are expected to be announced. If at any time a proposal is awarded funds that would be duplicative of the funding requested from Reclamation, applicants must notify the NOFO point of contact or the Program Coordinator immediately.

D.2.2.7 Conflict of Interest Disclosure Statement

Per 2 CFR §1402.112, "Financial Assistance Interior Regulation" applicants should state in the application if any actual or potential conflict of interest exists at the time of submission. Submission of a conflict-of-interest disclosure or certification statement is mandatory prior to issue of an award.

D.2.2.7.1 Applicability

This section intends to ensure that non-Federal entities and their employees take appropriate steps to avoid conflicts of interest in their responsibilities under or with respect to Federal financial assistance agreements.

In the procurement of supplies, equipment, construction, and services by recipients and by sub recipients, the conflict-of-interest provisions in 2 CFR§200.318 apply.

D.2.2.7.2 Notification

Non-Federal entities, including applicants for financial assistance awards, must disclose in writing any conflict of interest to the DOI awarding agency or pass- through entity in accordance with 2 CFR §200.112.

Recipients must establish internal controls that include, at a minimum, procedures to identify, disclose, and mitigate or eliminate identified conflicts of interest. The successful applicant is responsible for notifying the Financial Assistance Officer in writing of any conflicts of interest that may arise during the life of the award, including those that have been reported by sub recipients.

D.2.2.7.3 Restrictions on Lobbying

Non-Federal entities are strictly prohibited from using funds under a grant or cooperative agreement for lobbying activities and must provide the required certifications and disclosures pursuant to 43 CFR §18 and 31 USC §1352.

D.2.2.7.4 Review Procedures

The Financial Assistance Officer will examine each conflict-of-interest disclosure on the basis of its particular facts and the nature of the proposed grant or cooperative agreement and will determine whether a significant potential conflict exists and, if it does, develop an appropriate means for resolving it. Enforcement. Failure to resolve conflicts of interest in a manner that satisfies the government may be cause for termination of the award. Failure to make required disclosures may result in any of the remedies described in 2 CFR §200.339, Remedies for noncompliance, including suspension or debarment (see also 2 CFR §180).

D.2.2.8 Uniform Audit Reporting Statement

All U.S. states, local governments, federally recognized Indian Tribal governments, and non-profit organizations expending \$750,000 USD or more in Federal award funds in the applicant's fiscal year must submit a Single Audit report for that year through the Federal Audit Clearinghouse's Internet Data Entry System. U.S. state, local government, federally recognized Indian Tribal governments, and non-profit applicants must state if your organization was or was not required to submit a Single Audit report for the most recently closed fiscal year. If your organization was required to submit a Single Audit report for the most recently closed fiscal year, provide the Employer Identification Number (EIN) associated with that report and state if it is available through the Federal Audit Clearinghouse website.

D.2.2.9 Certification Regarding Lobbying

Applicants requesting more than \$100,000 in Federal funding must certify to the statements in 43 CFR §18, A ppendix A. If this application requests more than \$100,000 in Federal funds, the authorized official's signature on the appropriate SF-424 form also represents the applicant's certification of the statements in 43 CFR § 18, Appendix A.

D.2.2.10 SF-LLL: Disclosure of Lobbying Activities (if applicable)

If applicable, a fully completed and signed SF-LLL: Disclosure of Lobbying Activities form is required if the applicant has made or agreed to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. *This form cannot be submitted by a contractor or other entity on behalf of an applicant*.

D.2.2.11 Letters of Support

You should include any letters from interested stakeholders supporting the proposed project. To ensure your proposal is accurately reviewed, please attach all letters of support as an appendix. Letters of support received after the application deadline for this NOFO will not be considered in evaluating your proposed project. These letters do not count within the 125 page maximum.

D.2.2.12 Letter of Partnership (Category B Applicants)

Category B applicants should submit a Letter of Partnership from the Category A partner, stating that they are acting in partnership with the applicant and agree to the submittal and content of the application (see *Section C.1 Eligible Applicants*). However, if the project is selected, a Letter of Partnership must be received prior to award.

D.2.2.13 Official Resolution

If selected, the applicant must provide prior to award an official resolution adopted by your organization's board of directors or governing body, or, for state government entities, an official authorized to commit the applicant to the financial and legal obligations associated with receipt of a financial assistance award under this NOFO, verifying:

- The identity of the official with legal authority to enter into an agreement
- The board of directors, governing body, or appropriate official who has reviewed and supports the application submitted
- That your organization will work with Reclamation to meet established deadlines for entering into a grant or cooperative agreement

An official resolution meeting the requirements set forth above is mandatory before an award of funding will be made.

D.2.2.14 Letters of Funding Commitment

If a project is selected for award under this funding opportunity and cost share funding is anticipated to be provided by a source other than the applicant, the third-party cost share must be supported with letters of commitment prior to award. Letters of commitment should identify the following elements:

- The amount of funding commitment
- The date the funds will be available to the applicant
- Any time constraints on the availability of funds
- Any other contingencies associated with the funding commitment

Cost-share funding from sources outside the applicant's organization (e.g., loans or State grants) should be secured and available to the applicant prior to award.

Reclamation will not execute a financial assistance agreement until non-Federal funding has been secured or Reclamation determines that there is enough evidence and likelihood that non-Federal funds will be available to the applicant after executing the agreement.

D.3 Unique Entity Identifier and System for Award Management

Each applicant (unless the applicant is an individual or Federal awarding agency that is excepted from those requirements under 2 CFR 25.110 (b) or (c), or has an exception approved by the Federal awarding agency under 2 CFR 25.110 (d)) is required to:

- Be registered in SAM before submitting an application. Instructions for registering are available at sam.gov/content/home. The "Help" tab on the website contains User Guides and other information to assist you with registration. The Grants.gov "Register with SAM" page also provides detailed instructions. You can also contact the supporting Federal Service Desk for help registering in SAM. There is no cost to register with SAM.gov. There are third-party vendors who will charge a fee in exchange for registering entities with SAM.gov; please be aware you can register and request help for free. Note: An organization's SAM.gov registration process may take up to 6 weeks to complete, so please allow sufficient time to ensure applications are submitted before the closing date. Applicants that do not have an active SAM registration will not be able to submit an electronic application in Grants.gov.
- Provide a valid UEI in its application. You are required to register in SAM.gov prior to submitting a federal award application and obtain a UEI. A UEI will be assigned to entities upon registering with SAM.
- Maintain an active SAM registration with current information at all times during which it has an active Federal award or plan under consideration by a Federal award agency.
- Once registered in SAM.gov, entities must renew and revalidate their SAM.gov registration at least once every 12 months from the date previously registered.
- Entities are strongly encouraged to revalidate their registration as often as needed to ensure their information is up to date and reflects changes that may have been made to the entity's Internal Revenue Service information.

See the "Submission Requirements" section of this document below for more information on SAM.gov registration.

D.4 Submission Date and Time

This funding opportunity includes four submittal periods. The submission deadline for applications submitted electronically in Grants.gov is:

Application Period 1: February 22, 2024 at 4:00 p.m. MDT

Application Period 2: October 30, 2024 at 4:00 p.m. MDT

The submission deadline for applications submitted by mail, overnight delivery, or courier is:

Application Period 1: February 22, 2024 at 4:00 p.m. MDT

Application Period 2: October 30, 2024 at 4:00 p.m. MDT

Applications must be submitted no later than this due date and time.

Proposals received after the application deadline will not be considered unless it can be determined that the delay was caused by Reclamation or there were technical issues with the <u>Grants.gov</u> application system. Note: Difficulties related to an applicant's Grants.gov profile (e.g., incorrect organizational representative), uploading documents to Grants.gov, or an applicant's SAM.gov registration are not considered technical issues with the Grants.gov system.

If for any reason applicants are unable to submit their application through Grants.gov, they may provide a paper copy of their full application by mail or courier.

D.4.1 Application Delivery Instructions.

Applications may be submitted electronically through Grants.gov (www.grants.gov) or a hard copy may be submitted to either one of the following addresses. We strongly encourage you to use Grants.gov to submit your proposal if possible. Under no circumstances will applications received through any other method (such as e-mail or fax) be considered eligible for award.

By mail or United States Postal Service overnight services:

By mail: Bureau of Reclamation

Financial Assistance Operations Section

Attn: NOFO Team

P.O. Box 25007, MS 84-27133

Denver, CO 80225

By all other express delivery and courier services:

By mail: Bureau of Reclamation mail services

Attn: NOFO Team Denver Federal Center Bldg. 67, Rm. 152

6th Avenue and Kipling Street

Denver, CO 80225

If you are submitting a paper application, please notify the Reclamation Financial Assistance Contact in Section G.1 by 2:00 p.m. Mountain Time on the day of the submission deadline.

D.4.2 Instructions for Submitting the Project Application

Each applicant must submit an application in accordance with the instructions contained in this section.

D.4.2.1 Applications Submitted Electronically

Electronic applications must be submitted through Grants.gov. Applicant resource documents and a full set of instructions for registering with Grants.gov and completing and submitting applications online are available at: www.grants.gov/applicants/grant-applications/how-to-apply-for-grants.

Application submission requires prior registration through Grants.gov, which may take 7 to 21 days. See the registration instructions available at www.grants.gov/applicants/grant-applications/how-to-apply-for-grants.

Note: The Grants.gov system only accepts applications submitted by individuals that are registered and active in SAM as both a user and an Authorized Organizational Representative.

Applicants have experienced significant delays when attempting to submit applications through Grants.gov. Applicants are encouraged to submit applications several days prior to the application deadline. If you are a properly registered Grants.gov applicant and encounter problems with the Grants.gov application submission process, you must contact the Grants.gov Help Desk to obtain a case number. This case number will provide evidence of your attempt to submit an application prior to the submission deadline. If you are unable to submit your application through Grants.gov, you may provide a paper copy of the full application by mail or courier, as described in *Section D.4.2.2* below.

Late applications will not be considered unless it is determined that the delay was caused by Reclamation mishandling or technical issues with the Grants.gov application system. Note: Difficulties related to an applicant's Grants.gov profile (e.g., incorrect organizational representative), uploading documents to Grants.gov, or an applicant's SAM registration are not considered technical issues with the Grants.gov system. To document a delay due to a technical issue in Grants.gov, you must furnish a Grants.gov helpdesk ticket number to shadro-fafoa@usbr.gov that validates the delay.

D.4.4.2 Applications Submitted by Mail, Express Delivery or Courier Services.

Please follow these instructions to submit your application by mail, express delivery, or courier services.

- We request that applicants submitting their application by mail or courier include a brief explanation in their application regarding why they had to submit by mail rather than electronically using grants.gov.
- Applicants should submit one copy of all application documents for hardcopy submissions. Only use a binder clip for documents submitted. Do not staple or otherwise bind application documents.

- Hard copy applications may be submitted by mail, express delivery, or courier services to the addresses identified in this NOFO.
- Materials arriving separately will not be included in the application package and may
 result in the application being rejected or not funded. This does not apply to letters of
 support, funding commitment letters, or official resolutions. Faxed and e-mailed copies of
 application documents will not be accepted.

D.4.4.3 Acknowledgement of Application Receipt

Applicants will receive an e-mail acknowledging receipt of the application from Grants.gov. In addition, you will receive an email acknowledgement when your application is successfully downloaded from Grants.gov. Applicants can confirm receipt of hardcopy through the tracking tools for their packages.

D.5 Intergovernmental Review

This NOFO is not subject to E.O. 12372: Intergovernmental Review of Federal Programs.

D.6 Funding Restrictions

D.6.1 Pre-Award Costs

Pre-award costs are those incurred prior to the effective date of a Federal award where such costs are necessary for efficient and timely performance of the scope of work. Such costs are allowable only to the extent that they would have been allowable if incurred after the date of the Federal award.

Eligible pre-award costs associated with the proposed project **must be incurred after the posting date** of this funding opportunity and are limited to costs related to the planning and design of the project including, but not limited to, engineering and design, modeling, environmental and cultural studies, and permitting. If the proposed project is selected, the pre-award costs will be reviewed to determine if they are consistent with program objectives and are allowable in accordance with the authorizing legislation. Proposed pre-award costs must also be compliant with all applicable administrative and cost principles criteria established in 2 CFR Part 200 and all other requirements of this funding opportunity.

Note: Any incurrence of costs in the performance of the project prior to the issuance of a financial assistance award is at the applicant's own risk. No legal liability on the part of Reclamation for any payment may arise until funds are made available, in writing, by a Reclamation Grants Officer.

D.6.2 Project Cost Restrictions

Proposal costs. The costs for preparing and submitting an application in response to this funding opportunity, including developing data necessary to support the proposal, are not eligible project costs and must not be included in the project budget.

Monitoring costs. Long-term (i.e., more than six months) post-construction monitoring is considered normal operation and maintenance, and the costs are the responsibility of the applicant.

Other project costs. The costs for the purchase of water or land, or to secure an easement other than a construction easement, are not eligible project costs under this funding opportunity.

D.6.3 Environmental and Regulatory Compliance Costs

Depending on the potential impacts of the project, Reclamation may be able to complete its compliance activities without additional cost to the successful applicant. Where environmental or cultural resources compliance requires significant participation by Reclamation, Reclamation will add a line item for costs incurred by Reclamation to the budget during development of the financial assistance agreement and cost shared accordingly (i.e., withheld from the Federal award amount). Any costs to the successful applicant associated with compliance will be identified during the process of developing a final project budget for inclusion in the financial assistance agreement.

D.6.4 Indirect Costs

You may include indirect costs that will be incurred during the development or construction of a Project, which will not otherwise be recovered, as part of your Project budget. Show the proposed rate, cost base, and proposed amount for allowable indirect costs based on the applicable cost principles for your organization. It is not acceptable to simply incorporate indirect rates within other direct cost line items.

If you do not have a current Federal negotiated indirect cost rate, your budget may include a *de minimis* rate of up to 10 percent of modified total direct costs. For further information on modified total direct costs, refer to 2 CFR§200.1.

If you do not have a federally approved indirect cost rate agreement and are proposing a rate greater than the de minimis 10 percent rate, include the computational basis for the indirect expense pool and corresponding allocation base for each rate. Information on "Preparing and Submitting Indirect Cost Proposals" is available from the Department's IBC, Office of Indirect Cost Services, at ibc.doi.gov/ICS.

If the proposed project is selected for award, the successful applicant will be required to submit an indirect cost rate proposal with their cognizant agency within 3 months of award. The Federal awarding agency that provides the largest amount of direct funding to your organization is your cognizant agency for indirect costs, unless otherwise assigned by the White House Office of Management and Budget (OMB). If the Department is your organization's cognizant agency, the IBC will negotiate your indirect cost rate. Contact the IBC by phone 916-930-3803 or email at ICS@ibc.doi.gov. Visit their website ibc.doi.gov/ICS, for information regarding email submission forms.

Organizations must have an active Federal award before they can submit an indirect cost rate proposal to their cognizant agency. Failure to establish an approved rate during the award period renders all costs otherwise allocable as indirect costs unallowable under the award. Recipients may not shift unallowable indirect costs to another Federal award unless specifically authorized to do so by legislation.

D.6.5 Total Funding Limitation

Category A applicants are limited to a total of \$5,000,000 in Federal funding through this NOFO per Application Period. Category B applicants may be considered for multiple awards up to a total of \$15,000,000 in Federal funding through this NOFO per Application Period, if the Category A partners are different for each project selected.

Section E: Application Review Information

E.1 Evaluation Criteria

The following evaluation criteria prioritize projects that are intended to meet the objectives stated in Section 9504(a) of the Secure Water Act (P.L. 111-11) and that align with priorities of the Biden administration, including E.O. 14008: *Tackling the Climate Crisis at Home and Abroad*. Applications should thoroughly address each criterion and any subcriterion in the order presented below. It is suggested that applicants **copy and paste the below criteria and subcriteria** into their applications to ensure that all necessary information is adequately addressed.

The evaluation criteria portion should be addressed in the technical proposal section of the application. Applications should thoroughly address each criterion and any subcriterion in the order presented below. **Applications will be evaluated against the evaluation criteria listed below.** If the work described in your application is a phase of a larger project, only discuss the benefits that will result directly from the work discussed in the technical project description and that is reflected in the budget—not the larger project.

Evaluation Criteria: Scoring Summary	Points
A. Quantifiable Water Savings	25
B. Renewable Energy	20
C. Other Project Benefits	15
D. Disadvantaged Communities and Tribal Benefits	15
E. Complementing On-Farm Irrigation Improvements	8
F. Readiness to Proceed	8
G. Collaboration	5
H: Nexus to Reclamation	4
Total	100

Note: Since the NOFO is open to a variety of project types, certain Evaluation Criteria may not be applicable to your project. For example, a water savings project (Criterion A) may not include implementation of a renewable energy component (Criterion B). Please provide as much detail and support as you can for those Evaluation Criteria that are applicable to your project.

E.1.1 Evaluation Criterion A—Quantifiable Water Savings (25 Points)

Up to **25 points** may be awarded for this criterion. This criterion prioritizes projects that will conserve water and improve water use efficiency, supporting the goals of E.O. 14008. Points will be allocated based on the quantifiable water savings expected as a result of the project. Points will be allocated to give greater consideration to projects that are expected to result in more significant water savings.

All applicants should be sure to:

1) Describe the amount of estimated water savings. For projects that conserve water, please state the estimated amount of water expected to be conserved (in acre-feet per year) as a direct result of this project.

Please include a specific quantifiable water savings estimate; do not include a range of potential water savings.

- 2) Describe current losses. Please explain where the water that will be conserved is currently going and how it is being used. Consider the following:
 - Explain where current losses are going (e.g., back to the stream, spilled at the end of the ditch, seeping into the ground)?
 - If known, please explain how current losses are being used. For example, are current losses returning to the system for use by others? Are current losses entering an impaired groundwater table becoming unsuitable for future use?
 - Are there any known benefits associated with where the current losses are going? For example, is seepage water providing additional habitat for fish or animal species?
- 3) Describe the support/documentation of estimated water savings. Please provide sufficient detail supporting how the estimate was determined, including all supporting calculations.

Note: Projects that do not provide sufficient supporting detail/calculations may not receive credit under this section. Please be sure to consider the questions associated with your project type (listed below) when determining the estimated water savings, along with the necessary support needed for a full review of your proposal.

In addition, note: The use of visual observations alone to calculate water savings, without additional documentation/data, are not sufficient to receive credit under this section. Further, the water savings must be the result of reducing or eliminating a current, ongoing loss, not the result of an expected future loss.

4) Please address the following questions according to the type of infrastructure improvement you are proposing for funding. See *Appendix A: Benefit Quantification* and Performance Measure Guidance for additional guidance on quantifying water savings.

- (1) **Canal Lining/Piping:** Canal lining/piping projects can provide water savings when irrigation delivery systems experience significant losses due to canal seepage. Applicants proposing lining/piping projects should address:
 - a. How has the estimated average annual water savings that will result from the project been determined? Please provide all relevant calculations, assumptions, and supporting data.
 - b. How have average annual canal seepage losses been determined? Have ponding and/or inflow/outflow tests been conducted to determine seepage rates under varying conditions? If so, please provide detailed descriptions of testing methods and all results. If not, please provide an explanation of the method(s) used to calculate seepage losses. All estimates should be supported with multiple sets of data/measurements from representative sections of canals.
 - c. What are the expected post-project seepage/leakage losses and how were these estimates determined (e.g., can data specific to the type of material being used in the project be provided)?
 - d. What are the anticipated annual transit loss reductions in terms of acre-feet per mile for the overall project and for each section of canal included in the project?
 - e. How will actual canal loss seepage reductions be verified?
 - f. Include a detailed description of the materials being used.
- (2) **Municipal Metering:** Municipal metering projects can provide water savings when individual user meters are installed where none exist to allow for unit or tiered pricing and when existing individual user meters are replaced with advanced metering infrastructure (AMI) meters. To receive credit for water savings for a municipal metering project, an applicant must provide a detailed description of the method used to estimate savings, including references to documented savings from similar previously implemented projects. Applicants proposing municipal metering projects should address the following:
 - a. How has the estimated average annual water savings that will result from the project been determined? Please provide all relevant calculations, assumptions, and supporting data.
 - b. How have current system losses and/or the potential for reductions in water use by individual users been determined?

- c. For installing end-user water service meters, e.g., for a residential or commercial building unit., refer to studies in the region or in the applicant's service area that are relevant to water use patterns and the potential for reducing such use. In the absence of such studies, please explain in detail how expected water use reductions have been estimated and the basis for the estimations.
- d. What types (manufacturer and model) of devices will be installed and what quantity of each?
- e. How will actual water savings be verified upon completion of the project?
- (3) **Irrigation Flow Measurement:** Irrigation flow measurement improvements can provide water savings when improved measurement accuracy results in reduced spills and overdeliveries to irrigators. Applicants proposing municipal metering projects should address:
 - a. How have average annual water savings estimates been determined? Please provide all relevant calculations, assumptions, and supporting data.
 - b. Have current operational losses been determined? If water savings are based on a reduction of spills, please provide support for the amount of water currently being lost to spills.
 - c. Are flows currently measured at proposed sites and if so, what is the accuracy of existing devices? How has the existing measurement accuracy been established?
 - d. Provide detailed descriptions of all proposed flow measurement devices, including accuracy and the basis for the accuracy.
 - e. Will annual farm delivery volumes be reduced by more efficient and timely deliveries? If so, how has this reduction been estimated?
 - f. How will actual water savings be verified upon completion of the project?
- (4) **Turf Removal:** Applicants proposing turf removal projects should address:
 - a. How have average annual water savings estimates been determined? Please provide all relevant calculations, assumptions, and supporting data.
 - b. What is the total surface area of turf to be removed and what is the estimated average annual turf consumptive use rate per unit area?
 - c. Was historical water consumption data evaluated to estimate average annual turf consumptive use per unit area? If so, did the evaluation include a weather adjustment component?

- d. Will site audits be performed before applicants are accepted into the program?
- e. How will actual water savings be verified upon completion of the project?
- (5) Smart Irrigation Controllers, Controllers with Rain Sensor Shutoff, Drip Irrigation, and High-Efficiency Nozzles: Applicants proposing smart irrigation controllers, controllers with rain sensor shutoff, drip irrigation, or high-efficiency nozzle projects should address:
 - a. How have average annual water savings estimates been determined? Please provide all relevant calculations, assumptions, and supporting data.
 - b. Was historical water consumption data evaluated to estimate the percent reduction in water demand per unit area of irrigated landscape? If so, did the evaluation include a weather adjustment component?
 - c. What types (manufacturer and model) of devices will be installed and what quantity of each?
 - d. Will the devices be installed through a rebate or direct-install program?
 - e. Will site audits be performed before and after installation?
 - f. How will actual water savings be verified upon completion of the project?
- (6) **High-Efficiency Indoor Appliances and Fixtures:** Installing high- efficiency indoor appliances and fixtures can provide water savings for municipal water entities where there is significant potential for replacing existing non-efficient indoor appliances and fixtures. Applicants proposing high-efficiency indoor appliance and fixtures projects should address:
 - a. How have average annual water savings estimates been determined? Please provide all relevant calculations, assumptions, and supporting data.
 - b. What types (clothes washers, shower heads, etc.) of appliances and fixtures will be installed and what quantity of each?
 - c. Have studies been conducted to verify the existence of non-efficient appliances and fixtures? Provide published water savings rates for each of these devices and reference the source for each of the device savings rates.
 - d. Will the devices be installed through rebate or direct-install programs?
 - e. How will actual water savings be verified upon completion of the project?

(7) Commercial Cooling Systems: Cooling towers are components of many refrigeration systems with many applications. They dissipate heat to the atmosphere through the evaporative process and are common in manufacturing processes where cooling is required. They are also used for cooling large commercial buildings. Cooling tower structures vary in size, design, and efficiency. Regardless, all cooling towers consume large volumes of water and energy.

Open-circuit or direct contact are the most common types of cooling towers. Water is supplied to the tower after gathering heat and then released in the upper tower levels. A fan near the base of the tower creates upward airflow. Closed-circuit towers are more efficient and closed-circuit towers with adiabatic cooling are more efficient yet.

Water and energy savings can be achieved by replacing or retrofitting older low efficiency cooling towers. Applicants proposing cooling system projects should address:

- a. How have average annual water savings estimates been determined? Please provide all relevant calculations, assumptions, and supporting data.
- b. Was historical water consumption data evaluated to estimate the percent reduction in water demand?
- c. Specify type (manufacturer and model) of cooling tower system to be installed and/or provide a detailed description of the system retrofit plan.

Note: An agreement will not be awarded for an improvement to conserve irrigation water unless the applicant agrees to the terms of P.L. 111-11 § 9504(a)(3)(B) (see Section F.2.7 Requirements for Agricultural Operations under P.L. 111-11 § 9504(a)(3)(B).

E.1.2 Evaluation Criterion B—Renewable Energy (20 Points)

Up to **20 points** may be awarded based on the extent to which the project increases the use of renewable energy or otherwise results in increased energy efficiency and reduced greenhouse gas emissions.

For projects that include constructing or installing renewable energy components, please respond to Subcriterion B.1: Implementing Renewable Energy Projects Related to Water Management and Delivery. If the project does not implement a renewable energy project but will increase energy efficiency, please respond to Subcriterion B.2. Increasing Energy Efficiency in Water Management. If the project has separate components that will result in both implementing a renewable energy project and increasing energy efficiency, an applicant may respond to both.

Note: An applicant may receive points under both Subcriterion B.1 and B.2 if the project consists of an energy efficiency component separate from the renewable energy component of the project. However, an applicant may receive no more than 20 points total under both Subcriterion B.1 and B.2.

E.1.2.1 Subcriterion B.1—Implementing Renewable Energy Projects Related to Water Management and Delivery

Up to **20 points** may be awarded for projects that are installing new renewable energy capacity.

Describe the amount of energy capacity. For projects that implement renewable energy systems, state the estimated amount of capacity (in kilowatts) of the system. Please provide sufficient detail supporting the stated estimate, including all calculations in support of the estimate.

Describe the amount of energy generated. For projects that implement renewable energy systems, state the estimated amount of energy that the system will generate (in kilowatt hours per year). Please provide sufficient detail supporting the stated estimate, including all calculations in support of the estimate. Please explain how the power generated as a result of this project will be used, including any existing or planned agreements and infrastructure.

Describe the status of a mothballed hydropower plant. For projects that are bringing mothballed hydropower capacity back online, please describe the following:

- Clearly describe the work that will be accomplished through the WaterSMART Grant. Note: Normal OM&R activities are not eligible for funding. The work being proposed must be an investment.
- Provide information about the capacity (in kilowatts) of the existing hydro system and the expected capacity once it is brough back on-line.
- Provide information about the duration that the hydro system has been offline and the reasons why it has been mothballed. Please include any regulatory reporting or filings (e.g., FERC filings) or other documentation regarding the system.

Describe any other benefits of the renewable energy project. Please describe and provide sufficient detail on any additional benefits expected to result from the renewable energy project, including:

- How the system will combat/offset the impacts of climate change, including an expected reduction in greenhouse gas emissions
- Expected environmental benefits of the renewable energy system.

- Any expected reduction in the use of energy currently supplied through a Reclamation project.
- Anticipated benefits to other sectors/entities.
- Expected water needs, if any, of the system.

AND/OR

E.1.2.2 Subcriterion B.2—Increasing Energy Efficiency in Water Management

Up to **6 points** may be awarded for projects that address energy demands and reduce greenhouse gas emissions by retrofitting equipment to increase energy efficiency and/or through water conservation improvements that result in reduced pumping or diversions.

Describe any energy efficiencies that are expected to result from implementation of the water conservation or water efficiency project (e.g., reduced pumping).

- If quantifiable energy savings is expected to result from the project, please provide sufficient details and supporting calculations. If quantifying energy savings, please state the estimated amount in kilowatt hours per year.
- How will the energy efficiency improvement combat/offset the impacts of climate change, including an expected reduction in greenhouse gas emissions.
- If the project will result in reduced pumping, please describe the current pumping requirements and the types of pumps (e.g., size) currently being used. How would the proposed project impact the current pumping requirements and energy usage?
- Please indicate whether your energy savings estimate originates from the point of diversion, or whether the estimate is based upon an alternate site of origin.
- Does the calculation include any energy required to treat the water, if applicable?
- Will the project result in reduced vehicle miles driven, in turn reducing greenhouse gas emissions? Please provide supporting details and calculations.
- Describe any renewable energy components that will result in minimal energy savings/production (e.g., installing small-scale solar as part of a SCADA system).

E.1.3 Evaluation Criterion C—Other Project Benefits (15 points)

Up to **15 points** may be awarded under this criterion. This criterion prioritizes projects that address a specific water and/or energy concern(s), including enhancing drought resilience and sustainability, addressing the current and future impacts of climate change, and providing ecological benefits.

Resilience and Sustainability Benefits. Will the project address a specific water and/or energy sustainability concern? Please address the following:

- Explain and provide detail of the specific issue(s) in the area that is impacting water resilience and sustainability. Consider the following:
 - Describe recent, existing, or potential drought or water scarcity conditions in the project area.
 - Is the project in an area that is experiencing, or recently experienced, drought or water scarcity?
 - Describe any projected increases to the severity or duration of drought or water scarcity in the project area. Provide support for your response (e.g., reference a recent climate informed analysis, if available).
- Explain and provide detail of the specific issue(s) in the area that is impacting energy sustainability, such as reliance on fossil fuels, pollution, or interruptions in service.
- Please describe how the project will directly address the concern(s) stated above.
- Will the project directly result in more efficient management of the water supply? For example, will the project provide greater flexibility to water managers, resulting in a more efficient use of water supplies?
- Please address where any conserved water as a result of the project will go and how it
 will be used, including whether the conserved water will be used to offset groundwater
 pumping, used to reduce diversions, used to address shortages that impact diversions or
 reduce deliveries, made available for transfer, left in the river system, or used to meet
 another intended use.
 - o Indicate the quantity of conserved water that will be used for the intended purpose(s).
 - o Provide a description of the mechanism that will be used, if necessary, to put the conserved water to the intended use.

- Will the project assist States and water users in complying with interstate compacts?
- Will the project help to prevent a water-related crisis or conflict? Is there frequently tension or litigation over water in the basin?

Ecological Benefits. In addition to the separate WaterSMART Environmental Water Resources Projects NOFO, this NOFO places a priority on projects that that result in ecological benefits, through this section and other sections above, consistent with the SECURE Water Act. Please provide information regarding how the project will provide ecosystem benefits, including the following:

- Will the project benefit species (e.g., federally threatened or endangered, a federally recognized candidate species, a state listed species, or a species of particular recreational, or economic importance)? Please describe the relationship of the species to the water supply, and whether the species is adversely affected by a Reclamation project or is subject to a recovery plan or conservation plan under the Endangered Species Act (ESA).
- Will water remain in the system for longer periods of time? If so, provide details on current/future durations and any expected resulting benefits (e.g., maintaining water temperatures or water levels, recreational benefits, etc.).
- Will the proposed project reduce the likelihood of a species listing or otherwise improve the species status?
- Please describe any other ecosystem benefits as a direct result of the project.

Note: Projects that are intended to improve streamflows or aquatic habit, and that are requesting \$500,000 or more in Federal funding, must include information about plans to monitor the benefits of the project. Please describe the plan to monitor improved streamflows or aquatic habit benefits over a five-year period once the project has been completed. Provide detail on the steps to be taken to carry out the plan.

Climate Change: E.O. 14008 emphasizes the need to prioritize and take robust actions to reduce climate pollution; increase resilience to the impacts of climate change; protect public health; and conserve our lands, waters, oceans, and biodiversity.

- Describe how the project addresses climate change and increases resiliency. For example, does the project help communities adapt to bolster drought resilience?
- Does the project seek to improve ecological resiliency to climate change?
- Does the proposed project seek to reduce or mitigate climate pollutions such as air or water pollution?

- Does the proposed project include green or sustainable infrastructure to improve community climate resilience?
- Does the proposed project contribute to climate change resiliency in other ways not described above?

E.1.4 Evaluation Criterion D—Disadvantaged Communities, Insular Areas, and Tribal Benefits (15 points)

Up to **15 points** may be awarded based on the extent that the project demonstrates support for the Biden-Harris Administration's priorities, including E.O. 14008: *Tackling the Climate Crisis at Home and Abroad* and the President's memorandum, *Tribal Consultation and Strengthening Nation-to-Nation Relationships*.

Please address only those priorities that are applicable to your project. It is not necessary to address priorities that are not applicable to your project. A project will not necessarily receive more points simply because multiple priorities are addressed. Points will be allocated based on the degree to which the project supports one or more of the priorities listed, and whether the connection to the priority(ies) is well supported in the application.

E.1.4.1 Subcriterion D.1. Disadvantaged Communities

E.O. 14008 affirms the advancement of environmental justice for all through the development and funding of programs to invest in disadvantaged communities. This criterion, which is used to identify projects that advance the Justice 40 Initiative, includes all Federally recognized Tribes and Tribal entities, and any disadvantaged communities in insular areas (American Samoa, Guam, the Northern Mariana Islands, or the Virgin Islands) identified pursuant to the following criteria.

• Please use the White House Council on Environmental Quality's interactive Climate and Economic Justice Screening Tool (CEJST), available online at Explore the map - Climate & Economic Justice Screening Tool (screeningtool.geoplatform.gov/en/#17.59/36.63278/-105.181329) to identify any disadvantaged communities that will benefit from your project. The CEJST developed by the White House Council on Environmental Quality is a geospatial mapping tool that utilizes publicly available, nationally consistent data sets related to climate change, the environment, health, and economic opportunity to identify disadvantaged communities. In addition to identifying specific census tracts that are disadvantaged, the CEJST includes the lands of Federally

recognized Tribes as disadvantaged communities. In addition, regardless of whether a Federally recognized Tribe has land, all Federally recognized Tribal entities are considered disadvantaged communities for the purposes of the Justice40 Initiative.²

• If applicable, describe how the proposed project will serve or benefit a disadvantaged community, identified using the tool. For example, will the project improve public health and safety by addressing water quality, add new water supplies, provide economic growth opportunities, or provide other benefits in a disadvantaged community?

E.1.4.2 Subcriterion D.2. Tribal Benefits

The Department is committed to strengthening tribal sovereignty and the fulfillment of Federal Tribal trust responsibilities. The President's memorandum, *Tribal Consultation and Strengthening Nation-to-Nation Relationships*, asserts the importance of honoring the Federal Government's commitments to Tribal nations. Address the following, if applicable:

- Does the proposed project directly serve and/or benefit a Tribe? Will the project increase water supply sustainability for an Indian Tribe? Will the project provide renewable energy for an Indian Tribe?
- Does the proposed project support Tribal led conservation and restoration priorities, and/or incorporate or benefit indigenous traditional knowledge and practices?
- Does the proposed project directly support tribal resilience to climate change and drought impacts or provide other Tribal benefits such as improved public health and safety through water quality improvements, new water supplies, increased renewable energy, or economic growth opportunities? Does the proposed project support Reclamation's Tribal trust responsibilities or a Reclamation activity with a Tribe?

E.1.5 Evaluation Criterion E—Complementing On-Farm Irrigation Improvements (8 points)

Up to **8 points** may be awarded for projects that describe in detail how they will complement onfarm irrigation improvements eligible for NRCS financial or technical assistance.

Note: Scoring under this criterion is based on an overall assessment of the extent to which the WaterSMART Grant project will complement ongoing or future on-farm improvements. Applicants should describe any proposal made to NRCS, or any plans to seek assistance from NRCS in the future, and how an NRCS-assisted activity would complement the WaterSMART Grant project. Financial assistance through EQIP is the most commonly used program by which NRCS helps producers implement improvements to irrigation systems, but NRCS does have additional technical or financial assistance

² OMB, CEQ, & CPO, M-23-09, Addendum to the Interim Implementation Guidance for the Justice40 Initiative, M-21-28, on using the Climate and Economic Justice Screening Tool (CEJST) (Jan. 27, 2023), www.whitehouse.gov/wp-content/uploads/2023/01/M-23-09 Signed CEQ CPO.pdf.

programs that may be available. Applicants may receive maximum points under this criterion by providing the information described in the bullet points below. Applicants are not required to have assurances of NRCS assistance by the application deadline to be awarded the maximum number of points under this subcriterion. Reclamation may contact applicants during the review process to gather additional information about pending applications for NRCS assistance if necessary.

Note: On-farm improvements themselves are not eligible activities for funding under this NOFO. This criterion is intended to focus on how the WaterSMART Grant project will complement ongoing or future on-farm improvements. NRCS will have a separate application process for the on-farm components of selected projects that may be undertaken in the future, separate of the WaterSMART Grant project.

If the proposed project will complement an on-farm improvement eligible for NRCS assistance, please address the following:

- Describe any planned or ongoing projects by farmers/ranchers that receive water from the applicant to improve on-farm efficiencies.
 - o Provide a detailed description of the on-farm efficiency improvements.
 - o Have the farmers requested technical or financial assistance from NRCS for the onfarm efficiency projects, or do they plan to in the future?
 - o If available, provide documentation that the on-farm projects are eligible for NRCS assistance, that such assistance has or will be requested, and the number or percentage of farms that plan to participate in available NRCS programs.
 - Applicants should provide letters of intent from farmers/ranchers in the affected project areas.
- Describe how the proposed WaterSMART project would complement any ongoing or planned on-farm improvement.
 - Will the proposed WaterSMART project directly facilitate the on-farm improvement?
 If so, how? For example, installing a pressurized pipe through WaterSMART can help support efficient on-farm irrigation practices, such as drip-irrigation.

OR

• Will the proposed WaterSMART project complement the on-farm project by maximizing efficiency in the area? If so, how?

- Describe the on-farm water conservation or water use efficiency benefits that are expected to result from any on-farm work.
 - Estimate the potential on-farm water savings that could result in acre-feet per year. Include support or backup documentation for any calculations or assumptions.
- Please provide a map of your water service area boundaries. If your project is selected for funding under this NOFO, this information will help NRCS identify the irrigated lands that may be approved for NRCS funding and technical assistance to complement funded WaterSMART projects.

Note: On-farm water conservation improvements that complement the water delivery improvement projects selected through this NOFO may be considered for NRCS funding and technical assistance to the extent that such assistance is available. For more information, including application deadlines and a description of available funding, please contact your local NRCS office. See the NRCS website for office contact information, www.nrcs.usda.gov/conservation-basics/conservation-by-state/state-offices.

E.1.6 Evaluation Criterion F—Readiness to Proceed (8 points)

Up to **8 points** may be awarded for this criterion.

Points may be awarded based upon the extent to which the proposed project is capable of commencing upon entering into a financial assistance agreement. Note: If your project is selected, responses provided in this section will be used to develop the scope of work that will be included in the financial assistance agreement.

Applications that include a detailed project implementation plan (e.g., estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most points under this criterion.

- Identify and provide a summary description of the major tasks necessary to complete the project. Note: Do not repeat the more detailed technical project description provided in Section D.2.2.2 Application Content. This section should focus on a summary of the major tasks to be accomplished as part of the project.
- Describe any permits that will be required, along with the process for obtaining such permits.
- Identify and describe any engineering or design work performed specifically in support of the proposed project.
- Describe any new policies or administrative actions required to implement the project.

- Describe the current design status of the project. If additional design work is required prior to construction, describe the planned process and timeline for completing the design work.
- Please also include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones, and dates. Milestones may include, but are not limited to, the following: complete environmental and cultural compliance; mobilization; begin construction/installation; construction/installation (50% complete); and construction/installation (100% complete). Was the expected timeline for environmental and cultural compliance discussed with the local Reclamation regional or area office?

E.1.7 Evaluation Criterion G—Collaboration (5 points)

Up to **5 points** may be awarded for projects that promote and encourage collaboration among parties in a way that helps increase the sustainability of the water supply.

Please describe how the project promotes and encourages collaboration. Consider the following:

- Is there widespread support for the project? Please provide specific details regarding any support and/or partners involved in the project. What is the extent of their involvement in the process?
- What is the significance of the collaboration/support?
- Will this project increase the possibility/likelihood of future water conservation improvements by other water users?
- Will the project benefit multiple sectors and/or users (e.g., agriculture, municipal and industrial, environmental, recreation, or others)?
- Please attach any relevant supporting documents (e.g., letters of support or memorandum of understanding).

E.1.8 Evaluation Criterion H—Nexus to Reclamation (4 points)

Up to **4 points** may be awarded if the proposed project is connected to a Reclamation project or Reclamation activity. No points will be awarded for proposals without connection to a Reclamation project or Reclamation activity.

Describe the nexus between the proposed project and a Reclamation project or Reclamation activity. Please consider:

- Does the applicant have a water service, repayment, or operations and maintenance (O&M) contract with Reclamation?
- If the applicant is not a Reclamation contractor, does the applicant receive Reclamation water through a Reclamation contractor or by any other contractual means?
- Will the proposed work benefit a Reclamation project area or activity?
- Is the applicant a Tribe?

E.2 Review and Selection Process

Reclamation reserves the right to remove applications that do not meet the objectives of this NOFO. Awards will be made for projects most advantageous to the Federal Government. Award selection may be made to maintain balance among the eligible projects listed in this NOFO. The evaluation process will be comprised of the steps described in the following subsections.

E.2.1 First Level and Threshold Screening

Reclamation will conduct an initial review and threshold screening of each application submitted in response to this NOFO to determine whether the Applicant is eligible, and the application is complete and submitted on time. If Reclamation determines the Applicant is ineligible or non-responsive, Reclamation will notify the Applicant.

All application packages will be screened to ensure that:

- The application meets the completeness, eligibility and timeliness requirements stated in this NOFO.
- The applicant meets the unique entity identifier and SAM registration requirements stated in this NOFO.
- The application meets the content requirements of the NOFO package, including submission of a technical proposal and budget narrative.
- The application contains executed mandatory forms SF-424, *Application for Financial Assistance* and SF-424D, *Assurances Form*, and a completed SF-424C, *Budget Information Form*.

A complete application must include all requirements described in the above bullets. Any application which fails to include these requirements will be deemed ineligible and will not be

considered for funding. Reclamation reserves the right to remove an application from funding consideration during the initial screening if it is not submitted on time; does not include a SF-424; does not include a technical proposal or does not include a budget narrative. In that event, Reclamation will send notification of elimination to the applicant. If an application is missing other information, Reclamation may reach back to request that information within a specified timeframe.

E.2.2 Application Review Committee

The technical merit of the application will be reviewed by an ARC, made up of experts in relevant disciplines selected from across Reclamation. Evaluation criteria will comprise the total evaluation weight as stated in the *Section E.1 Evaluation Criteria*.

Applications will be scored against the evaluation criteria and the ARC will also review the application to ensure that the project is eligible and meets the objective of this NOFO.

During ARC review, Reclamation may contact applicants to request clarifications to the information provided, if necessary.

E.2.3 Red-Flag Review

Following the results of the ARC review, Reclamation offices will review the top-ranking applications and will identify any reasons why a proposed project would not be feasible or otherwise advisable, including environmental or cultural resources compliance issues, permitting issues, legal issues, or financial position.

Positive or negative past performance by the applicant and any partners in previous working relationships with Reclamation may be considered, including whether the applicant is making significant progress toward the completion of outstanding financial assistance agreements and whether the applicant is in compliance with all reporting requirements associated with previously funded projects.

In addition, during this review, Reclamation will address any specific concerns or questions raised by members of the ARC, conduct a preliminary budget review, and evaluate the applicant's ability to meet cost share as required.

E.2.4 Managerial Review

Reclamation management will prioritize projects to ensure the total amount of all awards does not exceed available funding levels. Management will also ensure that all projects meet the scope, priorities, requirements, and objectives of this NOFO. Management may also prioritize

projects to ensure that multiple project types are represented. After completion of the Managerial Review, Reclamation will notify applicants whose proposals have been selected for award consideration.

E.2.5 Pre-Award Clearances and Approvals

The following pre-award clearances and approvals must be obtained before an award of funding is made. If the results of all pre-award reviews and clearances are satisfactory, an award of funding will be made once the agreement is finalized (approximately one to three months from the date of initial selection). If the results of pre-award reviews and clearances are unsatisfactory, consideration of funding for the project may be withdrawn.

E.2.5.1 Environmental Review

Reclamation will forward the proposal to the appropriate Reclamation regional or area office for completion of environmental compliance, if applicable. To the extent possible, environmental compliance will be completed before a financial assistance agreement is signed by the parties. However, in most cases, the award can be completed with the release of funds contingent on completion of environmental compliance and receipt of a written Notice to Proceed from the Reclamation Grants Officer. The financial assistance agreement will describe how compliance will be carried out. Ground-disturbing activities (e.g., installation of meters, lining a canal, etc.) may not occur until environmental compliance is complete and a Notice to Proceed is issued by the awarding Reclamation Grants Officer.

E.2.5.2 Budget Analysis and Business Evaluation

A Reclamation Grants Officer will also conduct a detailed budget analysis and complete a business evaluation and responsibility determination. During this evaluation, the Reclamation Grants Officer will consider several factors that are important, but not quantified, such as:

- Allowability, allocability, and reasonableness of proposed costs
- Financial strength and stability of the applicant
- Past performance, including satisfactory compliance with all terms and conditions of previous awards, such as environmental compliance issues, reporting requirements, proper procurement of supplies and services, and audit compliance
- Adequacy of personnel practices, procurement procedures, and accounting policies and procedures, as established by applicable OMB circulars

E.3 Federal Award Performance

Prior to making an award with a Federal total estimated amount greater than \$150,000, Reclamation is required to review and consider any information about the applicant that is in the designated integrity and performance system accessible through SAM (current Responsibilities / Qualifications information) (see 41 U.S.C. §2313).

Applicants, at their option, may review information in the designated integrity and performance systems accessible through SAM and comment on any information about themselves that a Federal awarding agency previously entered and that is currently in the designated integrity and performance system accessible through SAM. Reclamation will consider any comments by the applicant, in addition to the responsibilities/qualifications information, in making a judgment about the applicant's integrity, business ethics, and record of performance under Federal awards when completing the review of risk posed by applicants as described in 2 CFR §200.205 Federal awarding agency review of risk posed by applicants.

E.4 Anticipated Announcement and Federal Award Dates

E.4.1 Application Period 1

Reclamation expects to contact potential award recipients and unsuccessful applicants in Summer 2024, subject to the timing and amount of final appropriations. Financial assistance agreements will be awarded to applicants that successfully pass all pre-award reviews and clearances. Award recipients will be contacted individually to discuss the time frame for the completion of their agreement.

E.4.2 Application Period 2

Reclamation expects to contact potential award recipients and unsuccessful applicants in spring 2025, subject to the timing and amount of final appropriations. Financial assistance agreements will be awarded to applicants that successfully pass all pre-award reviews and clearances. Award recipients will be contacted individually to discuss the time frame for the completion of their agreement.



Section F: Federal Award Administration Information

F.1 Federal Award Notices

Successful applicants will receive by electronic mail, a notice of selection signed by a Reclamation Grants Officer. This notice is **not** an authorization to begin performance.

F.2 Administrative and National Policy Requirements

See the <u>DOI Standard Terms and Conditions</u> for the administrative and national policy requirements applicable to Department awards.

F.2.1 Automated Standard Application for Payments Registration

All applicants must also be registered with and willing to process all payments through the Department of Treasury Automated Standard Application for Payments (ASAP) system. All recipients with active financial assistance agreements with Reclamation must be enrolled in ASAP under the appropriate Agency Location Code(s) and obtain a UEI Number prior to the award of funds. If a recipient has multiple UEI numbers, they must separately enroll within ASAP for each unique UEI Number and/or Agency. All of the information on the enrollment process for recipients, including the enrollment initiation form, will be sent to you by ASAP staff if selected for award.

Note: If your entity is currently enrolled in the ASAP system with an agency other than Reclamation, you must enroll specifically with Reclamation in order to process payments.

F.2.2 Environmental and Cultural Resources Compliance

All projects being considered for award funding will require compliance with the National Environmental Policy Act (NEPA) before any ground-disturbing activity may begin. Compliance with all applicable State, Federal, and local environmental, cultural, and paleontological resource protection laws and regulations is also required, including, but not limited to, the Clean Water Act (CWA), Endangered Species Act (ESA), National Historic Preservation Act (NHPA), consultation with potentially affected Tribes, and consultation with the State Historic Preservation Office.

Note: Reclamation will be the lead Federal agency for NEPA compliance and will be responsible for evaluating technical information and ensuring that natural resources, cultural, and socioeconomic concerns are appropriately addressed.

As the lead agency, Reclamation is solely responsible for determining the appropriate level of NEPA compliance. Further, Reclamation is also responsible for ensuring that findings under NEPA, and consultations, as appropriate, will support Reclamation's decision on whether to fund a project.

Under no circumstances may an applicant begin any ground-disturbing activities (e.g., grading, clearing, and other preliminary activities) on a project before environmental and cultural resources compliance is complete, and Reclamation explicitly authorizes work to proceed. This pertains to all components of the proposed project, including those that are part of the applicant's non-Federal cost share. Reclamation will provide a successful applicant with information once such compliance is complete. An applicant that proceeds before environmental and cultural resources compliance is complete may risk forfeiting Reclamation funding under this NOFO.

F.2.3 Approvals and Permits

Recipients shall adhere to Federal, State, territorial, Tribal, and local laws, regulations, and codes, as applicable, and shall obtain all required approvals and permits. Recipients shall also coordinate and obtain approvals from site owners and operators.

F.2.4 Geospatial Data and Data Tools

All geospatial data collected for or produced through the use of the Department financial assistance funds are required to meet all relevant standards established by the Federal Geospatial Data Committee (FGDC) as authorized by Geospatial Data Act of 2018, P.L. 115-254, Subtitle F – *Geospatial Data*, §751-759C, codified at 43 U.S.C. §2801–2811. Interior requires fully compliant metadata on all Geographic Information Systems (GIS) files developed for financial assistance projects. If a funded financial assistance project involves acquiring or collecting geospatial data, the successful applicant is required to search GeoPlatform.gov to determine that no existing Federal, State, local or private data meet the Government's needs and are available at no cost before acquiring or collecting additional geospatial data.

F.2.5 Intangible Property (2 CFR §200.315)

Title to intangible property (see definition for intangible property in § 200.1) acquired under a Federal award vests upon acquisition in the non-Federal entity. The non-Federal entity must use that property for the originally-authorized purpose, and must not encumber the property without

approval of the Federal awarding agency. When no longer needed for the originally authorized purpose, disposition of the intangible property must occur in accordance with the provisions in § 200.313(e).

The non-Federal entity may copyright any work that is subject to copyright and was developed, or for which ownership was acquired, under a Federal award. The Federal awarding agency reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, or otherwise use the work for Federal purposes, and to authorize others to do so.

The non-Federal entity is subject to applicable regulations governing patents and inventions, including governmentwide regulations issued by the Department of Commerce at 37 CFR part 401, Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Awards, Contracts and Cooperative Agreements.

F.2.6 Real Property (2 CFR §200.311)

Real property, equipment, and intangible property, that are acquired or improved with a Federal award must be held in trust by the non-Federal entity as trustee for the beneficiaries of the project or program under which the property was acquired or improved (2 CFR §200.316 *Property trust relationship*). Title to real property acquired or improved under a Federal award will vest upon acquisition in the non-Federal entity. Except as otherwise provided by Federal statutes or by Reclamation, real property will be used for the originally authorized purpose as long as needed for that purpose, during which time the non-Federal entity must not dispose of or encumber its title or other interests. When real property is no longer needed for the originally authorized purpose, the non-Federal entity must obtain disposition instructions from Reclamation. As required by 2 CFR §200.329 *Reporting on real property*, recipients will be required to submit reports on the status of real property acquired or improved under a financial assistance agreement issued under this NOFO.

F.2.7 Requirements for Agricultural Operations under P.L. 111-11, Section 9504(a)(3)(B)

In accordance with Section 9504(a)(3)(B) of P.L.111-11, grants and cooperative agreements under this authority will not be awarded for an improvement to conserve irrigation water unless the applicant agrees to both of the following conditions:

- Not to use any associated water savings to increase the total irrigated acreage of the applicant and
- Not to otherwise increase the consumptive use of water in the operation of the applicant, as determined pursuant to the law of the state in which the operation of the applicant is located.

F.2.8 Title to Improvements P.L.111-11, Section 9504(a)(3)(D)

If the activities funded through an agreement awarded under this NOFO result in a modification to a portion of a federally owned facility that is integral to the existing operations of that facility, the Federal government shall continue to hold title to the facility and the improvements thereto. Title to improvements, P.L.111-11, Section 9504(a)(3)(D) that are not integral to existing water delivery operations shall reside with the project sponsor.

F.2.9 Operation and Maintenance Costs under P.L.111-11, Section 9504(a)(3)(E)(iv)

The non-Federal share of the costs for operation and maintenance of any infrastructure improvement funded through an agreement awarded under this NOFO shall be 100 percent.

F.2.10 Liability under P.L.111-11, Section 9504(a)(3)(F)

Except as provided under r 28 U.S.C. Chapter 171 (commonly known as the Federal Tort Claims Act), the United States (U.S.) shall not be liable for monetary damages of any kind for any injury arising out of an act, omission, or occurrence that arises in relation to any facility created or improved through an agreement awarded under this NOFO, the title of which is not held by the U.S.

F.2.11 Buy America Domestic Procurement Preference

As required by Section 70914 of the Bipartisan Infrastructure Law (also known as the Infrastructure Investment and Jobs Act), P.L. 117-58, on or after May 14, 2022, none of the funds under a federal award that are part of Federal Financial Assistance Program for infrastructure may be obligated for a project unless all of the iron, steel, manufactured products, and construction materials used in the project are produced in the U.S. unless subject to an approved waiver. The requirements of this section must be included in all subawards, including all contracts and purchase orders for work or products under this program.

Recipients of an award of Federal financial assistance are hereby notified that none of the funds provided under this award may be used for a project for infrastructure unless:

- 1. All iron and steel used in the project are produced in the U.S.—this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the U.S.
- 2. All manufactured products used in the project are produced in the U.S.—this means that the manufactured product was manufactured in the U.S.; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the U.S. is

greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and

3. All construction materials are manufactured in the U.S.—this means that all manufacturing processes for the construction material occurred in the U.S.

The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

For further information on the Buy America preference, please visit www.doi.gov/grants/BuyAmerica. Additional information can also be found at the White House Made in America Office website: www.whitehouse.gov/omb/management/made-in-america/.

F.2.11.1 Waivers

When necessary, recipients may apply for, and the Department may grant, a waiver from these requirements, subject to review by the Made in America Office. The DOI may waive the application of the domestic content procurement preference in any case in which it is determined that one of the below circumstances applies:

- 1. Non-Availability Waiver: the types of iron, steel, manufactured products, or construction materials are not produced in the U.S. in sufficient and reasonably available quantities or of a satisfactory quality;
- 2. Unreasonable Cost Waiver: the inclusion of iron, steel, manufactured products, or construction materials produced in the U.S. will increase the cost of the overall project by more than 25%; or
- 3. Public Interest Waiver: applying the domestic content procurement preference would be inconsistent with the public interest.

There may be instances where an award qualifies, in whole or in part, for an existing DOI general applicability waiver as described at: www.doi.gov/grants/BuyAmerica/
GeneralApplicabilityWaivers. If the specific financial assistance agreement, infrastructure project, or non-domestic materials meets the criteria of an existing general applicability waiver within the limitations defined within the waiver, the recipient is not required to request a separate waiver for non-domestic materials.

If a general applicability waiver does not already apply, and a recipient believes that one of the above circumstances applies to an award, a request to waive the application of the domestic content procurement preference may be submitted to the financial assistance awarding officer in

writing. Waiver requests shall include the below information. The waiver shall not include any Privacy Act information, sensitive data, or proprietary information within their waiver request. Waiver requests will be posted to www.doi.gov/grants/buyamerica and are subject to public comment periods of no less than 15 days. Waiver requests will also be reviewed by the Made in America Office.

- 1. Type of waiver requested (non-availability, unreasonable cost, or public interest).
- 2. Requesting entity and UEI submitting the request.
- 3. Department of Interior Bureau or Office who issued the award.
- 4. Federal financial assistance listing name and number (reference block 2 on DOI Notice of Award)
- 5. Financial assistance title of project (reference block 8 on DOI Notice of Award).
- 6. Federal Award Identification Number (FAIN).
- 7. Federal funding amount (reference block 11.m. on DO Notice of Award).
- 8. Total cost of Infrastructure expenditures (includes federal and non-federal funds to the extent known).
- 9. Infrastructure project description(s) and location(s) (to the extent known).
- 10. List of iron or steel item(s), manufactured goods, and construction material(s) the recipient seeks to waive from Buy America requirements. Include the name, cost, countries of origin (if known), and relevant Product Service Code (PSC) or North American Industry Classification System (NAICS) code for each.
- 11. A certification that the recipient made a good faith effort to solicit bids for domestic products supported by terms included in requests for proposals, contracts, and nonproprietary communications with the prime contractor.
- 12. A statement of waiver justification, including a description of efforts made (e.g., market research, industry outreach) by the recipient, in an attempt to avoid the need for a waiver. Such a justification may cite, if applicable, the absence of any Buy America-compliant bids received in response to a solicitation.
- 13. Anticipated impact if no waiver is issued.

Approved waivers will be posted at www.doi.gov/grants/BuyAmerica/ApprovedWaivers; recipients requesting a waiver will be notified of their waiver request determination by an awarding officer.

Questions pertaining to waivers should be directed to the financial assistance awarding officer.

F.2.11.2 Definitions

"Construction materials" include an article, material, or supply that is or consists primarily of non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber, or drywall.

"Construction materials" do **not** include cement or cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives.

"Domestic content procurement preference" means all iron and steel used in the project are produced in the U.S. the manufactured products used in the project are produced in the U.S. or the construction materials used in the project are produced in the U.S.

"Infrastructure" includes, at a minimum, the structures, facilities, and equipment for, in the U.S., roads, highways, and bridges; public transportation; dams, ports, harbors, and other maritime facilities; intercity passenger and freight railroads; freight and intermodal facilities; airports; water systems, including drinking water and wastewater systems; electrical transmission facilities and systems; utilities; broadband infrastructure; and buildings and real property. Infrastructure includes facilities that generate, transport, and distribute energy.

"Project" means the construction, alteration, maintenance, or repair of infrastructure in the U.S.

F.2.12 Bipartisan Infrastructure Law Wage Rate Requirements

Section 41101 of the Bipartisan Infrastructure Law requires that all laborers and mechanics employed by contractors or subcontractors in the performance of construction, alteration, or repair work on a project assisted in whole or in part by funding made available under the Bipartisan Infrastructure Law (P.L. 117-58) shall be paid wages at rates no less than those prevailing on similar projects in the locality as determined by the Secretary of Labor in accordance with 40 U.S.C. IV., Chapter 31 (also known as the Davis-Bacon Act).

F.2.13 Bipartisan Infrastructure Law and Inflation Reduction Act Signage Requirement

Any award made in whole or in part by BIL funding may contain a term and condition that requires Investing in America signage at project sites. Information and guidelines regarding Investing in America signage can be found at www.whitehouse.gov/wp-content/uploads/2023/02/Investing-in-America-Brand-Guide.pdf.

F.3 Reporting Requirements and Distribution

If the applicant is awarded an agreement as a result of this NOFO, the applicant will be required to submit the following reports during the term of the agreement.

F.3.1 Financial Reports

Recipients will be required to submit a fully completed SF-425 Federal Financial Report form on a semi-annual basis along with the final performance report. The SF-425 must be signed by a person legally authorized to obligate the successful applicant. The latest reporting forms are available at www.grants.gov/applicants/grant-applications/how-to-apply-for-grants.

F.3.2 Interim Performance Reports

The specific terms and conditions pertaining to the reporting requirements will be included in the financial assistance agreement. Interim performance reports will be submitted at least twice a year, which include:

- A comparison of actual accomplishments to the milestones established by the financial assistance agreement for the period
- The reasons why established milestones were not met, if applicable
- The status of milestones from the previous reporting period that were not met, if applicable
- Whether the project is on schedule and within the original cost estimate
- Any additional pertinent information or issues related to the status of the project

F.3.3 Final Performance Report

Recipients will be required to submit a final performance report encompassing the entire period of performance. The final performance report must include, but is not limited to, the following information:

- Whether the project objectives and goals were met.
- Discussion of the benefits achieved by the project, including information and/or calculations supporting the benefits
- Description of how the project demonstrates collaboration

- A comparison of estimated costs vs. actual costs
- An overview of the project design progress.
- Photographs documenting the project are also appreciated.

F.4 Disclosures

F.4.1 Conflict of Interest Disclosures

Recipients must notify the program immediately in writing of any conflict of interest that arise during the life of their Federal award, including those reported to them by any subrecipient under the award. Recipients must notify the program in writing if any employees, including subrecipient and contractor personnel, are related to, married to, or have a close personal relationship with any Federal employee in the Federal funding program or who otherwise may have been involved in the review and selection of the award. The term employee means any individual engaged in the performance of work pursuant to the Federal award.

F.4.2 Other Mandatory Disclosures

The Non-Federal entity or applicant for a Federal award must disclose, in a timely manner, in writing to the Federal awarding agency or pass-through entity all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award. Non-Federal entities that receive a Federal award including the terms and conditions outlined in 2 CFR 200, *Appendix XII—Award Term and Condition for Recipient Integrity and Performance Matters* are required to report certain civil, criminal, or administrative proceedings to SAM.gov. Failure to make required disclosures can result in any of the remedies described in 2 CFR §200.338 *Remedies for noncompliance*, including suspension or debarment.

F.5 Data Availability (2 CFR §1402.315)

All data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, valuation products or other scientific assessments in any medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual, resulting from a financial assistance agreement is available for use by the Department including being available in a manner that is sufficient for independent verification.

The Federal Government has the right to:

1. Obtain, reproduce, publish, or otherwise use the data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, or other scientific assessments, produced under a Federal award; and

2. Authorize others to receive, reproduce, publish, or otherwise use such data, methodology, factual inputs, models, analyses, technical information, reports, conclusions, or other scientific assessments, for Federal purposes, including to allow for meaningful third-party evaluation.

F.6 Freedom of Information Act

Note: Any application submitted for funding under this NOFO may be subjected to a Freedom of Information Act (FOIA) request (5 U.S.C. §552, as amended by P.L. No. 110-175), and as a result, may be made publicly available.

In response to a FOIA request for research data relating to published research findings produced under a Federal award that were used by the Federal government in developing an agency action that has the force and effect of law, the Federal awarding agency must request, and the non-Federal entity must provide, within a reasonable time, the research data so that they can be made available to the public through the procedures established under the FOIA. If the Federal awarding agency obtains the research data solely in response to a FOIA request, the Federal awarding agency may charge the requester a reasonable fee equaling the full incremental cost of obtaining the research data. This fee should reflect costs incurred by the Federal agency and the non-Federal entity. This fee is in addition to any fees the Federal awarding agency may assess under the FOIA (5 U.S.C. 552(a)(4)(A)).

Published research findings mean when:

- Research findings are published in a peer-reviewed scientific or technical journal; or
- A Federal agency publicly and officially cites the research findings in support of an agency action that has the force and effect of law. "Used by the Federal Government in developing an agency action that has the force and effect of law" is defined as when an agency publicly and officially cites the research findings in support of an agency action that has the force and effect of law.

Research data means the recorded factual material commonly accepted in the scientific community as necessary to validate research findings, but not any of the following: preliminary analyses, drafts of scientific papers, plans for future research, peer reviews, or communications with colleagues. This "recorded" material excludes physical objects (e.g., laboratory samples). Research data also does not include:

- Trade secrets, commercial information, materials necessary to be held confidential by a researcher until they are published, or similar information which is protected under law; and
- Personnel and medical information and similar information the disclosure of which would constitute a clearly unwarranted invasion of personal privacy, such as information that could be used to identify a particular person in a research study.

Section G: Federal Awarding Agency Contact(s)

An informational webinar will be held soon after the NOFO is posted. The webinar will provide general information about the Water and Energy Efficiency Grants NOFO, and individuals will have the opportunity to ask questions.

An additional webinar will be held for successful applicants following their notice of selection to review next steps and pre-Financial Assistance Agreement procedures.

G.1 Reclamation Financial Assistance Contact

Questions regarding application and submission information and award administration may be submitted to:

Name: Christina Munoz

Email: bor-sha-fafoa@usbr.gov

Phone: 720-614-2192

Note: Staff availability on the day of the NOFO closing will be limited. *Please include the NOFO number R24AS00052 in the subject.*

G.2 Reclamation Program Coordinator Contact

Questions regarding applicant and project eligibility and application review may be submitted to the appropriate point of contact below:

By mail: Bureau of Reclamation

Water Resources and Planning Office

Attn: Josh German Mail Code: 86-63000 P.O. Box 25007

Denver, CO 80225-0007

By e-mail: jgerman@usbr.gov

By phone: 303-445-2839



Section H: Other Information

The following is a brief overview of NEPA, NHPA, and ESA. While these statutes are not the only environmental laws that may apply, they are the Federal laws that most frequently do apply. Compliance with all applicable environmental laws will be initiated by Reclamation concurrently, immediately following the initial recommendation to award a financial assistance agreement under this NOFO. The descriptions below are intended to provide you with information about the environmental compliance issues that may apply to your projects.

H.1 Environmental and Cultural Resource Considerations

To allow Reclamation to assess the probable environmental and cultural resources impacts and costs associated with each application, all applicants should consider the following list of questions focusing on the NEPA, ESA, and NHPA requirements. Please answer the following questions to the best of your knowledge. If any question is not applicable to the project, please explain why. The application should include the answers to:

- Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.
- Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?
- Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States"? If so, please describe and estimate any impacts the proposed project may have.
- When was the water delivery system constructed?
- Will the proposed project result in any modification of or effects to, individual features of an irrigation system (e.g., headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.
- Are any buildings, structures, or features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.
- Are there any known archeological sites in the proposed project area?

- Will the proposed project have a disproportionate and adverse effect on any communities with environmental justice concerns?
- Will the proposed project limit access to, and ceremonial use of, Indian sacred sites or result in other impacts on Tribal lands?
- Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

H.1.1 National Environmental Policy Act

NEPA requires Federal agencies such as Reclamation to evaluate, during the decision-making process, the potential environmental effects of a proposed action and any reasonable mitigation measures. Before Reclamation can make a decision to fund an award under this NOFO, Reclamation must comply with NEPA. Compliance with NEPA can be accomplished in several ways, depending upon the degree and significance of environmental impacts associated with the proposal.

Some projects may fit within a recognized **Categorical Exclusion (CE)** to NEPA (i.e., one of the established categories of activities that generally do not have significant impacts on the environment). If a project fits within a CE, no further NEPA compliance measures are necessary. Use of a CE can involve simple identification of an applicable **Department CE** or documentation of a **Reclamation CE** using a **Categorical Exclusion Checklist (CEC)**. If a CE is being considered, Reclamation will determine the applicability of the CE and whether extraordinary circumstances (i.e., reasons that the CE cannot be applied) exist. That process can take anywhere from 1 day to about 30 days, depending upon the specific situation.

If the project does not fit within a CE, compliance with NEPA might require preparation of an **Environmental Assessment/Finding of No Significant Impact (EA/FONSI)**. Generally, where no CE applies but there are not believed to be any significant impacts associated with the proposed action, an EA will be required. The EA is used to determine whether any potentially significant effects exist (which would trigger the further step of an **Environmental Impact Statement (EIS)**, below). If no potentially significant effects are identified, the EA process ends with the preparation of a FONSI. The EA/FONSI process is more detailed than the CE/CEC process and can take weeks or even months to complete. Consultation with other agencies and public notification are part of the EA process.

The most detailed form of NEPA compliance, where a proposed project has potentially significant environmental effects, is completion of an **EIS** and **Record of Decision.** An EIS requires months or years to complete, and the process includes considerable public involvement, including mandatory public reviews of draft documents. It is not anticipated that projects proposed under this program will require completion of an EIS.

During the NEPA process, potential impacts of a project are evaluated in context and in terms of intensity (e.g., will the proposed action affect the only native prairie in the county? Will the proposed action reduce water supplied to a wetland by 1 percent? Or 95 percent?). The best source of information concerning the potentially significant issues in a project area is the local Reclamation staff that has experience in evaluating effects in context and by intensity.

Reclamation has the sole discretion to determine what level of environmental NEPA compliance is required. If another Federal agency is involved, Reclamation will coordinate to determine the appropriate level of compliance. You are encouraged to contact your regional or area Reclamation office. See www.usbr.gov/main/offices.html with questions regarding NEPA compliance issues. You may also contact the Program Coordinator for further information (see Section G. Agency Contacts).

H.1.2 National Historic Preservation Act

To comply with Section 106 of the NHPA, Reclamation must consider whether a proposed project has the **potential to cause effects to historic properties**, before it can complete an award under this NOFO. Historic properties are cultural resources (historic or prehistoric districts, sites, buildings, structures, or objects) that qualify for inclusion in the National Register of Historic Places. In some cases, water delivery infrastructure that is over 50 years old can be considered a historic property that is subject to review.

If a proposal is selected for initial award, the successful applicant will work with Reclamation to complete the Section 106 process. Compliance can be accomplished in several ways, depending on how complex the issues are, including:

- If Reclamation determines that the proposed project does not have the potential to cause effects to historic properties, then Reclamation will document its findings and the Section 106 process will be concluded. This can take anywhere from a couple of days to one month.
- If Reclamation determines that the proposed project could have effects on historic properties, a multi-step process, involving consultation with the State Historic Preservation Officer and other entities, will follow. Depending on the nature of the project and impacts to cultural resources, consultation can be complex and time consuming. The process includes:
 - A determination as to whether additional information is necessary.
 - o Evaluation of the significance of identified cultural resources.
 - Assessment of the effect of the project on historic properties
 - A determination as to whether the project would have an adverse effect and evaluation of alternatives or modifications to avoid, minimize, or mitigate the effects.

- A Memorandum of Agreement is then used to record and implement any necessary measures. At a minimum, completion of the multi-step Section 106 process takes about two months.
- Among the types of historic properties that might be affected by projects proposed under this NOFO are **historic irrigation systems** and **archaeological sites.** An irrigation system or a component of an irrigation system (e.g., a canal or headgate) is more likely to qualify as historic if it is more than 50 years old, if it is the oldest (or an early) system/component in the surrounding area, and if the system/component has not been significantly altered or modernized. In general, proposed projects that involve ground disturbance, or the alteration of existing older structures, are more likely to have the potential to affect cultural resources. However, the level of cultural resources compliance required, and the associated cost, depends on a case-by-case review of the circumstances presented by each proposal.

You should contact your State Historic Preservation Office and your local Reclamation office's cultural resources specialist to determine what, if any, cultural resources surveys have been conducted in the project area. See www.usbr.gov/cultural/crmstaff.html for a list of Reclamation cultural resource specialists. If an applicant has previously received Federal financial assistance it is possible that a cultural resources survey has already been completed.

H.1.3 Endangered Species Act

Pursuant to Section 7 of the ESA, each Federal agency is required to consult with the U.S. Fish and Wildlife Service (USFWS) or the National Oceanic and Atmospheric Administration (NOAA) Fisheries Service to ensure any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of any endangered or threatened species or destroy or adversely modify any designated critical habitat.

Before Reclamation can approve funding for the implementation of a proposed project, it is required to comply with Section 7 of the ESA. The steps necessary for ESA compliance vary, depending on the presence of endangered or threatened species and the effects of the proposed project. A rough overview of the possible course of ESA compliance is:

- If Reclamation can determine that there are no endangered or threatened species or designated critical habitat in the project area, then the ESA review is complete and no further compliance measures are required. This process can take anywhere from one day to one month.
- If Reclamation determines that endangered or threatened species may be affected by the project, then a **Biological Assessment** must be prepared by Reclamation. The Biological Assessment is used to help determine whether a proposed action may affect a listed species or its designated critical habitat. The Biological Assessment may result in a determination that a proposed action **is not likely to adversely affect** any endangered or threatened species. If the USFWS/NOAA Fisheries Service concurs in writing, then no

further consultation is required and the ESA compliance is complete. Depending on the scope and complexity of the proposed action, preparation of a Biological Assessment can range from days to weeks or even months. The USFWS/NOAA Fisheries Service generally respond to requests for concurrence within 30 days.

• If it is determined that the project is likely to adversely affect listed species, further consultation (formal consultation) with USFWS or NOAA Fisheries Service is required to comply with the ESA. The process includes the creation of a Biological Opinion by the USFWS/NOAA Fisheries Service, including a determination of whether the project would jeopardize listed species and, if so, whether any reasonable and prudent alternatives to the proposed project are necessary to avoid jeopardy. Nondiscretionary reasonable and prudent measures and terms and conditions to minimize the impact of incidental take may also be included. Under the timeframes established in the ESA regulations, the Biological Opinion is issued within 135 days from the date that formal consultation was initiated, unless an extension of time is agreed upon.

The time, cost, and extent of the work necessary to comply with the ESA depends upon whether endangered or threatened species are present in the project area and, if so, whether the project might have effects on those species significant enough to require formal consultation.

ESA compliance is often conducted parallel to the NEPA compliance process and, as in the case of a CEC, documented simultaneously. The best source of information concerning the compliance with the ESA in a particular project area is the local Reclamation environmental staff that can be helpful in determining the presence of listed species and possible effects that would require consultation with the USFWS or NOAA Fisheries Service. Contact your regional or area Reclamation office, www.usbr.gov/main/offices.html with questions regarding ESA compliance issues.



Appendix A. Benefit Quantification and Performance Measures

The following information is included to provide applicants additional guidance on preand post-project benefit quantification.

All WaterSMART Grants applicants are required to propose a method (or "performance measure") of quantifying the actual benefits of their project once it is completed. Actual benefits are defined as water actually conserved or better managed, as a direct result of the project. A provision will be included in all assistance agreements with WaterSMART Grants recipients describing the performance measure and requiring the recipient to quantify the actual project benefits in their final report to Reclamation upon completion of the project.

Quantifying project benefits is an important means to determine the relative effectiveness of various water management efforts, as well as the overall effectiveness of WaterSMART Grants.

The following information is intended to provide applicants with examples of some acceptable methods that may be used to estimate benefits pre-project and to verify benefits upon completion of the project. However, the following is not intended to be an exhaustive list of acceptable performance measures. Applicants are encouraged to propose alternatives to the measures listed below if another measure is more effective for the particular project.

Reclamation understands that, in some cases, baseline information may not be available, and that methods other than those suggested below may need to be employed. If an alternative performance measure is suggested, the applicant must provide information supporting the effectiveness of the proposed measure as it applies to the proposed project.

Performance Measure A: Projects with Quantifiable Water Savings

The methods included below are examples that may be helpful in estimating the water conservation that will be realized upon completion of the proposed project and to verify this amount post-project.

Performance Measure A.1: Canal Lining/Piping

Canal lining or piping projects are implemented to decrease or eliminate canal water seepage and evapotranspiration. The following information may be helpful in estimating the water conservation that will be realized upon completion of the proposed project and to verify this amount post-project.

Pre-project estimation of benefits:

To calculate potential water savings, physical measurements of losses from seepage, evaporation, and/or transpiration are necessary. If evaporation will not be mitigated by the project (e.g., canal lining), evaporative losses should be estimated and deducted from the estimated water conservation. Two testing procedures which can be used are listed below:

- **Ponding tests:** Conduct ponding tests along canal reaches proposed for lining or piping. At least two tests, one early and one late season, are suggested since seepage rates vary significantly during the irrigation season. Multiple years of data are also suggested. Ponding test results should be provided in terms of both acre-feet per year (AFY) of seepage and cubic feet of seepage per square feet of canal surface per day (cfs/sf/day).
- Inflow/outflow testing: Measure the flow rate of water flowing in and out of the canal reach. At least two tests, one early and one late season, are suggested since seepage rates vary significantly during the irrigation season. Multiple years of data are also suggested. Inflow/outflow test results should be provided in terms of both AFY of seepage and cubic feet per second of seepage per cubic feet per second of canal flow per mile of canal (cfs/sf/mile).

If ponding or inflow/outflow tests cannot be performed, estimated historical seepage and evaporation rates for the canal reach may be based on a combination of soils/geology conditions, flow rates, diversion rates, irrigation methods and crops, weather information, and historical knowledge. Soils/geologic conditions can not represent the sole source for estimating seepage losses, but can be included as support for an estimate. Evaporation data are available at www.weather.gov/media/owp/oh/hdsc/docs/TR34.pdf. A discussion should be included on why ponding or inflow/outflow tests cannot be performed that also includes a thorough description of the logic used in the estimation calculations performed.

Post-project methods for quantifying the benefits of canal lining or piping projects:

- Using tests listed above, compare pre-project and post-project test results to calculate
 water savings. For canal lining projects, evaporation should be calculated based on
 weather data and then subtracted from the total loss measured by testing. For piping
 projects, it is typically assumed all seepage and evaporation are eliminated with most
 types of pipe materials.
- If ponding or inflow/outflow tests cannot be performed, benefits can be calculated by comparing the estimated historical seepage and evaporation rates for the canal reach to the post-project seepage and evaporation (documentation of proposed method of measuring or estimating post-project seepage and evaporation should be provided).
- Results can be verified using a ratio of historical diversion and delivery rates if adequate data exists. The adequacy of the data should be discussed with regard to methods used to measure diversion and delivery quantities. This type of verification should also include a

comparison of historical canal efficiencies and post-project canal efficiencies. For example, if an irrigation district needs to divert 6 acre-feet of water to deliver 2 acre-feet of water to a field through the canal pre-project, this would be a 33% efficiency:

$$\frac{2 \ acrefeet}{6 \ acrefeet} \times 100\% = 33\%$$
 efficiency

If post-project, the irrigation district only needs to divert 4 acre-feet of water through the canal to deliver the 2 acre-feet, efficiency would improve by 17% to 50%:

$$\frac{2 \ acrefeet}{4 \ acrefeet} \times 100\% = 50\% \ efficiency$$

• Record reduction in water purchases by shareholders and compare to historical water purchases. Using this method would require consideration and explanation of other potential reasons for decreased water purchases (e.g., precipitation, temperature, etc.).

Useful references regarding canal seepage monitoring and verification include:

- Water Measurement Manual at www.usbr.gov/tsc/techreferences/mands/wmm/index.htm
- Measurement of Seepage Losses from Irrigation Canals www.usbr.gov/tsc/techreferences/hydraulics lab/pubs/PAP/PAP-0015.pdf
- Measuring Seepage Losses from Canals Using the Ponding Test Method gfipps.tamu.edu/files/2019/12/B-6218 Measuring-Seepage-Losses.pdf

Performance Measure A.2: Measuring Devices

Good water management requires accurate and timely water measurement at appropriate locations throughout a conveyance system. This includes irrigation delivery systems and municipal distribution systems.

Measuring Devices: A.2.a. Municipal Metering

For projects that install or replace existing municipal end-user water service meters, the applicant should consider the following:

- Whether the project includes new meters where none existed previously or replaces existing meters
- Whether the project includes individual water user meters, main line meters, or both
- If the project replaces existing individual water user meters with new meters, whether new technologies (e.g., automatic meter reading [AMI] meters) will be employed
- Include a description of both pre- and post-project rate structuring.

The following information about municipal end-user water service meters and replacement may be helpful in estimating the water conservation that will be realized upon completion of the proposed project and to verify this amount post-project:

- Municipal water delivery meters are typically installed for each water user as well as at strategic locations within the distribution system to measure production, supply, and/or storage. Accurate measurement allows for demand assessments, customer billing, diagnostic testing, locating and quantifying leakage, and other management needs.
- Significant water savings can be achieved when meters are installed where none existed previously. In the case of individual water user metering, most customers use significantly less water when billed at a usage rate; and especially so when a tiered rate is applied (i.e., higher rates for higher use). Replacing existing meters can also result in water savings when new technologies are employed.
- Quantifying savings associated with meter installation and/or replacement requires analysis of pre- and post-installation measurements from existing meters at strategic locations within the system. If installing meters will result in conserved water, please provide support for this determination (e.g., studies, previous projects, etc.). A logical scheme should be developed that compares pre- and post-installation flow quantities and that accounts for leakage and other considerations. The site-specific water savings verification plan should be as detailed as possible and clearly state all assumptions and the relative level of accuracy expected. In addition, please provide details underlying any assumptions being made in support of water savings estimates (e.g., residential users will reduce use once a more advanced billing structure is imposed).

Measuring Devices: A.2.b. Irrigation Metering

Measuring devices that may be installed can include, but is not limited to:

- Flow meters (current or acoustic)
- Weirs
- Flumes
- Meter gates
- Submerged orifices

Potential benefits from improved irrigation delivery system measurement include being able to:

- Quantify system losses between measurement locations
- Quantify waste way (spill) flows
- Accurately bill customers for the actual amount of water delivered

- Facilitate accurate and equitable distribution of water within a district
- Allow for implementing future system improvements such as seepage reduction, remote flow monitoring, and canal operation automation projects

The following performance measures may be helpful in estimating the water conservation that will be realized upon completion and to verify this amount post-project for improved irrigation delivery system measurement.

Pre-project estimations of baseline data:

- Pre-project flows may be difficult to estimate without a measuring device in place. Ideally, temporary measurement devices or other methods to estimate flow rates may be used to estimate flow rates as accurately as possible.
- In lieu of temporary measurement devices, the applicant may be able to use data from measurement devices located elsewhere in the delivery system (if available). Otherwise, the applicant may have to rely on other historical data and/or estimates based on a combination of soils/geology, delivery data, flow data, and weather data.

Post-project methods for quantifying the benefits of projects to install measuring devices:

- Compare post-project water measurement (deliveries, diversions, and waste/spills) data to pre-project data or estimates—taking into account other factors which may have cause changes
- Survey users to determine utility of the devices for decision making
- Present how measurement devices were used to identify water losses which were previously unknown and how these will be addressed
- Document the benefits of any rate structure changes made possible by the installation of measuring devices (e.g., if districts that convert from non-metered to metered deliveries are able to convert from billing water users at a flat rate to billing for actual water use using a volumetric or tiered water pricing structure)

A.1.3 Performance Measure A.3: SCADA and Geographic Information Systems

Proposals may involve installing or expanding a SCADA or combined SCADA/GIS system that monitors flows in an individual district or in a basin that includes several districts. SCADA systems provide water managers with real-time data on the flow rates and volumes of water at key points within an irrigation water delivery system. Access to such data allows water managers to make accurate and timely deliveries of water, reducing over-deliveries and spillage at the end of the canal. SCADA/GIS systems can provide water users with real time delivery data to promote improved on-farm efficiencies.

For projects that install or expand a SCADA and/or GIS system, the applicant should consider the following:

- How SCADA or SCADA/GIS implementation will differ from pre-project operations in terms of how improved data availability will be incorporated into daily operational decisions
- How the SCADA or SCADA/GIS systems will be maintained once implemented. Discuss balance of in-house expertise anticipated vs. reliance on third party service provider(s)
- The projected opportunities for improved operational efficiencies that could be realized through implementation of a SCADA or SCADA/GIS system (e.g., improved delivery equity, improved response to unanticipated events, reduced administrative spillage, and enhanced productivity of human resources)
- The response process to SCADA or SCADA/GIS failures/outages
- Applicants are encouraged to review published reports on considerations when implementing a SCADA system (e.g., Freeman, B. and C. Burt, 2009. Practical experience with state-of-the-art technologies in SCADA systems, Irrigation Training and Research Center, California Polytechnic State University, San Luis Obispo, California.)

The following performance measures may be helpful in estimating the water conservation that will be realized upon completion and to verify this amount post-project for installing a SCADA or SCADA/GIS system.

Pre-project estimations of baseline data:

- Collect data on diversions and deliveries to water users
- Collect data on waste way flows
- Document employee pre-project time spent on ditch/canal monitoring and water control

Post-project methods for quantifying benefits of SCADA or SCADA/GIS system projects:

- Calculate amount of increased carryover storage in associated reservoirs. This is a long-term measure which will be more meaningful over a period of years.
- Track and record the diversions to water users and compare to pre-project diversions.
 This would show results of improved management if yearly fluctuations in weather are accounted for.
- Report delivery improvements (e.g., changes in supply, duration, or frequency that are available to end users because of SCADA/GIS).
- Calculate if there was a reduction in wasteway flows and, if so, how much they were reduced.

• Document other benefits such as less mileage by operators on dusty roads (which saves time and influences air quality) and less damage to canal banks.

A.1.4 Performance Measure A.4: Automation

Proposals may include system automaton projects aimed at *preventing or reducing* spillage from canals, or drainage capture/reuse projects focused on *intercepting* spills and redirecting them to drains, canals, or reregulation reservoirs for reuse.

For projects that automate a system, the applicant should consider the following:

- The rationale of long-term automation plans (e.g., system-wide project vs. incremental implementation).
- Whether automation at given sites will result in heightened operational issues in other parts of the system (e.g., passing supply/demand mismatches downstream).
- How automation technologies will be maintained (e.g., discuss balance of in-house expertise anticipated vs. reliance on third party service provider[s]).
- The anticipated net benefits of implementing an automation project.
- Applicants are encouraged to review published reports on considerations when implementing an automation system (e.g., Freeman, B. and C. Burt 2009).

The following performance measures may be helpful in estimating the water conservation that will be realized upon completion and to verify this amount post-project for automating delivery system components.

Pre-project estimations of baseline data:

- Establish baseline data by measuring existing spillage or document historical spillage with existing data. A measuring device should be positioned to measure spillage losses. To account for temporal variations, a minimum of a one-year history of continuous preproject measurements is desirable for future comparison to post-project water usage. Spillage volumes can vary substantially between wet and dry years, operational changes, etc.; therefore, some multi-year estimates of spillage are preferred.
- Track pre-project water diversions using district diversion records, supplier diversion records, and/or district-recorded delivery records. Spillage estimates may be based on these data in some cases.

Post-project methods for quantifying benefits of spillage reduction projects:

• Measure spillage losses post-project and compare to pre-project data. Gather enough data to account for seasonal and temporal variations.

- Track post-project changes in the amount of water diverted and compare to pre-project diversion data.
- Compare estimated historical spills from district/project boundaries to post-project spills.
- Report specific annual volume changes to spills, diversions, or deliveries due to system automation.

A.1.5 Performance Measure No. A.5: Drain and Spill Water Reuse Projects

Drain and spill water reuse can be a district-level or regional conservation effort that consists of recovering irrigation water from drains and returning it to the water supply system for delivery to users.

Several types of projects can focus on drainage and reuse. Examples include:

- Pump stations with constant flow rates.
- Variable speed pump stations with or without SCADA controls.
- Storage reservoirs with pump stations at constant flow rates.
- Storage reservoirs with variable speed pump stations and SCADA controls.

The following performance measures may be helpful in estimating the water conservation that will be realized upon completion and to verify this amount post-project for drainage reuse projects:

Pre-project estimations of baseline data:

- A measuring device should be positioned to measure drain water losses.
- To account for temporal variations, a minimum of a one-year history of pre-project measurements is desirable for future comparison to post-project water usage.
- Drainage volumes can vary substantially between wet and dry years, as a function of operations, etc. Therefore, some multi-year measurements of drain water losses may be necessary.

Post-project methods for quantifying benefits of drainage reuse projects:

- Measure post-project drainage flows and compare to flow data collected pre-project.
- Gather enough data to account for temporal variations.

• Take readings from measuring devices positioned to measure drain water loss. A system analysis can be done with the following calculation:

Drainage with project = $(100\% - \% Reuse) \times Drainage$ without project

- Measure and record post-project water deliveries to fields, drainage water volumes entering reservoirs, and drainage water volumes recycled to fields. Compare these data to historical data.
- Survey farmers and estimate any benefits to farmers, such as improved flexibility in water management, reduction in shortages of supply to users near the end of the canal, etc. If it is not possible to quantify these benefits in acre-feet, a narrative explanation may be acceptable.

A.1.6 Performance Measure A.6: Landscape Irrigation Measures

Municipal water providers can promote savings in outdoor water use by encouraging turf removal and installation of Smart irrigation controllers, controllers with rain sensor shutoff, drip irrigation, and high-efficiency irrigation nozzles (sprinkler heads). This is typically accomplished through rebate or direct installation programs.

Landscape Irrigation Measures: A.6.b. Turf Removal

For turf removal projects, the applicant should consider the total estimated quantity of turf to be removed, the estimated historical annual average quantity of water applied per unit area of turf, and the estimated amount of water to be applied to any replacement landscape vegetation.

Pre-project estimations of baseline data:

The historical average amount of water applied for turf irrigation should be estimated based on actual water consumption data or weather-based theoretical irrigation requirement estimates. Potential methods include the following:

• Dedicated meter data. Municipal water delivery entities often have users where dedicated irrigation meters exist (e.g., parks, homeowners' associations, and golf courses). If so, metered water use can be divided by the irrigated area to calculate the average annual irrigation rate per unit area of turf. The greater the number of years of data used, the better the averages should be with regard to varying weather conditions.

Also, when using this information, consider that parks and golf courses typically irrigate more efficiently relative to residential irrigation, so the actual turf removal savings for all types of users would be expected to be higher.

- Winter/summer use data. In the absence of dedicated irrigation meter data and where irrigation ceases during winter months, summer versus winter water use data can be compared to estimate irrigation use. This can be analyzed for a sample of users and combined with an estimate of the total area irrigated. An average turf irrigation rate can be calculated.
- Theoretical irrigation requirement. In areas where winter irrigation occurs and dedicated irrigation meter data are not available, weather data can be used to estimate theoretical irrigation demand. These calculations consider reference evapotranspiration (ET) values from local weather stations, a crop coefficient for the type of grass, and an assumed average irrigation efficiency rate.
- Assumed domestic use rate. An alternative method for calculating theoretical irrigation demand subtracts the assumed domestic (indoor) water use rates from total use. Domestic water use can be estimated based on household size and an assumed per person indoor usage rate. The age of the community and existence of high-efficiency appliances and fixtures should be considered in the per-person domestic use rate. A thorough explanation relating the source of the estimated domestic use percentage to the users in the turf-removal area should be supplied.

Post-project methods for quantifying benefits of turf removal projects:

- Site audits can be performed to measure the amount of turf removed at each location and report on the water use for any vegetation which was placed in the area were turf was removed. The water conservation per site can be calculated using the pre-project turf irrigation rate and the measured area of turf removed minus estimated water use of any replacement landscape vegetation.
- Before and after water use data for each site should be evaluated using at least one year of post-project data. Weather conditions for the pre- and post-project data evaluation periods should be considered, and adjustments should be made if conditions were significantly different during the pre- and post-periods.
- The project total savings should be calculated by summing the individual site savings.

Landscape Irrigation Measures: A.6.b. Smart Irrigation Controllers and Controllers with Rain Sensor Shutoff

A Smart irrigation controller automatically adjusts the amount of irrigation water applied to landscaped areas based on weather or soil moisture conditions. Weather based controllers receive weather information from either onsite sensors or from remote weather stations via radio, pager, or Internet signals. Soil moisture-based controllers receive soil moisture information from one or more onsite sensors. Smart controllers have the potential to reduce landscape irrigation water use in situations where the landscape was initially being over-irrigated. In some cases, installation of Smart controllers has resulted in an increase in water use in situations where the landscape was initially being under-irrigated. For this

reason, it is important to identify landscapes which are being over-irrigated prior to installation of a Smart controller.

Some timer-based irrigation controllers are equipped with an automatic shutoff mode that is triggered by a signal from a connected rain sensor. This prevents irrigation cycles from commencing or suspends irrigation when there is rainfall.

The following performance measures may be helpful in estimating the water conservation that will be realized upon completion and to verify this amount post-project for installing Smart controllers and controllers with rain sensor shutoff.

Pre-project estimations of baseline data:

The historical average annual amount of water applied for landscape irrigation for each project site should be estimated based on actual water use data. Note: Weather-based theoretical irrigation requirement estimates are not suitable for baseline estimations as this is typically the method implemented by the Smart controller for estimating irrigation times. Ideally, post-project the landscape will be being irrigated at this rate. Suggested methods include the following:

- Site audits should be conducted at each location within the project to measure landscape area and estimate the irrigation system's efficiency. Site audit-based recommendations for system efficiency improvement are strongly recommended.
- The historical average annual landscape irrigation rate per unit area should be estimated using the dedicated meter data, winter/summer use data, or assumed domestic use rate methods discussed under the turf removal section.
- The total annual average water irrigation amount for each site should be calculated as the product of the landscape area and annual average application rate. These can be summed to estimate the water conservation for the project.

Post-project suggested methods for quantifying benefits of ET controllers:

Total project water savings can be estimated as the difference in annual pre- and post-project total metered water use or the difference in estimated annual outdoor water use. For the latter, irrigation use should be calculated at each site based on pre- and post-project meter data using the methods described under turf removal. Regardless of whether total metered usage or estimated outdoor use is used, weather conditions during the data periods should be considered (as also discussed under turf removal).

- Compare annual meter reading totals or estimated outdoor use prior to Smart controller installation and post installation for each site and sum all for project total.
- If results are required earlier, the calculations can also be performed monthly.

Landscape Irrigation Measures: A.6.c. Drip Irrigation and High-Efficiency Nozzles

High-efficiency landscape irrigation nozzles (sprinkler heads) and drip irrigation emitters apply water more uniformly and at a lower rate relative to conventional type nozzles. Improved application uniformity reduces the need to over-irrigate some areas in order to eliminate brown spots in turf. The lower application rate reduces runoff and while the stronger stream of water is less effected by wind. **Note: The lower application rate can require that irrigation times be increased in order to adequately irrigate the landscape.**

Pre-project estimations of baseline data

Total irrigation water use for the project should be estimated using the same methods described above for turf removal and Smart controllers.

Post-project suggested methods for quantifying benefits of ET controllers:

Site audits should be conducted to verify correct installation, and water savings can be verified using the same methods as described above for Smart controllers (i.e., pre-project minus post-project total use or irrigation use from meter data). Site audits should include evaluation of irrigation system operations to verify adjustments have been made to compensate for the new nozzles.

A.1.7 Performance Measure A.7: Commercial Cooling Systems

- Water and energy savings can be realized by replacing or retrofitting outdated lowefficiency cooling towers. Numerous options exist for replacing or retrofitting existing
 cooling towers. Replacing existing towers with new higher efficiency open- and closedcircuit and closed-circuit with adiabatic heating systems and/or retrofitting existing
 towers can reduce water and energy demands.
- Pre-project estimations of baseline data
- Evaluate historical water and energy consumption data for existing system.
- Provide documentation on cooling tower system to be installed and/or provide a detailed description of existing system retrofit with basis for anticipated water and energy consumption.

Post-project suggested method for quantifying water and energy savings

• Compare pre-project consumption data relative to post-project data with consideration of any relevant factors such as chance in size or capacity.

A.2 Performance Measure B: Projects with Renewable Energy Benefits

The performance measures included below are examples that may be helpful in estimating a pre-project energy baseline and post-project energy benefits for energy projects that are expected to increase the use of hydropower in the management and delivery of water.

For hydropower projects, applicants should address the following as part of the performance measures they submit with their applications.

- Explain the methodology for calculating project hydropower capacity and generation benefits.
- Include an estimate of incremental hydropower capacity (measured in kilowatts) and annual generation (measured in kilowatt hours) resulting from the project.
- Describe what loads will be served by project hydropower generation.