



Energy Smart Reserved Power (ESRP) PROGRAM FY25 SOLICITATION WEBINAR

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Audio
instructions

Welcome to BPA's ESRP Program

Webex Meeting!

Note: **Your audio is muted upon entry.**

Audio connection **Preferred choice**

Use computer audio

Call me at +1

Call in

Don't connect to audio

Note: The incoming call may be listed as **POTENTIAL SPAM**.

Second choice: In the example above, instead select **Call in** and use your phone to call into the webinar. A window will pop-up with your meeting **Call in** information.

Call In

Call in from another application

1 **Call**

+1-415-XXX-XXX

2 **Enter**

Access code: XXX XXX XXXX #

Attendee ID: XXXXXX #

Last choice: Use Computer for Audio. Connect a headset to your computer for best results.

Use to mute
and unmute

Use to
express
emotion

Use to view
participant list
and chat panel

AGENDA

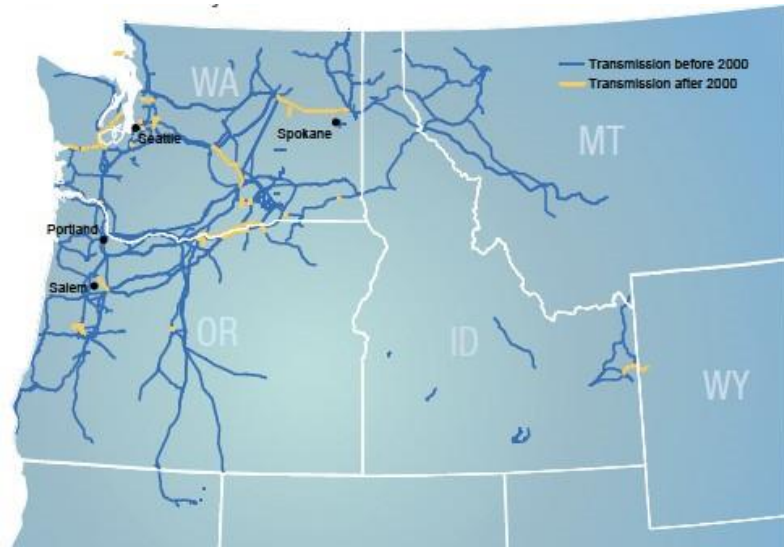
- ESRP Program overview
- FY24 Project Highlights
- Available FY25 budget \$\$ and incentive application timeline
- How to participate in the FY25 incentive application process
- Available resources to aid you in the application process
- Q&A



Aerial view of Kerr Dam,
located near Polson, MT

ESRP Program Overview

WHO IS BPA?



Owens, operates and maintains 15,000 circuit miles of transmission

- Non-profit federal power marketing administration based in the PNW (US DOE Agency)
- Markets wholesale energy from 31 dams operated/owned by US ACE & US BOR
- Provides 28% of electricity consumption in the PNW (nearly carbon free)
- Power Act of 1980 expanded BPA's charter to acquire least cost generation resource (Energy Efficiency)

MEET THE TEAM



TWO TYPES OF Eligible ESRP Program PARTICIPANTS

RESERVED POWER LOADS*

- 26 Independently operated, federally-chartered irrigation districts
- 2 Federally-operated irrigation districts (US Bureau of Indian Affairs)
- 2 Federal Hatcheries (US Fish & Wildlife Service)

STATION SERVICE FACILITIES

- Some BPA Transmission Facilities, which include:
 - Control Houses
 - Maintenance Shops
 - Yard Lighting
- Federally-owned & operated dams:
 - US Bureau of Reclamation
 - US Army Corps of Engineers

*Eligible for first priority funding through Open Enrollment Window

ACHIEVEMENTS FROM 2016 to 2023

ESRP Program-
delivered
incentives

\$14.4M



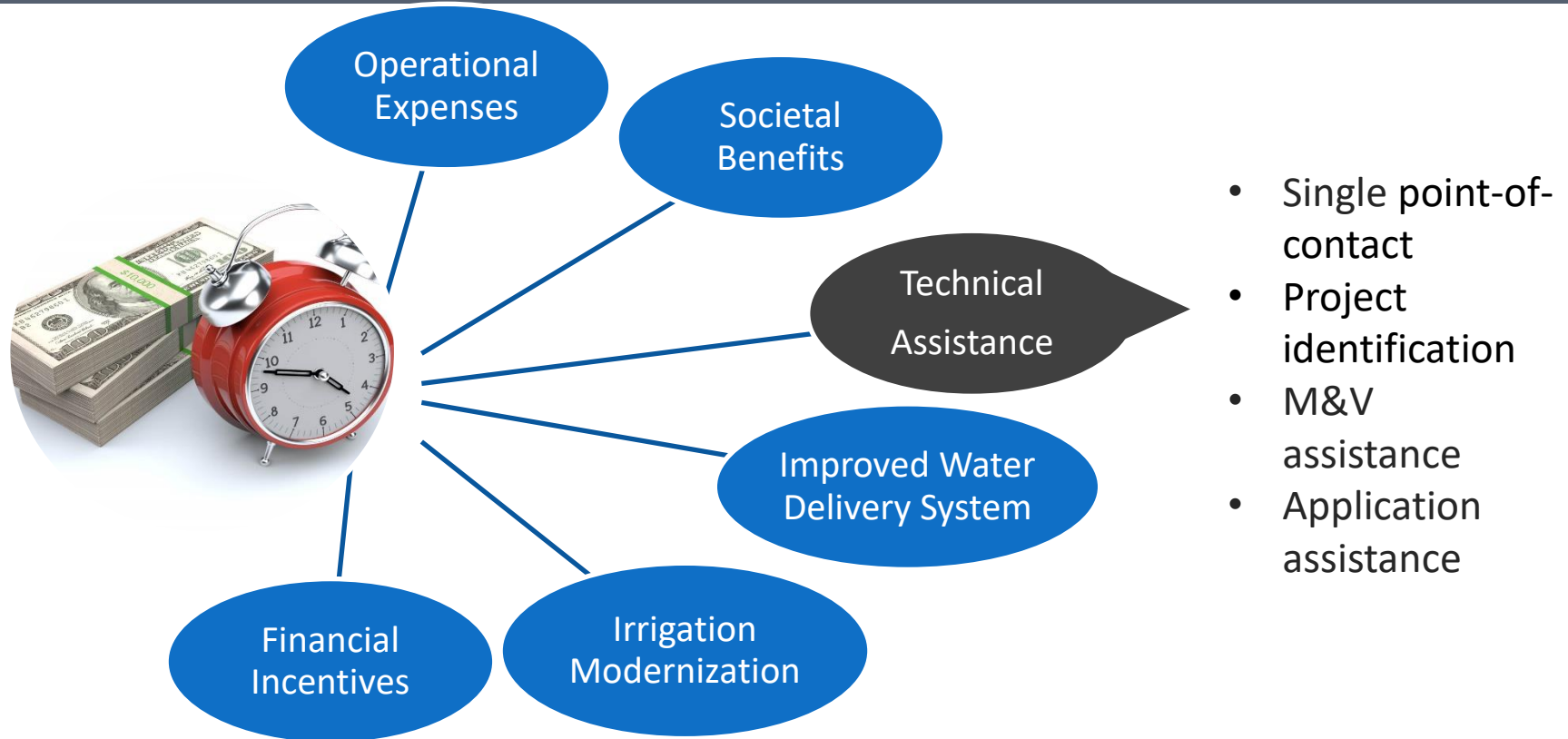
**10.8
aMW**

in energy
savings

90% of these savings are attributed
to Irrigation District participation

**Irrigation Districts have created added generation of
12.79 aMW through water conservation efforts**

PROGRAM BENEFITS



FY24/25 Solicitation

October 1, 2023 to September 30, 2025

FY24/25 Solicitation

Status

FY24 is Closed.
Accepting !
Applications for
FY25

Budget

\$4.0 Million Total
\$2.0 Million FY24
\$2.0 Million FY25

Funds Available

For FY24, \$0
For FY25, \$1.5M

Project Completions

October 1, 2023 to
September 30,
2025

FY24 Project Highlights

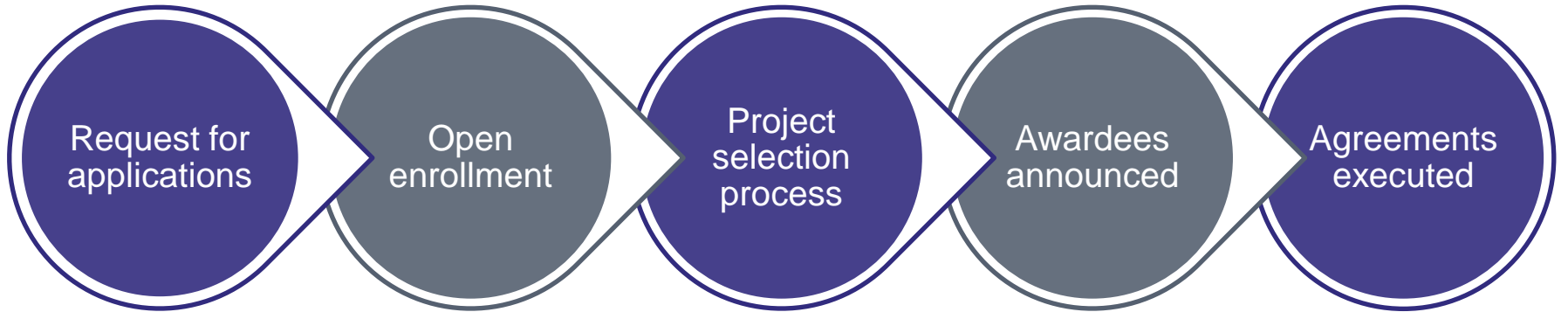
Participant	EE Project Description	Incentive/Rebate	Annual Energy Savings kWh	Annual Energy Savings aMW
Irrigation District	Automated Gate Controls	\$ 323,500.00	4,404,691	0.5028
Irrigation District	Pump Efficiency Upgrades	\$ 44,800.00	135,234	0.0154
Irrigation District	Open Canal Conversion	\$ 272,745.00	2,203,576	0.2515
Irrigation District	Efficient Pumps. VFDs for Pumps	\$ 293,100.00	857,212	0.0979
Irrigation District	Canal Lining wih Autogates	\$ 399,733.65	2,385,123	0.2723
Irrigation District	Canal Lining	\$ 69,122.64	503,030	0.0574
Irrigation District	Pump Efficiency Upgrades	\$ 14,156.00	61,786	0.0071
Irrigation District	Canal Upgrade	\$ 7,200.00	148,620	0.0170
Irrigation District	Efficient Pumps. VFDs for Pumps	\$ 15,300.00	70,503	0.0080
Irrigation District	Efficient Pumps. VFDs for Pumps	\$ 121,342.00	468,649	0.0535
Irrigation District	Water Delivery Upgrades	\$ 126,000.00	392,400	0.0448
Irrigation District	Phase 2	\$ 63,257.00	260,576	0.0297
Irrigation District	Pump Efficiency Upgrades	\$ 18,095.00	59,950	0.0068
Station Service	Lighting Upgrade	\$ 20,149.56	61,008	0.0064
Station Service	Lighting Upgrade	\$ 2,512.00	10,950	0.0011
Station Service	Lighting Upgrade	\$ 4,228.00	18,433	0.0019
Station Service	Lighting Upgrade	\$ 64,069.75	136,060	0.0145
Station Service	Lighting Upgrade	\$ 97,976.50	136,060	0.0145



FY24/25 SOLICITATIONS TIMELINE

Ongoing until FY25 funds are exhausted or 03/31/2025

Spring 2023

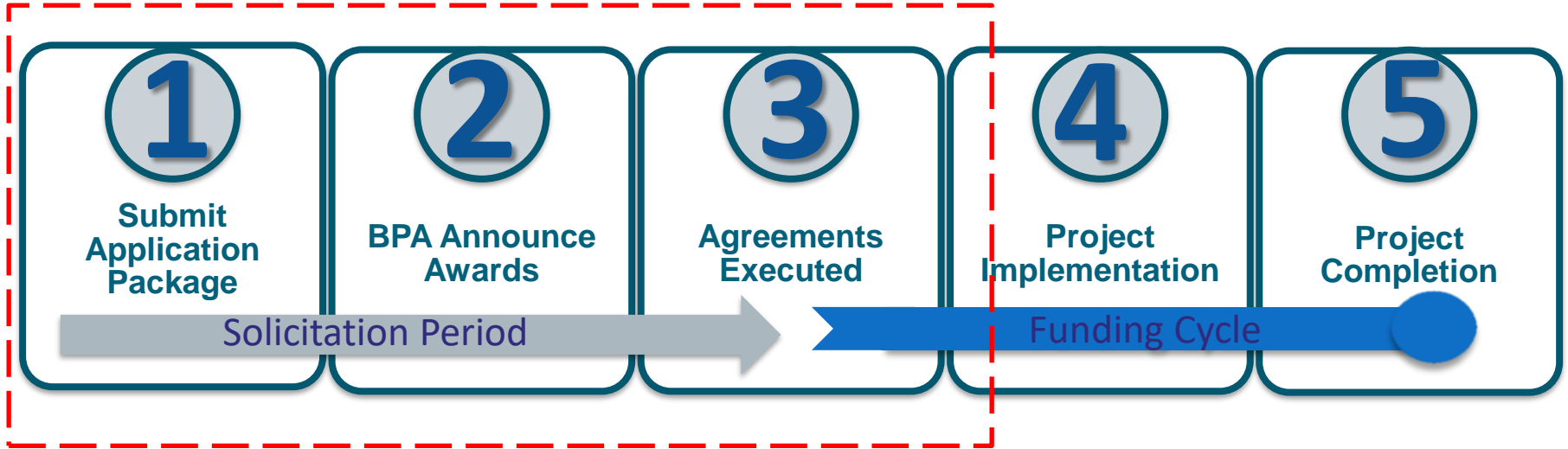


WHAT IS A SOLICITATION



- BPA is inviting YOU to apply
- A competitive application process with deadlines to review, rank, and evaluate applications based on cost-benefit analyses
- Starts prior to the launch of the Funding Cycle from *Open Enrollment to Agreement Execution*

STEPS TO PARTICIPATE



STEP 1: Requirements

1

Submit Application Package

- Application
- Proposal/bid
- Calculator/PIF(s)

- **Application Resources available**
 - Measure Reference Guide
 - Incentive Rate Reference Table(s)
 - Visit Resources and Tools section >> Getting Started
- **Applications must be submitted by deadlines**
 - Visit ESRP Program Funding Cycle section for timelines and funding status
- **Proposed projects must adhere to program policies**
 - Visit **Frequently Asked Question** section for program policies
- ***If applicable, complete Calculators and Project Information Forms (PIFs)***
 - *Measure Reference Guide indicates which measures require calculators or PIFs*
 - *Visit Resources and Tools >> Required Support Documents*

APPLICATION REVIEW



BONNEVILLE POWER ADMINISTRATION

ESRP Program Incentive Application

The ESRP budget is renewed annually, and is subject to change. Open Enrollment projects with the greatest regional benefit have funding priority; however, funding is not guaranteed. Open Season applications will be reviewed on a first-come first-serve basis once priority awards have been announced. Once funds have been depleted for a funding cycle, no new applications will be accepted. However, the application may qualify for funding in sequential funding cycles if funds are available. Visit the ESRP program website for funding cycle statuses.

SELECT APPLICATION WINDOW (Choose One):

- Open Enrollment Window (first priority funding). Application must be received by Friday, June 30, 2023. Reserved Power participants only.
- Open Season (first-come first-serve). Application should be received by April 30, 2025. All participants.

A multi-year application represents a project with multiple phases (or components) with completion dates that occur in different funding cycles. Each phase must entail energy efficiency measure(s) with distinct, quantifiable energy savings and project costs. Whereas, a single year application includes one or more measures that will be completed in the same funding cycle.

SELECT FUNDING CYCLE* (Select one for single year application or multiple for a multi-year application):

- FY23 (Oct 1, 2022 to Sep 30, 2023)
- FY24 (Oct 1, 2023 to Sep 30, 2024)
- FY25 (Oct 1, 2024 to Sep 30, 2025)

* Contingent upon available funding availability.

A. APPLICANT INFORMATION

Applicant Entity		Federal TIN	
Address	City	State	Zip
Technical Contact	Phone	Email	
Administrative Contact	Phone	Email	
Agreement Signatory	Phone	Email	

Select Application Type

- A. Applicant Information
- B. Project Proposal
- C. Project Savings
- D. Project Financials (Part I & II)
- E. M&V Plan
- F. Applicant Certification



Tips: (B) Project Proposal

Project Summary	
Enter brief project summary. (1 to 3 sentences)	
Optimize Water Delivery System. Project entails: Replace (1) existing pump, (1) replace existing pump with VFD, install canal lining in open ditches, and replace (3) thermostats	
Existing System (baseline) – include applicable meter #, pump # or other identifiers	Proposed System (post installation) – include model numbers (if known)
Enter current system description.	Enter proposed system description.
1.) Pump #23: 10 hp turbine pump @ meter# XYZ 2.) Pump #12: 10hp centrifugal pump with VFD @ meter# ABC 3.) Open Ditch <West canal> located near Hwy 20; XX of miles 4) Replace (2) thermostats in building A and (1) Building B. HVAC systems = electric forced air	1.) Pump #23: 10hp. model# ABC-01 2.) Pump #12: 10hp pump model# ABC-01; VFD model# RD-003 3.) Install XX miles of Concrete lining 4.) Install (3) smart thermostats

- Keep descriptions simple
- Identify all measures/ components of the project
- Seek technical assistance for measure identification

Tips: (C) Project Savings

When calculating energy savings.....

- Request technical assistance from the Program as needed
- Complete *Required Support Documents* to the best of your ability or seek technical assistance
 - (2) New Pump Project Information Forms
 - (1) Variable Frequency Drive (Existing Pump) Calculator
- Identify measures with water savings and utilize independent studies for water savings
 - Canal Lining

D. Project Financials (Part 1)

	Column A	Column B	Column C	Column D	Column E	Column F	Column G
Measure #	Measure Category	Resource Opportunity Type	Energy Savings (kWh/yr)	Incentive Rate (\$)	Incentive Rate Unit	Quantity	Estimated Incentive (\$)
#1	New Efficient Pump	Retrofit	4,000	\$ 50	per hp	20	\$ 1,000
#2	VFD Centrifugal Pump	Retrofit	2,500	\$ 50	per hp	10	\$ 500
#3	Canal Lining	Retrofit	128,500	\$ 0.45	per kWh	1	\$ 57,825
#4	Connected Smart Thermostat	Retrofit	2925	\$ 150	per unit	3	\$ 450
#5	Select Measure	Choose Resource Type		\$	Choose unit		\$
Total			137,925				\$ 59,775

Columns A, D, & E: Align with the naming conventions found in the Incentive Rate Reference Tables and Measure Reference Guide.

Column C: Section C of application (Project Savings) shows the math. Technical assistance may be requested to complete this portion of application.

Column G:

- **Prescriptive Approach** (see #1, 2 & 4) *(Column D multiplied by Column F)*
- **Custom Approach** (see #3) *(Column C multiplied by Column D)*

Incentive Calculation Table must be completed manually

D. Project Financials (Part 2)

	Column G	Column H	Column I	Column J	Column K
Measure #	Estimated Incentive (\$)	Estimated Measure Cost (\$)	Additional Funds	Adjusted Measure Cost (\$)	Total Estimated Incentive (\$)
#1	\$ 1,000	\$ 15,000	\$ 0	\$ 15,000	\$ 1,000
#2	\$ 500	\$ 8,000	\$ 0	\$ 8,000	\$ 500
#3	\$ 57,825	\$ 250,000	\$ 200,000	\$ 50,000	\$ 50,000
#4	\$ 450	\$ 400	\$ 0	\$ 400	\$ 450
#5	\$ 59,775	\$	\$	\$	\$
TOTAL	\$ 59,550	\$ 273,400	\$ 200,000	\$ 73,400	\$ 51,950

- TOTAL Incentive cannot exceed \$500,000 project cap
- Sum of Total Estimated Incentive (Column K) cannot exceed the Sum of Adjusted Measure Cost (Column J)

Measures 1 & 2: no adjustments;
Column K = Column G

Measure 3: adjusted measure cost due to grant award;
Column K = Column J

Measure 4: no adjustments;
policy applies to the entire project and is not applied at the measure level

E. MEASUREMENT & VERIFICATION

- Define technical requirements of proposed equipment and establish baseline and savings calculation procedures for custom projects
- Ask for technical assistance to...
 - Complete this portion of application
 - Identify energy savings multipliers for prescriptive measures
- An example M&V plan is available online in the BPA M&V Protocol Selection Guide***
- Utilize independent third-party studies for savings calculations

STEP 3: Requirements

3

Agreements Executed

Agreements must be reviewed and signed within 45 days of receipt

- The Agreement is project-specific and outlines the following:
 - Terms and conditions (T&Cs)
 - Maximum allowable incentive amount for project
 - M&V Plan for each measure
- ***An incentive offer is not guaranteed until the Agreement is signed by the participant and BPA.***

Navigating Website Resources

1 How does the program work?

- Step 1: Submit an Application Package +
- Step 2: BPA Announces Awards +
- Step 3: Agreements Executed +
- Step 4: Project Implementation +
- Step 5: Project Completion +

2 ESRP Program Funding Cycle

- 2023 Funding Cycle (Oct. 1, 2022 to Sept. 30, 2023)
- 2024 Funding Cycle (Oct. 1, 2023 to Sept. 30, 2024)
- 2025 Funding Cycle (Oct. 1, 2024 to Sept. 30, 2025)

3 Resources and Tools

- Getting Started +
- Required Support Documents +
- Other Materials +
- Related Links +

4 Frequently Asked Questions

- Program Updates
- General Questions
- Application Process
- Award to Project Closeout

Current Incentive (Rebate) Rates

INCENTIVE RATES

STANDARD MEASURES		Typical Measure Life (Years)	Retrofit Incentive Rate (\$ per kWh/saved)	New Con/ Major Remodel Incentive Rate (\$ per kWh/saved)
WATER DELIVERY SYSTEM IMPROVEMENTS				
Motors/Drives (for irrigation)	New Premium Efficiency Motors	10	\$0.25	\$0.27
	Green Motors (Efficient Rewinds)	www.bpa.gov/energy-and-services/efficiency/industrial/motors		
	Variable Frequency Drives (Turbine Pump)	10	\$100 per hp	\$100 per hp
	Variable Frequency Drives (Centrifugal Pump)	10	\$70 per hp	\$70 per hp
Pumping Improvements	New pump	10	\$70 per hp	\$70 per hp
	Pump Rebuilds	10	\$0.25	NA
	Reduce pumping plant friction loss	30	\$0.40	\$0.40
Sprinkler system improvements on pressurized systems		5	\$0.25	\$0.27
System Lift Reduction		30	\$0.40	\$0.40
Water Delivery	Existing Pipe Lining (CML)	30	\$0.40	\$0.40
	Canal lining	20+	\$0.35	\$0.35
	Canal and Lateral piping (plastic & fiberglass)	30+	\$0.40	\$0.40
Water Management	Advanced On-farm water management	1	\$0.03	\$0.03
	System Upgrades	2-3	\$0.05	\$0.05
	Automated Gates (real-time flow and controls)	4+	\$0.25	\$0.27

INCENTIVE RATES

OTHER IMPROVEMENTS				
Air Compressor system improvements		10	\$0.25	\$0.27
Building Shell	Residential Insulation	20	up to \$2.35 per sqft	up to \$2.35 per sqft
	Non-residential Insulation	20	up to \$2.80 per sqft	up to \$2.80 per sqft
	Residential Windows	30	up to \$16.00 per sqft	up to \$16.00 per sqft
	Non-residential Windows	30	up to \$18.00 per sqft	up to \$18.00 per sqft
Custom Projects		1	\$0.03	\$0.03
		2-3	\$0.05	\$0.05
		4-19	\$0.25	\$0.27
		20+	\$0.35	\$0.35
Distribution Efficiency Improvements		4-19	\$0.25	\$0.25
		20+	\$0.35	\$0.35
Engine Block Heaters		10	\$200 per unit <3kW \$1500 per unit 3kW+	\$100 per unit <3kW \$750 per unit 3kW+
HVAC	Building Automation	18	\$0.25	\$0.27
	Efficient HVAC Equipment	10	\$0.25	\$0.27
	Connected/Smart Thermostats/Advanced RTU controls	5	\$250 per unit	\$100 per unit
	Variable Frequency Drives	10	up to \$300 per hp (VAV)	up to \$300 per hp (VAV)
LED Lighting & controls		10	\$0.25	\$0.27
Water Heating		15	up to \$1,000 per unit	up to \$1,000 per unit

KEY TAKEAWAYS

- Submit your final report for your completed FY24 EE projects
- Submit your incentive application for FY25
 - FY25 Remaining budget is \$1.5M
- We are here to help!

**THANK
YOU**

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