

## **Klickitat PUD Agricultural Energy Efficiency Program Participation Requirements and Instructions**

Thank you for your interest in our Agricultural Energy Efficiency Program. We are pleased that we have the opportunity to offer this service to you through our association with Bonneville Power. Because of this collaboration of funds the information we collect from you is required to help determine your eligibility and may also be used to evaluate and audit data about energy use and the conservation program as a whole. With that, your information may be requested for certain site visits to evaluate the performance of the program and is to be kept available for three years. No personal information will be issued to the public.

The Agricultural Sector includes (1) by a farm or business of which the primary purpose is applying water for food production or vegetation growth (e.g., pumping and irrigation) and (2) by a ranch or aquaculture (aquafarming) business where the primary business is breeding or raising of domestic livestock, poultry, game animals, fish, oysters, etc. The storage and processing of farm products is not agricultural, and rather it is industrial with the exception of dairies and the storage of milk at the milking facility (note that homogenizing, dehydrating and bottling of milk and its derivatives are industrial). A facility may have a mix of both agricultural and industrial measures at the same location (e.g., winery operation with processing facility where the vineyard irrigation is considered agricultural and the grape processing facility is considered industrial).

### **PROGRAM REQUIREMENTS**

All Agricultural measures must be installed according to KPUD, BPA, and manufacturer standards & specifications and are subject to inspection for the approval process. KPUD reserves the right to make changes to all programs and rebates are subject to the availability of funds through the Energy Efficiency Program.

**NOTE TO CONTRACTORS:** Please contact KPUD's Energy Services to obtain specifications and requirements as each measure may require special forms and procedures to be followed. All contractors must be licensed and bonded in the state of Washington and are responsible for following all local codes and laws.

### **REBATE OPPORTUNITIES**

Klickitat PUD reserves the right to make changes to all programs and rebates are subject to the availability of funds through the Energy Efficiency Program. See measure specific details for rebate values as shown herein.

**\*REBATE PAYMENTS WILL BE CAPPED AS NOT TO EXCEED ACTUAL APPROVED COST OF ANY PROJECT AND ARE SUBJECT TO AVAILABILITY\***

<b>Program Description</b>	<b>KPUD Rebate</b>
Freeze Resistant Stock Water Tanks/Fountains	\$165.00 each
Thermostatically Controlled Outlet	\$14.00 each
Thermostatically Controlled Stock Tank De-Icer	\$52.00 each
Irrigation System Hardware Upgrades	*See chart
Variable Frequency Drives & Pump Upgrades	\$35.00-\$50.00/HP
Irrigation Pump Testing & Analysis	* \$50.00 - \$300.00

\* See associated rebate value chart

**Livestock Watering: Freeze Resistant Stock Water Tank/Fountains: REBATE \$165.00 on qualifying units**

**Qualifying specifications:**

- Must replace an electric resistance stock water tank heater or permanently disabled unit.

**Post-condition Specifications:**

- Must be new (not homemade).
- Enclosed, fully foam or dead air space insulated with the opening completely sealed.
- Possess elliptical or flap closures that tip easily so animals can drink without resistance.
- Water supply is hard-piped underground and stubbed into the insulated portion of the fountain.
- Contains no electric heat.
- Possess a minimum five-year manufactured defect warranty.

**Required Documentation:**

- Livestock Watering Rebate Application.
- Detailed Invoice showing installed costs, equipment information and date of installation.
- Proof of minimum 5 year defect warranty.
- Pictures of before and after installation.

**Livestock Watering: Thermostatically Controlled Outlet: REBATE \$14.00 on qualifying units**

Only one (1) outlet per pump house or utility room is eligible.

This measure requires the addition of a thermostatically controlled outlet or controller to control the heating load in a pump house or utility shed to prevent piping and other equipment from freezing. The thermostatically controlled outlet will turn on when the buildings ambient temperature is below 35 degrees Fahrenheit, and will stop providing power at a temperature no higher than 50 degrees Fahrenheit.

**Required Documentation:**

- Livestock Watering Rebate Application.
- Detailed Invoice showing installed costs, equipment information and date of installation.

**Livestock Watering: Thermostatically Controlled Stock Tank De-Icer: REBATE \$52.00 on qualifying units: Only one (1) tank de-icer per tank is eligible**

The de-icer must be thermostatically controlled to prevent freezing and to prevent continuous operation after the threat of freezing has passed.

**Required Documentation:**

- Livestock Watering Rebate Application.
- Detailed Invoice showing installed costs, equipment information and date of installation.

**Irrigation System Hardware Upgrades and Sprinkler Package replacements:**

Each measure has specific requirement as identified below:

<b>Measure Description</b> <small>(more detailed descriptions available upon request)</small>	<b>System Type/Requirements</b>	<b>Rebate Per Unit</b>
40217: High Pressure Sprinkler Package Replacements	Replacements of sprinkler package for high pressure Center Pivot or Lateral Move systems.	\$ 9.80
40221:LESA/LEPA/MDI Sprinkler Package Replacements	Replacements of sprinkler package for Center Pivot or Lateral Move systems	\$ 2.80
40218: MESA Sprinkler Package replacements	Replacement of sprinkler package for Center Pivot or Lateral Move systems	\$ 7.00
40007: Rebuild or Replace Leaking or Malfunctioning Leveler with New or Rebuilt Leveler	RETROFIT : Wheel Line	\$ 0.70
40006: Replace Thunderbird Wheel Line Hubs	Wheel Line	\$ 2.80
40019: Nozzle Replacement	Wheel-line or Hand-line	\$ 2.10
40001: Replace Leaking Drain Gaskets with New Gaskets	Wheel-line, Hand-line, Lateral Move or Center Pivot	\$ 2.10
40016: Replace Leaking Impact Sprinkler with New or Rebuilt Impact Sprinkler	Wheel-line, Hand-line, Lateral Move or Center Pivot systems. Brass impact sprinklers shall be rebuilt by an established repair shop and shall meet or exceed manufactures specs.	\$ 0.70 *
40003: Replace Pipe Section Gasket	Wheel-lines, Hand-lines, Riser or Portable Main Line, including mainline riser cap gaskets or portable mainline section gasket	\$ 2.80

\* Rebate is limited to two units per sprinkled acre for solid set sprinklers.

\*\*Rebate is per pipe section

**Required Documentation:**

- Non-Residential Project Rebate Application.
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity, order/purchase date and cost.
- Irrigation Hardware & Sprinkler Completion Form.
- Pictures of before installation.
- Final on-site visit for documentation of final install including pictures.

### **Variable Frequency Drives (VFD) for Centrifugal Agricultural Pumps: REBATE \$35.00 per nameplate HP**

This measure requires the addition of a VFD to an existing, fixed-speed centrifugal-style irrigation pump that applies to pumping operations that deliver, distribute or transport irrigation water with qualifying VFDs from 7.5 to 1000 HP. Eligible installations are limited to CENTRIFUGAL pumps with substantial variation in head pressure requirements (20% variation or more). All new VFD installations must meet the IEEE 519 harmonics standards.

#### **Required Documentation:**

- Non-Residential Project Rebate Application.
- Approved KPUD Implementation Agreement.
- Complete the Agricultural Centrifugal Pump Tool (completed by Utility or BPA Engineer)
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity, order/purchase date and cost.
- Final on-site visit for documentation of final install including pictures.

### **Variable Frequency Drives (VFD) for Turbine Agricultural Pumps: REBATE \$50.00 per nameplate HP**

This measure requires the addition of a VFD to an existing, fixed-speed but has a variation head flow or head requirements turbine irrigation pump that applies to pumping operations that deliver, distribute or transport irrigation water with qualifying VFDs from 7.5 to 1000 HP. Eligible installations are limited to turbine pumps with substantial variation in flow rate (20% variation or more) or discharge pressure requirements (10% variation or more). All new VFD installations must meet the IEEE 519 harmonics standards.

#### **Required Documentation:**

- Non-Residential Project Rebate Application.
- Approved KPUD Implementation Agreement.
- Complete the Agricultural Turbine Pump Tool (completed by Utility or BPA Engineer)
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity, order/purchase date and cost.
- Final on-site visit for documentation of final install including pictures.

### **Variable Frequency Drives for NEW Agricultural Pumps:**

#### **Centrifugal OR Turbine Pump: REBATE \$35.00 (Centrifugal) to \$50.00 (Turbine) per nameplate HP**

This measure requires the addition of a new VFD to a new centrifugal or turbine style irrigation pump which operates at a fixed-speed and applies to pumping operations that deliver, distribute or transport irrigation water with qualifying VFDs from 7.5 to 1000 HP. Eligible installations are limited to pumps with substantial variation in flow rate (20% variation or more for turbine pumps) or discharge pressure requirements (10% variation or more for turbine pumps or more for centrifugal pumps). All new VFD installations must meet the IEEE 519 harmonics standards.

#### **Required Documentation:**

- Non-Residential Project Rebate Application.
- Approved KPUD Implementation Agreement.
- Complete the New Construction Turbine or Centrifugal Pump VFD Tool (completed by Utility or BPA Engineer)
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity, order/purchase date and cost.
- Final on-site visit for documentation of final install including pictures.

**Agricultural NEW Pump Efficiency Upgrade: REBATE \$35.00 per nameplate HP**

This measure requires the installation of a new (newly manufactured) centrifugal or turbine style irrigation pump to replace an existing one that applies to pumping operations that deliver, distribute or transport irrigation water that range from 20 to 500 HP. The existing pump being replaced must be centrifugal, turbine or submersible turbine. The new replacement pump must have the same or lower horsepower rating, unless it is coupled with a VFD. A change from turbine to centrifugal or centrifugal to turbine is allowed. All new VFD installations must meet the IEEE 519 harmonics standards.

**Required Documentation:**

- KPUD Agricultural Rebate Application.
- Approved KPUD Implementation Agreement.
- Complete the Pump Efficiency Upgrade form (completed by Utility or BPA Engineer)
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity, order/purchase date and cost.
- Pump performance curve (available from the pump manufacturer).
- Final on-site visit for documentation of final install including pictures.

**Irrigation Pump Testing & Analysis:**

This measure is intended to help the irrigator determine irrigation system health and identify potential energy efficiency improvements. Ideally, the pump test will be performed on systems that are inefficient as determined by the Irrigation Pump Testing and System Analysis BPA Screening Tool. The results of the pump test could be used in developing the Custom Project proposal.

Test Type	KPUD Rebate
Simple System Evaluation	\$50.00
Simple System Irrigation Pump Test (e.g. open discharge)	\$100.00
Irrigation pump Test and System Analysis 400 acres or less	\$200.00
Irrigation Pump Test and System Analysis, over 400 acres	\$300.00
Irrigation Pump Test and System Analysis Complex Pumping System over 400 acres with multiple operating pumps	\$200.00 per main pump plus \$50.00 per booster pump

**Requirements and Specifications:**

- The irrigation pump must be electrically powered, 20 HP or greater and must not have been tested through BPA-sponsored pump testing services within the past five years.
- The irrigation pump must have been in operation for the two previous years.
- The irrigation pump test must be performed by an individual possessing pump testing knowledge and experience.
- Customers and qualified vendors must use the Irrigation Pump Testing and System Analysis BPA Screening Tool (available from KPUD) to limit the amount of dry holes (i.e., pump tests that do not result in a BPA-approved custom project).
- The customer may choose from the following tests:
  - Simple System Evaluation: Measure pump discharge pressure and evaluate condition of the sprinkler nozzles.
  - Simple System Irrigation Pump Test (e.g. open discharge): Perform irrigation pump test.
  - Irrigation Pump Test and System Analysis: Perform irrigation pump test and evaluate mainlines and critical sprinklers.
- KPUD will deliver printed recommendation reports to the end-user.

**Required Documentation:**

- Non-Residential Project rebate Application.
- Completed Agricultural Irrigation Pump Testing and System Analysis.

- Electronic or hard copies of the completed Irrigation Pump Testing and System Analysis BPA Screening Tool, irrigation pump test, and recommendation report.
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity order/purchase date and cost.

### **IMPLEMENTATION PROCESS**

Some projects require a Pre-Audit/Pre-Approval with our Energy Services Specialist from KPUD. Call (509) 773-7622 to schedule an appointment. Rebates may be denied if a pre-audit is not completed prior to starting the work.

1. Read the Program Participation Requirements and Instructions pages.
2. Complete Appropriate Project Rebate Application and any other required supporting documentation.

### **BID ACCEPTANCE AND INSTALLATION PROCEDURE**

1. Customer is to secure bids from installer's that must be bonded and licensed in Washington and they must contact KPUD to be approved. It is suggested that you obtain at least two (2) bids and no bid be accepted unless the premises have been visited and physically inspected by the bidding contractor. It is easier to evaluate submitted bids if each bidder receives the same description of the measures to be installed.
2. Complete any needed contractor required paperwork.

### **FINAL INSPECTION AND COMPLETION PROCEDURE**

1. After the installation of all materials, contact KPUD to schedule an on-site inspection.
2. We request that business owner and/or occupant is present for the inspection if needed.
3. If corrections are needed, KPUD will provide documentation for the installer to clarify changes required comply with installation requirements.
4. Once all work is complete and approved by you, KPUD and the appropriate BPA Qualifying Agents; KPUD will then process the rebate request for approval on the next scheduled Commissioner's meeting or as funds are available.
5. Minimum required paperwork must be submitted for each measure:
  - a. Equipment/contractor invoice showing:
    - \* Manufacturer
    - \* Model number
    - \* Type, size and quantity of equipment or product installed or used
    - \* Purchase date
    - \* Costs
  - b. Measure specific required documentation
  - c. Completed applicable Rebate Application

Rebates are not a guarantee and are subject to funding availability and constraints, and program changes

## **NOTICES AND DISCLAIMERS**

Kickbacks, rebates, non-authorized discounting of bids or other non-program benefits from the Contractors are prohibited, and may be subject to federal law.

All materials and installations must comply with current KPUD/BPA conservation specifications in order to be eligible for funding.

Contractors, participating in the program shall not be considered officers, agents or employees of BPA or KPUD; therefore, KPUD shall not be liable for the tortuous acts or omissions of the Contractors or other independent contractors.

All installations are subject to Quality Assurance oversight inspections by BPA approved Inspectors.

Questions about this program can be directed to Klickitat PUD Energy Services

Klickitat PUD  
1313 S Columbus Ave  
Goldendale, WA 98620  
(509) 773-7622 or (800) 548-8357  
aclever@klickpud.com  
[www.klickitatpud.com](http://www.klickitatpud.com)

Subject to changes and as funds are available



Updated 03/07/2022

# Non-Residential Project Rebate Application

Klickitat PUD  
1313 S. Columbus Ave.  
Goldendale, WA 98620

www.klickitatpud.com  
(509) 773-7622 or (800) 548-8357  
aclever@klickpud.com

Business Name (as printed on check): \_\_\_\_\_ Account #: \_\_\_\_\_

Mailing Address: (for rebate check) \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Installation Address (if different) \_\_\_\_\_

**Type of work:**  Retro-fit  New Construction  Major Renovation  Change in occupancy type  
**Projects Interested in:**  Lighting  Heating Upgrades  Weatherization  Refrigeration  
 VFD's/pumps  Irrigation Hardware  Compressed Air  
 Other \_\_\_\_\_

**Business Information:** Building/Field/Well Identifying Name: \_\_\_\_\_  
Business Sector:  Commercial  Industrial  Agricultural  Federal  
Type of Business:  Office  Retail  Warehouse  Lodging  School  Grocery  Food Service  
 Medical  Crops: Type \_\_\_\_\_  Vineyard  Livestock  Other \_\_\_\_\_  
Hours of Operation/Months irrigated: \_\_\_\_\_

**Building Specifics: (If applicable)**

Conditioned area total square feet: \_\_\_\_\_ Year Built: \_\_\_\_\_  
Is the primary heat source electric:  Yes  No Is there a natural gas connection:  Yes  No  
Existing electric heating system:  Furnace  Heat pump  Zonal (Baseboard...)  Radiant  
 Ductless Heat Pump  Other \_\_\_\_\_  
Is existing thermostat web enabled:  Yes  No

**Other Specifics: (If applicable) FOR THIS PROJECT ONLY**

Field Location \_\_\_\_\_  Acres irrigated \_\_\_\_\_  Crop Type \_\_\_\_\_  
Current Irrigation type:  Pivot  Wheel  Hand  Other \_\_\_\_\_  
Current Pump Style:  Centrifugal  Turbine  Submersible Current Horse Power: \_\_\_\_\_  
Pumping plant lift (ft.) from water source: \_\_\_\_\_ Old pump rated efficiency \_\_\_\_\_ %  
Existing pump horsepower \_\_\_\_\_ Age of old pump \_\_\_\_\_ (years)  
New pump data: Horsepower \_\_\_\_\_, Impeller type:  Bronze or  Stainless steel  
Pump head \_\_\_\_\_ TDH, Pump flow \_\_\_\_\_ GPM, Rated efficiency \_\_\_\_\_ %  
 Pump curve attached, mark operating point, indicate pump manufacturer and model

**\*Additional information may be needed to evaluate this request. This application is NOT a guarantee of project acceptance**

By signing below, I certify that the information supplied above is true and accurate to the best of my knowledge and belief and that I have read and comply with the Participation Requirements and Instructions.

\_\_\_\_\_  
Customer Signature

\_\_\_\_\_  
Date

This Section for KPUD use only		
<b>Project Name/Number:</b>	<b>Sector:</b>	<b>Budget Cycle:</b>



# Livestock Watering Rebate Application

Klickitat PUD  
1313 S. Columbus Ave.  
Goldendale, WA 98620

www.klickitatpud.com  
(509) 773-7622 or (800) 548-8357  
aclever@klickpud.com

Customer Name: \_\_\_\_\_ Account #: \_\_\_\_\_ Date: \_\_\_\_\_

Mailing Address: (for rebate check) \_\_\_\_\_

Installation Address (if different) \_\_\_\_\_ Phone: \_\_\_\_\_

**PRODUCT INSTALLED:**  Freeze Resistant Waterer  Thermostatically Controlled Outlet  
 Thermostatically Controlled Stock Tank De-Icer

**FARM INFORMATION:**

Type of Animal being used for: \_\_\_\_\_

Type of Electrical resistance stock water heater replaced:  Submergible  Trough  Heated Bucket

How was the existing equipment permanently disabled: \_\_\_\_\_

Where located? \_\_\_\_\_

**HAVE YOU INCLUDED THE FOLLOWING?**

- Copy of the original sales receipt with proof of make, model, size, quantity, date of purchase, cost
- Proof of manufacturer warranty (Freeze Resistant Waterer Only)
- Pictures of before & after

By signing below, I certify that the information supplied above is true and accurate to the best of my knowledge and belief and that I have read and comply with the Participation Requirements and Privacy Notice.

\_\_\_\_\_  
Customer Signature

\_\_\_\_\_  
Date

This Section for KPUD use only			
<b>Product:</b> _____	<b>Qty</b> _____	<b>Rebate\$</b> _____	<b>Total \$</b> _____
<b>Meets rebate requirements?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No if so why _____			
<b>Approved By:</b> _____		<b>Date</b> _____	
<b>Total Approved Rebate \$</b> _____			

## Irrigation Hardware and Sprinkler Package Completion Form

Business Name: \_\_\_\_\_ Project: \_\_\_\_\_ Total Acres \_\_\_\_\_

Qty	Measure Description <small>(more detailed descriptions available upon request)</small>	System Type/Requirements	Project Cost
	40217: High Pressure Sprinkler Package Replacements	Retrofit or as part of an irrigation conversion for Center Pivot or Lateral Move systems	\$
	40221:LESA/LEPA/MDI Sprinkler Package Replacements	Retrofit or as part of an irrigation conversion for Center Pivot or Lateral Move systems	\$
	40218: MESA Sprinkler Package replacements	Retrofit or as part of an irrigation conversion for Center Pivot or Lateral Move systems	\$
	40007: Rebuild or Replace Leaking or Malfunctioning Leveler with New or Rebuilt Leveler	RETROFIT : Wheel Line	\$
	40006: Replace Thunderbird Wheel Line Hubs	Wheel Line	\$
	40019: Nozzle Replacement	Wheel-line or Hand-line	\$
	40001: Replace Leaking Drain Gaskets with New Gaskets	Wheel-line, Hand-line, Lateral Move or Center Pivot	\$
	40016: Replace Leaking Impact Sprinkler with New or Rebuilt Impact Sprinkler	Wheel-line, Hand-line, Lateral Move or Center Pivot systems. Brass impact sprinklers shall be rebuilt by an established repair shop and shall meet or exceed manufactures specs.  (Limited to 2 units per sprinkled acres)	\$
	40003: Replace Pipe Section Gasket	Wheel-lines, Hand-lines, Riser or Portable Main Line, including mainline riser cap gaskets or portable mainline section gasket	\$

**Required Documentation:**

- Non-Residential Project Rebate Application & this Completion Form.
- Equipment/contractor invoice is to include: manufacturer, model number, type or size of equipment or product installed/used, quantity, order/purchase date and cost.
- Pictures of before installation.
- Final On-site visit for documentation of final install including pictures.

Questions about this program can be directed to Klickitat PUD Energy Services

Klickitat PUD  
1313 S Columbus Ave  
Goldendale, WA 98620  
(509) 773-7622 or (800) 548-8357  
aclever@klickpud.com  
[www.klickitatpud.com](http://www.klickitatpud.com)

Subject to changes and as funds are available

