

## Irrigation Retrofits

Pacific Power provides incentives for many types of energy efficient technologies. Please read the following sections carefully to ensure that you follow the appropriate steps for securing your incentive.

Incentives for additional measures may be available. For more information about the FinAnswer® Express program, eligibility requirements, incentive levels or other general inquiries, contact your local equipment dealer or Pacific Power. You can visit the program website at [pacificpower.net/wattsmart](http://pacificpower.net/wattsmart) and submit your inquiry online, or you can call our **energy services hotline** at **1-800-222-4335**.

### REPAIR LEAKING WHEEL-LINES, PORTABLE MAIN LINES & HAND LINES

**Measure Description:** Worn pipe connections can cause leaks and lead to failure, which wastes water and electricity. Repairing irrigation lines saves energy by reducing water leakage at connections resulting in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Repairs must be completed and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Equipment must replace worn or leaking pipe connections/joints with a cut and pipe press or weld repair process.

#### Items to Submit with Application:

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice showing the number of joints repaired.
3. Itemized list containing the number of joints repaired and a description of the repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRPLJ	Pipe Line Joint	\$8 / Joint

## DRAINS OR GASKETS FOR WHEEL-LINES, PIVOTS, PORTABLE MAIN & HAND LINES

**Measure Description:** Replacing leaking drains or gaskets reduces the system flow rate, resulting in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Equipment must replace worn and leaking drains or gaskets for wheel-lines, hand lines, pivots, or portable main line. Seals and riser caps (dome discs) for valve openers are also eligible. Equipment must be replaced with new drains or gaskets. Replacements are limited to two replacements per irrigated acre.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRR DAG	Drains and Gaskets	\$1 / unit

## CENTER PIVOT BASE BOOT GASKET

**Measure Description:** A worn center pivot base boot gasket can cause significant leaks, which wastes water and electricity. Replacing the worn gasket reduces water leakage from the irrigation system, resulting in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn and leaking gasket must be replaced with a new center pivot base boot gasket.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of the equipment or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRR CBG	Center Pivot Base Boot Gasket	\$80 / unit

## FLOW-CONTROLLING NOZZLES FOR IMPACT SPRINKLERS

**Measure Description:** The volume of water distributed by an impact sprinkler can be reduced by replacing a worn brass or flow-control nozzle with a new flow-control nozzle of the same size flow or less. This results in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Equipment must replace worn nozzles with new flow-controlling type nozzles. The design flow of the replacement nozzle must be the same design flow or less. Replacements are limited to two per irrigated acre.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRFCN	Flow Controlling Nozzles	\$1.50 / unit

## REBUILT OR NEW BRASS-IMPACT SPRINKLER

**Measure Description:** Worn impact sprinklers can leak and may not rotate properly. This measure reduces leaks and improves water distribution, resulting in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant and replace worn or leaking brass-impact sprinklers with new or rebuilt brass impact sprinklers. Replacements are limited to two per irrigated acre.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRBIS	Brass Impact Sprinkler	\$3 / unit (up to 60% of measure costs)

## SPRINKLER NOZZLES

**Measure Description:** This measure reduces flow from sprinklers by replacing worn brass or plastic sprinkler nozzles with new nozzles of the same flow rate or less. Reducing the flow results in reduced demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Equipment must replace existing worn nozzles with new brass or plastic range nozzles with the same design flow or less. Replacements are limited to two per irrigated acre.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRNOZ	Nozzles	\$0.25 / unit

## GOOSENECK ELBOW WITH DROP TUBE OR BOOMBACK

**Measure Description:** Replacing leaking goosenecks and drop tubes reduces the system flow rate, resulting in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn or leaking gooseneck elbows with drop tubes or boombacks must be replaced with new gooseneck elbows with drop tubes or boombacks.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRGNE	Gooseneck Elbow	\$1 / outlet

## SPRINKLER PRESSURE REGULATORS

**Measure Description:** Worn or faulty regulators are unable to properly control the sprinkler pressure and can result in excessive amounts of water being distributed by pivot sprinklers. New regulators restore the design pressure and flow for the individual pivot sprinklers and can reduce the pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn or faulty regulator must be replaced with a new pressure regulator and must be the same design pressure or less. Replacements are limited to two per irrigated acre.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice with installation/repair date.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. Documentation showing the design pressure of the regulators being replaced, which may include the original invoice, sprinkler package printout, or photos of the existing regulators showing the design pressure.
5. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
6. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRSPR	Sprinkler Pressure Regulators	\$2.75 / unit

## WHEEL-LINE FEED HOSE

**Measure Description:** This measure reduces leaks from worn wheel-line feed hoses. Reducing the system flow rate results in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn or leaking wheel-line feed hose must be replaced with a new or rebuilt wheel-line feed hose.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRWFH	Wheel-line Feed Hose	\$15 / unit

## WHEEL-LINE SPRINKLER LEVELERS

**Measure Description:** This measure reduces leaks from worn levelers and can improve sprinkler application uniformity by keeping the sprinkler level. Reducing the system flow rate results in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn or faulty wheel-line levelers must be replaced with new or rebuilt wheel-line levelers.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRWSL	Wheel-line Sprinkler Levelers	\$0.75 / unit

## THUNDERBIRD WHEEL-LINE HUBS

**Measure Description:** This measure is specific to Thunderbird brand wheel-lines that have a gasket at the hub of each wheel. This measure can reduce the system flow rate by replacing leaking hubs, resulting in reduced pumping demand and reduced energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other program terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn or leaking Thunderbird wheel-line hubs must be replaced with new wheel-line hubs.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
5. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRWLH	Wheel-line Hubs	\$12 / unit

## ROTATING-TYPE OR LOW-PRESSURE PIVOT SPRINKLERS

**Measure Description:** Worn center pivot sprinklers can leak and may not function properly. Replacing worn sprinklers or overhead impact sprinklers with new rotating type or low-pressure pivot sprinklers reduces leaks and improves the application uniformity of the system. This results in reduced pumping demand and energy consumption from pump operation.

**Applicability:** Retrofit installations that meet eligibility requirements may qualify for an incentive via a post-purchase application. This measure is not eligible for new construction projects.

**Equipment Eligibility:** Equipment must be purchased and installed, and meet all other terms and conditions. Equipment must be installed on a system with an electric pumping plant. Worn rotating, impact, or spray type sprinklers must be replaced with new rotating type spray heads or low-pressure pivot sprinkler heads. The new head must be the same design flow or less and is limited to two replacements per irrigated acre.

**Items to submit with application:**

1. Retailer/Contractor name, address and phone number.
2. Dated sales receipt/invoice with installation/repair date.
3. Itemized list of quantity, description, manufacturer, model number and a description of equipment/repair or other identifying information.
4. Documentation of the original design flow rate of the equipment being replaced, which may include the original sprinkler nozzle package printout, precipitation chart, or inventory of the equipment being replaced.
5. A completed Irrigation Application Supplement; see Table 1 at the end of the catalog.
6. A current copy of the Pacific Power utility bill for the address where the item(s) are installed.

**Prequalification Required?** No.

<u>Equipment Code</u>	<u>Measure Description</u>	<u>Incentive</u>
IRRRPS	Rotating Pivot Sprinkler Heads	\$3 / unit (up to 60% of measure costs)

**Table 1. Irrigation Application Supplement**  
*(Submit copy of table with application)*

<b>Customer</b>	<b>Company Name</b>	
	<b>Contact Name</b>	
	<b>Contact Phone Number</b>	
	<b>Facility Address</b>	
	<b>Facility City, State, Zip</b>	
	<b>Pacific Power Account Number</b>	
	<b>Pacific Power Rate Schedule</b>	
<b>Dealer</b>	<b>Dealer Name</b>	
	<b>Dealer Contact Name</b>	
	<b>Dealer Contact Phone Number</b>	
<b>Project Information</b>	<b>Crop (Current Year)</b>	
	<b>Are the Pumps Electrically Driven? (circle one)</b>	<b>YES      NO</b>
	<b>Pump Type (circle one)</b>	<b>Centrifugal      Turbine</b>
	<b>Pump Horsepower (HP)</b>	
	<b>Water Source (circle one)</b>	<b>Surface Water      Well</b>
	<b>System Type (check one)</b>	<input type="checkbox"/> <b>Wheel-Line</b> <input type="checkbox"/> <b>Portable Main Line</b> <input type="checkbox"/> <b>Hand Line</b> <input type="checkbox"/> <b>Pivot</b>
	<b>Number of Irrigated Acres</b>	