

## Get incentives for irrigation system upgrades

Energy prices are rising, so it makes more sense than ever to invest in energy-efficient irrigation equipment. A typical farm can reduce electricity costs for pumping by 35 percent with variable speed drives alone, while improvements like converting to drip irrigation or a linear/pivot system save both water and energy.

To make improvements affordable, Energy Trust of Oregon offers rebate style and custom incentives. Oregon customers of Portland General Electric and Pacific Power are eligible to participate.



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# REDUCE IRRIGATION ENERGY COSTS

## Rebates

Cash in on incentives after you purchase the following replacement equipment:

### Linear and pivot improvement rebates

- Low-pressure regulators—\$5 per regulator
- Drop tube or hose extensions for low-pressure sprinklers—\$3 per tube
- “Goose neck” elbow for drop tubes—\$1.65 per elbow
- Rotating-type sprinklers that replace worn low-pressure sprinklers—\$4 per sprinkler
- Rotating-type sprinklers that replace impact sprinklers—\$4 per sprinkler
- Multi-trajectory sprays that replace worn low-pressure sprinklers—\$1 per sprinkler
- Multi-trajectory sprays that replace impact sprinklers—\$4 per sprinkler
- Multiple configuration nozzles—\$3 per sprinkler

### Wheel and hand-line improvement rebates

- Rebuilt or new impact sprinklers to replace worn sprinklers on existing systems—\$3.75 per sprinkler
- New nozzle for impact sprinkler that replaces existing worn nozzle—\$1.50 per nozzle
- Flow controlling nozzle for impact sprinklers—\$4 per nozzle
- Drains for wheel-lines, hand-lines, main-lines, and linear or pivot systems—\$1 per drain
- Gasket for wheel-lines, hand-lines or portable main-lines—\$2.75 per gasket
- Cut and pipe press repair of leaking hand-lines, wheel-lines and portable main-lines—\$10 per section

## Calculated incentives

Calculated incentives are based on estimated annual energy savings. We offer \$0.25 per kilowatt hour, or up to 50 percent of the project’s installed costs.

### Variable frequency drive—added to new or existing pump

#### Up to 50 percent cash back

If you have a pump that operates at a range of different flows throughout the year or draws from a well with a depth that varies significantly, or if your pump is too big for your current application, a variable frequency drive, VFD, could make sense for your farm. With a VFD, the desired pressure and flow are produced by controlling the pump speed, rather than throttling the discharge flow or using a bypass to maintain target flow conditions. Project must be approved prior to purchase to receive an Energy Trust incentive.

### Drip irrigation system conversion

#### Up to 40 percent energy savings

Drip irrigation applies water directly to the soil and root zone and virtually eliminates evaporation and run-off. Nearly 40 percent of water sprayed by a big-gun system is wasted, but a drip system loses only five to 10 percent of the water applied. If you have a row crop, drip irrigation could make sense for you. Project must be approved prior to purchase to receive an Energy Trust incentive.

### Linear/center pivot system conversion

#### Up to 50 percent energy savings

A linear or center pivot irrigation system equipped with a low-pressure drop-tube package applies water more efficiently to field crops than a typical big-gun system. Properly configured linear systems operate at a lower pressure and have less evaporation than solid set or big-gun systems. The automatic movement of a linear or center pivot system can also save labor costs and improve irrigation uniformity. Project must be approved prior to purchase to receive an Energy Trust incentive.

## Scientific Irrigation Scheduling

### Incentives are available

Scientific Irrigation Scheduling is a method used to optimize crop irrigation. It entails making irrigation decisions based on input from soil moisture monitors, weather station data, and evapotranspiration data. An experienced vendor will provide software tools and assist the grower in analyzing the available data to make the best irrigation decisions for that crop.

## UPGRADE TODAY

Contact your Energy Trust approved irrigation vendor for more information on rebates and custom incentives. Your vendor can help you identify the most cost-effective improvements and apply for cash incentives.

For a complete list of approved vendors, or to download the Premium Irrigation Incentive Application (Form 420IR) required for rebates, visit [www.energytrust.org/ag](http://www.energytrust.org/ag) or call **503.928.3154**.

*Energy Trust of Oregon is an independent nonprofit organization dedicated to helping utility customers benefit from saving energy and generating renewable energy. Our services, cash incentives and energy solutions have helped participating customers of Portland General Electric, Pacific Power, NW Natural and Cascade Natural Gas save on energy costs. Our work helps keep energy costs as low as possible, creates jobs and builds a sustainable energy future.*

*Energy Trust provides technical assistance and financial incentives for energy systems or equipment that meet its program criteria, but does not install energy systems or equipment nor does it guarantee any specific energy savings through its assistance or programs. Installation work is done by independent businesses that are solely responsible for the quality and performance of their installations.*