

## **Irrigation and Motor Technologies**

Pacific Power provides incentives for many types of energy efficient technologies. Please read the following sections carefully to ensure that you purchase and install qualifying equipment.

Incentives for additional measures may be available. For more information about the FinAnswer Express program, eligibility requirements, incentive levels or other general inquiries; contact Pacific Power or your local dealer. You can also visit the program's Web site at [www.pacificpower.net/casave](http://www.pacificpower.net/casave) or you can call our **Energy Services Hotline** at 1-800-222-4335.

### **AGRICULTURAL IRRIGATION NOZZLES**

**Measure Description:** Irrigation systems such as hand lines, wheel lines and solid set sprinklers commonly have impact sprinklers with brass nozzles. Over time nozzles will wear and can result in poor sprinkler performance and increased pumping rates. As nozzles wear, the diameter of the opening gets larger allowing more water to pass. Replacing worn nozzles with properly sized new ones can reduce pumping, reduce energy usage, increase operating pressure and improve irrigation performance.

**Applicability:** Replacing used nozzles installed on a hand line, solid set or wheel line system.

**Equipment Eligibility:** Standard or flow control brass nozzles.

**Incentive:** \$0.68 per nozzle, up to 100% of costs.

**Items to Submit:**

1. A completed Irrigation Customer Incentive Application/Agreement
2. Dated sales receipt/invoice

**Pre-qualification Required?** No

### **PREMIUM EFFICIENCY MOTORS**

**Measure Description:** Premium efficiency motors are more efficient than standard efficiency motors.

**Applicability:** New construction and retrofit installations are eligible.

**Equipment Eligibility:** Motors that are eligible for incentives under the FinAnswer Express include new, three phase, induction motors, NEMA Design A & B, 1-200 HP, Open Drip Proof (ODP) or Totally Enclosed Fan Cooled (TEFC), 1200, 1800, or 3600 RPM. Minimum efficiency requirements shown in Table M-1 below are the NEMA Nominal Full-Load Efficiency rating from the motor nameplate as determined in accordance with IEEE Standard 112, Test Method B. Eligible motors can be placed in inventory and still qualify for incentives. Custom incentives may be available for >200 hp motors. Contact Pacific Power or your dealer to determine whether other motor classifications or sizes qualify for incentives. The NEMA Premium efficiency ratings listed are nominal full-load efficiency ratings.

**Items to submit with application from Application Packet:** 1. Dated sales receipt/invoice

**Prequalification Required?** Incentives for new construction and retrofit installations of premium efficiency motors are available via a post-purchase incentive application process. Applying prior to placing purchase orders is recommended but not required.

**Table M-1. Motor Efficiency Requirements, Incentive Levels, & Equipment Codes**

Equipment Code →		Nominal Full Load Efficiencies (%)					
		MTRO12	MTRT12	MTRO18	MTRT18	MTRO36	MTRT36
Horsepower	Customer Incentive (\$/motor)	1200 RPMs	1200 RPMs	1800 RPMs	1800 RPMs	3600 RPMs	3600 RPMs
		ODP	TEFC	ODP	TEFC	ODP	TEFC
1	\$45	82.5	82.5	85.5	85.5	77.0	77.0
1.5	\$45	86.5	87.5	86.5	86.5	84.0	84.0
2	\$54	87.5	88.5	86.5	86.5	85.5	85.5
3	\$54	88.5	89.5	89.5	89.5	85.5	86.5
5	\$54	89.5	89.5	89.5	89.5	86.5	88.5
7.5	\$81	90.2	91.0	91.0	91.7	88.5	89.5
10	\$90	91.7	91.0	91.7	91.7	89.5	90.2
15	\$104	91.7	91.7	93.0	92.4	90.2	91.0
20	\$113	92.4	91.7	93.0	93.0	91.0	91.0
25	\$117	93.0	93.0	93.6	93.6	91.7	91.7
30	\$135	93.6	93.0	94.1	93.6	91.7	91.7
40	\$162	94.1	94.1	94.1	94.1	92.4	92.4
50	\$198	94.1	94.1	94.5	94.5	93.0	93.0
60	\$234	94.5	94.5	95.0	95.0	93.6	93.6
75	\$270	94.5	94.5	95.0	95.4	93.6	93.6
100	\$360	95.0	95.0	95.4	95.4	93.6	94.1
125	\$540	95.0	95.0	95.4	95.4	94.1	95.0
150	\$630	95.4	95.8	95.8	95.8	94.1	95.0
200	\$630	95.4	95.8	95.8	96.2	95.0	95.4