

Empire District Electric Company

C/I Rebate Program - Prescriptive Rebates

Pre-Qualified rebates, designed for small commercial customers, are available for a variety of common energy savings technologies for both new construction and retrofit. The specific categories, rebate levels and performance levels are outlined by end use below.

Lighting

In new construction or major renovation, fluorescent linear lighting dominates the commercial lighting market, particularly in offices, schools and some retail applications. The four foot 32 watt T8 lamp combined with an electronic ballast has essentially become standard practice. Rebates are available for specifying lamps and ballasts that exceed the performance levels of the standard T8 lamp system. Additionally, rebates are offered for reducing lighting power density below the maximum thresholds specified by energy codes.

Existing lighting systems can be eligible for rebates by replacing with new fixtures that meet the requirements of the New Construction incentives outlined above. The existing market for fluorescent lamps is likely mixed with T8 lamps as well as older T12 lamps. The replacement of these older systems can provide energy savings but requires replacement of both lamps and ballasts. The following rebates are available for early replacement of lamps and ballasts in existing systems.

High Performance T8 fixtures – must meet specifications set by the Consortium for Energy Efficiency [CEE] including, but not limited to, the following

- lamps must have 90 lumens per watt [LPW] or greater; 88 LPW for programmed start ballasts
- lamps must have high color rendering index [CRI], greater than or equal to 81
- electronic ballasts must be instant start or programmed start meeting CEE performance

Rebates are as follows :

- \$20 for 2- lamp fixtures
- \$30 for 3-lamp fixtures

High Performance T8 lamps and ballasts – only for the replacement of existing T12 systems. Both lamps and ballasts must be replaced to be eligible.

Rebates are as follows :

- \$2 per lamp
- \$10 per ballast

Lighting Power Density – for common building types, the overall lighting power must be reduced by at least 25% below the requirements of the local energy code [or ASHRAE Std. 90.1]

Rebates are as follows :

- \$1 per watt reduction

High Intensity Fluorescent – designed to replace high intensity discharge [HID] fixtures in high bay applications, these fixtures must have the following characteristics

- use T5 or T5HO lamps with electronic ballasts

- use at least 4- lamps
- the fixture must be at least 75% efficient

Rebates are as follows :

- \$50 per fixture

Pulse Start metal halide – for HID applications, rebates are available for lamp and ballast replacements in typical 400 watt high bay applications. The lamp must be rated as pulse start with a pulse start ballast. Lamp wattage must be either 320 or 360 watts as a replacement for 400 watt metal halide or high pressure sodium.

Rebates are as follows :

- \$50 per fixture

Lighting Controls – rebates are available for occupancy sensors, either switch replacements or remote/ceiling mounted that use ultrasonic or passive infrared technology. Dual technology sensors are also eligible. Rebates for switch replacement sensors are limited to small rooms less than 250 sq.ft.

Rebates are as follows :

- \$20 for switch replacement sensors
- \$50 for ceiling/remote mounted sensors

Air Conditioning

Rebates are available for exceeding the minimum performance requirements of local energy codes [or ASHRAE Std. 90.1] for unitary packaged and split system air conditioners typically found in small commercial applications. The performance levels required vary by type and size but are consistent with the high efficiency standards set forth by CEE.

Type and Size	Minimum Performance	Rebate
Single Phase Unitary or Split Systems < 5.4 tons	14.0 SEER	\$92 per ton
Three Phase Unitary or Split Systems < 5.4 tons	13.0 SEER	\$92 per ton
Unitary or Split Systems >5.4 tons and <= 11 tons	11.0 EER	\$73 per ton
Unitary or Split Systems >11 tons and <= 20 tons	10.8 EER	\$79 per ton
Unitary or Split Systems >20 tons and <= 30 tons	10.0 EER	\$79 per ton

Motors

Rebates are available for installing motors that exceed minimum performance requirements of local energy codes [or ASHRAE Std. 90.1] for typical applications of three phase Design A and Design B motors. Rebates are available for both Open Drip Proof [ODP] and Totally Enclosed Fan Cooled [TEFC] motor types. Motor efficiency must meet or exceed that which is classified as NEMA Premium. These performance levels are provided in the table below.

Motor Size [HP]	ODP	TEFC	Incentive (\$/Motor)
	NEMA Nominal Efficiency		
1	85.5%	85.5%	\$50
1.5	86.5%	86.5%	\$50
2	86.5%	86.5%	\$60
3	89.5%	89.5%	\$60
5	89.5%	89.5%	\$60
7.5	91.0%	91.7%	\$90
10	91.7%	91.7%	\$100
15	93.0%	92.4%	\$115
20	93.0%	93.0%	\$125
25	93.6%	93.6%	\$130

Rebates are limited to the most common motor speed, 1800 rpm [nominal]. Larger motors or other motor speeds may be eligible under the Custom Rebate Program.