

Electric Efficiency Program

New Construction Prescriptive Incentives

Prescriptive Incentive – Summary

Measure Type	Incentive	Requirements
Window U-value level 1	\$0.11 per SF glass	U value 0.4 or less
Window U-value level 2	\$0.73 per SF glass	U value 0.3 or less
Window SHGC	\$0.73 per SF glass	SHGC 0.25 or less for south, east and west glazing
Roof insulation level 1	\$0.06 per SF roof	Insulation entirely above deck R-20 c.i. Metal building R-13 + R-19 Attic and Other R-38
Roof insulation level 2	\$0.16 per SF roof	Insulation entirely above deck R-30 c.i. Metal building R-19 + R-19 Attic and Other R-38 + R-5 c.i.
Wall insulation level 1	\$0.02 per SF wall	Mass (heat capacity >7 Btu/SF/°F) R-12 c.i. Metal building R-13 + R-13 Steel framed R-13 + R-7.5 c.i. Wood framed R-13 + R-4 c.i.
Wall insulation level 2	\$0.03 per SF wall	Mass (heat capacity >7 Btu/SF/°F) R-20 c.i. Metal building R-13 + R-19 Steel framed R-19 + R-7.5 c.i. Wood framed R-19 + R-4 c.i.
Cool roof	\$0.09 per SF roof	ENERGY STAR labeled
Advanced Air Sealing	\$0.03 per SF building	Air barrier system per the American Air Barrier Association specifications (http://www.airbarrier.org/specs/index_e.php)
Lighting efficiency	\$0.05 per 0.1 Watt/SF reduction	Baseline from ASHRAE 90.1-2004, Table 9.5.1 or 9.6.1. See additional requirements outlined below.
Daylighting controls	\$0.25 per SF building area controlled	Platte River review of specified equipment and control strategy
Premium Efficiency Motors	See Table	NEMA Premium Efficiency, Incentive varies by HP and motor type (ODP, TEFC)
Air conditioning sizing bonus level 1	\$0.34 per SF conditioned space	Air conditioning sizing > 600 SF per ton
Air conditioning sizing bonus level 2	\$0.51 per SF of conditioned space	Air conditioning sizing > 700 SF per ton
Evaporative Cooling	\$0.75/SF of conditioned space	Reduced incentive if there is mechanical cooling backup

Electric Efficiency Program

New Construction Prescriptive Incentives

Measure Type	Incentive	Requirements
Efficient Packaged Air Conditioning		
< 65,000 Btu/h	\$65 per ton + \$4 per ton	for 13 <u>SEER</u> per each 0.1 <u>EER</u> above 11
65,000 - 134,999 Btu/h	\$50 per ton + \$4 per ton	for 11 EER per each 0.1 EER above 11
135,000 - 239,999 Btu/h	\$50 per ton + \$4 per ton	for 10.8 EER per each 0.1 EER above 10.8
> 240,000 Btu/h	\$50 per ton + \$4 per ton	for 10 EER per each 0.1 EER above 10
Efficient packaged terminal air conditioning or heat pumps		
all sizes	\$50 per ton	for 11 EER
	+ \$4 per ton	per each 0.1 EER above 11
Custom measures	\$500 per summer kW saved	Meet requirements of Electric Efficiency Program

Electric Efficiency Program

New Construction Prescriptive Incentives

Prescriptive Incentive – Detailed Requirements

Lighting Efficiency

Efficient lighting is funded at the rate of \$0.05 per 0.1 W/SF reduction from the lighting power density allowed by ASHRAE 90.1-2004, using either the Building Area Method or the Space-by-Space Method.

ASHRAE 90.1 – 2004

TABLE 9.5.1 Lighting Power Density Allowances Using the Building Area Method

Building Area Type ^a	(W/ft ²)	Building Area Type ^a	(W/ft ²)
Automotive Facility	0.9	Multi-Family	0.7
Convention Center	1.2	Museum	1.1
Court House	1.2	Office	1.0
Dining: Bar Lounge/Leisure	1.3	Parking Garage	0.3
Dining: Cafeteria/Fast Food	1.4	Penitentiary	1.0
Dining: Family	1.6	Performing Arts Theater	1.6
Dormitory	1.0	Police/Fire Station	1.0
Exercise Center	1.0	Post Office	1.1
Gymnasium	1.1	Religious Building	1.3
Health Care-Clinic	1.0	Retail	1.5
Hospital	1.2	School/University	1.2
Hotel	1.0	Sports Arena	1.1
Library	1.3	Town Hall	1.1
Manufacturing Facility	1.3	Transportation	1.0
Motel	1.0	Warehouse	0.8
Motion Picture Theater	1.2	Workshop	1.4

^a In cases where both general building area type and a specific building area type are listed, the specific building area type shall apply.

The lighting power density for the proposed efficient lighting design must be determined in accordance with ASHRAE's method. Specifically, the proposed lighting wattage should be determined as described in Section 9.1.4 Luminaire Wattage. In essence, this means that a fixture's wattage is based on the maximum wattage lamp allowed by a fixture or its ballast.

In addition to meeting ASHRAE's requirement, four-foot ballasts driving T8 fluorescent lamps must meet or exceed the Ballast Efficacy Factors specified on the following page.

Electric Efficiency Program

New Construction Prescriptive Incentives

Minimum Ballast Efficacy Factors (BEFs) for Four-Foot Fluorescent Ballasts

# lamps per ballast	Low ballast factor (BF ≤ 0.85)	Medium ballast factor (0.85 < BF ≤ 1.0)	High ballast factor (BF > 1.0)
Instant-Start Ballasts			
1	3.08	3.11	n/a
2	1.60	1.58	1.55
3	1.04	1.05	1.04
4	0.79	0.80	0.77
Programmed Rapid-Start Ballasts			
1	2.84	2.84	n/a
2	1.48	1.47	1.51
3	0.97	1.00	1.00
4	0.76	0.75	0.75

Notes:

- $BEF = (BF \times 100) / \text{ballast input watts}$
- BF = ballast factor
- These guidelines were developed by the Consortium for Energy Efficiency (CEE) for use in voluntary energy-efficiency programs and are used here with their permission. For Terms and Usage, please see the CEE Web site (www.cee1.org).
- CEE's high-efficiency specifications are periodically revised. For the most current version, please see the CEE Web site (<http://www.cee1.org/com/com-lt/com-lt-specs.pdf>).

Electric Efficiency Program

New Construction Prescriptive Incentives

Premium Efficiency Motors

Motors meeting the following premium efficiency specification are eligible for the incentives listed in the table below.

Efficiency Requirements and Incentives for Premium Efficiency Motors

Poles Speed (RPM)	Open Drip-Proof (ODP)				Totally Enclosed Fan-Cooled (TEFC)			
	Min. Efficiencies			Incentives (\$/motor)	Min. Efficiencies			Incentives (\$/motor)
	2 3600	4 1800	6 1200		2 3600	4 1800	6 1200	
Motor Horsepower								
1	77.0*	85.5	82.5	\$ 12	77.0	85.5	82.5	\$ 11
1.5	84.0	86.5	86.5	\$ 13	84.0	86.5	87.5	\$ 12
2	85.5	86.5	87.5	\$ 16	85.5	86.5	88.5	\$ 16
3	85.5	89.5	88.5	\$ 30	86.5	89.5	89.5	\$ 19
5	86.5	89.5	89.5	\$ 32	88.5	89.5	89.5	\$ 32
7.5	88.5	91.0	90.2	\$ 49	89.5	91.7	91.0	\$ 43
10	89.5	91.7	91.7	\$ 57	90.2	91.7	91.0	\$ 54
15	90.2	93.0	91.7	\$ 75	91.0	92.4	91.7	\$ 66
20	91.0	93.0	92.4	\$ 100	91.0	93.0	91.7	\$ 102
25	91.7	93.6	93.0	\$ 114	91.7	93.6	93.0	\$ 93
30	91.7	94.1	93.6	\$ 125	91.7	93.6	93.0	\$ 112
40	92.4	94.1	94.1	\$ 133	92.4	94.1	94.1	\$ 133
50	93.0	94.5	94.1	\$ 182	93.0	94.5	94.1	\$ 182
60	93.6	95.0	94.5	\$ 196	93.6	95.0	94.5	\$ 196
75	93.6	95.0	94.5	\$ 202	93.6	95.4	94.5	\$ 235
100	93.6	95.4	95.0	\$ 313	94.1	95.4	95.0	\$ 256
125	94.1	95.4	95.0	\$ 320	95.0	95.4	95.0	\$ 319
150	94.1	95.8	95.4	\$ 365	95.0	95.8	95.8	\$ 345
200	95.0	95.8	95.4	\$ 484	95.4	96.2	95.8	\$ 524