

**COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY
RETROFIT INCENTIVES - NO NEW SERVICE**

Service under this schedule is intended to maximize the efficient utilization of the electricity requirements of existing loads in Commercial Buildings and Industrial Facilities through the installation of Energy Efficiency Measures. No new service after February 28, 2002.

Applicable

To service under the Company's General Service Schedules 23, 28, 30, 47 and 48 in all territory served by the Company in the State of Oregon. This schedule is applicable to existing Commercial Buildings and Industrial Facilities, 20,000 square feet or more. Square footage is the total Building or Facility area served by Company's meter(s).

Customers using more than "one average megawatt" (8,760,000 kilowatt hours of electricity per year) at a site may be required to sign a Company reimbursement agreement prior to receiving services or payments under this Schedule.

Definitions

Commercial Building: A structure that is served by Company under Customer's applicable electric service schedule.

Customer: Any party who has applied for, been accepted and receives service at the real property.

Energy Efficiency Incentive: Payment of money made by Company to Owner or Customer for installation of an Energy Efficiency Measure pursuant to an executed Energy Efficiency Incentive Agreement.

Energy Efficiency Incentive Agreement: An agreement between Owner or Customer and Company providing for Company to furnish Energy Efficiency Incentives with respect to Energy Efficiency Measures pursuant to this Tariff Schedule.

Energy Efficiency Measure (EEM): A permanently installed measure which can improve the efficiency of the Customer's electric energy use.

Incremental Cost: Incremental cost of retrofit measures is the total installed cost of the EEM or modification.

Industrial Facility: Buildings and process equipment associated with manufacturing.

Owner: The person who has both legal and beneficial title to the real property, and is the mortgager under a duly recorded mortgage of real property, the trustor under a duly recorded deed of trust.

Retrofit: Changes, modifications or additions to existing facility systems or equipment that do not involve complete removal and replacement with new systems or equipment.

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Incentives for Energy Efficiency Measures

The Company will provide Energy Efficiency Incentives to participating Owners or Customers who have installed the specific EEMs listed in the tables below.

Energy Efficiency Incentives will be provided upon EEM inspection according to the terms of an executed Energy Efficiency Incentive Agreement.

No Energy Efficiency Incentives will be paid for EEMs with simple payback (based on energy savings) of one year or less.

Cost Effective EEMs not listed in the incentive tables may be eligible for Energy Efficiency Incentives. Electric savings resulting from lighting interaction with mechanical equipment will not be eligible for an Energy Efficiency Incentive. The Company will complete an analysis of the incremental cost and electric energy savings and determine at its sole option whether to offer an Energy Efficiency Incentive and the Energy Efficiency Incentive amount. Energy Efficiency Incentives for such measures will be 35% of the **lesser of** (a) the product of multiplying the Measure Funding Limit by the Company's estimate of annual energy savings; or (b) the incremental cost as verified by the Company. The baseline for all fluorescent lighting Energy Efficient Measures not listed in the incentive tables will be the Energy Savings tube and Magnetic Energy Efficient ballast values (in watts) listed in Table 5(b) of the latest edition of the Oregon Non-Residential Energy Code. Energy savings shall be estimated by subtracting the annual energy use of the proposed Energy Efficient Lighting Measures from the baseline annual energy use.

In order to be eligible for the program, the sum of the qualifying Energy Efficiency Incentives must total at least \$250. Energy Efficiency Incentives shall not exceed 50% of the incremental cost of the measure.

Short Term Incentive

In addition to the Energy Efficiency Incentives provided for in this Schedule, Company will pay a Short Term Incentive for EEMs that are completed by December 31, 2001 as follows:

- (a) The Short Term Incentive for EEMs completed by December 31, 2001 shall be 25% of the Energy Efficiency Incentive.
- (b) Total Company paid incentives, including Energy Efficiency Incentives, Short Term Incentives and Company's Business Energy Tax Credit (BETC) offer shall not exceed 100% of the incremental cost of the EEM. If necessary, Company will re-calculate Short Term Incentive to meet this requirement.
- (c) For the purposes of the Short Term Incentive "complete" shall mean EEMs are permanently installed, capable of delivering energy savings, and final invoices are available to the Company.

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Measure Funding Limits

The Measure Funding Limits to be used in the calculation of Energy Efficiency Incentives for unlisted EEMs are:

- \$.1881 per kWh for EEMs with an expected life of 7 years
- \$.2528 per kWh for EEMs with an expected life of 10 years
- \$.3414 per kWh for EEMs with an expected life of 15 years
- \$.4091 per kWh for EEMs with an expected life of 20 years

Provisions of Service

- (1) Customers must make a request for an incentive prior to installing the EEMs. The request must include a Vendor or Customer - provided list of the existing equipment installed in the facility, proposed replacement equipment qualifying for the incentive, proposed energy savings and estimated incremental costs. Upon request, Company will provide proposed energy savings and estimated incremental costs of EEMs.
- (2) An Energy Efficiency Incentive Agreement will be signed by the Customer and the Company for the agreed-upon incentive prior to installation of the EEMs.
- (3) The Company shall inspect the installed EEMs and may inspect the pre-installation conditions to ensure that the equipment, operating parameters and/or materials are consistent with industry and Company standards.
- (4) Upon satisfactory installation of approved EEMs and receipt of invoice copies documenting all incremental costs by EEM, Company shall provide the Owner or Customer the Energy Efficiency Incentive for EEMs installed according to the terms of the executed Energy Efficiency Incentive Agreement.

Rules and Regulations

Service under this Schedule is subject to the General Rules and Regulations contained in the tariff of which this schedule is a part, and to those prescribed by regulatory authorities.

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Table 1 - Lighting Energy Efficiency Measures			
Category	Replace	with	Customer Incentive
Interior Fluorescent Fixture Upgrade to T8 lamps and electronic ballasts (EB)	4'-1 or 2 T12 lamp(s) + 1 magnetic ballast (MB)	4'-1 or 2 T8 lamps+1EB	\$5
	4'-3 or 4 T12 lamp(s) + MB(s)	4'- 3 or 4 T8 lamps+1EB	\$10
	8'-1,2,3 or 4 T12 lamps + MB(s)	8'- 1,2,3 or 4 T8 lamps +1EB	\$8
	8'-1,2,3 or 4 T12/HO lamps + MB(s)	8'- 1,2,3, or 4 T8/HO lamps +EB (maximum of 2)	\$15
Interior Fluorescent Delamping and Fixture Upgrade (Fixture removal is not eligible)	4'-2 T12 lamps + 1 MB	1-T8 lamp + 1EB	\$15
	4'-3 T12 lamps + 2 MB	2 or 1-T8 lamp + 1EB	\$20
	4'-4 T12 lamps + 2 MB	3-T8 lamps + 1EB	\$20
	4'-4 T12 + 2 MB	2 or 1-T8 lamp + 1EB	\$30
Interior Compact Fluorescent Lighting (CFL)	Incandescent	<10W (nominal) CFL hardwire fixture	\$10
	Incandescent	≥10, < 20W (nominal) CFL hardwire fixture	\$15
	Incandescent	≥20W (nominal) CFL hardwire fixture	\$20
Exit Signs	Incandescent or fluorescent exit signs	Light Emitting Diode (LED) or Electroluminescent (EL) Exit sign – 1 or 2 faced	\$15
Lighting Controls	Wall switch or no control	Occupancy Sensor (per sensor), (200-1000 Watt controlled)	\$20
	No control	Photocell (per sensor)	\$20
	No control	Time Clock (per control)	\$20
	Non-dimmable magnetic ballast	Dimmable Ballast	\$15
High-Intensity Discharge (HID) Lamps	< 100 Watt Mercury Vapor	<100 Watt Metal Halide, or <150 Watt HPS	\$30
	> 100 Watt Mercury Vapor	>100 Watt Metal Halide, or >150 Watt HPS	\$40
	Mercury Vapor	250 Watt Pulse Start Metal Halide	\$85
	Mercury Vapor	400 Watt Pulse Start Metal Halide	\$100
T5 Fluorescent Fixture Upgrade	Mercury Vapor	High Bay T5 lamp with electronic ballast	\$50
	1,2, or 3 T12 lamps + magnetic ballast(s)	T5 interior fixtures – 1,2,or 3 T5 lamps & 1EB	\$15

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Table 1 - Lighting Energy Efficiency Measures (continued)			Customer Incentive
Category	Replace	with	
Induction Lighting	Mercury Vapor	55 Watt – 165 Watt Induction Lighting	\$75
	Incandescent	55 Watt – 165 Watt Induction Lighting	\$50
Compact Metal Halide	Incandescent	PAR 100 Watt	\$45
	Incandescent	PAR 70 Watt	\$40

Table 2 - Energy Efficiency Measures			Customer Incentive
Category	Replace	with	
Programmable Thermostats	Non-programmable thermostat for air conditioner	Programmable thermostat for air conditioner	\$50
	Non-programmable thermostat for air conditioner	Optimizer programmable thermostat for heat pumps or all electric	\$70
Economizer (where not required by code)	No economizer	≤ 5.4 tons	\$200
	No economizer	> 5.4 tons and ≤ 11.3 tons	\$300
	No economizer	> 11.3 tons and ≤ 20 tons	\$400

- Notes: 1) Incentives in Tables 1 and 2 are for one-for-one replacements of like size measures.
 2) To be eligible for an incentive, economizer retrofits must use original equipment manufacturer provided or approved kits.

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Table 3 – Premium Efficiency Motors

Horsepower	Incentive (\$/motor)	Nominal Full Load Efficiencies (%)					
		1200 RPMs		1800 RPMs		3600 RPMs	
		Open Drip-Proof (ODP)	Totally Enclosed Fan-Cooled (TEFC)	Open Drip-Proof (ODP)	Totally Enclosed Fan-Cooled (TEFC)	Open Drip-Proof (ODP)	Totally Enclosed Fan-Cooled (TEFC)
1	\$10	82.5	82.5	85.5	85.5	80.0	78.5
1.5	\$15	86.5	87.5	86.5	86.5	85.5	85.5
2	\$20	87.5	88.5	86.5	86.5	86.5	86.5
3	\$30	89.5	89.5	89.5	89.5	86.5	88.5
5	\$50	89.5	89.5	89.5	89.5	89.5	89.5
7.5	\$75	91.7	91.7	91.0	91.7	89.5	91.0
10	\$100	91.7	91.7	91.7	91.7	90.2	91.7
15	\$150	92.4	92.4	93.0	92.4	91.0	91.7
20	\$200	92.4	92.4	93.0	93.0	92.4	92.4
25	\$250	93.0	93.0	93.6	93.6	93.0	93.0
30	\$300	93.6	93.6	94.1	93.6	93.0	93.0
40	\$400	94.1	94.1	94.1	94.1	93.6	93.6
50	\$500	94.1	94.1	94.5	94.5	93.6	94.1
60	\$600	95.0	94.5	95.0	95.0	94.1	94.1
75	\$750	95.0	95.0	95.0	95.4	94.5	94.5
100	\$1,000	95.0	95.4	95.4	95.4	94.5	95.0
125	\$1,250	95.4	95.4	95.4	95.4	95.0	95.4
150	\$1,500	95.8	95.8	95.8	95.8	95.4	95.4
200	\$2,000	95.4	95.8	95.8	96.2	95.4	95.8

Notes for Table 3:

- 1) Incentives are available for one-for-one same size motor replacements for 1-200 horsepower NEMA design A and B, three phase, integral horsepower motors.
- 2) Motors larger than 200 horsepower are not a listed measure and may be eligible for an incentive per other provisions in this tariff.
- 3) The Consortium for Energy Efficiency (CEE) Premium Efficiency ratings listed are nominal full-load efficiency ratings. Motors that meet or exceed these efficiency requirements may qualify for an incentive.
- 4) For 40 horsepower and smaller motors, to be eligible for an incentive the removed motor needs to be certified as recycled by the Customer.
- 5) For 50 horsepower and larger motors, to be eligible for an incentive the removed motor needs to be
 - a) Rewound according to Drive Power Motor Repair Purchasing Specification V1.1 (Source: Northwest Energy Efficiency Alliance), or
 Certified as recycled by the Customer.

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Table 4 – Mechanical Energy Efficiency Measures

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive (\$/ton)
Unitary Commercial Air Conditioners, Air Cooled (Cooling Mode)	< 65,000 Btu/hr	Split System and Single Package	13.0 SEER	\$30
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split System and Single Package	11.0 EER 11.4 IPLV	\$30
	≥ 135,000 Btu/hr and ≤ 240,000 Btu/hr	Split System and Single Package	10.8 EER 11.2 IPLV	\$30
	> 240,000 Btu/hr	Split System and Single Package	10.0 EER 10.4 IPLV	\$30
Unitary Commercial Air Conditioners, Water and Evaporatively Cooled	all	Split System and Single Package	14.0 EER	\$40
Package Terminal Air Conditioners (PTAC) (Heating & Cooling Mode)	≤ 18,000 Btu/hr	Single Package	11.0 SEER 6.8 HSPF	\$50
Heat Pumps, Air Cooled (Cooling Mode)	< 65,000 Btu/hr	Split System and Single Package	13.0 SEER	\$30
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split System and Single Package	11.0 EER 11.4 IPLV	\$30
	≥ 135,000 Btu/hr and ≤ 240,000 Btu/hr	Split System and Single Package	10.8 EER 11.2 IPLV	\$30
	> 240,000 Btu/hr	Split System and Single Package	10.0 EER 10.4 IPLV	\$30
Heat Pumps, Air Cooled (Heating Mode)	< 65,000 Btu/hr	Split System	8.0 HSPF	\$10
		Single Package	7.5 HSPF	\$10
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	47°F. db /43°F. wb Outdoor Air	3.4 COP	\$10
		17°F. db /15°F. wb Outdoor Air	2.4 COP	\$10
	≥ 135,000 Btu/hr	47°F. db /43°F. wb Outdoor Air	3.3 COP	\$10
	17°F. db /15°F. wb Outdoor Air	2.2 COP	\$10	
Heat Pumps, Water Source (Cooling Mode)	< 135,000 Btu/hr	85°F. Entering water	14.0 EER	\$40
Heat Pumps, Water Source (Heating Mode)	< 135,000 Btu/hr	70°F. Entering water	4.6 COP	\$10

Notes for Table 4:

- 1) Incentives are for one-for-one same size equipment replacements. Exception: PTACs can replace electric resistive heating.
- 2) Equipment that meets or exceeds the efficiency requirements listed in the above table may qualify for an incentive.
- 3) Heat Pumps must meet both the cooling mode and heating mode efficiency requirements to qualify for incentives.
- 4) Removed units may not be installed elsewhere at Customer facilities.
- 5) **SEER** = Seasonal Energy Efficiency Ratio **EER** = Energy Efficiency Ratio **COP** = Coefficient of Performance
HSPF = Heating Seasonal Performance Factor **IPLV** = Integrated Part Load Value.