



**Portland General Electric**  
121 SW Salmon Street · Portland, Ore. 97204

November 15, 2019

Public Utility Commission of Oregon  
Attn: Filing Center  
201 High Street, S.E.  
P.O. Box 1088  
Salem, OR 97308-1088

**RE: Advice No. 19-28, Annual Update Tariff**

Portland General Electric Company (PGE) submits this filing pursuant to Oregon Revised Statutes (ORS) 757.205 and 757.210, and Oregon Administrative Rules (OARs) 860-022-0025 and 860-022-0030, for filing proposed tariff sheets associated with Tariff P.U.C. No. 18 with a requested effective date of **January 1, 2020**:

Twenty Third Revision of Sheet No. 1-1  
Sixteenth Revision of Sheet No. 7-1  
Tenth Revision of Sheet No. 7-3  
Eleventh Revision of Sheet No. 15-1  
Twelfth Revision of Sheet No. 15-2  
Thirteenth Revision of Sheet No. 15-3  
Fifteenth Revision of Sheet No. 15-4  
Tenth Revision of Sheet No. 15-5  
Third Revision of Sheet No. 26-5  
Thirteenth Revision of Sheet No. 32-1  
Thirteenth Revision of Sheet No. 38-1  
Thirteenth Revision of Sheet No. 47-1  
Fourteenth Revision of Sheet No. 49-1  
Sixteenth Revision of Sheet No. 75-1  
Fifteenth Revision of Sheet No. 83-1  
Twelfth Revision of Sheet No. 85-1  
Sixteenth Revision of Sheet No. 89-1  
Eighth Revision of Sheet No. 90-1  
Fifteenth Revision of Sheet No. 91-7  
Fifteenth Revision of Sheet No. 92-1  
Sixteenth Revision of Sheet No. 95-5  
Eighteenth Revision of Sheet No. 125-3  
Eleventh Revision of Sheet No. 485-1

Sixteenth Revision of Sheet No. 489-1  
Ninth Revision of Sheet No. 490-1  
Eighth Revision of Sheet No. 491-6  
Eighth Revision of Sheet No. 492-1  
Twelfth Revision of Sheet No. 495-5  
Twelfth Revision of Sheet No. 515-1  
Thirteenth Revision of Sheet No. 515-2  
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Fourteenth Revision of Sheet No. 583-1  
Eleventh Revision of Sheet No. 585-1  
Sixteenth Revision of Sheet No. 589-1  
Eighth Revision of Sheet No. 590-1  
Eighteenth Revision of Sheet No. 591-6  
Thirteenth Revision of Sheet No. 592-1  
Fourth Revision of Sheet No. 595-5

The Company hereby **withdraws**:

Second Revision of Sheet No. 6-1  
Sixth Revision of Sheet No. 6-2  
Fourth Revision of Sheet No. 6-3  
Fourth Revision of Sheet No. 6-4  
Third Revision of Sheet No. 6-5  
Fourth Revision of Sheet No. 6-6  
Third Revision of Sheet No. 6-7  
Fourth Revision of Sheet No. 6-8  
First Revision of Sheet No. 6-9  
Second Revision of Sheet No. 6-10

The purpose of this filing is to revise Schedules 26 and 125 consistent with the final net variable power costs (NVPC) of \$393.5 million determined in Docket No. UE 359. In addition, PGE resets the numerous System Usage, Distribution, and lighting fixture charges contained in PGE's base rate schedules consistent with the Special Conditions contained in Schedule 129. These charges are reset based on new long-term direct access participation during the September 2019 enrollment window. The change in unit NVPC inclusive of revenue sensitive costs and changes in Production Tax Credits is an increase of approximately \$28.5 million. The changes in System Usage, Distribution, and lighting fixture prices result in a decrease of approximately \$1.8 million.

The Schedule 125 Annual Power Cost Update prices reflect the final NVPC submitted to the Commission November 15, 2019, in accordance with OPUC Order No. 19-329.

The Schedule 26 Nonresidential Demand Response Pilot Program energy prices are updated based on the 2020 forward market gas prices contained in the final UE 359 NVPC.

Schedule 6, Residential Pricing Pilot is being withdrawn from the tariff in its entirety as the Pilot is no longer active.

To satisfy the requirements of Oregon Administrative Rules (OAR) 860-022-0025(2) and 860-22-0030(1), PGE provides the following responses:

The changes in Schedules 125 and the various System Usage, Distribution and lighting fixture charge changes result in an increase of revenues for Cost-of-Service customers of approximately \$26.7 million or 1.5% of base revenues. Approximately 900,000 customers (2020 average) will be impacted by these price changes. A typical Schedule 7 Residential customer consuming 800 kWh monthly will see a bill increase of \$1.33 or 1.3% inclusive of Public Purpose Charge effects.

The following work papers are included in this filing:

Attachment A Schedule 125 Annual Power Cost  
Attachment B System Usage Charge Calculations  
Attachment C Table Demonstrating the Base Rate Impacts by Rate Schedule

Please direct any questions regarding this filing to me at (503) 464-8954.

Please direct all formal correspondence and requests to the following email address  
[pge.opuc.filings@pgn.com](mailto:pge.opuc.filings@pgn.com)

Sincerely,



Robert Macfarlane  
Manager, Pricing & Tariffs

Enclosures

PORTLAND GENERAL ELECTRIC COMPANY  
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(D)

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**SCHEDULE 7  
RESIDENTIAL SERVICE**

**PURPOSE**

This schedule provides Standard and Optional Service choices for residential customers. Optional Services include a time of use (TOU) portfolio option, Peak Time Rebate, and Green Future<sup>SM</sup> renewable portfolio options.

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Residential Customers.

**DEFINITIONS**

Peak Time Rebate (PTR) Program – Customers choosing the PTR program are eligible to receive a rebate for reducing Energy use during Company-called events, relative to each Customer's baseline Energy use, as determined by the Company. See details below.

**ENERGY PRICE PLANS (DEFAULT PLAN AND TIME-OF-USE PORTFOLIO OPTION)**

RESIDENTIAL SERVICE PRICE PLAN (DEFAULT PLAN)

This default plan is provided to Residential Customers who do not choose the TOU Portfolio option price plan.

***Monthly Rate***

The default plan is priced as the totals of the following charges per Service Point (SP)\*, \*\*:

<u>Basic Charge</u>	\$11.00		
<u>Transmission and Related Services Charge</u>	0.243	¢ per kWh	
<u>Distribution Charge</u>	4.652	¢ per kWh	<b>(R)</b>
<u>Energy Charge**</u>			
First 1,000 kWh	6.329	¢ per kWh	
Over 1,000 kWh	7.051	¢ per kWh	

\* See Schedule 100 for applicable adjustments.

\*\* As defined in Section Rule B of this tariff.

**SCHEDULE 7 (Continued)**

ENERGY PRICE PLANS: DEFAULT PLAN (Continued)

Special Conditions Related to Peak Time Rebate Options

1. To be eligible for a PTR credit, the Customer must agree to receive PTR notifications.
2. The Customer may unsubscribe from the PTR event notification at any time. If the Customer unsubscribes, they will receive credit only for those events for which they are enrolled and receive notifications.
3. The PTR incentive may be provided in an on-bill credit on the Customer's next monthly billing statement or by check at the next billing statement after the event season ends.
4. Customers enrolled in Schedule 5 Direct Load Control are not eligible to participate in PTR on this schedule.
5. Customers with interconnected energy storage are only eligible for this schedule if the energy storage system is controlled by the Company and not the Customer.
6. The Company will defer and seek recovery of all PTR costs not otherwise included in rates.

TIME-OF-USE PORTFOLIO OPTION (WHOLE PREMISES OR ELECTRIC VEHICLE CHARGING) (Enrollment is necessary)

This option provides TOU pricing for transmission and related services, distribution and Energy\*.

**Monthly Rate**

<u>Basic Charge</u>	\$11.00		
<u>Transmission and Related Services Charge TOU Portfolio</u>			
On-Peak Period	0.397	¢ per kWh	
Mid-Peak Period	0.397	¢ per kWh	
Off-Peak Period	0.000	¢ per kWh	
<u>Distribution Charge TOU Portfolio</u>			
On-Peak Period	7.601	¢ per kWh	(R)
Mid-Peak Period	7.601	¢ per kWh	(R)
Off-Peak Period	0.000	¢ per kWh	
<u>Energy Charge TOU Portfolio</u>			
On-Peak Period	12.380	¢ per kWh	
Mid-Peak Period	7.051	¢ per kWh	
Off-Peak Period	4.128	¢ per kWh	
First 1,000 kWh block adjustment**	(0.722)	¢ per kWh	

\* See Schedule 100 for applicable adjustments.

\*\* Not applicable to separately metered Electric Vehicle (EV) TOU option.

**SCHEDULE 15  
OUTDOOR AREA LIGHTING  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Customers for outdoor area lighting.

**CHARACTER OF SERVICE**

Lighting services, which consist of the provision of Company-owned luminaires mounted on Company-owned poles, in accordance with Company specifications as to equipment, installation, maintenance and operation.

The Company will replace lamps on a scheduled basis. Subject to the Company's operating schedules and requirements, the Company will replace individual burned-out lamps as soon as reasonably possible after the Customer notifies the Company of the burn-out.

**MONTHLY RATE**

Included in the service rates for each installed luminaire are the following pricing components:

<u>Transmission and Related Services Charge</u>	0.152	¢ per kWh	
<u>Distribution Charge</u>	6.389	¢ per kWh	(R)
<u>Cost of Service Energy Charge</u>	4.898	¢ per kWh	

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)

Rates for Area Lighting

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	Monthly Rate (1) <u>Per Luminaire</u>	
Cobrahead					
Mercury Vapor	175	7,000	66	\$12.30 <sup>(2)</sup>	(R)
	400	21,000	147	22.11 <sup>(2)</sup>	(R)
	1,000	55,000	374	48.30 <sup>(2)</sup>	(R)
HPS	70	6,300	30	8.22 <sup>(2)</sup>	
	100	9,500	43	9.71	
	150	16,000	62	11.99	(R)
	200	22,000	79	14.32	
	250	29,000	102	16.83	(R)
	310	37,000	124	19.70 <sup>(2)</sup>	(R)
	400	50,000	163	23.88	(R)
Flood, HPS	100	9,500	43	9.60 <sup>(2)</sup>	
	200	22,000	79	14.53 <sup>(2)</sup>	
	250	29,000	102	17.12	(R)
	400	50,000	163	24.10	(R)
Shoebox, HPS (bronze color, flat	70	6,300	30	9.53	
lens or drop lens, multi-volt)	100	9,500	43	10.71	
	150	16,500	62	13.20	(R)
Special Acorn Type, HPS	100	9,500	43	12.96	
HADCO Victorian, HPS	150	16,500	62	15.13	(R)
	200	22,000	79	17.75	
	250	29,000	102	20.38	(R)
Early American Post-Top, HPS					
Black	100	9,500	43	10.08	

(1) See Schedule 100 for applicable adjustments.

(2) No new service.



**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Per Luminaire<sup>(1)</sup></u>	
Special Types					
Cobrahead, Metal Halide	150	10,000	60	\$12.17	(R)
	175	12,000	71	13.51	(R)
Flood, Metal Halide	350	30,000	139	21.37	(R)
	400	40,000	156	23.49	(R)
Flood, HPS	750	105,000	285	41.26	(R)
HADCO Independence, HPS	100	9,500	43	13.11	
	150	16,000	62	15.28	(R)
HADCO Capitol Acorn, HPS	100	9,500	43	16.56	
	150	16,000	62	17.46	(R)
	200	22,000	79	19.42	
	250	29,000	102	22.04	(R)
HADCO Techtra, HPS	100	9,500	43	21.46	
	150	16,000	62	23.41	(R)
	250	29,000	102	27.82	(R)
HADCO Westbrooke, HPS	70	6,300	30	14.02	
	100	9,500	43	15.09	
	150	16,000	62	21.81	(R)
	200	22,000	79	19.39	
	250	29,000	102	22.59	(R)
Holophane Mongoose, HPS	150	16,000	62	15.52	(R)

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)  
Rates for LED Area Lighting

Type of Light	Watts	Lumens	Monthly kWh	Monthly Rate Per Luminaire <sup>(1)</sup>	
Acorn LED	38	3,262	13	\$11.24	
	60	4,213	21	14.30	
	70	4,332	24	14.14	
	75	4,897	26	14.87	(R)
Acrylic LED	60	5,488	21	12.86	
	HADCO LED	70	5,120	24	17.79
Roadway LED	29	3,470	10	3.70	
	37	2,530	13	4.70	
	45	5,020	15	4.51	
	50	3,162	17	5.12	(R)
	52	3,757	18	5.60	
	67	5,050	23	6.21	
	88	10,230	30	6.75	
	106	7,444	36	7.99	
	134	14,200	46	11.98	(R)
	156	16,300	53	13.29	(R)
	160	18,700	55	12.83	(R)
	176	18,300	60	14.98	(R)
201	21,400	69	15.50	(R)	
Westbrooke LED (Non-Flare)	36	3,369	12	15.54	
	53	5,079	18	17.51	
	69	6,661	24	17.46	
	85	8,153	29	18.66	
	136	12,687	46	22.20	(R)
	206	18,159	70	24.67	
Westbrooke LED (Flare)	36	3,369	12	15.90	
	53	5,079	18	18.06	
	69	6,661	24	18.91	
	85	8,153	29	20.20	
	136	12,687	46	21.81	(R)
	206	18,159	70	25.95	

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)  
Rates for LED Area Lighting (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Per Luminaire<sup>(1)</sup></u>	
CREE XSP LED	25	2,529	9	\$3.34	
	42	3,819	14	4.00	
	48	4,373	16	4.63	
	56	5,863	19	5.41	(R)
	91	8,747	31	6.79	
Post-Top, American Revolution LED	45	3,395	15	8.17	
	72	4,409	25	8.81	
Flood LED	85	10,530	29	9.22	
	128	16,932	44	11.53	(R)
	184	23,797	63	14.61	
	371	48,020	127	26.59	(R)

Rates for Area Light Poles<sup>(2)</sup>

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rate Per Pole</u>
Wood, Standard	35 or less	\$5.21
	40 to 55	\$6.21
Wood, Painted for Underground	35 or less	\$5.21 <sup>(3)</sup>
Wood, Curved Laminated	30 or less	\$6.56 <sup>(3)</sup>
Aluminum, Regular	16	\$6.44
	25	\$10.60
	30	\$11.39
	35	\$12.68
Aluminum, Fluted Ornamental	14	\$9.56
Aluminum, Fluted Ornamental	16	\$10.31
Aluminum, Double-Arm, Smooth Ornamental	18	\$14.02

(1) See Schedule 100 for applicable adjustments.

(2) No pole charge for luminaires placed on existing Company-owned distribution poles.

(3) No new service.

**SCHEDULE 26 (Continued)**

**ENERGY PAYMENTS**

The Energy Payment is the Mid-Columbia Electricity Index (Mid-C) as reported by the Powerdex, adjusted for losses based on the Customer's delivery voltage. The Firm Energy Reduction Amount can be up to 120% of the commitment.

The monthly energy prices (per MWh) for the months in which the events are called\* are:

Jan 2020	Feb 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Nov 2020	Dec 2020
\$35.15	\$32.45	\$20.90	\$44.30	\$54.40	\$36.65	\$29.65	\$42.80

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The Firm Energy Reduction Payment rates will be updated by December 1<sup>st</sup> for the next year beginning in January. Evaluation and settlement of the Firm Energy Reduction Payment will occur within 60 days of the Firm Load Reduction Event.

\* PGE will not call events on Saturdays, Sundays, or Holidays. Holidays are New Year's Day (January 1), President's Day (third Monday of February), Memorial Day (last Monday in May), Independence Day (July 4), Labor Day (first Monday in September), Thanksgiving Day (fourth Thursday in November), and Christmas Day (December 25). If a holiday falls on Saturday, Friday is designated a holiday. If a holiday falls on Sunday, the following Monday is designated a holiday.

**LINE LOSSES**

Losses will be included by multiplying the applicable price by the following adjustment factors:

Subtransmission Delivery Voltage	1.0356
Primary Delivery Voltage	1.0496
Secondary Delivery Voltage	1.0685

**LOAD REDUCTION MEASUREMENT**

Load Reduction is measured as a reduction of Demand from a Customer Baseline Load calculation during each hour of the Load Reduction Event. Although the Firm Load Reduction Agreement shall specify the Customer Baseline Load calculation methodology to be used, PGE generally uses the following baseline methodology:

Baseline Load Profile

The Baseline Load Profile is based upon the average hourly load of the five highest load days in the last ten Typical Operational Days for the Event period. For Customers choosing the four-hour or 10-minute notification options there is an adjustment to the amounts above to reflect the day-of operational characteristics leading up to the Event if the Event starts at 11 am or later. This adjustment is the difference between the Event day load and the average load of the five highest days used in the load profile above during the two-hour period ending four hours prior to the start of the Event.

**SCHEDULE 32  
SMALL NONRESIDENTIAL  
STANDARD SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Small Nonresidential Customers. A Small Nonresidential Customer is a Customer that has not exceeded 30 kW more than once within the preceding 13 months, or with seven months or less of service has not exceeded 30 kW.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

Basic Charge

Single Phase Service	\$20.00
Three Phase Service	\$29.00

Transmission and Related Services Charge                      0.206    ¢ per kWh

Distribution Charge

First 5,000 kWh	4.222	¢ per kWh	(R)
Over 5,000 kWh	1.477	¢ per kWh	(R)

Energy Charge Options

Standard Service	5.842	¢ per kWh
or		
Time-of-Use (TOU) Portfolio (enrollment is necessary)		
On-Peak Period	10.378	¢ per kWh
Mid-Peak Period	5.842	¢ per kWh
Off-Peak Period	3.462	¢ per kWh

\* See Schedule 100 for applicable adjustments.

**SCHEDULE 38  
LARGE NONRESIDENTIAL OPTIONAL TIME-OF-DAY  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

This optional schedule is applicable to Large Nonresidential Customers: 1) served at Secondary voltage with a monthly Demand that does not exceed 200 kW more than once in the preceding 13 months; or 2) who were receiving service on Schedule 38 as of December 31, 2015.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>	\$30.00		
<u>Transmission and Related Services Charge</u>	0.171	¢ per kWh	
<u>Distribution Charge</u>	7.031	¢ per kWh	(R)
<u>Energy Charge*</u>			
On-Peak Period	6.070	¢ per kWh	
Off-Peak Period	4.570	¢ per kWh	

\* See Schedule 100 for applicable adjustments.

\*\* On-peak Period is Monday-Friday, 7:00 a.m. to 8:00 p.m. off-peak Period is Monday-Friday, 8:00 p.m. to 7:00 a.m.; and all day Saturday and Sunday.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In Addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**REACTIVE DEMAND**

In addition to the Monthly Rate, the Customer will pay 50¢ for each kilovolt-ampere of Reactive Demand in excess of 40% of the maximum Demand. Such charge is separate from and in addition to the Minimum Charge specified.

**SCHEDULE 47  
SMALL NONRESIDENTIAL  
IRRIGATION AND DRAINAGE PUMPING  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Small Nonresidential Customers for irrigation and drainage pumping; may include other incidental service if an additional meter would otherwise be required. A Small Nonresidential Customer is a Customer that has not exceeded 30 kW more than once within the preceding 13 months, or with seven months or less of service has not exceeded 30 kW.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>			
Summer Months**	\$37.00		
Winter Months**	No Charge		
<u>Transmission and Related Services Charge</u>	0.213	¢ per kWh	
<u>Distribution Charge</u>			
First 50 kWh per kW of Demand***	11.089	¢ per kWh	(R)
Over 50 kWh per kW of Demand	9.089	¢ per kWh	(R)
<u>Energy Charge</u>	7.094	¢ per kWh	

\* See Schedule 100 for applicable adjustments.

\*\* Summer Months and Winter Months commence with meter readings as defined in Rule B.

\*\*\* For billing purposes, the Demand will not be less than 10 kW.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**SCHEDULE 49  
LARGE NONRESIDENTIAL  
IRRIGATION AND DRAINAGE PUMPING  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers for irrigation and drainage pumping; may include other incidental service if an additional meter would otherwise be required. A Large Nonresidential Customer is defined as having a monthly Demand exceeding 30 kW at least twice within the preceding 13 months, or with seven months or less of service having exceeding 30 kW once.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>			
Summer Months**	\$45.00		
Winter Months**	No Charge		
<u>Transmission and Related Services Charge</u>	0.212	¢ per kWh	
<u>Distribution Charge</u>			
First 50 kWh per kW of Demand***	8.089	¢ per kWh	(R)
Over 50 kWh per kW of Demand	6.089	¢ per kWh	(R)
<u>Energy Charge</u>	7.068	¢ per kWh	

\* See Schedule 100 for applicable adjustments.

\*\* Summer Months and Winter Months commence with meter readings as defined in Rule B.

\*\*\* For billing purposes, the Demand will not be less than 30 kW.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.



**SCHEDULE 75  
PARTIAL REQUIREMENTS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers supplying all or some portion of their load by self-generation operating on a regular basis, where the self-generation has a total nameplate rating of 2 MW or greater. A Large Nonresidential Customer is a Customer that has exceeded 30 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 30 kW.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,340.00	\$1,890.00	\$3,970.00	
 <u>Transmission and Related Services Charge</u>				
per kW of monthly On-Peak Demand	\$0.78	\$0.76	\$0.75	
 <u>Distribution Charges</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.53	\$1.49	\$1.49	
Over 4,000 kW	\$1.22	\$1.18	\$1.18	
per kW of monthly On-Peak Demand	\$2.61	\$2.53	\$1.27	
 <u>Generation Contingency Reserves Charges</u>				
<u>Spinning Reserves</u>				
per kW of Reserved Capacity > 2,000 kW	\$0.234	\$0.234	\$0.234	
<u>Supplemental Reserves</u>				
per kW of Reserved Capacity > 2,000 kW	\$0.234	\$0.234	\$0.234	
<u>System Usage Charge</u>				
per kWh	0.092 ¢	0.089 ¢	0.087 ¢	<b>(R)</b>
<u>Energy Charge</u>				
per kWh	See Energy Charge Below			

\* See Schedule 100 for applicable adjustments.

**SCHEDULE 83  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(31 – 200 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customers whose Demand has not exceeded 200 kW more than six times in the preceding 13 months and has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW. Service under this Schedule is available for Secondary Delivery Voltage only.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

Basic Charge

Single Phase Service	\$35.00
Three Phase Service	\$45.00

Transmission and Related Services Charge

per kW of monthly On-Peak Demand	\$0.78
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Distribution Charges\*\*

The sum of the following:

per kW of Facility Capacity	
First 30 kW	\$3.50
Over 30 kW	\$3.40
per kW of monthly On-Peak Demand	\$2.61

Energy Charge (per kWh)

On-Peak Period***	6.335 ¢
Off-Peak Period***	4.835 ¢

See below for Daily Pricing Option description.

System Usage Charge

per kWh	0.689 ¢
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(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable SP.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 85  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(201 – 4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Secondary Delivery Voltage Large Nonresidential Customer whose Demand has exceeded 200 kW more than six times in the preceding 13 months but has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW. To each Primary Delivery Voltage Large Nonresidential Customer whose Demand has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

	<u>Delivery Voltage</u>	
	<u>Secondary</u>	<u>Primary</u>
<u>Basic Charge</u>	\$560.00	\$470.00
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.78	\$0.76
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity		
First 200 kW	\$3.17	\$3.10
Over 200 kW	\$1.97	\$1.90
per kW of monthly On-Peak Demand	\$2.61	\$2.53
<u>Energy Charge (per kWh)</u>		
On-Peak Period***	6.191 ¢	6.068 ¢
Off-Peak Period***	4.691 ¢	4.586 ¢
See below for Daily Pricing Option description.		
<u>System Usage Charge</u> per kWh	0.087 ¢	0.083 ¢

**(R)**

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable SP.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 89  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(>4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer whose Demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,340.00	\$1,890.00	\$3,970.00	
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.78	\$0.76	\$0.75	
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity				
First 4,000 kW	\$1.53	\$1.49	\$1.49	
Over 4,000 kW	\$1.22	\$1.18	\$1.18	
per kW of monthly On-Peak Demand	\$2.61	\$2.53	\$1.27	
<u>Energy Charge (per kWh)</u>				
On-Peak Period***	5.869 ¢	5.773 ¢	5.702 ¢	
Off-Peak Period***	4.369 ¢	4.273 ¢	4.202 ¢	
See below for Daily Pricing Option description.				
<u>System Usage Charge</u> per kWh	0.092 ¢	0.089 ¢	0.087 ¢	<b>(R)</b>

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable SP.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 90  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(>4,000 kW and Aggregate to >100 MWa)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer who meet the following conditions: 1) Individual account demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW; and 2) where combined usage of all accounts meeting condition 1 for the Large Nonresidential Customer aggregate to at least 100 MWa in a calendar year; and 3) the customer maintains a load factor of 80% or greater for each account.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>	\$6,100.00	
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.76	
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity First 4,000 kW	\$1.61	
Over 4,000 kW	\$1.30	
per kW of monthly on-peak Demand	\$2.53	
<u>Energy Charge</u> (per kWh) On-Peak Period***	5.577¢	
Off-Peak Period***	4.077¢	
See below for Daily Pricing Option description.		
<u>System Usage Charge</u> per kWh	0.044¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable SP.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 91 (Continued)**

**MONTHLY RATE**

In addition to the service rates for Option A and B lights, all Customers will pay the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Transmission and Related Services Charge</u>	0.152 ¢ per kWh
<u>Distribution Charge</u>	6.389 ¢ per kWh
<u>Energy Charge</u>	
Cost of Service Option	4.898 ¢ per kWh

(R)

Daily Price Option – Available only to Customers with an average load of five MW or greater on Schedules 91 and 95 and those customers that met the five MW or greater threshold prior to converting to lights from Schedule 91 to Schedule 95. This selection of this option applies to all luminaires served under Schedules 91 and 95. This option gives eligible Customers an option between a daily Energy price and a Cost of Service option for the Energy charge. In addition to the daily Energy price, the Customer will pay a Basic Charge of \$75 per month to help offset the costs of billing this option. The daily Energy price for all kWh will be the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.306¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period.

Prices reported with no transaction volume or as "survey-based" will be considered reported. For the purposes of calculating the daily on- and off-peak usage, actual kWhs will be determined for each month, using Sunrise Sunset Tables with adjustments for typical photocell operation and 4,100 annual burning hours.

For Customers billed on the Daily price Option, an average of the daily rates will be used to bill installations and removals that occur during the month. Any additional analysis of billing options and price comparisons beyond the monthly bill will be billed at a rate of \$100 per manhour.

Losses will be included by multiplying the applicable daily Energy price by 1.0685.

The Daily Price Option is subject to Schedule 128, Short Term Transition Adjustment.

Enrollment for Service

To begin service under the Daily Price Option on January 1<sup>st</sup>, the Customer will notify the Company by 5:00 p.m. PPT on November 15<sup>th</sup> (or the following working day if the 15<sup>th</sup> falls on a weekend or holiday) of the year prior to the service year of its choice of this option. Customers selecting this option must commit to this option for an entire service year. The Customer will continue to be billed on this option until timely notice is received to return to the Cost of Service Option.

**SCHEDULE 92  
TRAFFIC SIGNALS  
(NO NEW SERVICE)  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To municipalities or agencies of federal or state governments where funds for payment of Electricity are provided through taxation or property assessment for traffic signals and warning facilities in systems containing at least 50 intersections on public streets and highways. This schedule is available only to those governmental agencies receiving service under Schedule 92 as of September 30, 2001.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Transmission and Related Services Charge</u>	0.159 ¢ per kWh	
<u>Distribution Charge</u>	2.915 ¢ per kWh	(R)
<u>Energy Charge</u>	5.109 ¢ per kWh	

\* See Schedule 100 for applicable adjustments.

**ELECTION WINDOW**

Balance-of-Year Election Window

The Balance-of-Year Election Window begins at 8:00 a.m. on February 15<sup>th</sup> (or the following business day if the 15<sup>th</sup> falls on a weekend or holiday). The Window will remain open from 8:00 a.m. of the first day through 5:00 p.m. of the third business day of the Election Window.

Balance-of-Year Election Window, a Customer may notify the Company of its choice to move to Direct Access Service. For the February 15<sup>th</sup> election, the move is effective on the following April 1<sup>st</sup>. A Customer may not choose to move from an alternative option back to Cost of service during a Balance-of-Year Election Window.

### SCHEDULE 95 (Continued)

#### LUMINAIRE SERVICE OPTIONS (Continued)

#### Special Provisions for Schedule 91/95/491/495/591/595 Option B to Schedule 95/495/595 Option C Luminaire Conversion and Future Maintenance Election (Continued)

2. Upon such conversion, the Customer will assume and bear the cost of all on-going maintenance responsibilities for the luminaires and associated circuits in accordance with this schedule's provisions for Option C luminaires from the date each luminaire is converted to Option C. After the three or five year period, any remaining Option B luminaires will be converted to Option C. The Company may not provide new Option B lighting under Schedule 91/95 following the election to convert any Option B luminaires to Schedule 91 or Schedule 95 Option C luminaires.

#### STREETLIGHT POLES SERVICE OPTIONS

See Schedule 91 for Streetlight poles service options.

#### MONTHLY RATE

In addition to the service rates for Option A and Option B lights, all Customers will pay the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Transmission and Related Services Charge</u>	0.152 ¢ per kWh
<u>Distribution Charge</u>	6.389 ¢ per kWh
<u>Energy Charge</u>	
Cost of Service Option	4.898 ¢ per kWh

(R)

#### NON-COST OF SERVICE OPTION

Daily Price Option – Available only to Customers with an average load of five MW or greater on Schedules 91 and 95 and those customers that met the five MW or greater threshold prior to converting to lights from Schedule 91 to Schedule 95. This selection of this option applies to all luminaires served under Schedules 91 and 95. This option gives eligible Customers an option between a daily Energy price and a Cost of Service option for the Energy charge. In addition to the daily Energy price, the Customer will pay a Basic Charge of \$75 per month to help offset the costs of billing this option. The daily Energy price for all kWh will be the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.306¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period.

Prices reported with no transaction volume or as "survey-based" will be considered reported. For the purposes of calculating the daily on- and off-peak usage, actual kWhs will be determined for each month, using Sunrise Sunset Tables with adjustments for typical photocell operation and 4,100 annual burning hours.



**SCHEDULE 125 (Concluded)**

**ADJUSTMENT RATES**

Schedule		¢ per kWh	(R)
7		0.176	
15		0.134	
32		0.160	
38		0.147	
47		0.194	
49		0.193	
75			
	Secondary	0.144 <sup>(1)</sup>	
	Primary	0.141 <sup>(1)</sup>	
	Subtransmission	0.137 <sup>(1)</sup>	
83		0.159	
85			
	Secondary	0.155	
	Primary	0.151	
89			
	Secondary	0.144	
	Primary	0.141	
	Subtransmission	0.137	
90		0.135	
91		0.134	
92		0.140	
95		0.134	(R)

(1) Applicable only to the Baseline and Scheduled Maintenance Energy.

**SPECIAL CONDITIONS**

1. Costs recovered through this schedule will be allocated to each schedule using the applicable schedule's forecasted energy on the basis of an equal percent of generation revenue applied on a cents per kWh basis to each applicable rate schedule.

**SCHEDULE 485  
LARGE NONRESIDENTIAL  
COST OF SERVICE OPT-OUT  
(201 - 4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer whose Demand has exceeded 200 kW more than six times in the preceding 13 months but has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW and who has previously enrolled in a long-term opt-out window. To obtain service under this schedule, Customers must initially enroll a minimum of 1 MWa determined by a demonstrated usage pattern such that projected usage for a full 12 months is at least 8,760,000 kWh (1 MWa) from one or more Service Points (SPs). Each SP must have a Facility Capacity of at least 250 kW. Customers with existing enrolled SPs meeting the 1 MWa criteria above may, in a subsequent enrollment window enroll additional SPs so long as the 250 kW Facility Capacity requirement is met. Service under this schedule is limited to the first 300 MWa that applies to Schedules 485, 489, 490, 491, 492, and 495. Beginning with the September 2004 Enrollment Period\*\*\* C, Customers have a minimum five-year option and a fixed three-year option.

**MONTHLY RATE**

The Monthly Rate will be the sum of the following charges at the applicable Delivery Voltage per SP\*:

	<u>Delivery Voltage</u>		
	<u>Secondary</u>	<u>Primary</u>	
<u>Basic Charge</u>	\$560.00	\$470.00	
<u>Distribution Charges**</u>			
The sum of the following:			
per kW of Facility Capacity			
First 200 kW	\$3.17	\$3.10	
Over 200 kW	\$1.97	\$1.90	
per kW of monthly On-Peak Demand	\$2.61	\$2.53	
<u>System Usage Charge</u>			
per kWh	(0.038) ¢	(0.039) ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.

\*\*\* A list of Enrollment Periods can be found in Schedule 129.

**SCHEDULE 489  
LARGE NONRESIDENTIAL  
COST-OF-SERVICE OPT-OUT  
(>4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer whose Demand has exceeded 4,000 kW more than once within the preceding 13 months and who has previously enrolled in a long-term opt-out window. To obtain service under this schedule, Customers must initially enroll a minimum of 1 MWa determined by a demonstrated usage pattern such that projected usage for a full 12 months is at least 8,760,000 kWh (1 MWa) from one or more Service Points (SPs). Each SP must have a Facility Capacity of at least 250 kW. Customers with existing enrolled SPs meeting the 1 MWa criteria above may, in a subsequent enrollment window enroll additional SPs so long as the 250 kW Facility Capacity requirement is met. Service under this schedule is limited to the first 300 MWa that applies to Schedules 485, 489, 490, 491, 492, and 495. Beginning with the September 2004 Enrollment Period\*\*\* C, Customers have a minimum five-year option and a fixed three-year option.

**MONTHLY RATE**

The Monthly Rate will be the sum of the following charges at the applicable Delivery Voltage per SP\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,340.00	\$1,890.00	\$3,970.00	
<u>Distribution Charges**</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.53	\$1.49	\$1.49	
Over 4,000 kW	\$1.22	\$1.18	\$1.18	
per kW of monthly On-Peak Demand	\$2.61	\$2.53	\$1.27	
<u>System Usage Charge</u>				
per kWh	(0.024) ¢	(0.025) ¢	(0.025) ¢	<b>(R)</b>

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.

\*\*\* A list of Enrollment Periods can be found in Schedule 129.

**SCHEDULE 490  
LARGE NONRESIDENTIAL  
COST-OF-SERVICE OPT-OUT  
(>4,000 kW and Aggregate to >100 MWa)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer who meet the following conditions: 1) Individual account demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW; and 2) where combined usage of all accounts meeting condition 1 for the Large Nonresidential Customer aggregate to at least 100MWa in a calendar year; and 3) the customer maintains a load factor of 80% or greater for each account; and 4) who has previously enrolled in a long-term opt-out window. To obtain service under this schedule, Customers must initially enroll a minimum of 1 MWa determined by a demonstrated usage pattern such that projected usage for a full 12 months is at least 8,760,000 kWh (1 MWa) from one or more Service Points (SPs). Each SP must have a Facility Capacity of at least 250 kW. Customers with existing enrolled SPs meeting the 1 MWa criteria above may, in a subsequent enrollment window\*\*\* enroll additional SPs so long as the 250 kW Facility Capacity requirement is met. Service under this schedule is limited to the first 300 MWa that applies to this and Schedules 485, 489, 490, 491, 492, and 495. Customers have a minimum five-year option and a fixed three-year option.

**MONTHLY RATE**

The Monthly Rate will be the sum of the following charges per SP\*:

<u>Basic Charge</u>	\$6,100.00	
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.61	
Over 4,000 kW	\$1.30	
per kW of monthly On-Peak Demand	\$2.53	
<u>System Usage Charge</u>		
per kWh	(0.087) ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.

\*\*\* A list of Enrollment Periods can be found in Schedule 129.

**SCHEDULE 491 (Continued)**

STREETLIGHT POLES SERVICE OPTIONS (Continued)  
Option B – Pole maintenance (Continued)

Emergency Pole Replacement and Repair

The Company will repair or replace damaged streetlight poles that have been damaged due to the acts of vandalism, damage claim incidences and storm related events that cause a pole to become structurally unsound at no additional cost to the customer.

Without notice to the Customer, individual poles that are damaged or destroyed by unexpected events will be replaced on determination that the pole is unfit for further use as soon as reasonably possible. Replacement is subject to the Company's operating schedules and requirements.

Special Provisions for Option B - Poles

1. If damage occurs to any streetlighting pole more than two times in any 12-month period measured from the first incidence of damage that requires replacement, the Customer will be responsible to pay for future installations or mutually agree with the Company and pay to have the pole either completely removed or relocated.
2. Non-Standard or Custom poles are provided at the Company's discretion to allow greater flexibility in the choice of equipment. The Company will not maintain an inventory of this equipment and thus delays in maintenance may occur. The Company will order and replace the equipment subject to availability since non-standard and custom equipment is subject to obsolescence. The Customer will pay for any additional cost to the Company for ordering non-standard equipment.

**MONTHLY RATE**

The service rates for Option A and B lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

Distribution Charge

6.259 ¢ per kWh

(R)

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's Service Points (SPs) under this schedule.

**SCHEDULE 492  
TRAFFIC SIGNALS  
COST OF SERVICE OPT-OUT**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To municipalities or agencies of federal or state governments served on Schedule 92, who purchase Electricity from an Electricity Service Supplier (ESS) for traffic signals and warning facilities in systems containing at least 500 intersections on public streets and highways, where funds for payment of Electricity are provided through taxation or property assessment. This schedule is available only to those governmental agencies receiving service under Schedule 92 as of September 30, 2001. Service under this schedule is limited to the first 300 MWa that applies to Schedules 485, 489, 490, 491, 492, and 495

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The charge per Service Point (SP)\* is:

Distribution Charge

2.779 ¢ per kWh

(R)

\* See Schedule 100 for applicable adjustments.

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's SPs under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

**SCHEDULE 495 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS**

Option A and Option B – Poles

See Schedule 91/491/591 for Streetlight poles service options.

**MONTHLY RATE**

The service rates for Option A and Option B lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Distribution Charge</u>	6.259 ¢ per kWh	(R)
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**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's Service Points (SPs) under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

**SCHEDULE 515  
OUTDOOR AREA LIGHTING  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Nonresidential Customers purchasing Direct Access Service for outdoor area lighting.

**CHARACTER OF SERVICE**

Lighting services, which consist of the provision of Company-owned luminaires mounted on Company-owned poles, in accordance with Company specifications as to equipment, installation, maintenance and operation.

The Company will replace lamps on a scheduled basis. Subject to the Company's operating schedules and requirements, the Company will replace individual burned-out lamps as soon as reasonably possible after the Customer or Electricity Service Supplier (ESS) notifies the Company of the burn-out.

**MONTHLY RATE**

Rates for Area Lighting

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate<sup>(1)</sup> Per Luminaire</u>
Cobrahead Mercury Vapor	175	7,000	66	\$8.88 <sup>(2)</sup>
	400	21,000	147	14.49 <sup>(2)</sup>
	1,000	55,000	374	28.93 <sup>(2)</sup>
HPS	70	6,300	30	6.67 <sup>(2)</sup>
	100	9,500	43	7.48
	150	16,000	62	8.78
	200	22,000	79	10.22
	250	29,000	102	11.54
	310	37,000	124	13.28 <sup>(2)</sup>
	400	50,000	163	15.43
Flood , HPS	100	9,500	43	7.37 <sup>(2)</sup>
	200	22,000	79	10.43 <sup>(2)</sup>
	250	29,000	102	11.83
	400	50,000	163	15.65
Shoebox, HPS (bronze color, flat lens, or drop lens, multi-volt)	70	6,300	30	7.98
	100	9,500	43	8.48
	150	16,500	62	9.99

(R)  
|  
(R)

(1) See Schedule 100 for applicable adjustments.  
(2) No new service.



**SCHEDULE 515 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate<sup>(1)</sup> Per Luminaire</u>
Special Acorn Type, HPS	100	9,500	43	\$ 10.73
HADCO Victorian, HPS	150	16,500	62	11.92
	200	22,000	79	13.65
	250	29,000	102	15.09
Early American Post-Top, HPS, Black	100	9,500	43	7.85
<b>Special Types</b>				
Cobrahead, Metal Halide	150	10,000	60	9.07
Cobrahead, Metal Halide	175	12,000	71	9.83
Flood, Metal Halide	350	30,000	139	14.17
Flood, Metal Halide	400	40,000	156	15.41
Flood, HPS	750	105,000	285	26.50
HADCO Independence, HPS	100	9,500	43	10.88
	150	16,000	62	12.07
HADCO Capitol Acorn, HPS	100	9,500	43	14.33
	150	16,000	62	14.25
	200	22,000	79	15.32
	250	29,000	102	16.75
HADCO Techtra, HPS	100	9,500	43	19.23
	150	16,000	62	20.20
	250	29,000	102	22.53
HADCO Westbrooke, HPS	70	6,300	30	12.47
	100	9,500	43	12.86
	150	16,000	62	18.60
	200	22,000	79	15.29
	250	29,000	102	17.30
Holophane Mongoose, HPS	150	16,000	62	12.31

(R)

(R)

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 515 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate<sup>(1)</sup> Per Luminaire</u>	
Acorn LED	38	3,262	13	\$10.56	
	60	4,213	21	13.21	(R)
	70	4,332	24	12.89	
	75	4,897	26	13.53	
Acrylic LED	60	5,488	21	11.77	(R)
HADCO LED	70	5,120	24	16.54	
Roadway LED	29	3,470	10	3.19	
	37	2,530	13	4.02	
	45	5,020	15	3.73	
	50	3,162	17	4.24	(R)
	52	3,757	18	4.67	
	67	5,050	23	5.02	
	88	10,230	30	5.20	
	106	7,444	36	6.12	(R)
	134	14,200	46	9.60	
	156	16,300	53	10.55	
	160	18,700	55	9.98	(R)
	176	18,300	60	11.88	
	201	21,400	69	11.93	(R)
Westbrooke LED (Non-Flare)	36	3,369	12	14.92	
	53	5,079	18	16.58	
	69	6,661	24	16.21	
	85	8,153	29	17.16	
	136	12,687	46	19.82	
	206	18,159	70	21.04	(R)
Westbrooke LED (Flare)	36	3,369	12	15.28	
	53	5,079	18	17.13	
	69	6,661	24	17.66	
	85	8,153	29	18.70	
	136	12,687	46	19.43	
	206	18,159	70	22.32	(R)

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 515 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

Type of Light	Watts	Lumens	Monthly kWh	Monthly Rate <sup>(1)</sup> Per Luminaire	
CREE XSP LED	25	2,529	9	\$2.87	
	42	3,819	14	3.28	
	48	4,373	16	3.80	
	56	5,863	19	4.43	
	91	8,747	31	5.18	
Post-Top, American Revolution LED	45	3,395	15	7.39	
	72	4,409	25	7.51	(R)
Flood LED	85	10,530	29	7.72	
	128	16,932	44	9.25	(R)
	184	23,797	63	11.34	(R)
	371	48,020	127	20.01	(R)

Rates for Area Light Poles<sup>(2)</sup>

Type of Pole	Pole Length (feet)	Monthly Rate Per Pole
Wood, Standard	35 or less	\$ 5.21
	40 to 55	6.21
Wood, Painted Underground	35 or less	5.21 <sup>(3)</sup>
Wood, Curved laminated	30 or less	6.56 <sup>(3)</sup>
Aluminum, Regular	16	6.44
	25	10.60
	30	11.39
	35	12.68
Aluminum, Fluted Ornamental	14	9.56
Aluminum, Fluted Ornamental	16	10.31
Aluminum, Double-Arm, Smooth Ornamental	18	14.02

(1) See Schedule 100 for applicable adjustments.

(2) No pole charge for luminaires placed on existing Company-owned distribution poles.

(3) No new service.

**SCHEDULE 532  
SMALL NONRESIDENTIAL  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Small Nonresidential Customers who have chosen to receive Electricity from an Electricity Service Supplier (ESS).

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

Basic Charge

Single Phase	\$20.00
Three Phase	\$29.00

Distribution Charge

First 5,000 kWh	4.067 ¢ per kWh	(R)
Over 5,000 kWh	1.322 ¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 538  
LARGE NONRESIDENTIAL OPTIONAL TIME-OF-DAY  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

This optional schedule is applicable to Large Nonresidential Customers who have chosen to receive service from an Electricity Service Supplier (ESS), and: 1) served at Secondary voltage with a monthly Demand that does not exceed 200 kW more than once in the preceding 13 months; or 2) who were receiving service on Schedule 38 as of December 31, 2015.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>	\$30.00		
<u>Distribution Charge</u>	6.888	¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In Addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**REACTIVE DEMAND**

In addition to the Monthly Rate, the Customer will pay 50¢ for each kilovolt-ampere of Reactive Demand in excess of 40% of the maximum Demand. Such charge is separate from and in addition to the Minimum Charge specified.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 549  
IRRIGATION AND DRAINAGE PUMPING  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers who have chosen to receive Electricity from an Electricity Service Supplier (ESS) for irrigation and drainage pumping; may include other incidental service if an additional meter would otherwise be required.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>		
Summer Months**	\$45.00	
Winter Months**	No Charge	
<u>Distribution Charge</u>		
First 50 kWh per kW of Demand	7.902 ¢ per kWh	(R)
Over 50 kWh per kW of Demand	5.902 ¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

\*\* Summer Months and Winter Months commence with meter readings as defined in Rule B.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**SCHEDULE 575  
PARTIAL REQUIREMENTS SERVICE  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers who receive Electricity Service from an Electricity Service Supplier (ESS) and who supply all or some portion of their load by self generation operating on a regular basis, where the self-generation has a total nameplate rating of 2 MW or greater. A Large Nonresidential Customer is a Customer that has exceeded 30 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 30 kW.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>				
Three Phase Service	\$3,340.00	\$1,890.00	\$3,970.00	
<u>Distribution Charge</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.53	\$1.49	\$1.49	
Over 4,000 kW	\$1.22	\$1.18	\$1.18	
per kW of monthly On-Peak Demand**	\$2.61	\$2.53	\$1.27	
<u>Generation Contingency Reserves Charges***</u>				
<u>Spinning Reserves</u>				
per kW of Reserved Capacity > 1,000 kW	\$0.234	\$0.234	\$0.234	
<u>Supplemental Reserves</u>				
per kW of Reserved Capacity > 1,000 kW	\$0.234	\$0.234	\$0.234	
<u>System Usage Charge</u>				
per kWh	(0.024) ¢	(0.025) ¢	(0.025) ¢	<b>(R)</b>

\* See Schedule 100 for applicable adjustments.

\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

\*\*\* Not applicable when ESS is providing Energy Regulation and Imbalance services as described in Schedule 600.

**SCHEDULE 583  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(31 – 200 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customers whose Demand has not exceeded 200 kW more than six times in the preceding 13 months and has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW and who has chosen to receive Electricity from an Electricity Service Supplier (ESS).

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

Basic Charge

Single Phase Service	\$35.00
Three Phase Service	\$45.00

Distribution Charges\*\*

The sum of the following:

per kW of Facility Capacity	
First 30 kW	\$3.50
Over 30 kW	\$3.40
per kW of monthly On-Peak Demand	\$2.61

System Usage Charge

per kWh	0.534 ¢
---------	---------

(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.



**SCHEDULE 585  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(201 – 4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customers whose Demand has exceeded 200 kW more than six times in the preceding 13 months and has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW and who has chosen to receive Electricity from an Electricity Service Supplier (ESS).

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

	<u>Delivery Voltage</u>	
	<u>Secondary</u>	<u>Primary</u>
<u>Basic Charge</u>	\$560.00	\$470.00
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 200 kW	\$3.17	\$3.10
Over 200 kW	\$1.97	\$1.90
per kW of monthly On-Peak Demand	\$2.61	\$2.53
<u>System Usage Charge</u>		
per kWh	(0.038) ¢	(0.039) ¢

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.

**SCHEDULE 589  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(>4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer whose Demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW, and who has chosen to receive Electricity from an ESS.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Service Point (SP)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,340.00	\$1,890.00	\$3,970.00	
<u>Distribution Charges**</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.53	\$1.49	\$1.49	
Over 4,000 kW	\$1.22	\$1.18	\$1.18	
per kW of monthly on-peak Demand	\$2.61	\$2.53	\$1.27	
<u>System Usage Charge</u>				
per kWh	(0.024) ¢	(0.025) ¢	(0.025) ¢	<b>(R)</b>

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.

**SCHEDULE 590  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(>4,000 kW and Aggregate to >100 MWa)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer who meet the following conditions: 1) Individual account demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW; and 2) where combined usage of all accounts meeting condition 1 for the Large Nonresidential Customer aggregate to at least 100 MWa in a calendar year; and 3) the customer maintains a load factor of 80% or greater for each account; and 4) who has chosen to receive Electricity from an ESS.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges per Service Point (SP)\*:

<u>Basic Charge</u>	\$6,100.00	
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.61	
Over 4,000 kW	\$1.30	
per kW of monthly on-peak Demand	\$2.53	
<u>System Usage Charge</u>		
per kWh	(0.087) ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the SP.

### SCHEDULE 591 (Continued)

#### STREETLIGHT POLES SERVICE OPTIONS (Continued) Option B – Pole maintenance (Continued)

##### Emergency Pole Replacement and Repair

The Company will repair or replace damaged streetlight poles that have been damaged due to the acts of vandalism, damage claim incidences and storm related events that cause a pole to become structurally unsound at no additional cost to the customer.

Without notice to the Customer, individual poles that are damaged or destroyed by unexpected events will be replaced on determination that the pole is unfit for further use as soon as reasonably possible. Replacement is subject to the Company's operating schedules and requirements.

##### Special Provisions for Option B - Poles

1. If damage occurs to any streetlighting pole more than two times in any 12-month period measured from the first incidence of damage that requires replacement, the Customer will be responsible to pay for future installations or mutually agree with the Company and pay to have the pole either completely removed or relocated.
2. Non-Standard or Custom poles are provided at the Company's discretion to allow greater flexibility in the choice of equipment. The Company will not maintain an inventory of this equipment and thus delays in maintenance may occur. The Company will order and replace the equipment subject to availability since non-standard and custom equipment is subject to obsolescence. The Customer will pay for any additional cost to the Company for ordering non-standard equipment.

#### MONTHLY RATE

The service rates for Option A and B lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Distribution Charge</u>	6.259 ¢ per kWh	(R)
<u>Energy Charge</u>	Provided by Electricity Service Supplier	

#### NOVEMBER ELECTION WINDOW

The November Election Window begins at 2:00 p.m. on November 15<sup>th</sup> (or the following business day if the 15<sup>th</sup> falls on a weekend or holiday). The November Election Window will remain open until 5:00 p.m. at the close of the fifth consecutive business day.

During a November Election Window, a Customer may notify the Company of its choice to change to any service options for an effective date of January 1<sup>st</sup>. Customers may notify the Company of a choice to change service options using the Company's website, [PortlandGeneral.com/business](http://PortlandGeneral.com/business)

**SCHEDULE 592  
TRAFFIC SIGNALS  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To municipalities or agencies of federal or state governments served on Schedule 92, who purchase Electricity from an Electricity Service Supplier (ESS) for traffic signals and warning facilities in systems containing at least 50 intersections on public streets and highways, where funds for payment of Electricity are provided through taxation or property assessment. This schedule is available only to those governmental agencies receiving service under Schedule 92 as of September 30, 2001.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The charge per Service Point (SP)\* is:

Distribution Charge

2.779 ¢ per kWh

(R)

\* See Schedule 100 for applicable adjustments.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 595 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS**

Option A and Option B – Poles

See Schedule 91/591 for Streetlight poles service options.

**MONTHLY RATE**

The service rates for Option A and Option B lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Distribution Charge</u>	6.259 ¢ per kWh	(R)
<u>Energy Charge</u>	Provided by Electricity Service Supplier	

**REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES**

Labor Rates	Straight Time	Overtime <sup>(1)</sup>
	\$146.00 per hour	\$217.00 per hour

(1) Per Article 20.2 of the Collective Bargaining Agreement Union No. 125 Contract, overtime is paid at the Overtime Rate for a minimum of one hour.

**RATES FOR STANDARD LIGHTING**

**Light-Emitting Diode (LED) Only – Option A and Option B Service Rates**

LED lighting is new to the Company and pricing is changing rapidly. The Company may adjust rates under this schedule based on actual frequency of maintenance occurrences and changes in material prices.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>	
				<u>Option A</u>	<u>Option B</u>
Roadway LED	29	3,470	10	\$2.84	\$1.00
	37	2,530	13	3.67	1.20
	45	5,020	15	3.37	1.32
	50	3,162	17	3.90	1.45
	52	3,757	18	4.31	1.52
	67	5,050	23	4.79	1.83
	88	10,230	30	4.97	2.27
	106	7,444	36	5.90	2.66
	134	14,200	46	10.06	3.31
	156	16,300	53	11.01	3.77
	160	18,700	55	10.45	3.88
	176	18,300	60	12.34	4.23
	201	21,400	69	12.40	4.78