



**Portland General Electric Company**  
121 SW Salmon Street • Portland, Oregon 97204  
PortlandGeneral.com

October 12, 2016

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

**RE: Advice No. 16-15, Schedule 146 Colstrip Power Plant Operating Life Adjustment**

Portland General Electric (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, 2017**:

Twenty Seventh Revision of Sheet No. 1-3  
Twenty Eighth Revision of Sheet No. 100-1  
Original Sheet No. 146-1  
Original Sheet No. 146-2

This filing establishes the Schedule 146 Colstrip Power Plant Operating Life Adjustment to implement into rates the Company's share of the revenue requirement effect of the change in the Colstrip Power Plant Unit 3 and 4 and associated common facilities (Colstrip) currently assumed end of depreciable life year from 2042 to 2030 as specified in Oregon Senate Bill 1547, Section 1.

PGE applied depreciation rates as prescribed in UE 294 to determine the Colstrip net plant balance as of December 31, 2016. PGE then calculated the revised depreciation expense under the revised depreciable end of life date. The result is a revenue requirement increase of approximately \$5.6 million. PGE will depreciate the net remaining undepreciated capital cost over the period of January 1, 2017 to December 31, 2030.

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

The recovery of the accelerated depreciation expenses result in an approximate \$5.6 million or 0.3% overall average rate increase for the 870,000 (2017 average) applicable Cost-of-Service customers. A typical Schedule 7 residential customer consuming 840 kWh monthly will see a bill increase of \$0.30 inclusive of the Public Purpose Charge, or 0.3%.

The following are included in this filing:

- Attachment A: Discussion and Summary
- Attachment B: Incremental Depreciation and Revenue Requirement Analysis
- Attachment C: Work papers supporting the Schedule 146 prices
- Attachment D: Detailed Bill Comparisons

Please direct any questions regarding this filing to Patrick Hager at (503) 464-7580 or Marc Cody at (503) 464-7434.

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

Sincerely,

A handwritten signature in cursive script that reads "Karla Wenzel".

Karla Wenzel  
Manager, Pricing and Tariffs

Enclosure(s)

**SCHEDULE 100  
SUMMARY OF APPLICABLE ADJUSTMENTS**

The following summarizes the applicability of the Company's adjustment schedules.

Schs.	102 (1)	105	106 (1)	108 (3)	109 (1)	110 (1)	115	122	123 (1)	125 (1)	126	128 (4)	129 (1)	135	137	142	143	145	146
7	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x
15	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x
32	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
38	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
47	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x
49	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x
75	x <sup>(2)</sup>	x <sup>(2)</sup>	x	x	x <sup>(2)</sup>	x <sup>(2)</sup>	x	x <sup>(2)</sup>	x	x <sup>(2)</sup>	x <sup>(2)</sup>	x		x	x	x	x	x	x
76R	x		x	x			x									x			
83	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
85	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
89	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
90	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
91		x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
92		x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x
95		x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x
485	x	x	x	x	x	x	x		x		x <sup>(5)</sup>		x			x	x		
489	x	x	x	x	x	x	x		x		x <sup>(5)</sup>		x			x	x		
490	x	x	x	x	x	x	x		x		x		x			x	x		
491		x	x	x	x	x	x		x		x		x			x	x		
492		x	x	x	x	x	x		x		x		x			x	x		
495		x	x	x	x	x	x		x		x		x			x	x		
515	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
532	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
538	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
549	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
575	x <sup>(2)</sup>	x <sup>(2)</sup>	x	x	x	x	x		x		x <sup>(2)</sup>	x			x	x	x	x	x
576R	x		x	x			x									x			
583	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
585	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
589	x	x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
590	x	x	x	x	x	x	x		x		x	x			x	x	x	x	x
591		x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
592		x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x
595		x	x	x	x	x	x		x		x <sup>(5)</sup>	x			x	x	x	x	x

(N)

(N)

- (1) Where applicable.
- (2) These adjustments are applicable only to the Baseline and Scheduled Maintenance Energy.
- (3) Schedule 108 applies to the sum of all charges less taxes, Schedule 109 and 115 charges and one-time charges such as deposits.
- (4) Applicable to Nonresidential Customer who receive service at Daily pricing (other than Cost of Service) or Direct Access (excluding service on Schedules 485, 489, 490, 491, 492 and 495).
- (5) Not applicable to Customers where service was received for the entire calendar year that the Annual Power Cost Variance accrued.

**Advice No. 16-15**  
**Issued October 12, 2016**  
**James F. Lobdell, Senior Vice President**

**Effective for service**  
**on and after January 1, 2017**

PORTLAND GENERAL ELECTRIC COMPANY  
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(N)

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Attachment A  
PGE Advice No. 16-15  
Discussion and Summary

**COLSTRIP POWER PLANT OPERATING LIFE ADJUSTMENT TARIFF  
SCHEDULE 146**

**DISCUSSION**

**Colstrip Tariff Advice Filing**

Pursuant to 2016 Oregon Laws, Chapter 28 (SB 1547), Section 1, Portland General Electric Company (PGE) proposes an automatic adjustment clause to implement the revenue requirement effects resulting from a change in the Colstrip Generating Facility (Colstrip) currently assumed end-of-life of December 31, 2042 to December 31, 2030. This filing updates the results of Docket No. UM 1679 (the 2015 Depreciation Study), for PGE's share of Colstrip. Included in the filing is an updated 2017 depreciation expense estimate for Colstrip. This estimate reflects the incremental amount resulting from the difference between the depreciation revenue requirement as filed in Docket No. UE 294 and the depreciation revenue requirement resulting from the change in the retirement date of December 31, 2030.

At this time, PGE proposes no further changes to the depreciation parameters approved in Commission Order No. 14-297. PGE is working to perform a site-specific decommissioning study of the plant, the results of which will likely be included in a future depreciation study. PGE requests rates to be effective January 1, 2017, for a revenue requirement of approximately \$5.6 million. PGE will update Schedule 146, effective January 1, 2018 and each year thereafter, to account for updates to the load forecast and decommissioning costs, among other factors.

## **Background**

During their 2016 Regular session, Oregon’s Legislature passed Oregon Senate Bill 1547, the Oregon Clean Electricity and Coal Transition Plan, which was signed into law in March 2016. Among other provisions, SB 1547 requires PGE to double the amount of renewable energy generation under the Renewable Portfolio Standard (RPS) to 50% and to eliminate coal-fired resources from our energy deliveries within the state of Oregon.

### **UM 1679: PGE’s 2013 Depreciation Study**

On December 5, 2013, PGE filed its 2013 Depreciation Study of Depreciable Property. PGE completed this study prior to the passage of SB 1547, and incorporated the study results into base rates effective January 1, 2015. The final retirement date used for Colstrip in this study was December 31, 2042.

### **SB 1547: The Clean Electricity and Coal Transition Plan**

SB 1547 requires that electricity provided to Oregon customers of Pacific Power and PGE will be coal-free by 2030.<sup>1</sup> As part of the elimination of coal from PGE’s electricity supply, SB 1547 clearly specifies that the Public Utility Commission of Oregon (OPUC) “shall adjust any schedule of depreciation approved by the commission for an electric company’s coal-fired resource to be fully depreciated on or before December 31, 2030.” (Section 1(3)(b)) This language applies to PGE’s 20% share of Colstrip units 3 and 4, and therefore, PGE must eliminate its use of Colstrip for serving customer loads in Oregon and accelerate the depreciation of the plant to a final retirement date of December 31, 2030.

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<sup>1</sup> With the exception of PGE’s 20% ownership share of Colstrip units three and four, which would be out of the Oregon mix no later than 2035.

### **Implementation of the Colstrip Tariff: Schedule 146**

PGE proposes that the Schedule 146 mechanism be implemented as an “automatic adjustment clause” as defined in ORS 757.210 and operate similar to the Boardman Power Plant Operating Life Adjustment Tariff (Schedule 145). The Adjustment Amount is the difference between the Colstrip depreciation/amortization revenue requirement for the year 2017 as determined in the UE 294 test year and the same depreciation/amortization revenue requirement determination using a plant end of life assumption of December 31, 2030 as required by SB 1547. The depreciation/amortization revenue requirement change computation will use the Commission-authorized tax rates, revenue sensitive cost rates, rate of return and return on equity rates. Only changes to depreciation expense, amortization expense and related Schedule M and rate base adjustments as of the date of the filing revisions to this rate schedule are included in the depreciation/amortization revenue requirements.

The Adjustment Rates will be updated annually to reflect the subsequent year’s change in the Colstrip Power Plant deprecation revenue requirement, if PGE has not incorporated the revised depreciable life into base rates in a general rate case or other proceeding. Consistent with the conditions that PGE is subject to for Schedule 145 updates, PGE recommends the following be provided:

1. Beginning June 15, 2017, PGE will submit an annual informational report to all parties in this proceeding that will include the current balance of dollars collected for decommissioning and any relevant changes to PGE forecasts of future decommissioning costs;



2. PGE will submit a November 1st Annual Update as a supplemental filing to this docket.

Additionally, PGE is currently working to complete a decommissioning study, the results of which will be included in a future proceeding and subsequently requested for inclusion into Schedule 146 prices.

## **SUMMARY**

The incremental revenue requirement for the twelve-month period is approximately \$5.6 million, reflecting the incremental amount of depreciation attributed to a change of Colstrip's assumed terminal retirement date from December 31, 2042, to December 31, 2030. PGE will also be conducting a site-specific decommissioning study of Colstrip and its associated facilities, which we will include in a future proceeding. PGE will update Schedule 146, effective January 1, 2018 and each year thereafter, to account for updates to the load forecast and decommissioning costs, among other factors.

Attachment B  
PGE Advice No. 16-15  
Depreciation and Revenue Requirement Analysis



**COLSTRIP - Accelerated Depreciation due to SB 1547 requirement to be fully depreciated by 12/31/2030:**

Major Location	Account	Estimated Plant Balance at 12/31/2016	Estimated Accum Reserve @ 12/31/2016
Colstrip	311	116,386,107	98,246,863
	312	233,495,232	174,513,777
	314	73,963,641	43,668,494
	315	23,761,009	19,439,041
	316	6,387,348	5,082,943
	352	783,468	493,862
	353	19,451,237	14,075,175
	354	23,055,363	10,888,877
	355	111,344	131,522
	356	20,043,612	20,412,992
	359	288,964	163,921
	391	25,039	11,550
	39204	92,097	61,031
	39205	53,934	27,886
	39206	130,280	85,517
	39208	13,767	9,268
	39209	17,971	4,884
	394	102,448	34,569
	39603	46,889	39,189
	39607	126,056	71,160
	39703	3,694,720	3,229,831
		522,030,527	390,692,351

**NEW END OF DERECIABLE LIFE (if acceleration begins 1/1/2017)**

UM1679 Curve	UM1679 Life	UM1679 Net Salvage (NS)	End of Life 2030 Annual Calculation	NEW EOL Calc 2030 Annual Calculation
S1.5	90	(0.05)	7.14%	1,711,325
R3	65	(0.05)	7.14%	5,046,873
S0.5	60	(0.05)	7.14%	2,428,095
R2.5	60	(0.05)	7.14%	393,573
R1	55	(0.05)	7.14%	115,984
R2.5	60	(0.15)	7.14%	29,080
R2	55	(0.15)	7.14%	592,411
R3	70	(0.10)	7.14%	1,033,716
R1.5	50	(0.51)	7.14%	2,615
R2.5	60	(0.30)	7.14%	403,122
R4	60	-	7.14%	8,932
SQ	15	-	7.14%	963
S2	19	0.10	7.14%	1,561
S1.5	15	0.10	7.14%	1,475
L2	12	0.10	7.14%	2,267
S0	25	0.10	7.14%	223
S1.5	11	0.10	7.14%	806
SQ	20	-	7.14%	4,849
L3	20	0.05	7.14%	383
L1	20	0.05	7.14%	3,471
SQ	15	-	7.14%	33,206
				11,814,929

Major Location	Account	Estimated Plant Balance at 12/31/2016	Estimated Accum Reserve @ 12/31/2016
Colstrip	311	116,386,107	98,246,863
	312	233,495,232	174,513,777
	314	73,963,641	43,668,494
	315	23,761,009	19,439,041
	316	6,387,348	5,082,943
	352	783,468	493,862
	353	19,451,237	14,075,175
	354	23,055,363	10,888,877
	355	111,344	131,522
	356	20,043,612	20,412,992
	359	288,964	163,921
	391	25,039	11,550
	39204	92,097	61,031
	39205	53,934	27,886
	39206	130,280	85,517
	39208	13,767	9,268
	39209	17,971	4,884
	394	102,448	34,569
	39603	46,889	39,189
	39607	126,056	71,160
	39703	3,694,720	3,229,831
		522,030,527	390,692,351

**Currently approved parameters UM 1679, Order 14-297**

UM1679 Curve	UM1679 Life	UM1679 Net Salvage (NS)	Annual Rate, End of Life 2042, per Order 14 297	CURRENT UM 1679 Parameters Annual Calculation
S1.5	90	(0.05)	3.68%	881,675
R3	65	(0.05)	3.76%	2,656,674
S0.5	60	(0.05)	4.22%	1,434,519
R2.5	60	(0.05)	4.14%	228,115
R1	55	(0.05)	4.39%	71,284
R2.5	60	(0.15)	2.68%	10,911
R2	55	(0.15)	2.89%	239,689
R3	70	(0.10)	2.89%	418,241
R1.5	50	(0.51)	3.15%	1,153
R2.5	60	(0.30)	2.39%	134,884
R4	60	-	3.46%	4,326
SQ	15	-	16.03%	2,162
S2	19	0.10	7.09%	1,550
S1.5	15	0.10	11.65%	2,406
L2	12	0.10	16.67%	5,290
S0	25	0.10	7.07%	221
S1.5	11	0.10	16.85%	1,902
SQ	20	-	12.15%	8,247
L3	20	0.05	7.41%	397
L1	20	0.05	9.12%	4,432
SQ	15	-	15.62%	72,616
				6,180,694

**Annualized Net Increase/(Decrease) due to change in depreciable life only: 5,634,234**  
\$469,520

Attachment C  
PGE Advice No. 16-15  
Schedule 146 Pricing Work Papers

**PORTLAND GENERAL ELECTRIC**  
**Calculation of Schedule 146 Prices**

Schedules	2017		2017 Base		2017		2017	
	Calendar COS Energy MWh	Generation Revenues	Generation Allocation	Sch 146 Allocation	Sch 146 Price mills/kWh	Sch 146 Revenues	Sch 146 Revenues	
Schedule 7	7,593,517	\$529,778	46.86%	\$2,632	0.35	\$2,658	\$2,658	
Schedule 15	16,223	\$914	0.08%	\$5	0.28	\$5	\$5	
Schedule 32	1,584,961	\$102,816	9.09%	\$511	0.32	\$507	\$507	
Schedule 38	30,554	\$1,832	0.16%	\$9	0.30	\$9	\$9	
Schedule 47	21,027	\$1,591	0.14%	\$8	0.38	\$8	\$8	
Schedule 49	64,687	\$4,874	0.43%	\$24	0.37	\$24	\$24	
Schedule 83	2,834,384	\$181,725	16.07%	\$903	0.32	\$907	\$907	
Schedule 85-S	2,290,918	\$142,940	12.64%	\$710	0.31	\$710	\$710	
Schedule 85-P	623,350	\$37,936	3.36%	\$188	0.30	\$187	\$187	
Schedule 89-S	0	\$0	0.00%	\$0	0.30	\$0	\$0	
Schedule 89-P	568,390	\$33,583	2.97%	\$167	0.29	\$165	\$165	
Schedule 89-T	61,824	\$3,663	0.32%	\$18	0.29	\$18	\$18	
Schedule 90	1,537,355	\$85,282	7.54%	\$424	0.28	\$430	\$430	
Schedule 91	62,783	\$3,538	0.31%	\$18	0.28	\$18	\$18	
Schedule 92	3,234	\$185	0.02%	\$1	0.28	\$1	\$1	
<b>TOTAL</b>	<b>17,293,207</b>	<b>\$1,130,658</b>	<b>100.00%</b>	<b>\$5,618</b>		<b>\$5,646</b>	<b>\$5,646</b>	

2017 Colstrip Revenue Requirement \$5,618

**PORTLAND GENERAL ELECTRIC**  
**Calculation of Generation and NVPC Revenues**

Schedule	2017 Calendar MWh	Energy Price	2017 Base Energy Revenues	2017 Cycle MWh
Sch 7				
Block 1	6,260,800	68.50	\$428,865	6,259,101
Block 2	1,332,717	75.72	\$100,913	1,332,355
Sch 15	16,223	56.36	\$914	16,223
Sch 32	1,584,961	64.87	\$102,816	1,584,216
Sch 38				
On-peak	16,888	64.44	\$1,088	16,897
Off-peak	13,667	54.44	\$744	13,674
Sch 47	21,027	75.67	\$1,591	21,104
Sch 49	64,687	75.35	\$4,874	64,604
Sch 83				
On-peak	1,882,904	69.15	\$130,203	1,880,628
Off-peak	951,481	54.15	\$51,523	950,330
Sch 85-S				
On-peak	1,500,451	67.57	\$101,385	1,503,501
Off-peak	790,467	52.57	\$41,555	792,074
Sch 85-P				
On-peak	393,872	66.38	\$26,145	389,925
Off-peak	229,478	51.38	\$11,791	227,178
Sch 89-S				
On-peak	0	66.41	\$0	0
Off-peak	0	51.41	\$0	0
Sch 89-P				
On-peak	332,469	65.31	\$21,714	336,532
Off-peak	235,921	50.31	\$11,869	238,804
Sch 89-T				
On-peak	39,868	64.57	\$2,574	39,868
Off-peak	21,957	49.57	\$1,088	21,957
Sch 90				
On-peak	884,799	61.84	\$54,716	881,474
Off-peak	652,556	46.84	\$30,566	650,104
Sch 91/95	62,783	56.36	\$3,538	62,783
Sch 92	3,234	57.16	\$185	3,234
Totals	17,293,207		\$1,130,658	17,286,568



Attachment D  
PGE Advice No. 16-15  
Bill Comparisons

**PORTLAND GENERAL ELECTRIC**  
Effect of proposed rate change on Monthly Bills  
Tariff Schedule 7

<u>kWh</u>	<u>Net Monthly Bill</u>		<u>Percent Difference</u>
	<u>Current Prices</u>	<u>Proposed Prices</u>	
50	\$16.83	\$16.85	0.1%
100	\$22.08	\$22.12	0.2%
200	\$32.44	\$32.51	0.2%
250	\$37.64	\$37.73	0.2%
300	\$42.85	\$42.96	0.3%
400	\$53.24	\$53.38	0.3%
500	\$63.65	\$63.84	0.3%
600	\$74.03	\$74.24	0.3%
700	\$84.43	\$84.69	0.3%
800	\$94.82	\$95.11	0.3%
840	\$98.98	\$99.28	0.3%
900	\$105.20	\$105.53	0.3%
1,000	\$115.61	\$115.97	0.3%
1,100	\$127.90	\$128.30	0.3%
1,200	\$140.13	\$140.56	0.3%
1,300	\$152.40	\$152.88	0.3%
1,400	\$164.66	\$165.17	0.3%
1,500	\$176.95	\$177.50	0.3%
1,600	\$189.19	\$189.76	0.3%
1,700	\$201.46	\$202.07	0.3%
1,800	\$213.72	\$214.37	0.3%
2,000	\$238.24	\$238.96	0.3%
2,300	\$275.03	\$275.87	0.3%
2,750	\$330.20	\$331.19	0.3%
3,000	\$360.87	\$361.95	0.3%
3,500	\$422.21	\$423.48	0.3%
4,000	\$483.50	\$484.94	0.3%
4,500	\$544.84	\$546.47	0.3%
5,000	\$606.13	\$607.93	0.3%
7,500	\$912.73	\$915.43	0.3%
10,000	\$1,219.27	\$1,222.88	0.3%

**PORTLAND GENERAL ELECTRIC**  
Effect of proposed rate change on Monthly Bills  
**Tariff Schedule 32, 1-phase Service**

kWh	Net Monthly Billing (without RPA credit)			Net Monthly Billing (with RPA credit)		
	Current Prices	Proposed Prices	Percent Difference	Current Prices	Proposed Prices	Percent Difference
500	\$71.46	\$71.63	0.2%	\$66.88	\$67.04	0.2%
600	\$82.42	\$82.62	0.2%	\$76.92	\$77.12	0.3%
700	\$93.45	\$93.68	0.2%	\$87.03	\$87.26	0.3%
800	\$104.44	\$104.71	0.3%	\$97.11	\$97.38	0.3%
900	\$115.42	\$115.72	0.3%	\$107.17	\$107.47	0.3%
1,000	\$126.42	\$126.75	0.3%	\$117.26	\$117.58	0.3%
1,500	\$181.40	\$181.90	0.3%	\$167.65	\$168.15	0.3%
1,750	\$208.89	\$209.47	0.3%	\$192.84	\$193.42	0.3%
2,000	\$236.36	\$237.02	0.3%	\$218.03	\$218.69	0.3%
2,500	\$291.35	\$292.17	0.3%	\$268.43	\$269.25	0.3%
3,500	\$401.29	\$402.44	0.3%	\$369.20	\$370.36	0.3%
4,000	\$456.25	\$457.57	0.3%	\$419.58	\$420.90	0.3%
4,500	\$511.23	\$512.71	0.3%	\$469.98	\$471.46	0.3%
5,000	\$566.19	\$567.84	0.3%	\$520.36	\$522.00	0.3%
6,000	\$646.94	\$648.92	0.3%	\$591.94	\$593.92	0.3%
7,000	\$727.69	\$730.00	0.3%	\$663.52	\$665.83	0.3%
8,000	\$808.45	\$811.08	0.3%	\$735.11	\$737.75	0.4%
9,000	\$889.20	\$892.16	0.3%	\$806.69	\$809.66	0.4%
10,000	\$969.95	\$973.25	0.3%	\$878.28	\$881.58	0.4%
14,000	\$1,292.96	\$1,297.57	0.4%	\$1,164.62	\$1,169.23	0.4%
15,000	\$1,373.71	\$1,378.65	0.4%	\$1,236.20	\$1,241.15	0.4%
20,000	\$1,777.47	\$1,784.06	0.4%	\$1,594.13	\$1,600.72	0.4%
21,900	\$1,930.89	\$1,938.11	0.4%	\$1,730.13	\$1,737.35	0.4%

**PORTLAND GENERAL ELECTRIC**  
Effect of proposed rate change on Monthly Bills  
**Tariff Schedule 32, 3-phase Service**

kWh	Net Monthly Bill (without RPA credit)			Net Monthly Bill (with RPA credit)		
	Current Prices	Proposed Prices	Percent Difference	Current Prices	Proposed Prices	Percent Difference
500	\$77.64	\$77.81	0.2%	\$73.06	\$73.22	0.2%
600	\$88.60	\$88.80	0.2%	\$83.10	\$83.30	0.2%
700	\$99.63	\$99.86	0.2%	\$93.21	\$93.44	0.2%
800	\$110.62	\$110.89	0.2%	\$103.29	\$103.56	0.3%
900	\$121.60	\$121.90	0.2%	\$113.35	\$113.65	0.3%
1,000	\$132.60	\$132.93	0.2%	\$123.44	\$123.76	0.3%
1,500	\$187.58	\$188.08	0.3%	\$173.83	\$174.33	0.3%
1,750	\$215.07	\$215.65	0.3%	\$199.02	\$199.60	0.3%
2,000	\$242.54	\$243.20	0.3%	\$224.21	\$224.87	0.3%
2,500	\$297.53	\$298.35	0.3%	\$274.61	\$275.43	0.3%
3,500	\$407.47	\$408.62	0.3%	\$375.38	\$376.54	0.3%
4,000	\$462.43	\$463.75	0.3%	\$425.76	\$427.08	0.3%
4,500	\$517.41	\$518.89	0.3%	\$476.16	\$477.64	0.3%
5,000	\$572.37	\$574.02	0.3%	\$526.54	\$528.18	0.3%
6,000	\$653.12	\$655.10	0.3%	\$598.12	\$600.10	0.3%
7,000	\$733.87	\$736.18	0.3%	\$669.70	\$672.01	0.3%
8,000	\$814.63	\$817.26	0.3%	\$741.29	\$743.93	0.4%
9,000	\$895.38	\$898.34	0.3%	\$812.87	\$815.84	0.4%
10,000	\$976.13	\$979.43	0.3%	\$884.46	\$887.76	0.4%
14,000	\$1,299.14	\$1,303.75	0.4%	\$1,170.80	\$1,175.41	0.4%
15,000	\$1,379.89	\$1,384.83	0.4%	\$1,242.38	\$1,247.33	0.4%
20,000	\$1,783.65	\$1,790.24	0.4%	\$1,600.31	\$1,606.90	0.4%
21,900	\$1,937.07	\$1,944.29	0.4%	\$1,736.31	\$1,743.53	0.4%

**PORTLAND GENERAL ELECTRIC**  
Effect of proposed rate change on Monthly Bills  
**Tariff Schedule 38, 3-phase Service**  
Bill comparison assumes 51% on peak and 49% off peak energy consumption

kWh	Net Monthly Bill (without RPA credit)				Net Monthly Bill (with RPA credit)				
	Current Prices	Proposed Prices	Percent Difference	Current Prices	Proposed Prices	Percent Difference	Current Prices	Proposed Prices	Percent Difference
1,000	\$158.15	\$158.46	0.2%	\$148.98	\$149.29	0.2%	\$148.98	\$149.29	0.2%
3,000	\$422.95	\$423.88	0.2%	\$395.45	\$396.38	0.2%	\$395.45	\$396.38	0.2%
5,000	\$687.75	\$689.30	0.2%	\$641.92	\$643.46	0.2%	\$641.92	\$643.46	0.2%
7,000	\$952.55	\$954.71	0.2%	\$888.38	\$890.54	0.2%	\$888.38	\$890.54	0.2%
10,000	\$1,349.75	\$1,352.84	0.2%	\$1,258.08	\$1,261.17	0.2%	\$1,258.08	\$1,261.17	0.2%
13,000	\$1,746.95	\$1,750.97	0.2%	\$1,627.78	\$1,631.80	0.2%	\$1,627.78	\$1,631.80	0.2%
14,000	\$1,879.35	\$1,883.68	0.2%	\$1,751.01	\$1,755.34	0.2%	\$1,751.01	\$1,755.34	0.2%
16,000	\$2,144.15	\$2,149.10	0.2%	\$1,997.48	\$2,002.42	0.2%	\$1,997.48	\$2,002.42	0.2%
21,000	\$2,806.15	\$2,812.64	0.2%	\$2,613.65	\$2,620.13	0.2%	\$2,613.65	\$2,620.13	0.2%
25,000	\$3,335.75	\$3,343.48	0.2%	\$3,106.58	\$3,114.30	0.2%	\$3,106.58	\$3,114.30	0.2%
30,000	\$3,997.75	\$4,007.02	0.2%	\$3,722.74	\$3,732.01	0.2%	\$3,722.74	\$3,732.01	0.2%
35,000	\$4,659.75	\$4,670.57	0.2%	\$4,338.91	\$4,349.72	0.2%	\$4,338.91	\$4,349.72	0.2%
40,000	\$5,321.75	\$5,334.11	0.2%	\$4,955.07	\$4,967.43	0.2%	\$4,955.07	\$4,967.43	0.2%
45,000	\$5,983.75	\$5,997.66	0.2%	\$5,571.24	\$5,585.14	0.2%	\$5,571.24	\$5,585.14	0.2%
50,000	\$6,645.76	\$6,661.21	0.2%	\$6,187.41	\$6,202.86	0.2%	\$6,187.41	\$6,202.86	0.2%
75,000	\$9,955.76	\$9,978.93	0.2%	\$9,268.23	\$9,291.41	0.3%	\$9,268.23	\$9,291.41	0.3%
100,000	\$13,265.76	\$13,296.66	0.2%	\$12,349.06	\$12,379.96	0.3%	\$12,349.06	\$12,379.96	0.3%
150,000	\$19,885.77	\$19,932.12	0.2%	\$18,510.72	\$18,557.07	0.3%	\$18,510.72	\$18,557.07	0.3%
200,000	\$26,505.77	\$26,567.57	0.2%	\$24,672.37	\$24,734.17	0.3%	\$24,672.37	\$24,734.17	0.3%
300,000	\$39,745.78	\$39,838.48	0.2%	\$36,995.68	\$37,088.38	0.3%	\$36,995.68	\$37,088.38	0.3%
400,000	\$52,985.79	\$53,109.39	0.2%	\$49,318.99	\$49,442.59	0.3%	\$49,318.99	\$49,442.59	0.3%
500,000	\$66,225.80	\$66,380.30	0.2%	\$61,642.30	\$61,796.80	0.3%	\$61,642.30	\$61,796.80	0.3%
750,000	\$96,723.78	\$96,955.53	0.2%	\$89,848.53	\$90,080.28	0.3%	\$89,848.53	\$90,080.28	0.3%
1,000,000	\$128,956.45	\$129,265.45	0.2%	\$119,789.45	\$120,098.45	0.3%	\$119,789.45	\$120,098.45	0.3%

**PORTLAND GENERAL ELECTRIC**  
Effect of Proposed Rate Change on Monthly Bills  
**Tariff Schedule 47 Summer Period**

<u>kW</u>	<u>kWh</u>	<u>Net Monthly Bill</u> (without RPA credit)			<u>Net Monthly Bill</u> (with RPA credit)		
		<u>Current</u> <u>Prices</u>	<u>Proposed</u> <u>Prices</u>	<u>Percent</u> <u>Difference</u>	<u>Current</u> <u>Prices</u>	<u>Proposed</u> <u>Prices</u>	<u>Percent</u> <u>Difference</u>
10	50	\$45.57	\$45.59	0.0%	\$45.11	\$45.13	0.0%
10	100	\$55.07	\$55.11	0.1%	\$54.15	\$54.19	0.1%
10	500	\$131.15	\$131.35	0.2%	\$126.57	\$126.76	0.2%
10	1,000	\$215.95	\$216.35	0.2%	\$206.79	\$207.18	0.2%
10	2,000	\$385.56	\$386.34	0.2%	\$367.22	\$368.01	0.2%
10	5,000	\$894.37	\$896.33	0.2%	\$848.54	\$850.49	0.2%
20	100	\$55.07	\$55.11	0.1%	\$54.15	\$54.19	0.1%
20	200	\$74.09	\$74.17	0.1%	\$72.26	\$72.34	0.1%
20	500	\$131.15	\$131.35	0.2%	\$126.57	\$126.76	0.2%
20	1,000	\$226.25	\$226.65	0.2%	\$217.09	\$217.48	0.2%
20	2,000	\$395.86	\$396.64	0.2%	\$377.52	\$378.31	0.2%
20	5,000	\$904.67	\$906.63	0.2%	\$858.84	\$860.79	0.2%
20	8,000	\$1,413.48	\$1,416.61	0.2%	\$1,340.15	\$1,343.28	0.2%
30	150	\$64.59	\$64.65	0.1%	\$63.21	\$63.27	0.1%
30	500	\$131.15	\$131.35	0.2%	\$126.57	\$126.76	0.2%
30	1,000	\$226.25	\$226.65	0.2%	\$217.09	\$217.48	0.2%
30	3,000	\$575.76	\$576.94	0.2%	\$548.26	\$549.44	0.2%
30	5,000	\$914.97	\$916.93	0.2%	\$869.14	\$871.09	0.2%
30	8,000	\$1,423.78	\$1,426.91	0.2%	\$1,350.45	\$1,353.58	0.2%
30	10,000	\$1,762.99	\$1,766.91	0.2%	\$1,671.32	\$1,675.24	0.2%
30	15,000	\$2,611.01	\$2,616.88	0.2%	\$2,473.51	\$2,479.38	0.2%

**PORTLAND GENERAL ELECTRIC**  
Effect of Proposed Rate Change on Monthly Bills  
**Tariff Schedule 49 Summer Period**

Load Factor	kW	kWh	Net Monthly Bill (without RPA credit)			Net Monthly Bill (with RPA credit)		
			Current Prices	Proposed Prices	Percent Difference	Current Prices	Proposed Prices	Percent Difference
20%	35	5,110	\$768.54	\$770.49	0.3%	\$721.70	\$723.65	0.3%
40%	35	10,220	\$1,459.81	\$1,463.71	0.3%	\$1,366.13	\$1,370.02	0.3%
60%	35	15,330	\$2,151.11	\$2,156.95	0.3%	\$2,010.57	\$2,016.41	0.3%
80%	35	20,440	\$2,842.34	\$2,850.13	0.3%	\$2,654.96	\$2,662.75	0.3%
20%	50	7,300	\$1,080.24	\$1,083.02	0.3%	\$1,013.32	\$1,016.10	0.3%
40%	50	14,600	\$2,067.78	\$2,073.35	0.3%	\$1,933.95	\$1,939.51	0.3%
60%	50	21,900	\$3,055.35	\$3,063.69	0.3%	\$2,854.59	\$2,862.93	0.3%
80%	50	29,200	\$4,042.88	\$4,054.00	0.3%	\$3,775.20	\$3,786.33	0.3%
20%	70	10,220	\$1,495.88	\$1,499.77	0.3%	\$1,402.19	\$1,406.08	0.3%
40%	70	20,440	\$2,878.40	\$2,886.19	0.3%	\$2,691.02	\$2,698.81	0.3%
60%	70	30,660	\$4,260.99	\$4,272.67	0.3%	\$3,979.94	\$3,991.62	0.3%
80%	70	40,880	\$5,643.57	\$5,659.15	0.3%	\$5,268.82	\$5,284.41	0.3%
20%	100	14,600	\$2,119.28	\$2,124.85	0.3%	\$1,985.45	\$1,991.01	0.3%
40%	100	29,200	\$4,094.38	\$4,105.50	0.3%	\$3,826.70	\$3,837.83	0.3%
60%	100	43,800	\$6,069.46	\$6,086.16	0.3%	\$5,667.95	\$5,684.64	0.3%
80%	100	58,400	\$8,044.56	\$8,066.81	0.3%	\$7,509.20	\$7,531.46	0.3%
20%	200	29,200	\$4,197.38	\$4,208.50	0.3%	\$3,929.70	\$3,940.83	0.3%
40%	200	58,400	\$8,147.56	\$8,169.81	0.3%	\$7,612.20	\$7,634.46	0.3%
60%	200	87,600	\$12,097.72	\$12,131.11	0.3%	\$11,294.69	\$11,328.08	0.3%
80%	200	116,800	\$16,047.90	\$16,092.42	0.3%	\$14,977.20	\$15,021.71	0.3%

**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills  
**Tariff Schedule 83, Secondary, 3 phase service.**

Bill comparison assumes 63% on peak and 37% off peak energy consumption

Load Factor	kW	kWh	Net Monthly Billing (without RPA credit)			Net Monthly Bill (with RPA credit)			Percent Difference
			Current Prices	Proposed Prices	Percent Difference	Current Prices	Proposed Prices	Percent Difference	
30%	30	6,570	\$715.97	\$718.14	0.3%	\$655.75	\$657.91	0.3%	
30%	50	10,950	\$1,163.75	\$1,167.36	0.3%	\$1,063.37	\$1,066.97	0.3%	
30%	75	16,425	\$1,723.45	\$1,728.87	0.3%	\$1,572.89	\$1,578.31	0.3%	
30%	100	21,900	\$2,283.18	\$2,290.40	0.3%	\$2,082.42	\$2,089.64	0.3%	
30%	135	29,565	\$3,066.80	\$3,076.55	0.3%	\$2,795.78	\$2,805.52	0.3%	
30%	175	38,325	\$3,962.37	\$3,974.99	0.3%	\$3,611.04	\$3,623.67	0.3%	
30%	200	43,800	\$4,522.09	\$4,536.53	0.3%	\$4,120.58	\$4,135.02	0.4%	
50%	30	10,950	\$1,045.92	\$1,049.52	0.3%	\$945.53	\$949.14	0.4%	
50%	50	18,250	\$1,713.66	\$1,719.67	0.4%	\$1,546.35	\$1,552.37	0.4%	
50%	75	27,375	\$2,548.33	\$2,557.36	0.4%	\$2,297.39	\$2,306.41	0.4%	
50%	100	36,500	\$3,383.02	\$3,395.05	0.4%	\$3,048.43	\$3,060.46	0.4%	
50%	135	49,275	\$4,551.56	\$4,567.80	0.4%	\$4,099.85	\$4,116.10	0.4%	
50%	175	63,875	\$5,887.05	\$5,908.10	0.4%	\$5,301.50	\$5,322.56	0.4%	
50%	200	73,000	\$6,721.74	\$6,745.80	0.4%	\$6,052.55	\$6,076.61	0.4%	
70%	30	15,330	\$1,375.85	\$1,380.91	0.4%	\$1,235.32	\$1,240.38	0.4%	
70%	50	25,550	\$2,263.56	\$2,271.99	0.4%	\$2,029.34	\$2,037.77	0.4%	
70%	75	38,325	\$3,373.21	\$3,385.83	0.4%	\$3,021.88	\$3,034.51	0.4%	
70%	100	51,100	\$4,482.85	\$4,499.69	0.4%	\$4,014.41	\$4,031.25	0.4%	
70%	135	68,985	\$6,036.31	\$6,059.05	0.4%	\$5,403.92	\$5,426.66	0.4%	
70%	175	89,425	\$7,811.74	\$7,841.22	0.4%	\$6,991.98	\$7,021.46	0.4%	
70%	200	102,200	\$8,921.38	\$8,955.06	0.4%	\$7,984.52	\$8,018.20	0.4%	
90%	30	19,710	\$1,705.82	\$1,712.32	0.4%	\$1,525.13	\$1,531.63	0.4%	
90%	50	32,850	\$2,813.48	\$2,824.31	0.4%	\$2,512.34	\$2,523.16	0.4%	
90%	75	49,275	\$4,198.06	\$4,214.31	0.4%	\$3,746.36	\$3,762.60	0.4%	
90%	100	65,700	\$5,582.67	\$5,604.32	0.4%	\$4,980.40	\$5,002.05	0.4%	
90%	135	88,695	\$7,521.11	\$7,550.34	0.4%	\$6,708.04	\$6,737.27	0.4%	
90%	175	114,975	\$9,736.44	\$9,774.34	0.4%	\$8,682.47	\$8,720.36	0.4%	
90%	200	131,400	\$11,121.04	\$11,164.35	0.4%	\$9,916.50	\$9,959.81	0.4%	



**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills

**Tariff Schedule 85, Secondary, 3 phase service.**

Bill Comparison assumes 60% on-peak, 40% off-peak energy consumption

Net Monthly Bill

<u>Load Factor</u>	<u>kW</u>	<u>kWh</u>	<u>Current Prices</u>	<u>Proposed Prices</u>	<u>Percent Difference</u>
30%	200	43,800	\$4,545.68	\$4,559.66	0.3%
30%	300	65,700	\$6,509.50	\$6,530.48	0.3%
30%	500	109,500	\$10,437.16	\$10,472.12	0.3%
30%	700	153,300	\$14,364.82	\$14,413.77	0.3%
30%	800	175,200	\$16,328.65	\$16,384.59	0.3%
30%	900	197,100	\$18,292.50	\$18,355.43	0.3%
30%	1,000	219,000	\$20,256.31	\$20,326.24	0.3%
30%	1,500	328,500	\$30,075.47	\$30,180.36	0.3%
30%	2,000	438,000	\$39,894.63	\$40,034.48	0.4%
30%	4,000	876,000	\$77,385.26	\$77,664.97	0.4%
50%	200	73,000	\$6,456.84	\$6,480.15	0.4%
50%	300	109,500	\$9,376.26	\$9,411.22	0.4%
50%	500	182,500	\$15,215.09	\$15,273.37	0.4%
50%	700	255,500	\$21,053.92	\$21,135.51	0.4%
50%	800	292,000	\$23,973.35	\$24,066.59	0.4%
50%	900	328,500	\$26,892.77	\$26,997.66	0.4%
50%	1,000	365,000	\$29,812.19	\$29,928.73	0.4%
50%	1,500	547,500	\$44,409.28	\$44,584.10	0.4%
50%	2,000	730,000	\$59,006.38	\$59,239.47	0.4%
50%	4,000	1,460,000	\$114,188.10	\$114,654.28	0.4%
70%	200	102,200	\$8,368.00	\$8,400.63	0.4%
70%	300	153,300	\$12,243.02	\$12,291.97	0.4%
70%	500	255,500	\$19,993.02	\$20,074.61	0.4%
70%	700	357,700	\$27,743.05	\$27,857.27	0.4%
70%	800	408,800	\$31,618.07	\$31,748.60	0.4%
70%	900	459,900	\$35,493.06	\$35,639.91	0.4%
70%	1,000	511,000	\$39,368.06	\$39,531.23	0.4%
70%	1,500	766,500	\$57,180.34	\$57,425.09	0.4%
70%	2,000	1,022,000	\$76,023.47	\$76,349.80	0.4%
70%	4,000	2,044,000	\$150,928.95	\$151,581.59	0.4%
90%	200	131,400	\$10,279.18	\$10,321.13	0.4%
90%	300	197,100	\$15,109.80	\$15,172.73	0.4%
90%	500	328,500	\$24,770.97	\$24,875.86	0.4%
90%	700	459,900	\$34,432.16	\$34,579.01	0.4%
90%	800	525,600	\$39,262.77	\$39,430.60	0.4%
90%	900	591,300	\$44,093.35	\$44,282.15	0.4%
90%	1,000	657,000	\$48,923.94	\$49,133.72	0.4%
90%	1,500	985,500	\$71,067.66	\$71,382.34	0.4%
90%	2,000	1,314,000	\$94,393.89	\$94,813.45	0.4%
90%	4,000	2,628,000	\$187,669.79	\$188,508.91	0.4%

**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills  
Tariff Schedule 85, Primary, 3 phase service.

Bill Comparison assumes 60% on-peak, 40% off-peak energy consumption

Net Monthly Bill

<u>Load Factor</u>	<u>kW</u>	<u>kWh</u>	<u>Current Prices</u>	<u>Proposed Prices</u>	<u>Percent Difference</u>
30%	200	43,800	\$4,491.53	\$4,505.06	0.3%
30%	300	65,700	\$6,412.87	\$6,433.17	0.3%
30%	500	109,500	\$10,255.47	\$10,289.31	0.3%
30%	700	153,300	\$14,098.08	\$14,145.45	0.3%
30%	800	175,200	\$16,019.41	\$16,073.55	0.3%
30%	900	197,100	\$17,940.73	\$18,001.64	0.3%
30%	1,000	219,000	\$19,862.03	\$19,929.70	0.3%
30%	1,500	328,500	\$29,468.60	\$29,570.11	0.3%
30%	2,000	438,000	\$39,075.16	\$39,210.50	0.3%
30%	4,000	876,000	\$75,715.43	\$75,986.11	0.4%
50%	200	73,000	\$6,366.61	\$6,389.17	0.4%
50%	300	109,500	\$9,225.47	\$9,259.31	0.4%
50%	500	182,500	\$14,943.18	\$14,999.58	0.4%
50%	700	255,500	\$20,660.89	\$20,739.84	0.4%
50%	800	292,000	\$23,519.74	\$23,609.97	0.4%
50%	900	328,500	\$26,378.60	\$26,480.11	0.4%
50%	1,000	365,000	\$29,237.45	\$29,350.23	0.4%
50%	1,500	547,500	\$43,531.73	\$43,700.91	0.4%
50%	2,000	730,000	\$57,826.00	\$58,051.57	0.4%
50%	4,000	1,460,000	\$111,796.44	\$112,247.58	0.4%
70%	200	102,200	\$8,241.69	\$8,273.27	0.4%
70%	300	153,300	\$12,038.08	\$12,085.45	0.4%
70%	500	255,500	\$19,630.89	\$19,709.84	0.4%
70%	700	357,700	\$27,223.70	\$27,334.23	0.4%
70%	800	408,800	\$31,020.08	\$31,146.40	0.4%
70%	900	459,900	\$34,816.47	\$34,958.58	0.4%
70%	1,000	511,000	\$38,612.87	\$38,770.77	0.4%
70%	1,500	766,500	\$56,032.12	\$56,268.97	0.4%
70%	2,000	1,022,000	\$74,482.18	\$74,797.98	0.4%
70%	4,000	2,044,000	\$147,815.46	\$148,447.06	0.4%
90%	200	131,400	\$10,116.76	\$10,157.36	0.4%
90%	300	197,100	\$14,850.73	\$14,911.64	0.4%
90%	500	328,500	\$24,318.60	\$24,420.11	0.4%
90%	700	459,900	\$33,786.47	\$33,928.58	0.4%
90%	800	525,600	\$38,520.43	\$38,682.84	0.4%
90%	900	591,300	\$43,254.35	\$43,437.06	0.4%
90%	1,000	657,000	\$47,988.29	\$48,191.30	0.4%
90%	1,500	985,500	\$69,648.75	\$69,953.27	0.4%
90%	2,000	1,314,000	\$92,491.69	\$92,897.72	0.4%
90%	4,000	2,628,000	\$183,834.48	\$184,646.53	0.4%

**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills

**Tariff Schedule 89, Secondary.**

Bill Comparison assumes 60% on-peak, 40% off-peak energy consumption

<u>Load Factor</u>	<u>Net Monthly Bill</u>				<u>Percent Difference</u>
	<u>kW</u>	<u>kWh</u>	<u>Current Prices</u>	<u>Proposed Prices</u>	
30%	4,000	876,000	\$74,043.94	\$74,314.63	0.4%
30%	7,500	1,642,500	\$136,176.90	\$136,684.44	0.4%
30%	10,000	2,190,000	\$180,513.31	\$181,190.02	0.4%
30%	15,000	3,285,000	\$269,186.11	\$270,201.17	0.4%
30%	20,000	4,380,000	\$357,858.91	\$359,212.33	0.4%
50%	4,000	1,460,000	\$109,944.50	\$110,395.64	0.4%
50%	7,500	2,737,500	\$203,374.21	\$204,220.10	0.4%
50%	10,000	3,650,000	\$270,109.71	\$271,237.56	0.4%
50%	15,000	5,475,000	\$403,580.72	\$405,272.49	0.4%
50%	20,000	7,300,000	\$537,051.72	\$539,307.42	0.4%
70%	4,000	2,044,000	\$145,783.07	\$146,414.66	0.4%
70%	7,500	3,832,500	\$270,571.51	\$271,755.75	0.4%
70%	10,000	5,110,000	\$359,706.11	\$361,285.10	0.4%
70%	15,000	7,665,000	\$537,975.32	\$540,343.81	0.4%
70%	20,000	10,220,000	\$716,244.53	\$719,402.51	0.4%
90%	4,000	2,628,000	\$181,621.63	\$182,433.68	0.4%
90%	7,500	4,927,500	\$337,768.81	\$339,291.41	0.5%
90%	10,000	6,570,000	\$449,302.52	\$451,332.65	0.5%
90%	15,000	9,855,000	\$672,369.93	\$675,415.12	0.5%
90%	20,000	13,140,000	\$895,437.34	\$899,497.60	0.5%

**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills

**Tariff Schedule 89, Primary, 3 phase service.**

Bill Comparison assumes 60% on-peak, 40% off-peak energy consumption

<u>Net Monthly Bill</u>						
<u>Load Factor</u>	<u>kW</u>	<u>kWh</u>	<u>Current Prices</u>	<u>Proposed Prices</u>	<u>Percent Difference</u>	
30%	4,000	876,000	\$71,546.36	\$71,808.02	0.4%	
30%	7,500	1,642,500	\$132,422.22	\$132,912.84	0.4%	
30%	10,000	2,190,000	\$175,860.69	\$176,514.85	0.4%	
30%	15,000	3,285,000	\$262,737.64	\$263,718.87	0.4%	
30%	20,000	4,380,000	\$349,614.59	\$350,922.89	0.4%	
50%	4,000	1,460,000	\$106,791.26	\$107,227.36	0.4%	
50%	7,500	2,737,500	\$198,390.17	\$199,207.87	0.4%	
50%	10,000	3,650,000	\$263,817.96	\$264,908.21	0.4%	
50%	15,000	5,475,000	\$394,673.53	\$396,308.92	0.4%	
50%	20,000	7,300,000	\$525,529.11	\$527,709.62	0.4%	
70%	4,000	2,044,000	\$141,974.17	\$142,584.71	0.4%	
70%	7,500	3,832,500	\$264,358.12	\$265,502.89	0.4%	
70%	10,000	5,110,000	\$351,775.22	\$353,301.57	0.4%	
70%	15,000	7,665,000	\$526,609.43	\$528,898.96	0.4%	
70%	20,000	10,220,000	\$701,443.63	\$704,496.35	0.4%	
90%	4,000	2,628,000	\$177,157.07	\$177,942.06	0.4%	
90%	7,500	4,927,500	\$330,326.06	\$331,797.91	0.4%	
90%	10,000	6,570,000	\$439,732.48	\$441,694.94	0.4%	
90%	15,000	9,855,000	\$658,545.32	\$661,489.01	0.4%	
90%	20,000	13,140,000	\$877,358.16	\$881,283.08	0.4%	

**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills

**Tariff Schedule 89, Transmission**

Bill Comparison assumes 60% on-peak, 40% off-peak energy consumption

Net Monthly Bill

<u>Load Factor</u>	<u>kW</u>	<u>kWh</u>	<u>Current Prices</u>	<u>Proposed Prices</u>	<u>Percent Difference</u>
30%	4,000	876,000	\$67,851.75	\$68,113.41	0.4%
30%	5,000	1,095,000	\$83,997.26	\$84,324.34	0.4%
30%	10,000	2,190,000	\$164,414.82	\$165,068.97	0.4%
30%	20,000	4,380,000	\$325,249.94	\$326,558.24	0.4%
30%	40,000	8,760,000	\$646,920.17	\$649,536.78	0.4%
30%	50,000	10,950,000	\$807,755.29	\$811,026.06	0.4%
30%	70,000	15,330,000	\$1,129,425.53	\$1,134,004.60	0.4%
50%	4,000	1,460,000	\$102,645.51	\$103,081.61	0.4%
50%	5,000	1,825,000	\$127,411.97	\$127,957.09	0.4%
50%	10,000	3,650,000	\$251,244.23	\$252,334.49	0.4%
50%	20,000	7,300,000	\$498,908.76	\$501,089.27	0.4%
50%	40,000	14,600,000	\$994,237.82	\$998,598.84	0.4%
50%	50,000	18,250,000	\$1,241,902.35	\$1,247,353.63	0.4%
50%	70,000	25,550,000	\$1,737,231.41	\$1,744,863.20	0.4%
70%	4,000	2,044,000	\$137,377.28	\$137,987.82	0.4%
70%	5,000	2,555,000	\$170,826.67	\$171,589.85	0.4%
70%	10,000	5,110,000	\$338,073.64	\$339,600.00	0.5%
70%	20,000	10,220,000	\$672,567.58	\$675,620.30	0.5%
70%	40,000	20,440,000	\$1,341,555.47	\$1,347,660.90	0.5%
70%	50,000	25,550,000	\$1,676,049.41	\$1,683,681.20	0.5%
70%	70,000	35,770,000	\$2,345,037.29	\$2,355,721.79	0.5%
90%	4,000	2,628,000	\$172,109.04	\$172,894.03	0.5%
90%	5,000	3,285,000	\$214,241.38	\$215,222.61	0.5%
90%	10,000	6,570,000	\$424,903.05	\$426,865.51	0.5%
90%	20,000	13,140,000	\$846,226.41	\$850,151.33	0.5%
90%	40,000	26,280,000	\$1,688,873.12	\$1,696,722.95	0.5%
90%	50,000	32,850,000	\$2,110,196.47	\$2,120,008.77	0.5%
90%	70,000	45,990,000	\$2,952,843.18	\$2,966,580.39	0.5%

**PORTLAND GENERAL ELECTRIC**

Effect of Proposed Rate Change on Monthly Bills

**Tariff Schedule 90, Primary, 3 phase service.**

Bill Comparison assumes 60% on-peak, 40% off-peak energy consumption

Net Monthly Bill

<u>Load Factor</u>	<u>kW</u>	<u>kWh</u>	<u>Current Prices</u>	<u>Proposed Prices</u>	<u>Percent Difference</u>
80%	4,000	2,336,000	\$175,139.88	\$175,813.58	0.4%
80%	5,000	2,920,000	\$212,362.35	\$213,204.48	0.4%
80%	10,000	5,840,000	\$398,474.70	\$400,158.95	0.4%
80%	20,000	11,680,000	\$770,699.39	\$774,067.90	0.4%
80%	40,000	23,360,000	\$1,515,148.78	\$1,521,885.81	0.4%
80%	60,000	35,040,000	\$2,259,598.18	\$2,269,703.71	0.4%
80%	80,000	46,720,000	\$3,004,047.57	\$3,017,521.62	0.4%
90%	4,000	2,628,000	\$191,675.66	\$192,433.58	0.4%
90%	5,000	3,285,000	\$233,032.08	\$233,979.47	0.4%
90%	10,000	6,570,000	\$439,814.16	\$441,708.95	0.4%
90%	20,000	13,140,000	\$853,378.32	\$857,167.89	0.4%
90%	40,000	26,280,000	\$1,680,506.63	\$1,688,085.78	0.5%
90%	60,000	39,420,000	\$2,507,634.95	\$2,519,003.68	0.5%

**SCHEDULE 146  
COLSTRIP POWER PLANT  
OPERATING LIFE ADJUSTMENT**

**PURPOSE**

This schedule establishes the mechanism to implement in rates the Company's share of the revenue requirement effect of the change in the Colstrip Power Plant Units 3 and 4 and associated common facilities currently assumed end of depreciable life year from 2042 to 2030 as specified in 2016 Oregon Laws, Chapter 28 (SB 1547), Section 1. This schedule is implemented as an "automatic adjustment clause" as defined in ORS 757.210.

**APPLICABLE**

To all bills for Electricity Service except Schedules 76R, 485, 489, 490, 491, 492, 495 and 576R.

**ADJUSTMENT RATES**

Schedule 146 Adjustment Rates will be set based on an equal percent of Energy Charge revenues applicable at the time of any filing that revises rates pursuant to this schedule.

<u>Schedule</u>		<u>Adjustment Rate</u>
7	0.035	¢ per kWh
15/515	0.028	¢ per kWh
32/532	0.032	¢ per kWh
38/538	0.030	¢ per kWh
47	0.038	¢ per kWh
49/549	0.037	¢ per kWh
75/575		
Secondary	0.030	¢ per kWh
Primary	0.029	¢ per kWh
Subtransmission	0.029	¢ per kWh
83/583	0.032	¢ per kWh
85/585		
Secondary	0.031	¢ per kWh
Primary	0.030	¢ per kWh
89/589		
Secondary	0.030	¢ per kWh
Primary	0.029	¢ per kWh
Subtransmission	0.029	¢ per kWh

**SCHEDULE 146 (Concluded)**

**ADJUSTMENT RATE (Continued)**

<u>Schedule</u>	<u>Adjustment Rate</u>	
90/590	0.028	¢ per kWh
91/591	0.028	¢ per kWh
92/592	0.028	¢ per kWh
95/595	0.028	¢ per kWh

**DETERMINATION OF ADJUSTMENT AMOUNT**

Any revision to this schedule's Adjustment Rates requires Commission authorization (by order, approval of a filing, acknowledgement of an Integrated Resource Plan's Action Plan, or approval of a depreciation study) to revise for rate setting and accounting purposes, the end of depreciable life assumption of 2042 for the Colstrip Power Plant Units 3 and 4 and associated common facilities. The revised Adjustment Rates will be set to recover an Adjustment Amount reflecting the change in depreciation revenue requirements.

The Adjustment Amount is the difference between the Colstrip Power Plant Units 3 and 4 and associated common facilities depreciation/amortization revenue requirement for the year 2017 as determined in UE 294 that reflects a plant end of depreciable life date of 2042, and the same depreciation/amortization revenue requirement determination using a plant end of depreciable life assumption of 2030. The depreciation/amortization revenue requirement change computation will use the Commission-authorized tax rates, revenue sensitive cost rates, rate of return, and return on equity rates. Only changes to depreciation expense, amortization expense and related Schedule M and rate base adjustments as of the date of the filing revisions to this rate schedule are included in the depreciation/amortization revenue requirements.

The Adjustment Rates will be updated annually to reflect the subsequent year's change in the Colstrip Power Plant Units 3 and 4 depreciation revenue requirement, if the Company has not incorporated the revised depreciable life into base rates in a general rate case or other proceeding.

The docket reference numbers and dates in this schedule will be revised as necessary to a subsequent docket if no change to the Colstrip Power Plant Units 3 and 4 and associated common facilities depreciable life occurs prior to a subsequent general rate case order.

**TERM**

This schedule will terminate at the date that base rates include the revised end of life assumption or when all remaining investment in the Colstrip Power Plant Units 3 and 4 and associated facilities have been recovered.