

**PUBLIC UTILITY COMMISSION OF OREGON
STAFF REPORT
PUBLIC MEETING DATE: December 15, 2020**

REGULAR X CONSENT _____ EFFECTIVE DATE February 1, 2021

DATE: December 8, 2020

TO: Public Utility Commission

FROM: Sabrina Soldavini

THROUGH: Bryan Conway and John Crider **SIGNED**

SUBJECT: PORTLAND GENERAL ELECTRIC:
(Docket No. ADV 1130/Advice No. 20-14)
Updates Schedule 300 Line Extension Allowance, revising Residential
Line Extension Allowance.

STAFF RECOMMENDATION:

Approve Portland General Electric's (PGE or Company) Advice No. 20-14, which updates Schedule 300 Line Extension Allowance, to revise the residential line extension allowance (LEA) policy, effective with service rendered on and after January 1, 2021, subject to the following condition:

1. No later than June 30, 2025, the Company agrees to initiate a review, along with Staff and other interested parties, of the residential LEAs using updated PGE energy use data for newly constructed residential homes.

DISCUSSION:

Issue

Whether the Public Utility Commission of Oregon (Commission) should approve PGE's Advice No. 20-14, updating Schedule 300 Line Extension Allowance.

Applicable Rule or Law

ORS 757.205 requires public utilities to file schedules showing all rates, tolls, and charges for service that have been established and are in force at the time. Pursuant to

ORS 757.210, the Commission may approve tariff changes if they are deemed to be fair, just, and reasonable.

ORS 757.220 requires that any proposed change in rates, tolls, charges, rules, or regulations must be filed with the Commission by the utility at least 30 days before the effective date of the changes. ORS 757.220.

OAR 860-022-0025 requires that each energy utility changing existing tariffs or schedules must include in its filing a statement plainly indicating the increase, decrease, or other change made with the filing, the number of customers affected by the proposed change and the resulting change in annual revenue; and the reasons or grounds relied upon in support of the proposed change.

OAR 860-021-0045(1) states that an electric company shall, with the exceptions provided under its extension rules, furnish service connections to the customer's service entrance.

Analysis

Background

On June 8, 2020, PGE filed Advice No. 20-14, requesting updates to its residential LEA, as outlined in Schedule 300's Line Extension Allowance. PGE's filing seeks to substantively change the Company's current residential line extension policy. Currently, all new residential dwellings have the same maximum residential LEA, \$1,623. The Company's filing seeks to create two distinct categories for residential LEAs, each with their own LEA.

The first category, Residential Service All Electric (All Electric), would be available to dwellings where the primary heating source is provided by an active electric HVAC-system. The second category, Residential Service Primary Other (Other), would be available to dwellings where the active primary service is provided by an HVAC system using combustion furnaces fueled by natural gas, propane, oil, and biodiesel as well as all passive HVAC-system solutions.

In PGE's initial application, the Company requested an All Electric LEA of \$2,560 per dwelling/unit and an Other LEA of \$1,590 per dwelling/unit.

On August 20, 2020, the Company submitted a supplemental filing, lowering the amount of the Residential All Electric LEA to \$2,260 per dwelling/unit and committing to an automatic review to be conducted between Staff, the Company, and interested parties

with updated PGE energy use data for newly constructed residential homes no later than June 2025.

On November, 19, 2020, PGE submitted a second supplemental filing requesting to modify the effective date from January 1, 2020, to February 1, 2020, with the understanding that Staff would bring this docket to the Commission for decision at the December 15, 2020, Public Meeting.

PGE's proposal sets the residential LEA to three times the annual distribution and basic charge revenues. The proposed LEAs are calculated using the average between PGE new home construction usage data and industry estimated consumption for specific end-uses in residential new construction.

In its filing, the Company asserts that this proposal to restructure its residential LEAs supports Oregon's decarbonization goals, as outlined in the Governor's Executive Order No. 20-04 (EO 20-04), by providing an incentive to electrify, and thereby decarbonizing residential load.¹ However, Staff's analysis and recommendation does not rely on PGE's assertion, but instead relies only on applicable statutes and rules.

Line Extension Allowance Principles

An energy utility is assigned an exclusive service territory. Within the service territory, the utility is obligated to serve all customers. However, this obligation does not exempt the new customer from bearing the costs incurred to connect the customer to the system. A line extension allowance is the amount of money the customer is credited against the PGE-estimated cost of their line extension.

Line extension allowances are a common practice in the utility industry. Most electric utilities have a line extension policy that outlines how costs are allocated and incurred to extend service to new customers. Generally, the utility provides a credit against the cost for providing services up to the customer property location.

The amount of the credit is the amount not collected from the customer. This means that the credit is essentially the amount that is added to the utility's rate base and included in overall revenue requirements. Given that the new customer will contribute revenues to the system which help pay for common costs, PGE is recognizing that a larger use customer should provide greater margins and thus can be offered a greater line extension amount. A limiting factor in the amount of the credit is to ensure that

¹ Docket No. ADV 1130, PGE Initial Filing, page 2.

amount of the line extension does not result in higher rates to other customers since the credit is included in revenue requirements.^{2,3}

Staff affirms its position that a line extension allowance should hold other customers harmless – that is, in its review, Staff’s goal is to ensure that the proposed line extension allowance does not result in higher residential rates. To ensure that, the expected incremental revenues from the new customers are compared to the amount of the line extension allowance. Another consideration is to treat customers equitably. Since all residential customers have likely been eligible for line extensions, there should be a consideration of equity among customers for the line extension allowances they received.

Staff’s Analysis & Review

In order to determine the reasonableness of PGE’s proposal to have a more granular residential LEA, Staff focused its review on determining if the proposed LEA’s would ensure that other customers would not be harmed by creating a distinct LEA for All Electric and Other residential dwellings.

To do so, Staff met with the Company on several occasions, and sent two sets of information requests, to ensure the Company’s proposal uses the appropriate load estimates (to reasonably estimate the expected incremental revenue) and cost data (to estimate the supportable LEA).

Load Data

As mentioned above, PGE’s proposal will set the residential LEA to three times the expected annual distribution and basic charge revenues.⁴

PGE’s proposal to split the residential LEAs into All Electric and Other categories is in part justified by the idea that a new all-electric customer is likely to have higher annual kWh usage than a new customer who uses another fuel source.

The proposed Other LEA assumes an annual usage of 9,100 kWh, and the proposed All Electric LEA assumes annual usage of 12,980 kWh. The LEA’s are calculated using PGE’s new home construction usage data, as well as industry estimated consumption for specific end-uses in residential new construction from the Northwest Power

² RAP Electric Cost Allocation for a New ERA, page 59: <https://www.raponline.org/wp-content/uploads/2020/01/rap-lazar-chernick-marcus-lebel-electric-cost-allocation-new-era-2020-january.pdf>.

³ This is similar in concept to an incentive rate and the discussion in Order No. 87-402.

⁴ Staff notes that PGE’s current residential LEA is set at four times the expected annual distribution and basic charge revenues.

Council's Regional Technical Forum (RTF) and the US Energy Information Administration's 2015 Residential Consumption Survey.

After reviewing the Company's initial application, Staff and the Company met to review its proposal and associated workpapers on June 26, 2020. After this meeting, Staff requested additional information regarding the Company's proposed LEAs, including further clarification on the incremental difference in the LEA between the All Electric and Other categories.

Staff and PGE met again on July 11, 2020, to further discuss PGE's usage data and its proposed residential LEA's. Staff's main concern in its review was that while PGE new home construction usage data does suggest that there is a difference in the expected annual usage (and therefore revenue) between All Electric and Other customers, the PGE system usage data alone did not warrant as large of an incremental difference in the LEA's as PGE's initial application proposed (\$2,560 and \$1,593 per dwelling/unit). Staff expressed its preference that whenever possible, utility specific data be used rather than industry estimates.

PGE expressed that it was proposing to use the estimated annual usage data from the RTF (as opposed to PGE data) to calculate the All Electric LEA because of data reliability concerns including small sample sizes, improper tagging of a portion of the homes in its data set, and the utility's inability to verify the accuracy of information about appliances in a customer's home. PGE believes that the RTF data provides a more accurate estimate of a new All Electric customer's incremental annual usage.

On August 13, 2020, Staff, PGE, and the Citizens' Utility Board (CUB) met to discuss the Company's proposal. Subsequently, on August 20, 2020, the Company filed replacement sheets lowering the proposed All Electric LEA from \$2,560 to \$2,260 per dwelling/unit.

The updated estimated annual consumption for the All Electric category is 12,980 kWh. This represents the average of the RTF data (14,692 kWh) and PGE system data from 2010-2017 (11,269 kWh). In the revised filing, PGE also agrees to an automatic review of the residential LEAs, to take place no later than June 2025.

Staff finds that the proposal to use the midpoint between PGE's system usage data and the RTF estimates, with an automatic review to take place no later than June 30, 2025, is a reasonable compromise between Staff's preference to use Company-specific usage data and the Company's concerns that its data is not fully reliable or accurate at this time.

Using the midpoint between these two estimates allows PGE to achieve its goal to create two distinct residential LEA categories, while ensuring that the All Electric LEA meets the principle of not raising rates to other customers. Staff's intent is that the proposed automatic review will allow PGE sufficient time to collect accurate survey and usage data for newly constructed all electric homes within its survey territory so that the residential LEAs can be evaluated based on PGE specific kWh usage data, and have the LEA revised if necessary.

Cost Data

To determine whether PGE's proposal to use a multiplier of three times the annual distribution and basic charge revenues is justifiable, it is important to review the underlying cost data and any assumptions related to these estimated costs. As such, Staff issued six detailed data requests asking the Company to perform quantitative analysis demonstrating the reasonableness of its proposed revenue multiplier.

Staff requested that PGE perform this analysis using marginal cost data specific to residential customers from its most recent rate case, UE 335, and net book life and salvage value assumptions from its most recently approved depreciation study, UM 1809. Staff also requested and reviewed sample residential line extension allowance work order requests.

In response to Staff's requests, the Company performed a breakeven analysis demonstrating that the maximum supportable multiplier is approximately 8.5 as shown in the following table.⁵

⁵ Attachment A, Page 4, PGE Response to Staff IR 3.

Calculation of Proposed Residential Line Extension Allowance				
Line No	Description	Source	Units	Value
1	Revenue from Residential Schedule 7	UE 335 Rev Prop	(\$000)	\$942,357
2	Marginal Cost to Serve Residential Load from UE 335	UE 335	(\$/MWh)	\$93.93
3	Energy from Residential Sch 7	UE 335 Rev Prop	MWh	7,568,918
4	Marginal Cost to Serve Residential Load from UE 335	Line 2 * Line 3/1000	(\$000)	\$710,912
5	Net Margin from Residential Sch 7	Line 1 - Line 4	(\$000)	\$ 231,446
6	Annualization Factor	Levelized Annual Rev Req		6.23%
7	Investment Supported by Revenue	Line 5/Line 6	(\$000)	\$ 3,712,405
8	Basic and Distribution Revenue from Schedule 7	Line 3* Distribution and Basic Charge Marginal Revenue	(\$000)	\$439,073
9	Supportable Residential Line Extension Allowance	Line 7/Line 8	Multiplier	8.455097655

Staff has reviewed the Company's analysis and its responses to Staff's information requests, and finds that in this instance, the multiplier of three is justified and can be reasonably expected to not result in an increase in residential rates.

Staff notes that individual line extension projects have incremental costs and revenues that will vary, but the proposed All Electric and Other LEAs are based on aggregate data and remain constant and do not vary by project.⁶ Therefore, by proposing an LEA of three years of expected revenues, PGE creates a buffer between the proposed allowances and the breakeven point, which reduces the risk that other customers will see a rate increase as a result of the proposed LEAs.

Stakeholder Comments

At the time of this writing, three separate stakeholders have filed comments on PGE's proposal: Electrify Now, Oregon League of Conservation Voters (OLCV), and Northwest Natural Gas Company (NW Natural).

Both Electrify Now and OLCV expressed support for the proposal, stating that the proposed All Electric LEA is a meaningful mechanism to encourage electrification in Oregon's building sector, which the stakeholders assert is critical in meeting the goals of EO 20-04.

⁶ An important note is that while the All Electric and Other LEA remain constant for all projects, they represent a maximum, not a guarantee. For example, if the expected cost of a line extension is only \$1200, the customer would receive a \$1200 allowance, not the maximum LEA.

In its comments, NW Natural requests that the Commission not rely on PGE's characterization of EO 20-04 in making its determination of whether or not to approve PGE's application. NW Natural notes that it could not determine what analysis PGE relied on or performed in making its claims that its proposal will support EO 20-04 and asks that if the Commission does consider the merits of EO 20-04 in its decision, that it require PGE to support its claims with further analysis and provide an opportunity for stakeholders to review, seek discovery, and provide comment. As stated earlier, Staff gave no weight or consideration to PGE's characterization of EO 20-04 in determining a recommendation for the Commission.

Conclusion

Based on Staff's analysis of PGE's filing, associated workpapers, responses to Staff information requests, and virtual meetings with the Company, Staff finds that the Company's updates to Schedule 300 result in rates that are fair, just, and reasonable.

While Staff notes that PGE's proposal to create two separate categories of LEA based on whether the customer is an All Electric customer appears to be novel (Staff is unaware of another electric utility with a similar structure), Staff finds that this reasonably comports with the principles of LEAs to base the allowance on a multiple of expected annual revenues.

Finally, in making this recommendation, Staff reaffirms that it has not relied on PGE's assertion that its proposed residential LEAs will support the goals of EO 20-04. Staff's recommendation is consistent with its past practice in evaluating LEAs on an economic basis.

PROPOSED COMMISSION MOTION:

Approve PGE's Advice No. 20-14, which updates Schedule 300 Line Extension Allowance, to revise the residential LEA policy, effective with service rendered on and after January 1, 2021, subject to the following condition:

1. No later than June 30, 2025, the Company agrees to initiate a review, along with Staff and other interested parties, of the residential LEAs using updated PGE energy use data for newly constructed residential homes.

November 9, 2020

TO: Sabrina Soldavini
Public Utility Commission of Oregon

FROM: Robert Macfarlane
Manager, Pricing and Tariffs

PORTLAND GENERAL ELECTRIC
ADV 1130 / Advice No. 20-14
PGE Response to OPUC Information Request No. 003
Dated October 26, 2020

Request:

Please reference the Company's supplemental application, which states that the appropriate revenue multiplier is three times the annual and basic distribution charge revenues.

- a. Please explain, in narrative form, why a multiple of three is appropriate.
- b. Please provide a quantitative analysis to support the statement that a revenue multiplier of three is justifiable. Please also separately show what the maximum supportable revenue multiplier would be. Please provide all workpapers in Excel spreadsheet format, formulae, sources, and definitions used in this analysis.

Response:

- A. Consistent with previous practice, PGE uses the "net revenues" approach to derive line extension allowances. It is derived from the added facility rate charge in which there is no capital recovery and which does not include components for rate based costs (rate of return, income tax, carrying cost of capital, and depreciation). The multiplier of three enables PGE to limit the LEA to the costs of the average installation. Those net revenues are economically justified based on the expected revenues provided by the new customer that "support" the distribution line and service extension.
- B. Please see attached spreadsheets IR3B.XLSX and IR3B&4A Marginal Costs.XLSX

The formula used to calculate PGE's previous Residential Line Extension Amounts in 2011 and 2001 is:

1. *Basic Charge Revenues + Distribution Revenues/KWH forecast* = *\$/kWh*.
2. *KWH forecast/Customer forecast* = *Average customer kwh usage*
3. *\$/kWh * Average customer kWh usage * Revenue years* = *Line Extension Allowance*.

Using the methodology described above and updating the Residential Line Extension based on the updated Basic and Distribution Charge Revenues, the average KWH from PGE's

last General Rate Case UE 335 and applying a multiplier of 3, the line extension allowance would be \$1684. If PGE continued to use a multiplier of 4 the maximum supportable line extension would be \$2,245.

In Advice Filing 1130 PGE did not use the total Average customer kWh usage from UE 335 to calculate its Residential Line Extension Allowance. Instead PGE used 9,110 kWh for Residential Service Primary Other (this is the average yearly load of residential customers who do not use electricity as their primary heating source) and 12,980 kWh for Residential All Electric (this is the Reginal Technical Form Data and the PGE midpoint) This resulted in a Residential Line Extension Allowance of \$1590 for “Other” and \$2260 for “All Electric”

PGE has calculated a supportable residential line extension allowance of 8 years. This is derived from using similar methodology that Pacific Power used in Advice 1148 for their Transportation Electrification Line Extension Allowance. However, as discussed above PGE divides the investment supported by revenue by the basic and distribution revenues to calculate the supportable residential line extension multiplier instead of using the total revenues which Pacific Power does. This is appropriate because PGE’s multiple is based on Basic and Distribution Charge revenues rather than total revenues.

Prior to filing Advice Filing 1130, PGE reviewed the work orders received for residential new construction between November 2014 and July 2019. The average cost to install new residential service was \$2,005 per dwelling/unit. Based on those work orders, the total amount of investment under PGE’s revised proposed would not increase.

Portland General Electric
 Marginal Cost Summary
 (000)s

	COS MWh	Generation Energy MC	Generation Capacity MC	Transmission MC	Substation MC	Subtransmission MC	Meter MC	Customer MC	Subtotal MC	Real Levelized MC \$/kWh	Other Dist MC	Total MC	Real Levelized MC \$/kWh
Schedule 7	7,568,915	\$307,309	\$142,662	\$17,436	\$4,207	\$4,237	\$15,214	\$49,618	\$540,682	\$0.0714	\$170,229	\$710,912	\$0.0939
Schedule 32	1,631,912	\$65,236	\$23,824	\$3,167	\$670	\$675	\$3,711	\$7,557	\$104,840	\$0.0642	\$38,351	\$143,191	\$0.0877
Schedule 38	31,497	\$1,298	\$319	\$50	\$28	\$29	\$46	\$62	\$1,833	\$0.0582	\$1,104	\$2,936	\$0.0932
Schedule 83	2,887,308	\$116,524	\$41,074	\$5,697	\$1,264	\$1,273	\$1,443	\$2,880	\$170,155	\$0.0589	\$39,182	\$209,337	\$0.0725
Schedule 85	2,714,651	\$107,903	\$34,884	\$4,989	\$1,395	\$1,404	\$654	\$2,151	\$153,380	\$0.0565	\$23,013	\$176,393	\$0.0650
Schedule 89	454,957	\$17,521	\$4,660	\$698	\$411	\$488	\$47	\$336	\$24,160	\$0.0531	\$2,699	\$26,859	\$0.0590

LEA Annual Marginal Costs
 Other Electric Annual KWH **9108**
 Other Electric Annual Cost **\$855,4703**

LEA Annual Marginal Costs
 All Electric Annual KWH **12980**
 All Electric Annual Cost **\$1,219,1485**

Other Electric Monthly Revenues

	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
kWh/mo	0.112830729	0.089199115	0.08798784	0.07566315	0.071288	0.067485112	0.076814389	0.07853296	0.06856497	0.070783	0.086525107	0.114325953	9107
Block 1	1,000	812	801	689	649	615	700	715	624	645	788	1,000	9,038
Block 2	28	0	0	0	0	0	0	0	0	0	0	41	69
Energy Block 1 \$	63.29	\$ 51.39	\$ 50.70	\$ 43.61	\$ 41.08	\$ 38.92	\$ 44.30	\$ 45.25	\$ 39.49	\$ 40.82	\$ 49.87	\$ 63.29	\$ 572.02
Energy Block 2 \$	1.97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2.89
Transmission \$	2.50	\$ 1.97	\$ 1.95	\$ 1.67	\$ 1.58	\$ 1.49	\$ 1.70	\$ 1.74	\$ 1.52	\$ 1.57	\$ 1.91	\$ 2.53	\$ 22.13
Distribution \$	47.82	\$ 37.77	\$ 37.26	\$ 32.05	\$ 30.19	\$ 28.61	\$ 32.56	\$ 33.25	\$ 29.03	\$ 30.01	\$ 36.66	\$ 48.43	\$ 423.66
Basic Charge \$	11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 132.00
Total \$	126.58	102.14	100.90	88.33	83.84	80.03	89.57	91.25	81.04	83.39	99.45	128.14	\$1,154.67

Energy Price Block 1 0.06329
 Energy Price Block 2 0.07051
 Transmission Price 0.00243
 Distribution Price 0.04652

All Electric Monthly Revenues

	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
kWh/mo	0.112830729	0.089199115	0.08798784	0.07566315	0.071288	0.067485112	0.076814389	0.07853296	0.06856497	0.070783	0.086525107	0.114325953	12,980
Block 1	1,465	1,158	1,142	982	925	876	997	1,019	890	919	1,123	1,484	11,589
Block 2	465	158	142	0	0	0	0	19	0	0	123	484	1,391
Energy Block 1 \$	63.29	\$ 63.29	\$ 63.29	\$ 62.15	\$ 58.54	\$ 55.44	\$ 63.10	\$ 63.29	\$ 56.33	\$ 58.16	\$ 63.29	\$ 63.29	\$ 733.47
Energy Block 2 \$	32.79	\$ 11.14	\$ 10.01	\$ -	\$ -	\$ -	\$ -	\$ 1.34	\$ -	\$ -	\$ 8.67	\$ 34.13	\$ 98.08
Transmission \$	3.56	\$ 2.81	\$ 2.78	\$ 2.39	\$ 2.25	\$ 2.13	\$ 2.42	\$ 2.48	\$ 2.16	\$ 2.23	\$ 2.73	\$ 3.61	\$ 31.54
Distribution \$	68.15	\$ 53.87	\$ 53.13	\$ 45.68	\$ 43.03	\$ 40.75	\$ 46.38	\$ 47.40	\$ 41.40	\$ 42.75	\$ 52.24	\$ 69.04	\$ 603.83
Basic Charge \$	11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 11.00	\$ 132.00
Total \$	178.79	142.11	140.20	121.22	114.82	109.32	122.90	125.51	110.89	114.15	137.93	181.06	\$1,598.92

\$ 444.25

Calculation of Proposed Residential Line Extension Allowance

Line No	Description	Source	Units	Value
1	Revenue from Residential Schedule 7 Marginal Cost to Serve Residential	UE 335 Rev Prop		(\$000) \$942,357
2	Load from UE 335	UE 335	(\$/MwH)	\$93.93
3	Energy from Residential Sch 7 Marginal Cost to Serve Residential	UE 335 Rev Prop	MWh	7,568,918
4	Load from UE 335	Line 2 * Line 3/1000		(\$000) \$710,912
5	Net Margin from Residential Sch 7	Line 1 -Line 4 Levelized Annual Rev		(\$000) \$ 231,446
6	Annualization Factor	Req		6.38%
7	Investment Supported by Revenue	Line 5/ Line 6 Line 3* Distribution and		(\$000) \$ 3,629,364
8	Basic and Distribution Revenue from Schedule 7 Supportable Residential Line	Basic Charge Marginal Revenue		(\$000) \$439,073
9	Extension Allowance	Line 7/ Line 8	Multiplier	8.265970238

Carrying Cost Calculation: Schedule 7 Residential Service

Key Assumptions:

30% Depreciation Incentive		no	
Book Investment		1	
Tax Book Investment		1	
Book Life		48	
Salvage Rate		-30.00%	
Tax Life		7	Choices are 1,3,5,7,15, or 20
Composite Income Tax Rate		26.99%	
Property Tax Rate		1.45%	
Inflation Rate		2.00%	

Capitalization:

Preferred	0.00%		0.00%
Common	50.00%	9.50%	4.75%
All Equity	50.00%		4.75%
Debt	50.00%	5.10%	2.55%
Cost of Capital			7.30%

After-Tax Nominal Cost of Capital	6.61%
After-Tax Real Cost of Capital	4.52%

Results - Capital Recovery Factors		
Net Present Value of Revenue Requirements	\$1	
Levelized Annual Rev. Requirement	\$0.06	6.38%

Year by Year Revenue Requirements										Unadjusted	Adjusted		Original
Year	Book Depr	Salvage Value	Return Reqmts	Income Tax	Deferred Tax	Property Taxes	Rev Reqmts	Investment Base		Tax Rates	Tax Rates	Tax Depr	Original Basis
1	0	0	0	(0)	0	0	0	1		14.29%	14.29%	0	0
2	0	0	0	(0)	0	0	0	1		24.49%	24.49%	0	0
3	0	0	0	(0)	0	0	0	1		17.49%	17.49%	0	0
4	0	0	0	(0)	0	0	0	1		12.49%	12.49%	0	0
5	0	0	0	(0)	0	0	0	1		8.93%	8.93%	0	0
6	0	0	0	(0)	0	0	0	1		8.92%	8.92%	0	0
7	0	0	0	(0)	0	0	0	1		8.93%	8.93%	0	0
8	0	0	0	0	0	0	0	1		4.46%	4.46%	0	0
9	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
10	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
11	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
12	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
13	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
14	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
15	0	0	0	0	0	0	0	1		0.00%	0.00%	-	0
16	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
17	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
18	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
19	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
20	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
21	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
22	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
23	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
24	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
25	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
26	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
27	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
28	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
29	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
30	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
31	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
32	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
33	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
34	0	0	0	0	(0)	0	0	0		0.00%	0.00%	-	0
35	0	0	0	0	(0)	0.0	0	0		0.00%	0.00%	-	0
36	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
37	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
38	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
39	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
40	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
41	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
42	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
43	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
44	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
45	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
46	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
47	0	0	(0)	0	(0)	0	0	(0)		0.00%	0.00%	-	0
48	0	0	(0)	(0)	(0)	0	(0)	(0)		0.00%	0.00%	0	0
49	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
50	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
51	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
52	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
53	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
54	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
55	0	0	0	0	0	0	0	0		0.00%	0.00%	-	0
1				(0)			1			100.00%	100.00%	1	
Nominal Levelized									0				
Real Levelized									0				

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PORTLAND GENERAL ELECTRIC
 TABLE 1. SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO ELECTRIC PLANT AT DECEMBER 31, 2015

ACCOUNT (1)	SURVIVOR CURVE (2)	NET SALVAGE PERCENT (3)	ORIGINAL COST AS OF DECEMBER 31, 2015 (4)	BOOK RESERVE (5)	FUTURE ACCRUALS (6)	CALCULATED ANNUAL ACCRUAL AMOUNT (7)	COMPOSITE REMAINING LIFE (8)=(7)/(4)	COMPOSITE REMAINING LIFE (9)=(4)/(7)	
MISCELLANEOUS PLANT EQUIPMENT - WIND									
346.01	BILOW CANYON WIND FARM	40 - R2.5	(6)	1,203,670.00	267,760	1,151,067	41,642	3.15	27.6
	TUCANNON RIVER WIND FARM	40 - R2.5	(7)	486,455.43	16,218	606,352	13,577	2.79	37.2
	TOTAL ACCESSORY ELECTRIC EQUIPMENT - WIND			1,610,065.33	283,978	1,697,029	56,219	3.05	30.2
TOTAL OTHER PRODUCTION PLANT									
				2,088,355,262.46	601,616,259	1,657,601,756	91,700,645	3.42	24.6
TOTAL PRODUCTION									
				3,667,804,559.08	1,627,736,885	2,916,691,804	140,599,825	3.69	
TRANSMISSION PLANT									
362.00	STRUCTURES AND IMPROVEMENTS	66 - R2.5	(16)	19,212,917.31	7,936,081	14,272,874	344,467	1.78	41.4
363.00	STATION EQUIPMENT	57 - R2	(15)	267,004,201.60	84,687,061	213,222,664	6,016,308	2.21	36.1
363.00	STATION EQUIPMENT - BOARDMAN	57 - R2	(15)	5,536,401.62	4,777,880	2,016,782	415,797	7.04	4.9
364.00	TOWERS AND FIXTURES	70 - S3	(10)	46,819,269.47	24,217,309	27,263,976	891,028	1.88	31.0
355.00	POLES AND FIXTURES	58 - R1	(65)	25,714,309.81	11,638,626	20,286,989	844,683	3.28	29.9
356.00	OVERHEAD CONDUCTORS AND DEVICES	68 - R2.5	(15)	73,514,806.89	60,243,434	24,188,694	616,611	0.70	46.9
359.00	ROADS AND TRAILS	69 - R3	0	286,252.52	159,597	126,742	3,967	1.38	32.0
	TOTAL TRANSMISSION PLANT			429,460,016.61	203,750,647	306,818,624	8,924,978	2.03	34.4
DISTRIBUTION PLANT									
361.00	STRUCTURES AND IMPROVEMENTS	66 - R2	(20)	30,801,374.33	14,627,692	36,124,621	864,126	2.22	39.7
362.00	STATION EQUIPMENT	55 - S3	(20)	472,365,979.92	146,036,170	421,100,649	13,465,423	2.05	31.3
362.00	STORAGE BATTERY	15 - L3	(5)	387,215.83	51,280	305,229	32,923	6.60	10.8
364.00	POLES, TOWERS AND FIXTURES	48 - R0.5	(45)	349,616,665.27	263,174,817	253,760,633	9,577,376	2.74	26.5
356.00	OVERHEAD CONDUCTORS AND DEVICES	58 - S0.5	(70)	587,252,192.37	401,802,880	608,806,856	19,871,691	3.38	30.0
358.00	UNDERGROUND CONDUIT	60 - R4	(10)	15,265,200.81	9,995,741	6,827,790	144,328	0.84	48.0
357.00	UNDERGROUND CONDUCTIONS AND DEVICES	55 - R1.5	(70)	885,312,080.80	426,971,257	744,863,590	20,861,650	3.04	35.6
368.00	LINE TRANSFORMERS	50 - R2.5	(10)	357,878,000.44	162,350,236	211,315,614	6,407,644	1.78	33.0
369.01	SERVICES - OVERHEAD	40 - R2	(50)	61,300,422.74	40,808,295	36,784,245	1,776,241	1.92	33.0
369.03	SERVICES - UNDERGROUND	50 - R4	(50)	364,770,808.06	274,849,537	198,252,637	4,105,617	1.44	46.6
370.03	METERS	28 - R2	(10)	6,800,028.74	779,878	6,720,653	363,212	6.98	16.2
370.01	METERS - AM	18 - S2.5	(10)	136,155,034.78	41,385,000	108,490,035	16,794,899	7.83	10.0
370.02	METERS - RETAINED	16 - L0.5	(10)	7,301,484.18	3,614,202	4,617,282	855,312	8.08	7.0
371.00	INSTALLATIONS ON CUSTOMERS' PREMISES	30 - R4	0	375,133.46	282,876	93,158	6,448	1.71	14.4
375.01	CIRCUITS - OTHER	40 - L2.5	(27)	21,863,386.76	17,460,094	16,416,810	446,834	2.65	23.2
373.02	FIXTURES, ORNAMENTAL POSTS AND DEVICES	26 - L1	(27)	62,509,076.74	28,258,893	38,480,307	2,620,872	4.61	16.2
373.07	SENTINEL LIGHTING EQUIPMENT	29 - L0.5	(27)	6,491,620.88	10,389,609	397,388	25,010	0.29	18.9
	TOTAL DISTRIBUTION PLANT			3,161,564,679.87	1,663,924,609	2,663,640,430	92,428,361	2.82	28.8

**PORTLAND GENERAL ELECTRIC
2019 Test Period Functionalized Revenue Requirement**

Function	Amount	Spread
PRODUCTION	\$1,031,772	\$1,031,772
TRANSMISSION	\$32,362	\$32,362
ANCILLARY	\$4,832	\$4,832
DISTRIBUTION	\$623,465	\$623,465
METERING	\$10,238	\$10,238
BILLING	\$68,913	\$68,913
CONSUMER	<u>\$59,799</u>	<u>\$59,799</u>
TOTALS	\$1,831,381	\$1,831,381
Schedule 129		(\$20,751)
Employee Discount		\$924
Partial Requirements Transmission		\$0
Partial Requirements Distribution		\$0
Spread Total		\$1,811,554

Note: Employee discount is allocated to distribution

**PORTLAND GENERAL ELECTRIC
UNBUNDLED 2019 COSTS (\$000)**

	Unbundled Costs	Adjusted to Cycle
Fixed Generation Revenue Requirement	\$670,245	\$670,276
Net Variable Power Costs	<u>\$361,528</u>	<u>\$361,545</u>
Production Costs	\$1,031,772	\$1,031,821
Ancillary Services	\$4,832	\$4,832
Transmission		
Transmission	\$32,362	
Partial Requirements Daily Demand	<u>\$0</u>	
Transmission Costs	\$32,362	\$32,364
Distribution Services	\$623,465	
Franchise	(\$46,473)	
Uncollectibles	(\$5,977)	
Trojan Decommissioning	(\$1,900)	
Partial Requirements Daily Demand	\$0	
Employee Discount	<u>\$924</u>	\$924
Distribution Costs	\$570,038	\$570,049
Consumer Services		
Metering Services	\$10,238	\$10,238
Billing Services	\$68,913	\$68,915
Other Consumer Services	\$59,799	\$59,800
Franchise Fees	\$46,473	\$46,474
Uncollectibles	\$5,977	\$5,977
Trojan Decommissioning	\$1,900	\$1,900
Schedule 129	(\$20,751)	(\$20,751)
Totals	\$1,811,554	\$1,811,619
Net of employee discount	\$1,810,630	\$1,810,695
Net of Sch 129	\$1,831,381	\$1,831,446
Calendar MWH (COS & ESS)	19,400,134	
Cycle MWH (COS & ESS)	19,400,511	
Cycle/Cal Ratio	100.00%	
COS Calendar Energy MWH	17,311,501	
COS Cycle MWH	17,312,384	
Cycle/Cal Ratio	100.01%	

**TABLE 4
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2019**

CATEGORY	RATE SCHEDULE	Forecast SSEP18E19 CUSTOMERS MWH SALES		TOTAL ELECTRIC BILLS		Change		
				CURRENT	PROPOSED	AMOUNT	PCT.	
				with all supplementals except LIA & PPC	with all supplementals except LIA & PPC			
Residential	7	782,981	7,568,918	\$928,180,528	\$942,357,498	\$14,176,970	1.5%	124.50
Employee Discount				(\$892,151)	(\$923,927)	(\$31,776)		
Subtotal				\$927,288,377	\$941,433,570	\$14,145,193	1.5%	124.38
Outdoor Area Lighting	15	0	15,774	\$3,568,386	\$3,485,781	(\$82,605)	-2.3%	220.98
General Service <30 kW	32	93,765	1,633,156	\$189,640,551	\$190,024,014	\$383,464	0.2%	116.35
Opt. Time-of-Day G.S. >30 kW	38	383	31,475	\$4,350,858	\$4,248,375	(\$102,483)	-2.4%	134.98
Irrig. & Drain. Pump. < 30 kW	47	3,061	21,633	\$4,296,902	\$4,334,828	\$37,926	0.9%	200.38
Irrig. & Drain. Pump. > 30 kW	49	1,274	64,540	\$9,292,165	\$9,175,362	(\$116,803)	-1.3%	142.16
General Service 31-200 kW	83	11,529	2,884,961	\$272,232,731	\$268,892,282	(\$3,340,449)	-1.2%	93.20
General Service 201-4,000 kW								
Secondary	85-S	1,166	2,122,422	\$176,801,651	\$171,539,680	(\$5,261,972)	-3.0%	80.82
Primary	85-P	187	591,424	\$45,816,258	\$44,470,925	(\$1,345,333)	-2.9%	75.19
Schedule 89 > 4 MW								
Primary	89-P	11	401,176	\$26,138,522	\$25,463,982	(\$674,539)	-2.6%	63.47
Subtransmission	89-T	5	62,759	\$4,705,037	\$4,614,815	(\$90,223)	-1.9%	73.53
Schedule 90	90-P	4	1,861,066	\$108,870,263	\$106,319,848	(\$2,550,415)	-2.3%	57.13
Street & Highway Lighting	91/95	203	50,583	\$11,383,176	\$11,346,574	(\$36,602)	-0.3%	224.32
Traffic Signals	92	16	2,496	\$214,980	\$211,860	(\$3,120)	-1.5%	84.88
COS TOTALS		894,585	17,312,384	\$1,784,599,856	\$1,785,561,897	\$962,040	0.1%	103.14
Direct Access Service 201-4,000 kW								
Secondary	485-S	233	595,102	\$16,932,699	\$15,171,471	(\$1,761,228)		
Primary	485-P	49	331,338	\$7,923,918	\$7,115,507	(\$808,411)		
Direct Access Service > 4 MW								
Secondary	489-S	1	13,482	\$346,455	\$271,105	(\$75,350)		
Primary	489-P	15	961,033	\$19,048,674	\$17,124,259	(\$1,924,415)		
Subtransmission	489-T	3	187,171	\$1,277,969	\$1,257,386	(\$20,584)		
DIRECT ACCESS TOTALS		301	2,088,126	\$45,529,716	\$40,939,728	(\$4,589,988)		
COS AND DA CYCLE TOTALS		894,886	19,400,511	\$1,830,129,572	\$1,826,501,625	(\$3,627,947)	-0.2%	

**TABLE 3
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2019**

CATEGORY	RATE SCHEDULE	Forecast		TOTAL ELECTRIC BILLS		Change		
		CUSTOMERS	MWH SALES	CURRENT	PROPOSED	AMOUNT	PCT.	
				all supplementals except LIA, PPC & Sch 109	all supplementals except LIA, PPC & Sch 109			
Residential	7	782,981	7,568,918	\$890,865,762	\$912,308,893	\$21,443,131	2.4%	120.53
Employee Discount				(\$892,151)	(\$923,927)	(\$31,776)		
Subtotal				\$889,973,611	\$911,384,966	\$21,411,355	2.4%	120.41
Outdoor Area Lighting	15	0	15,774	\$3,438,566	\$3,378,518	(\$60,048)	-1.7%	214.18
General Service <30 kW	32	93,765	1,633,156	\$182,233,850	\$184,134,546	\$1,900,695	1.0%	112.75
Opt. Time-of-Day G.S. >30 kW	38	383	31,475	\$4,187,958	\$4,120,001	(\$67,957)	-1.6%	130.90
Irrig. & Drain. Pump. < 30 kW	47	3,061	21,633	\$4,127,080	\$4,198,754	\$71,674	1.7%	194.09
Irrig. & Drain. Pump. > 30 kW	49	1,274	64,540	\$8,935,285	\$8,886,000	(\$49,285)	-0.6%	137.68
General Service 31-200 kW	83	11,529	2,884,961	\$261,716,224	\$260,870,257	(\$845,968)	-0.3%	90.424
General Service 201-4,000 kW								
Secondary	85-S	1,166	2,122,422	\$170,792,784	\$166,995,474	(\$3,797,310)	-2.2%	78.68
Primary	85-P	187	591,424	\$44,851,167	\$43,741,075	(\$1,110,092)	-2.5%	73.96
Schedule 89 > 4 MW								
Primary	89-P	11	401,176	\$26,138,522	\$25,463,982	(\$674,539)	-2.6%	63.47
Subtransmission	89-T	5	62,759	\$4,705,037	\$4,614,815	(\$90,223)	-1.9%	73.53
Schedule 90	90-P	4	1,861,066	\$108,870,263	\$106,319,848	(\$2,550,415)	-2.3%	57.13
Street & Highway Lighting	91/95	203	50,583	\$11,005,321	\$10,999,575	(\$5,746)	-0.1%	217.46
Traffic Signals	92	16	2,496	\$206,943	\$205,446	(\$1,498)	-0.7%	82.31
COS TOTALS		894,585	17,312,384	\$1,721,182,611	\$1,735,313,255	\$14,130,644	0.8%	100.24
Direct Access Service 201-4,000 kW								
Secondary	485-S	233	595,102	\$15,162,194	\$13,832,527	(\$1,329,667)		
Primary	485-P	49	331,338	\$7,558,054	\$6,838,822	(\$719,231)		
Direct Access Service > 4 MW								
Secondary	489-S	1	13,482	\$346,455	\$271,105	(\$75,350)		
Primary	489-P	15	961,033	\$19,048,671	\$17,124,257	(\$1,924,414)		
Subtransmission	489-T	3	187,171	\$1,277,969	\$1,257,386	(\$20,584)		
DIRECT ACCESS TOTALS		301	2,088,126	\$43,393,344	\$39,324,097	(\$4,069,246)		
COS AND DA CYCLE TOTALS		894,886	19,400,511	\$1,764,575,955	\$1,774,637,352	\$10,061,397	0.6%	

**TABLE 2
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2019**

CATEGORY	RATE SCHEDULE	Forecast SSEP18E19		TOTAL ELECTRIC BILLS		Change	
		CUSTOMERS	MWH SALES	CURRENT	PROPOSED	AMOUNT	PCT.
				w/ Sch. 125, 122, 146, 102	w/ Sch. 125, 122, 146, 102		
Residential	7	782,981	7,568,918	\$883,523,912	\$898,230,706	\$14,706,794	1.7%
Employee Discount				(\$884,717)	(\$897,256)	(\$12,539)	
Subtotal				\$882,639,195	\$897,333,450	\$14,694,255	1.7%
Outdoor Area Lighting	15	0	15,774	\$3,431,783	\$3,405,807	(\$25,976)	-0.8%
General Service <30 kW	32	93,765	1,633,156	\$182,134,741	\$186,647,295	\$4,512,555	2.5%
Opt. Time-of-Day G.S. >30 kW	38	383	31,475	\$4,164,980	\$4,124,117	(\$40,863)	-1.0%
Irrig. & Drain. Pump. < 30 kW	47	3,061	21,633	\$4,106,095	\$4,213,032	\$106,937	2.6%
Irrig. & Drain. Pump. > 30 kW	49	1,274	64,540	\$8,895,265	\$8,902,199	\$6,934	0.1%
General Service 31-200 kW	83	11,529	2,884,961	\$260,300,580	\$260,219,296	(\$81,284)	0.0%
General Service 201-4,000 kW							
Secondary	85-S	1,166	2,122,422	\$169,806,684	\$166,377,461	(\$3,429,222)	-2.0%
Primary	85-P	187	591,424	\$44,573,432	\$43,588,792	(\$984,641)	-2.2%
Schedule 89 > 4 MW							
Primary	89-P	11	401,176	\$25,953,980	\$25,387,759	(\$566,222)	-2.2%
Subtransmission	89-T	5	62,759	\$4,676,168	\$4,612,304	(\$63,864)	-1.4%
Schedule 90	90-P	4	1,861,066	\$108,051,394	\$105,835,971	(\$2,215,423)	-2.1%
Street & Highway Lighting	91/95	203	50,583	\$10,987,111	\$11,085,566	\$98,455	0.9%
Traffic Signals	92	16	2,496	\$205,446	\$204,497	(\$948)	-0.5%
COS TOTALS		894,585	17,312,384	\$1,709,926,854	\$1,721,937,546	\$12,010,692	0.7%
Direct Access Service 201-4,000 kW							
Secondary	485-S	233	595,102	\$15,341,561	\$14,118,265	(\$1,223,296)	
Primary	485-P	49	331,338	\$7,661,795	\$7,001,266	(\$660,529)	
Direct Access Service > 4 MW							
Secondary	489-S	1	13,482	\$350,904	\$278,385	(\$72,519)	
Primary	489-P	15	961,033	\$19,356,202	\$17,591,061	(\$1,765,141)	
Subtransmission	489-T	3	187,171	\$1,337,864	\$1,300,435	(\$37,429)	
DIRECT ACCESS TOTALS		301	2,088,126	\$44,048,327	\$40,289,413	(\$3,758,914)	
COS AND DA CYCLE TOTALS		894,886	19,400,511	\$1,753,975,181	\$1,762,226,959	\$8,251,778	0.5%

**TABLE 1
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2019**

CATEGORY	RATE SCHEDULE	Forecast SSEP18E19		TOTAL ELECTRIC BILLS		Change	
		CUSTOMERS	MWH SALES	CURRENT	PROPOSED	AMOUNT	PCT.
				w/ Sch. 125, 122, 146	w/ Sch. 125, 122, 146		
Residential	7	782,981	7,568,918	\$947,435,349	\$962,557,267	\$15,121,918	1.6%
Employee Discount				(\$944,818)	(\$960,453)	(\$15,635)	
Subtotal				\$946,490,531	\$961,596,814	\$15,106,283	1.6%
Outdoor Area Lighting	15	0	15,774	\$3,459,005	\$3,433,551	(\$25,454)	-0.7%
General Service <30 kW	32	93,765	1,633,156	\$184,212,064	\$188,764,472	\$4,552,407	2.5%
Opt. Time-of-Day G.S. >30 kW	38	383	31,475	\$4,170,414	\$4,129,655	(\$40,759)	-1.0%
Irrig. & Drain. Pump. < 30 kW	47	3,061	21,633	\$4,269,396	\$4,379,465	\$110,069	2.6%
Irrig. & Drain. Pump. > 30 kW	49	1,274	64,540	\$9,348,582	\$9,364,212	\$15,631	0.2%
General Service 31-200 kW	83	11,529	2,884,961	\$262,184,861	\$262,139,726	(\$45,135)	0.0%
General Service 201-4,000 kW							
Secondary	85-S	1,166	2,122,422	\$170,083,395	\$166,659,481	(\$3,423,914)	-2.0%
Primary	85-P	187	591,424	\$44,610,009	\$43,626,070	(\$983,939)	-2.2%
Schedule 89 > 4 MW							
Primary	89-P	11	401,176	\$25,953,980	\$25,387,759	(\$566,222)	-2.2%
Subtransmission	89-T	5	62,759	\$4,676,168	\$4,612,304	(\$63,864)	-1.4%
Schedule 90	90-P	4	1,861,066	\$108,051,394	\$105,835,971	(\$2,215,423)	-2.1%
Street & Highway Lighting	91/95	203	50,583	\$10,987,111	\$11,085,566	\$98,455	0.9%
Traffic Signals	92	16	2,496	\$205,446	\$204,497	(\$948)	-0.5%
COS TOTALS		894,585	17,312,384	\$1,778,702,355	\$1,791,219,543	\$12,517,188	0.7%
Direct Access Service 201-4,000 kW							
Secondary	485-S	233	595,102	\$15,341,561	\$14,118,265	(\$1,223,296)	-8.0%
Primary	485-P	49	331,338	\$7,661,795	\$7,001,266	(\$660,529)	-8.6%
Direct Access Service > 4 MW							
Secondary	489-S	1	13,482	\$350,904	\$278,385	(\$72,519)	-20.7%
Primary	489-P	15	961,033	\$19,356,202	\$17,591,061	(\$1,765,141)	-9.1%
Subtransmission	489-T	3	187,171	\$1,337,864	\$1,300,435	(\$37,429)	-2.8%
DIRECT ACCESS TOTALS		301	2,088,126	\$44,048,327	\$40,289,413	(\$3,758,914)	
COS AND DA CYCLE TOTALS		894,886	19,400,511	\$1,822,750,682	\$1,831,508,956	\$8,758,274	0.5%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 7						
Residential Service						
Monthly Basic Charge						
Single Phase	9,395,591	bills	\$11.00	\$103,351,501	\$11.00	\$103,351,501
Three Phase	180	bills	\$11.00	\$1,980	\$11.00	\$1,980
Transmission & Related Services Charge	7,568,918	MWh	2.09 mills	\$15,819,039	2.43 mills	\$18,392,471
TOU Decrement Transmission						(\$9,508)
Distribution Charge	7,568,918	MWh	43.11 mills	\$326,296,057	46.62 mills	\$352,862,959
TOU Decrement Distribution						(\$182,196)
Energy Charge						
Block 1 (first 500 kWh)	4,150,373	MWh	65.10 mills	\$270,189,253	63.29 mills	\$262,677,079
Block 2 (501-1,000 kWh)	2,140,123	MWh	65.10 mills	\$139,322,024	63.29 mills	\$135,448,401
Block 3 (over 1,000 kWh)	1,278,422	MWh	72.32 mills	\$92,455,495	70.51 mills	\$90,141,551
TOU Decrement Generation						(\$126,972)
Schedule 122	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	7,568,918	MWh	0.27 mills	\$2,043,608	0.26 mills	\$1,967,919
Schedule 146	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102						
1,000 and under	6,290,496	MWh	(10.16) mills	(\$63,911,438)	(9.22) mills	(\$57,998,371)
Over 1,000	1,278,422	MWh	0.00 mills	\$0	(4.95) mills	(\$6,328,190)
Schedule 105	7,568,918	MWh	(0.16) mills	(\$1,211,027)	0.13 mills	\$983,959
Schedule 109	7,568,918	MWh	4.93 mills	\$37,314,766	3.97 mills	\$30,048,605
Schedule 110	7,568,918	MWh	0.05 mills	\$378,446	0.05 mills	\$378,446
Schedule 123	7,568,918	MWh	0.09 mills	\$681,203	2.00 mills	\$15,137,836
Schedule 126	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	7,568,918	MWh	0.14 mills	\$1,059,649	0.44 mills	\$3,330,324
Schedule 137	7,568,918	MWh	0.47 mills	\$3,557,391	0.47 mills	\$3,557,391
Schedule 143	7,568,918	MWh	(0.19) mills	(\$1,438,094)	(0.17) mills	(\$1,286,716)
Schedule 112	7,568,918	MWh	0.30 mills	\$2,270,675	0.30 mills	\$2,270,675
Employee Discount				(\$892,151)		(\$923,927)
Totals	7,568,918	MWh		\$927,288,377		\$953,695,218
				Change		\$26,406,840
				Percent Change		2.85%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 15						
Outdoor Area Lighting						
Transmission & Related Services Charge	15,774	MWh	1.29 mills	\$20,348	1.52 mills	\$23,976
Distribution Charge (includes fixed and sys. usage charges)	15,774	MWh	167.46 mills	\$2,641,438	167.17 mills	\$2,636,964
Energy Charge	15,774	MWh	50.54 mills	\$797,218	48.98 mills	\$772,611
Schedule 122	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	15,774	MWh	0.22 mills	\$3,470	0.20 mills	\$3,155
Schedule 146	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	3,264	MWh	(8.34) mills	(\$27,222)	(8.50) mills	(\$27,744)
Schedule 105	15,774	MWh	(0.39) mills	(\$6,152)	0.10 mills	\$1,577
Schedule 109	15,774	MWh	8.23 mills	\$129,820	6.80 mills	\$107,263
Schedule 110	15,774	MWh	0.10 mills	\$1,577	0.10 mills	\$1,577
Schedule 123	15,774	MWh	(0.08) mills	(\$1,262)	0.21 mills	\$3,313
Schedule 126	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	15,774	MWh	0.11 mills	\$1,735	0.33 mills	\$5,205
Schedule 137	15,774	MWh	0.37 mills	\$5,836	0.37 mills	\$5,836
Schedule 143	15,774	MWh	(0.15) mills	(\$2,366)	(0.13) mills	(\$2,051)
Schedule 112	15,774	MWh	0.25 mills	\$3,944	0.25 mills	\$3,944
Totals	15,774	MWh		\$3,568,386		\$3,535,627
				Change		(\$32,759)
				Percent Change		-0.92%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 32						
Small Non-residential Service						
Monthly Basic Charge						
Single Phase	672,008	bills	\$17.00	\$11,424,136	\$20.00	\$13,440,160
Three Phase	453,173	bills	\$23.00	\$10,422,979	\$29.00	\$13,142,017
Transmission & Related Services Charge	1,633,156	MWh	1.76 mills	\$2,874,354	2.06 mills	\$3,364,301
Distribution Charge						
Block 1	1,427,418	MWh	41.80 mills	\$59,666,073	42.32 mills	\$60,408,330
Block 2	205,738	MWh	8.92 mills	\$1,835,180	14.87 mills	\$3,059,319
Energy Charge	1,633,156	MWh	60.00 mills	\$97,989,342	58.42 mills	\$95,408,956
TOU Decrement						
Schedule 122	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	1,633,156	MWh	0.25 mills	\$408,289	0.24 mills	\$391,957
Schedule 146	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	249,080	MWh	(8.34) mills	(\$2,077,324)	(8.50) mills	(\$2,117,177)
Schedule 105	1,633,156	MWh	(0.15) mills	(\$244,973)	0.12 mills	\$195,979
Schedule 109	1,631,432	MWh	4.54 mills	\$7,406,700	3.61 mills	\$5,889,469
Schedule 110	1,631,432	MWh	0.05 mills	\$81,572	0.05 mills	\$81,572
Schedule 123	1,631,432	MWh	(0.70) mills	(\$1,142,002)	(1.39) mills	(\$2,267,690)
Schedule 126	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	1,633,156	MWh	0.13 mills	\$212,310	0.40 mills	\$653,262
Schedule 137	1,633,156	MWh	0.44 mills	\$718,589	0.44 mills	\$718,589
Schedule 143	1,633,156	MWh	(0.17) mills	(\$277,636)	(0.15) mills	(\$244,973)
Schedule 112	1,633,156	MWh	0.21 mills	\$342,963	0.21 mills	\$342,963
Totals	1,633,156	MWh		\$189,640,551		\$192,408,421
				Change		\$2,767,871
				Percent Change		1.46%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 38						
Large Non-residential Service Time-of-Day						
Monthly Basic Charge						
Single Phase	660	bills	\$25.00	\$16,500	\$30.00	\$19,800
Three Phase	3,935	bills	\$25.00	\$98,375	\$30.00	\$118,050
Transmission & Related Services Charge	31,475	MWh	1.46 mills	\$45,953	1.71 mills	\$53,822
Distribution Charge	31,475	MWh	71.18 mills	\$2,240,362	70.41 mills	\$2,216,126
Reactive Power Charge	54,201	kVar	\$0.50	\$27,101	\$0.50	\$27,101
Energy Charge						
Block 1	17,091	MWh	59.92 mills	\$1,024,101	60.70 mills	\$1,037,433
Block 2	14,383	MWh	49.92 mills	\$718,022	45.70 mills	\$657,324
Schedule 122	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	31,475	MWh	0.23 mills	\$7,239	0.22 mills	\$6,924
Schedule 146	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	652	MWh	(8.34) mills	(\$5,434)	(8.50) mills	(\$5,538)
Schedule 105	31,475	MWh	(0.26) mills	(\$8,183)	0.11 mills	\$3,462
Schedule 109	31,387	MWh	5.19 mills	\$162,900	4.09 mills	\$128,374
Schedule 110	31,387	MWh	0.06 mills	\$1,883	0.06 mills	\$1,883
Schedule 123	31,387	MWh	(0.08) mills	(\$2,511)	0.21 mills	\$6,591
Schedule 126	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	31,475	MWh	0.12 mills	\$3,777	0.37 mills	\$11,646
Schedule 137	31,475	MWh	0.44 mills	\$13,849	0.44 mills	\$13,849
Schedule 143	31,475	MWh	(0.17) mills	(\$5,351)	(0.14) mills	(\$4,406)
Schedule 112	31,475	MWh	0.39 mills	\$12,275	0.39 mills	\$12,275
Totals	31,475	MWh		\$4,350,858		\$4,304,715
				Change		(\$46,143)
				Percent Change		-1.06%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 47						
Small Non-residential Irrigation & Pumping Service						
Monthly Basic Charge						
Single Phase	1,344	bills	\$35.00	\$47,040	\$37.00	\$49,728
Three Phase	17,022	bills	\$35.00	\$595,770	\$37.00	\$629,814
Transmission & Related Services Charge	21,633	MWh	1.82 mills	\$39,373	2.13 mills	\$46,079
Distribution Charge						
Block 1	7,536	MWh	108.78 mills	\$819,753	110.99 mills	\$836,407
Block 2	14,098	MWh	88.78 mills	\$1,251,582	90.99 mills	\$1,282,738
Reactive Power Charge	45	kVar	\$0.50	\$23	\$0.50	\$23
Energy Charge						
Block 1	7,536	MWh	70.07 mills	\$528,039	70.94 mills	\$534,595
Block 2	14,098	MWh	70.07 mills	\$987,816	70.94 mills	\$1,000,081
Schedule 122	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	21,633	MWh	0.29 mills	\$6,274	0.29 mills	\$6,274
Schedule 146	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	19,580	MWh	(8.34) mills	(\$163,301)	(8.50) mills	(\$166,434)
Schedule 105	21,633	MWh	(0.31) mills	(\$6,706)	0.14 mills	\$3,029
Schedule 109	21,633	MWh	7.85 mills	\$169,823	6.29 mills	\$136,074
Schedule 110	21,633	MWh	0.09 mills	\$1,947	0.09 mills	\$1,947
Schedule 123	21,633	MWh	(0.08) mills	(\$1,731)	0.21 mills	\$4,543
Schedule 126	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	21,633	MWh	0.15 mills	\$3,245	0.48 mills	\$10,384
Schedule 137	21,633	MWh	0.53 mills	\$11,466	0.53 mills	\$11,466
Schedule 143	21,633	MWh	(0.20) mills	(\$4,327)	(0.18) mills	(\$3,894)
Schedule 112	21,633	MWh	0.50 mills	\$10,817	0.50 mills	\$10,817
Totals	21,633	MWh		\$4,296,902		\$4,393,671
				Change		\$96,769
				Percent Change		2.25%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 49						
Large Non-residential Irrigation & Pumping Service						
Monthly Basic Charge						
Single Phase	36	bills	\$40.00	\$1,440	\$45.00	\$1,620
Three Phase	7,608	bills	\$40.00	\$304,320	\$45.00	\$342,360
Transmission & Related Services Charge	64,540	MWh	1.82 mills	\$117,463	2.12 mills	\$136,825
Distribution Charge						
Block 1	19,051	MWh	82.39 mills	\$1,569,644	80.99 mills	\$1,542,972
Block 2	45,489	MWh	62.39 mills	\$2,838,055	60.99 mills	\$2,774,370
Reactive Power Charge	8,709	kVar	\$0.50	\$4,355	\$0.50	\$4,355
Energy Charge						
Block 1	19,051	MWh	69.93 mills	\$1,332,264	70.68 mills	\$1,346,552
Block 2	45,489	MWh	69.93 mills	\$3,181,041	70.68 mills	\$3,215,158
Schedule 122	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	64,540	MWh	0.29 mills	\$18,717	0.29 mills	\$18,717
Schedule 146	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	54,354	MWh	(8.34) mills	(\$453,316)	(8.50) mills	(\$462,013)
Schedule 105	64,540	MWh	(0.26) mills	(\$16,780)	0.14 mills	\$9,036
Schedule 109	64,303	MWh	5.55 mills	\$356,880	4.50 mills	\$289,362
Schedule 110	64,303	MWh	0.06 mills	\$3,858	0.06 mills	\$3,858
Schedule 123	64,303	MWh	(0.08) mills	(\$5,144)	0.21 mills	\$13,504
Schedule 126	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	64,540	MWh	0.15 mills	\$9,681	0.48 mills	\$30,979
Schedule 137	64,540	MWh	0.51 mills	\$32,916	0.51 mills	\$32,916
Schedule 143	64,540	MWh	(0.20) mills	(\$12,908)	(0.18) mills	(\$11,617)
Schedule 112	64,540	MWh	0.15 mills	\$9,681	0.15 mills	\$9,681
Totals	64,540	MWh		\$9,292,165		\$9,298,634
				Change		\$6,469
				Percent Change		0.07%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 83 Secondary Delivery Voltage 31-200 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	8,194	bills	\$30.00	\$245,820	\$35.00	\$286,790
Three Phase	130,152	bills	\$40.00	\$5,206,080	\$45.00	\$5,856,840
Transmission & Related Services Charge						
On-peak	8,606,661	kW	\$0.65	\$5,594,330	\$0.78	\$6,713,196
Off-peak	3,366	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
Block 1 (first 30 kW)	4,150,380	faccap	\$3.61	\$14,982,872	\$3.50	\$14,526,330
Block 2 (over 30 kW)	6,980,663	faccap	\$3.51	\$24,502,127	\$3.40	\$23,734,254
Distribution Demand Charge						
On-peak	8,606,661	kW	\$2.68	\$23,065,851	\$2.61	\$22,463,385
Off-peak	3,366	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	2,884,961	MWh	6.02 mills	\$17,367,468	6.99 mills	\$20,165,880
Reactive Power Charge	538,563	kVar	\$0.50	\$269,282	\$0.50	\$269,282
Energy Charge						
On-peak	1,909,059	MWh	64.33	\$122,809,761	63.35 mills	\$120,938,883
Off-peak	975,902	MWh	49.33	\$48,141,270	48.35 mills	\$47,184,886
Schedule 122	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	2,884,961	MWh	0.25 mills	\$721,240	0.24 mills	\$692,391
Schedule 146	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	225,933	MWh	(8.34) mills	(\$1,884,280)	(8.50) mills	(\$1,920,430)
Schedule 105	2,884,961	MWh	(0.17) mills	(\$490,443)	0.12 mills	\$346,195
Schedule 109	2,834,638	MWh	3.71 mills	\$10,516,507	2.83 mills	\$8,022,025
Schedule 110	2,834,638	MWh	0.04 mills	\$113,386	0.04 mills	\$113,386
Schedule 123	2,834,638	MWh	(0.08) mills	(\$226,771)	0.21 mills	\$595,274
Schedule 126	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	2,884,961	MWh	0.13 mills	\$375,045	0.40 mills	\$1,153,985
Schedule 137	2,884,961	MWh	0.43 mills	\$1,240,533	0.43 mills	\$1,240,533
Schedule 143	2,884,961	MWh	(0.17) mills	(\$490,443)	(0.15) mills	(\$432,744)
Schedule 112	2,884,961	MWh	0.06 mills	\$173,098	0.06 mills	\$173,098
Totals	2,884,961	MWh		\$272,232,731		\$272,123,439
				Change		(\$109,292)
				Percent Change		-0.04%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 85 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	0	bills	\$500.00	\$0	\$560.00	\$0
Three Phase	13,993	bills	\$500.00	\$6,996,500	\$560.00	\$7,836,080
Transmission & Related Services Charge						
On-peak	5,711,975	kW	\$0.65	\$3,712,784	\$0.78	\$4,455,341
Off-peak	6,572	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	2,798,600	faccap	\$3.39	\$9,487,254	\$3.17	\$8,871,562
Block 2 (over 200 kW)	3,878,207	faccap	\$2.49	\$9,656,735	\$1.97	\$7,640,068
Distribution Demand Charge						
On-peak	5,711,975	kW	\$2.68	\$15,308,093	\$2.61	\$14,908,255
Off-peak	6,572	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	2,122,422	MWh	1.12 mills	\$2,377,113	0.97 mills	\$2,058,749
Reactive Power Charge	927,749	kVar	\$0.50	\$463,875	\$0.50	\$463,875
Energy Charge						
On-peak	1,390,849	MWh	62.69 mills	\$87,192,302	61.91 mills	\$86,107,440
Off-peak	731,573	MWh	47.69 mills	\$34,888,739	46.91 mills	\$34,318,112
Schedule 122	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	2,122,422	MWh	0.24 mills	\$509,381	0.23 mills	\$488,157
Schedule 146	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	33,179	MWh	(8.34) mills	(\$276,711)	(8.50) mills	(\$282,020)
Schedule 105	2,122,422	MWh	(0.15) mills	(\$318,363)	0.11 mills	\$233,466
Schedule 109	1,877,771	MWh	3.20 mills	\$6,008,867	2.42 mills	\$4,544,206
Schedule 110	1,877,771	MWh	0.04 mills	\$75,111	0.04 mills	\$75,111
Schedule 123	1,877,771	MWh	(0.08) mills	(\$150,222)	0.21 mills	\$394,332
Schedule 126	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	2,122,422	MWh	0.12 mills	\$254,691	0.38 mills	\$806,520
Schedule 137	2,122,422	MWh	0.42 mills	\$891,417	0.42 mills	\$891,417
Schedule 143	2,122,422	MWh	(0.17) mills	(\$360,812)	(0.15) mills	(\$318,363)
Schedule 112	2,122,422	MWh	0.04 mills	\$84,897	0.04 mills	\$84,897
Totals	2,122,422	MWh		\$176,801,651		\$173,577,205
				Change		(\$3,224,446)
				Percent Change		-1.82%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 85 Primary Delivery Voltage 201-4,000 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	0	bills	\$470.00	\$0	\$470.00	\$0
Three Phase	2,248	bills	\$470.00	\$1,056,560	\$470.00	\$1,056,560
Transmission & Related Services Charge						
On-peak	1,490,713	kW	\$0.63	\$939,149	\$0.76	\$1,132,942
Off-peak	4,859	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	449,600	faccap	\$3.14	\$1,411,744	\$3.10	\$1,393,760
Block 2 (over 200 kW)	1,503,786	faccap	\$2.24	\$3,368,481	\$1.90	\$2,857,193
Distribution Demand Charge						
On-peak	1,490,713	kW	\$2.60	\$3,875,854	\$2.53	\$3,771,504
Off-peak	4,859	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	591,424	MWh	1.08 mills	\$638,738	0.93 mills	\$550,025
Reactive Power Charge	255,584	kVar	\$0.50	\$127,792	\$0.50	\$127,792
Energy Charge						
On-peak	374,238	MWh	61.63 mills	\$23,064,300	60.86 mills	\$22,776,136
Off-peak	217,186	MWh	46.63 mills	\$10,127,391	45.86 mills	\$9,960,158
Schedule 122	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	591,424	MWh	0.24 mills	\$141,942	0.22 mills	\$130,113
Schedule 146	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	4,386	MWh	(8.34) mills	(\$36,577)	(8.50) mills	(\$37,278)
Schedule 105	591,424	MWh	(0.15) mills	(\$88,714)	0.11 mills	\$65,057
Schedule 109	301,591	MWh	3.20 mills	\$965,092	2.42 mills	\$729,851
Schedule 110	301,591	MWh	0.04 mills	\$12,064	0.04 mills	\$12,064
Schedule 123	301,591	MWh	(0.08) mills	(\$24,127)	0.21 mills	\$63,334
Schedule 126	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	591,424	MWh	0.12 mills	\$70,971	0.38 mills	\$224,741
Schedule 137	591,424	MWh	0.41 mills	\$242,484	0.41 mills	\$242,484
Schedule 143	591,424	MWh	(0.17) mills	(\$100,542)	(0.14) mills	(\$82,799)
Schedule 112	591,424	MWh	0.04 mills	\$23,657	0.04 mills	\$23,657
Totals	591,424	MWh		\$45,816,258		\$44,997,293
				Change		(\$818,965)
				Percent Change		-1.79%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 89 Secondary Delivery Voltage GT 4,000 kW						
Large Non-residential Standard Service						
Monthly Basic Charge	0	bills	\$3,160.00	\$0	\$3,340.00	\$0
Transmission & Related Services Charge						
On-peak	0	kW	\$0.65	\$0	\$0.78	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	0	faccap	\$1.59	\$0	\$1.53	\$0
1,001 to 4,000 kW	0	faccap	\$1.59	\$0	\$1.53	\$0
Over 4,000 kW	0	faccap	\$1.28	\$0	\$1.22	\$0
Distribution Demand Charge						
On-peak	0	kW	\$2.68	\$0	\$2.61	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	0	MWh	1.15 mills	\$0	1.02 mills	\$0
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge						
On-peak	0	MWh	60.01 mills	\$0	58.69 mills	\$0
Off-peak	0	MWh	45.01 mills	\$0	43.69 mills	\$0
Schedule 122	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	0	MWh	0.23 mills	\$0	0.21 mills	\$0
Schedule 146	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	(8.34) mills	\$0	(8.50) mills	\$0
Schedule 105	0	MWh	(0.13) mills	\$0	0.11 mills	\$0
Schedule 109	0	MWh	2.87 mills	\$0	1.46 mills	\$0
Schedule 110	0	MWh	0.04 mills	\$0	0.04 mills	\$0
Schedule 123	0	MWh	(0.08) mills	\$0	0.21 mills	\$0
Schedule 126	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	0	MWh	0.12 mills	\$0	0.36 mills	\$0
Schedule 137	0	MWh	0.40 mills	\$0	0.40 mills	\$0
Schedule 143	0	MWh	(0.17) mills	\$0	(0.14) mills	\$0
Schedule 112	0	MWh	0.01 mills	\$0	0.01 mills	\$0
Totals	0	MWh		\$0		\$0
				Change		\$0
				Percent Change		

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 89 Primary Delivery Voltage GT 4,000 kW						
Large Non-residential Standard Service						
Monthly Basic Charge	132	bills	\$1,770.00	\$233,640	\$1,890.00	\$249,480
Transmission & Related Services Charge						
On-peak	820,489	kW	\$0.63	\$516,908	\$0.76	\$623,572
Off-peak	5,091	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	120,000	faccap	\$1.55	\$186,000	\$1.49	\$178,800
1,001 to 4,000 kW	360,000	faccap	\$1.55	\$558,000	\$1.49	\$536,400
Over 4,000 kW	480,157	faccap	\$1.24	\$595,395	\$1.18	\$566,585
Distribution Demand Charge						
On-peak	820,489	kW	\$2.60	\$2,133,271	\$2.53	\$2,075,837
Off-peak	5,091	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	401,176	MWh	1.12 mills	\$449,317	0.99 mills	\$397,164
Reactive Power Charge	66,969	kVar	\$0.50	\$33,485	\$0.50	\$33,485
Energy Charge						
On-peak	238,945	MWh	59.03 mills	\$14,104,945	57.73 mills	\$13,794,316
Off-peak	162,231	MWh	44.03 mills	\$7,143,019	42.73 mills	\$6,932,119
Schedule 122	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	401,176	MWh	0.23 mills	\$92,271	0.21 mills	\$84,247
Schedule 146	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	(8.34) mills	\$0	(8.50) mills	\$0
Schedule 105	401,176	MWh	(0.13) mills	(\$52,153)	0.11 mills	\$44,129
Schedule 109	0	MWh	2.87 mills	\$0	1.46 mills	\$0
Schedule 110	0	MWh	0.04 mills	\$0	0.04 mills	\$0
Schedule 123	0	MWh	(0.08) mills	\$0	0.21 mills	\$0
Schedule 126	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	401,176	MWh	0.12 mills	\$48,141	0.35 mills	\$140,412
Schedule 137	401,176	MWh	0.39 mills	\$156,459	0.39 mills	\$156,459
Schedule 143	401,176	MWh	(0.16) mills	(\$64,188)	(0.13) mills	(\$52,153)
Schedule 112	401,176	MWh	0.01 mills	\$4,012	0.01 mills	\$4,012
Totals	401,176	MWh		\$26,138,522		\$25,764,864
				Change		(\$373,657)
				Percent Change		-1.43%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 90 Primary Delivery Voltage						
Large Non-residential Standard Service						
Monthly Basic Charge	48	bills	\$5,200.00	\$249,600	\$6,100.00	\$292,800
Transmission & Related Services Charge						
On-peak	2,701,624	kW	\$0.63	\$1,702,023	\$0.76	\$2,053,234
Off-peak	85	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	24,000	faccap	\$1.38	\$33,120	\$1.61	\$38,640
1,001 to 4,000 kW	72,000	faccap	\$1.38	\$99,360	\$1.61	\$115,920
Over 4,000 kW	2,730,257	faccap	\$1.07	\$2,921,375	\$1.30	\$3,549,334
Distribution Demand Charge						
On-peak	2,701,624	kW	\$2.60	\$7,024,222	\$2.53	\$6,835,109
Off-peak	85	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	1,861,066	MWh	0.69 mills	\$1,284,136	0.54 mills	\$1,004,976
Reactive Power Charge	21,436	kVar	\$0.50	\$10,718	\$0.50	\$10,718
Energy Charge						
On-peak	1,070,638	MWh	57.27 mills	\$61,315,416	55.77 mills	\$59,709,460
Off-peak	790,429	MWh	42.27 mills	\$33,411,423	40.77 mills	\$32,225,780
Schedule 122	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	1,861,066	MWh	0.22 mills	\$409,435	0.20 mills	\$372,213
Schedule 146	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	(8.34) mills	\$0	(8.50) mills	\$0
Schedule 105	1,861,066	MWh	(0.13) mills	(\$241,939)	0.10 mills	\$186,107
Schedule 109	0	MWh	2.87 mills	\$0	1.46 mills	\$0
Schedule 110	0	MWh	0.04 mills	\$0	0.04 mills	\$0
Schedule 123	0	MWh	(0.08) mills	\$0	0.21 mills	\$0
Schedule 126	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	1,861,066	MWh	0.11 mills	\$204,717	0.34 mills	\$632,763
Schedule 137	1,861,066	MWh	0.38 mills	\$707,205	0.38 mills	\$707,205
Schedule 143	1,861,066	MWh	(0.15) mills	(\$279,160)	(0.13) mills	(\$241,939)
Schedule 112	1,861,066	MWh	0.01 mills	\$18,611	0.01 mills	\$18,611
Totals	1,861,066	MWh		\$108,870,263		\$107,510,930
				Change		(\$1,359,332)
				Percent Change		-1.25%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 89 Subtransmission Delivery Voltage						
Large Non-residential Standard Service						
Monthly Basic Charge	60	bills	\$3,850.00	\$231,000	\$3,970.00	\$238,200
Transmission & Related Services Charge						
On-peak	272,521	kW	\$0.62	\$168,963	\$0.75	\$204,391
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	60,000	faccap	\$1.55	\$93,000	\$1.49	\$89,400
1,001 to 4,000 kW	180,000	faccap	\$1.55	\$279,000	\$1.49	\$268,200
Over 4,000 kW	115,908	faccap	\$1.24	\$143,726	\$1.18	\$136,771
Distribution Demand Charge						
On-peak	272,521	kW	\$1.26	\$343,376	\$1.27	\$346,102
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	62,759	MWh	1.09 mills	\$68,407	0.97 mills	\$60,876
Reactive Power Charge	32,382	kVar	\$0.50	\$16,191	\$0.50	\$16,191
Energy Charge						
On-peak	41,003	MWh	58.30 mills	\$2,390,492	57.02 mills	\$2,338,008
Off-peak	21,755	MWh	43.30 mills	\$942,013	42.02 mills	\$914,166
Schedule 122	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	62,759	MWh	0.23 mills	\$14,435	0.21 mills	\$13,179
Schedule 146	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 105	62,759	MWh	(0.13) mills	(\$8,159)	0.11 mills	\$6,903
Schedule 109	0	MWh	2.87 mills	\$0	1.46 mills	\$0
Schedule 110	0	MWh	0.04 mills	\$0	0.04 mills	\$0
Schedule 123	0	MWh	(0.08) mills	\$0	0.21 mills	\$0
Schedule 126	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	62,759	MWh	0.12 mills	\$7,531	0.35 mills	\$21,966
Schedule 137	62,759	MWh	0.39 mills	\$24,476	0.39 mills	\$24,476
Schedule 143	62,759	MWh	(0.16) mills	(\$10,041)	(0.13) mills	(\$8,159)
Schedule 112	62,759	MWh	0.01 mills	\$628	0.01 mills	\$628
Totals	62,759	MWh		\$4,705,037		\$4,671,298
				Change		(\$33,740)
				Percent Change		-0.72%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 75 Subtransmission Delivery Voltage Partial Requirements Service						
Monthly Basic Charge	0	bills	\$3,850.00	\$0	\$3,970.00	\$0
Transmission & Related Services Charge						
On-peak	0	kW	\$0.62	\$0	\$0.75	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	0	faccap	\$1.55	\$0	\$1.49	\$0
1,001 to 4,000 kW	0	faccap	\$1.55	\$0	\$1.49	\$0
Over 4,000 kW	0	faccap	\$1.24	\$0	\$1.18	\$0
Distribution Demand Charge						
On-peak	0	kW	\$1.26	\$0	\$1.27	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	0	MWh	1.09 mills	\$0	0.97 mills	\$0
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge (Schedule 75 only)						
On-peak	0	MWh	58.30 mills	\$0	57.02 mills	\$0
Off-peak	0	MWh	43.30 mills	\$0	42.02 mills	\$0
Schedule 122	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	0	MWh	0.23 mills	\$0	0.21 mills	\$0
Schedule 146	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 105	0	MWh	(0.13) mills	\$0	0.11 mills	\$0
Schedule 109	0	MWh	2.87 mills	\$0	1.46 mills	\$0
Schedule 110	0	MWh	0.04 mills	\$0	0.04 mills	\$0
Schedule 123	0	MWh	(0.08) mills	\$0	0.21 mills	\$0
Schedule 126	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	0	MWh	0.12 mills	\$0	0.35 mills	\$0
Schedule 137	0	MWh	0.39 mills	\$0	0.39 mills	\$0
Schedule 143	0	MWh	(0.16) mills	\$0	(0.13) mills	\$0
Schedule 112	0	MWh	0.01 mills	\$0	0.01 mills	\$0
Totals	0	MWh		\$0		\$0
				Change		\$0
				Percent Change		
Total Subtransmission	62,759	MWh		\$4,705,037		\$4,671,298
Total Subtransmission				Change		(\$33,740)
				Percent Change		-0.72%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 91/95						
Street & Highway Lighting						
Transmission & Related Services Charge	50,583	MWh	1.29 mills	\$65,252	1.52 mills	\$76,886
Distribution Charge (includes fixed and sys. usage charges)	50,583	MWh	165.38 mills	\$8,365,394	168.66 mills	\$8,531,124
Energy Charge	50,583	MWh	50.54 mills	\$2,556,465	48.98 mills	\$2,477,555
Schedule 122	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	50,583	MWh	0.22 mills	\$11,128	0.20 mills	\$10,117
Schedule 146	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 105	50,583	MWh	(0.46) mills	(\$23,268)	0.10 mills	\$5,058
Schedule 109	50,583	MWh	7.47 mills	\$377,855	6.86 mills	\$346,999
Schedule 110	50,583	MWh	0.10 mills	\$5,058	0.10 mills	\$5,058
Schedule 123	50,583	MWh	(0.08) mills	(\$4,047)	0.21 mills	\$10,622
Schedule 126	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	50,583	MWh	0.11 mills	\$5,564	0.33 mills	\$16,692
Schedule 137	50,583	MWh	0.37 mills	\$18,716	0.37 mills	\$18,716
Schedule 143	50,583	MWh	(0.15) mills	(\$7,587)	(0.13) mills	(\$6,576)
Schedule 112	50,583	MWh	0.25 mills	\$12,646	0.25 mills	\$12,646
Totals	50,583	MWh		\$11,383,176		\$11,504,899
				Change		\$121,723
				Percent Change		1.07%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 92						
Traffic Signals						
Transmission & Related Services Charge	2,496	MWh	1.36 mills	\$3,395	1.59 mills	\$3,969
Volumetric Distribution Charge	2,496	MWh	28.93 mills	\$72,209	29.25 mills	\$73,008
Energy Charge	2,496	MWh	52.02 mills	\$129,842	51.09 mills	\$127,521
Schedule 122	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	2,496	MWh	0.22 mills	\$549	0.21 mills	\$524
Schedule 146	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 105	2,496	MWh	(0.16) mills	(\$399)	0.10 mills	\$250
Schedule 109	2,496	MWh	3.22 mills	\$8,037	2.57 mills	\$6,415
Schedule 110	2,496	MWh	0.04 mills	\$100	0.04 mills	\$100
Schedule 123	2,496	MWh	(0.08) mills	(\$200)	0.21 mills	\$524
Schedule 126	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	2,496	MWh	0.11 mills	\$275	0.35 mills	\$874
Schedule 137	2,496	MWh	0.39 mills	\$973	0.39 mills	\$973
Schedule 143	2,496	MWh	(0.15) mills	(\$374)	(0.13) mills	(\$324)
Schedule 112	2,496	MWh	0.23 mills	\$574	0.23 mills	\$574
Totals	2,496	MWh		\$214,980		\$214,406
				Change		(\$574)
				Percent Change		-0.27%

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 76R Economic Replacement Power Partial Requirements Service						
Energy Charge (market based)						
On-peak						
Off-peak						
System Usage Charge	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Daily Transmission Charges						
Daily Distribution Charges						
Schedule 122	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 125	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 145	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 102	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 105	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 109	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 110	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 123	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 126	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 135	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 137	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 143	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 112	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	0	MWh		\$0		\$0
				Change		\$0

PORTLAND GENERAL ELECTRIC
Cost of Service Cycle Billing Determinants & Revenues (with supplementals)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>		
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>	
COS & Partial Requirements Revenue Category							
Basic Charge Revenues				\$140,483,241	\$0	\$146,913,780	\$0.0
Transmission & Related Charges				\$31,619,334	\$0	\$37,271,496	\$0.0
Volumetric Distribution Charges				\$407,595,747	(\$0)	\$436,042,123	\$0.0
Facilities Charges				\$68,318,189	\$0	\$64,503,218	(\$0.0)
Distribution Demand Charges				\$51,750,669	(\$0)	\$50,400,191	\$0.0
System Usage Charges				\$22,185,179		\$24,237,671	
Reactive Power Charges				\$952,819	\$0	\$952,819	\$0.0
Energy Charges				\$1,056,741,996	\$0	\$1,031,858,698	(\$0.0)
Schedule 122				\$0	\$0	\$0	\$0.0
Schedule 125				\$0	\$0	\$0	\$0.0
Schedule 145				\$4,387,977	\$0	\$4,185,887	\$0.0
Schedule 146				\$0	\$0	\$0	\$0.0
Schedule 102				(\$68,835,602)	(\$0)	(\$69,345,194)	(\$0.0)
Schedule 105				(\$2,717,260)	\$0	\$2,084,208	\$0.0
Schedule 109				\$63,417,246	\$0	\$50,248,642	\$0.0
Schedule 110				\$675,001	\$0	\$675,001	\$0.0
Schedule 123				(\$876,814)	\$0	\$13,962,183	(\$0.0)
Schedule 126				\$0	\$0	\$0	\$0.0
Schedule 135				\$2,257,332	\$0	\$7,039,753	(\$0.0)
Schedule 137				\$7,622,310	\$0	\$7,622,310	\$0.0
Schedule 143				(\$3,053,831)	\$0	(\$2,696,715)	\$0.0
Schedule 112				\$2,968,476	\$0	\$2,968,476	\$0.0
Employee Discount				(\$892,151)	\$0	(\$923,927)	\$0.0
COS & Partial Requirements Totals				\$1,784,599,856	\$0	\$1,808,000,620	(\$0.0)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 7						
Residential Service						
Monthly Basic Charge						
Single Phase	9,395,591	bills	\$11.00	\$103,351,501	\$11.00	\$103,351,501
Three Phase	180	bills	\$11.00	\$1,980	\$11.00	\$1,980
Transmission & Related Services Charge	7,568,918	MWh	2.09 mills	\$15,819,039	2.43 mills	\$18,392,471
TOU Decrement Transmission						(\$9,508)
Distribution Charge	7,568,918	MWh	43.11 mills	\$326,296,057	46.62 mills	\$352,862,959
TOU Decrement Distribution						(\$182,196)
Energy Charge						
Block 1 (first 500 kWh)	4,150,373	MWh	65.10 mills	\$270,189,253	63.29 mills	\$262,677,079
Block 2 (501-1,000 kWh)	2,140,123	MWh	65.10 mills	\$139,322,024	63.29 mills	\$135,448,401
Block 3 (over 1,000 kWh)	1,278,422	MWh	72.32 mills	\$92,455,495	70.51 mills	\$90,141,551
TOU Decrement Generation						(\$126,972)
Schedule 125	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	7,568,918	MWh	0.00 mills	\$0	0.00 mills	\$0
Employee Discount				(\$944,818)		(\$960,453)
Totals	7,568,918	MWh		\$946,490,531		\$961,596,814
				Change		\$15,106,283
				Percent Change		1.60%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>		
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>	
Schedule 15							
Outdoor Area Lighting							
Transmission & Related Services Charge	15,774	MWh	1.29 mills	\$20,348	1.52 mills	\$23,976	
Distribution Charge (includes fixed and sys. usage charges)	15,774	MWh	167.46 mills	\$2,641,438	167.17 mills	\$2,636,964	
Energy Charge	15,774	MWh	50.54 mills	\$797,218	48.98 mills	\$772,611	
Schedule 125	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0	
Schedule 122a	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0	
Schedule 146	15,774	MWh	0.00 mills	\$0	0.00 mills	\$0	
Totals	15,774	MWh		\$3,459,005		\$3,433,551	
				Change		(\$25,454)	
				Percent Change		-0.74%	

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 32						
Small Non-residential Service						
Monthly Basic Charge						
Single Phase	672,008	bills	\$17.00	\$11,424,136	\$20.00	\$13,440,160
Three Phase	453,173	bills	\$23.00	\$10,422,979	\$29.00	\$13,142,017
Transmission & Related Services Charge	1,633,156	MWh	1.76 mills	\$2,874,354	2.06 mills	\$3,364,301
Distribution Charge						
Block 1	1,427,418	MWh	41.80 mills	\$59,666,073	42.32 mills	\$60,408,330
Block 2	205,738	MWh	8.92 mills	\$1,835,180	14.87 mills	\$3,059,319
Energy Charge	1,633,156	MWh	60.00 mills	\$97,989,342	58.42 mills	\$95,408,956
TOU Decrement						(\$58,612)
Schedule 125	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	1,633,156	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	1,633,156	MWh		\$184,212,064		\$188,764,472
				Change		\$4,552,407
				Percent Change		2.47%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 38						
Large Non-residential Service Time-of-Day						
Monthly Basic Charge						
Single Phase	660	bills	\$25.00	\$16,500	\$30.00	\$19,800
Three Phase	3,935	bills	\$25.00	\$98,375	\$30.00	\$118,050
Transmission & Related Services Charge	31,475	MWh	1.46 mills	\$45,953	1.71 mills	\$53,822
Distribution Charge	31,475	MWh	71.18 mills	\$2,240,362	70.41 mills	\$2,216,126
Reactive Power Charge	54,201	kVar	\$0.50	\$27,101	\$0.50	\$27,101
Energy Charge						
Block 1	17,091	MWh	59.92 mills	\$1,024,101	60.70 mills	\$1,037,433
Block 2	14,383	MWh	49.92 mills	\$718,022	45.70 mills	\$657,324
Schedule 125	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	31,475	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	31,475	MWh		\$4,170,414		\$4,129,655
				Change		(\$40,759)
				Percent Change		-0.98%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 47						
Small Non-residential Irrigation & Pumping Service						
Monthly Basic Charge						
Single Phase	1,344	bills	\$35.00	\$47,040	\$37.00	\$49,728
Three Phase	17,022	bills	\$35.00	\$595,770	\$37.00	\$629,814
Transmission & Related Services Charge	21,633	MWh	1.82 mills	\$39,373	2.13 mills	\$46,079
Distribution Charge						
Block 1	7,536	MWh	108.78 mills	\$819,753	110.99 mills	\$836,407
Block 2	14,098	MWh	88.78 mills	\$1,251,582	90.99 mills	\$1,282,738
Reactive Power Charge	45	kVar	\$0.50	\$23	\$0.50	\$23
Energy Charge						
Block 1	7,536	MWh	70.07 mills	\$528,039	70.94 mills	\$534,595
Block 2	14,098	MWh	70.07 mills	\$987,816	70.94 mills	\$1,000,081
Schedule 125	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	21,633	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	21,633	MWh		\$4,269,396		\$4,379,465
				Change		\$110,069
				Percent Change		2.58%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 49						
Large Non-residential Irrigation & Pumping Service						
Monthly Basic Charge						
Single Phase	36	bills	\$40.00	\$1,440	\$45.00	\$1,620
Three Phase	7,608	bills	\$40.00	\$304,320	\$45.00	\$342,360
Transmission & Related Services Charge	64,540	MWh	1.82 mills	\$117,463	2.12 mills	\$136,825
Distribution Charge						
Block 1	19,051	MWh	82.39 mills	\$1,569,644	80.99 mills	\$1,542,972
Block 2	45,489	MWh	62.39 mills	\$2,838,055	60.99 mills	\$2,774,370
Reactive Power Charge	8,709	kVar	\$0.50	\$4,355	\$0.50	\$4,355
Energy Charge						
Block 1	19,051	MWh	69.93 mills	\$1,332,264	70.68 mills	\$1,346,552
Block 2	45,489	MWh	69.93 mills	\$3,181,041	70.68 mills	\$3,215,158
Schedule 125	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	64,540	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	64,540	MWh		\$9,348,582		\$9,364,212
				Change		\$15,631
				Percent Change		0.17%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 83 Secondary Delivery Voltage 31-200 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	8,194	bills	\$30.00	\$245,820	\$35.00	\$286,790
Three Phase	130,152	bills	\$40.00	\$5,206,080	\$45.00	\$5,856,840
Transmission & Related Services Charge						
On-peak	8,606,661	kW	\$0.65	\$5,594,330	\$0.78	\$6,713,196
Off-peak	3,366	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
Block 1 (first 30 kW)	4,150,380	faccap	\$3.61	\$14,982,872	\$3.50	\$14,526,330
Block 2 (over 30 kW)	6,980,663	faccap	\$3.51	\$24,502,127	\$3.40	\$23,734,254
Distribution Demand Charge						
On-peak	8,606,661	kW	\$2.68	\$23,065,851	\$2.61	\$22,463,385
Off-peak	3,366	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	2,884,961	MWh	6.02 mills	\$17,367,468	6.99 mills	\$20,165,880
Reactive Power Charge	538,563	kVar	\$0.50	\$269,282	\$0.50	\$269,282
Energy Charge						
On-peak	1,909,059	MWh	64.33 mills	\$122,809,761	63.35 mills	\$120,938,883
Off-peak	975,902	MWh	49.33 mills	\$48,141,270	48.35 mills	\$47,184,886
Schedule 125	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	2,884,961	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	2,884,961	MWh		\$262,184,861		\$262,139,726
				Change		(\$45,135)
				Percent Change		-0.02%

**PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)**

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 85 Secondary Delivery Voltage 201-4,000 kW Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	0	bills	\$500.00	\$0	\$560.00	\$0
Three Phase	13,993	bills	\$500.00	\$6,996,500	\$560.00	\$7,836,080
Transmission & Related Services Charge						
On-peak	5,711,975	kW	\$0.65	\$3,712,784	\$0.78	\$4,455,341
Off-peak	6,572	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	2,798,600	faccap	\$3.39	\$9,487,254	\$3.17	\$8,871,562
Block 2 (over 200 kW)	3,878,207	faccap	\$2.49	\$9,656,735	\$1.97	\$7,640,068
Distribution Demand Charge						
On-peak	5,711,975	kW	\$2.68	\$15,308,093	\$2.61	\$14,908,255
Off-peak	6,572	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	2,122,422	MWh	1.12 mills	\$2,377,113	0.97 mills	\$2,058,749
Reactive Power Charge	927,749	kVar	\$0.50	\$463,875	\$0.50	\$463,875
Energy Charge						
On-peak	1,390,849	MWh	62.69 mills	\$87,192,302	61.91 mills	\$86,107,440
Off-peak	731,573	MWh	47.69 mills	\$34,888,739	46.91 mills	\$34,318,112
Schedule 125	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	2,122,422	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	2,122,422	MWh		\$170,083,395		\$166,659,481
				Change		(\$3,423,914)
				Percent Change		-2.01%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 85 Primary Delivery Voltage 201-4,000 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	0	bills	\$470.00	\$0	\$470.00	\$0
Three Phase	2,248	bills	\$470.00	\$1,056,560	\$470.00	\$1,056,560
Transmission & Related Services Charge						
On-peak	1,490,713	kW	\$0.63	\$939,149	\$0.76	\$1,132,942
Off-peak	4,859	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	449,600	faccap	\$3.14	\$1,411,744	\$3.10	\$1,393,760
Block 2 (over 200 kW)	1,503,786	faccap	\$2.24	\$3,368,481	\$1.90	\$2,857,193
Distribution Demand Charge						
On-peak	1,490,713	kW	\$2.60	\$3,875,854	\$2.53	\$3,771,504
Off-peak	4,859	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	591,424	MWh	1.08 mills	\$638,738	0.93 mills	\$550,025
Reactive Power Charge	255,584	kVar	\$0.50	\$127,792	\$0.50	\$127,792
Energy Charge						
On-peak	374,238	MWh	61.63 mills	\$23,064,300	60.86 mills	\$22,776,136
Off-peak	217,186	MWh	46.63 mills	\$10,127,391	45.86 mills	\$9,960,158
Schedule 125	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	591,424	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	591,424	MWh		\$44,610,009		\$43,626,070
				Change		(\$983,939)
				Percent Change		-2.21%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 89 Secondary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service						
Monthly Basic Charge	0	bills	\$3,160.00	\$0	\$3,340.00	\$0
Transmission & Related Services Charge						
On-peak	0	kW	\$0.65	\$0	\$0.78	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	0	faccap	\$1.59	\$0	\$1.53	\$0
1,001 to 4,000 kW	0	faccap	\$1.59	\$0	\$1.53	\$0
Over 4,000 kW	0	faccap	\$1.28	\$0	\$1.22	\$0
Distribution Demand Charge						
On-peak	0	kW	\$2.68	\$0	\$2.61	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	0	MWh	1.15 mills	\$0	1.02 mills	\$0
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge						
On-peak	0	MWh	60.01 mills	\$0	58.69 mills	\$0
Off-peak	0	MWh	45.01 mills	\$0	43.69 mills	\$0
Schedule 125	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	0	MWh		\$0		\$0
				Change		\$0
				Percent Change		

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 89 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service						
Monthly Basic Charge	132	bills	\$1,770.00	\$233,640	\$1,890.00	\$249,480
Transmission & Related Services Charge						
On-peak	820,489	kW	\$0.63	\$516,908	\$0.76	\$623,572
Off-peak	5,091	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	120,000	faccap	\$1.55	\$186,000	\$1.49	\$178,800
1,001 to 4,000 kW	360,000	faccap	\$1.55	\$558,000	\$1.49	\$536,400
Over 4,000 kW	480,157	faccap	\$1.24	\$595,395	\$1.18	\$566,585
Distribution Demand Charge						
On-peak	820,489	kW	\$2.60	\$2,133,271	\$2.53	\$2,075,837
Off-peak	5,091	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	401,176	MWh	1.12 mills	\$449,317	0.99 mills	\$397,164
Reactive Power Charge	66,969	kVar	\$0.50	\$33,485	\$0.50	\$33,485
Energy Charge						
On-peak	238,945	MWh	59.03 mills	\$14,104,945	57.73 mills	\$13,794,316
Off-peak	162,231	MWh	44.03 mills	\$7,143,019	42.73 mills	\$6,932,119
Schedule 125	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	401,176	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	401,176	MWh		\$25,953,980		\$25,387,759
				Change		(\$566,222)
				Percent Change		-2.18%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 90 Primary Delivery Voltage Large Non-residential Standard Service						
Monthly Basic Charge	48	bills	\$5,200.00	\$249,600	\$6,100.00	\$292,800
Transmission & Related Services Charge						
On-peak	2,701,624	kW	\$0.63	\$1,702,023	\$0.76	\$2,053,234
Off-peak	85	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	24,000	faccap	\$1.38	\$33,120	\$1.61	\$38,640
1,001 to 4,000 kW	72,000	faccap	\$1.38	\$99,360	\$1.61	\$115,920
Over 4,000 kW	2,730,257	faccap	\$1.07	\$2,921,375	\$1.30	\$3,549,334
Distribution Demand Charge						
On-peak	2,701,624	kW	\$2.60	\$7,024,222	\$2.53	\$6,835,109
Off-peak	85	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	1,861,066	MWh	0.69 mills	\$1,284,136	0.54 mills	\$1,004,976
Reactive Power Charge	21,436	kVar	\$0.50	\$10,718	\$0.50	\$10,718
Energy Charge						
On-peak	1,070,638	MWh	57.27 mills	\$61,315,416	55.77 mills	\$59,709,460
Off-peak	790,429	MWh	42.27 mills	\$33,411,423	40.77 mills	\$32,225,780
Schedule 125	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	1,861,066	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	1,861,066	MWh		\$108,051,394		\$105,835,971
				Change		(\$2,215,423)
				Percent Change		-2.05%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 89 Subtransmission Delivery Voltage Large Non-residential Standard Service						
Monthly Basic Charge	60	bills	\$3,850.00	\$231,000	\$3,970.00	\$238,200
Transmission & Related Services Charge						
On-peak	272,521	kW	\$0.62	\$168,963	\$0.75	\$204,391
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	60,000	faccap	\$1.55	\$93,000	\$1.49	\$89,400
1,001 to 4,000 kW	180,000	faccap	\$1.55	\$279,000	\$1.49	\$268,200
Over 4,000 kW	115,908	faccap	\$1.24	\$143,726	\$1.18	\$136,771
Distribution Demand Charge						
On-peak	272,521	kW	\$1.26	\$343,376	\$1.27	\$346,102
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	62,759	MWh	1.09 mills	\$68,407	0.97 mills	\$60,876
Reactive Power Charge	32,382	kVar	\$0.50	\$16,191	\$0.50	\$16,191
Energy Charge						
On-peak	41,003	MWh	58.30 mills	\$2,390,492	57.02 mills	\$2,338,008
Off-peak	21,755	MWh	43.30 mills	\$942,013	42.02 mills	\$914,166
Schedule 125	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	62,759	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	62,759	MWh		\$4,676,168		\$4,612,304
				Change		(\$63,864)
				Percent Change		-1.37%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 75 Subtransmission Delivery Voltage Partial Requirements Service						
Monthly Basic Charge	0	bills	\$3,850.00	\$0	\$3,970.00	\$0
Transmission & Related Services Charge						
On-peak	0	kW	\$0.62	\$0	\$0.75	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
Distribution Facilities Charge						
First 1,000 kW	0	faccap	\$1.55	\$0	\$1.49	\$0
1,001 to 4,000 kW	0	faccap	\$1.55	\$0	\$1.49	\$0
Over 4,000 kW	0	faccap	\$1.24	\$0	\$1.18	\$0
Distribution Demand Charge						
On-peak	0	kW	\$1.26	\$0	\$1.27	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	0	MWh	1.09 mills	\$0	0.97 mills	\$0
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge (Schedule 75 only)						
On-peak	0	MWh	58.30 mills	\$0	57.02 mills	\$0
Off-peak	0	MWh	43.30 mills	\$0	42.02 mills	\$0
Schedule 125	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	0	MWh		\$0		\$0
				Change		\$0
				Percent Change		
Total Subtransmission	62,759	MWh		\$4,676,168		\$4,612,304
Total Subtransmission				Change		(\$63,864)
				Percent Change		-1.37%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 91/95						
Street & Highway Lighting						
Transmission & Related Services Charge	50,583	MWh	1.29 mills	\$65,252	1.52 mills	\$76,886
Distribution Charge (includes fixed and sys. usage charges)	50,583	MWh	165.38 mills	\$8,365,394	168.66 mills	\$8,531,124
Energy Charge	50,583	MWh	50.54 mills	\$2,556,465	48.98 mills	\$2,477,555
Schedule 125	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	50,583	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	50,583	MWh		\$10,987,111		\$11,085,566
				Change		\$98,455
				Percent Change		0.90%
Schedule 92						
Traffic Signals						
Transmission & Related Services Charge	2,496	MWh	1.36 mills	\$3,395	1.59 mills	\$3,969
Volumetric Distribution Charge	2,496	MWh	28.93 mills	\$72,209	29.25 mills	\$73,008
Energy Charge	2,496	MWh	52.02 mills	\$129,842	51.09 mills	\$127,521
Schedule 125	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 122a	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Schedule 146	2,496	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	2,496	MWh		\$205,446		\$204,497
				Change		(\$948)
				Percent Change		-0.46%
System COS Totals	17,312,384	MWh		\$1,778,702,355		\$1,791,219,543
				System COS Change		\$12,517,188
				System COS Percent Change		0.70%

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 76R Economic Replacement Power Partial Requirements Service						
Energy Charge (not applicable)						
	On-peak					
	Off-peak					
System Usage Charge	0	MWh	0.00 mills	\$0	0.00 mills	\$0
Daily Transmission Charges						
Daily Distribution Charges						
Totals	0	MWh		\$0		\$0
				Change		\$0

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2003 Secondary Delivery Voltage 201-4,000 kW Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$500.00	\$0	\$560.00	\$0
Three Phase	24	bills	\$500.00	\$12,000	\$560.00	\$13,440
Transmission & Related Services Charge						
On-peak	22,540	kW		\$0		\$0
Off-peak	172	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	4,800	faccap	\$3.39	\$16,272	\$3.17	\$15,216
Block 2 (over 200 kW)	21,708	faccap	\$2.49	\$54,053	\$1.97	\$42,765
Distribution Demand Charge						
On-peak	22,540	kW	\$2.68	\$60,407	\$2.61	\$58,829
Off-peak	172	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	11,734	MWh	(0.15) mills	(\$1,760)	(0.28) mills	(\$3,286)
Reactive Power Charge	5,614	kVar	\$0.50	\$2,807	\$0.50	\$2,807
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	11,734	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	11,734	MWh		\$143,779		\$129,772
				Change		(\$14,007)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 485 V2010 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	96	bills	\$500.00	\$48,000	\$560.00	\$53,760
Transmission & Related Services Charge						
On-peak	59,970	kW		\$0		\$0
Off-peak	269	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	19,200	faccap	\$3.39	\$65,088	\$3.17	\$60,864
Block 2 (over 200 kW)	58,871	faccap	\$2.49	\$146,589	\$1.97	\$115,976
Distribution Demand Charge						
On-peak	59,970	kW	\$2.68	\$160,720	\$2.61	\$156,522
Off-peak	269	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	32,240	MWh	(0.15) mills	(\$4,836)	(0.28) mills	(\$9,027)
Reactive Power Charge	5,957	kVar	\$0.50	\$2,979	\$0.50	\$2,979
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	32,240	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	32,240	MWh		\$418,539		\$381,073
				Change		(\$37,466)

**PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)**

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 485 V2011 Secondary Delivery Voltage 201-4,000 kW Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	96	bills	\$500.00	\$48,000	\$560.00	\$53,760
Transmission & Related Services Charge						
On-peak	70,528	kW		\$0		\$0
Off-peak	195	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	19,200	faccap	\$3.39	\$65,088	\$3.17	\$60,864
Block 2 (over 200 kW)	71,825	faccap	\$2.49	\$178,844	\$1.97	\$141,495
Distribution Demand Charge						
On-peak	70,528	kW	\$2.68	\$189,015	\$2.61	\$184,078
Off-peak	195	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	34,163	MWh	(0.15) mills	(\$5,124)	(0.28) mills	(\$9,566)
Reactive Power Charge	4,311	kVar	\$0.50	\$2,156	\$0.50	\$2,156
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	34,163	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	34,163	MWh		\$477,978		\$432,787
				Change		(\$45,191)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 485 V2012 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	1,188	bills	\$500.00	\$594,000	\$560.00	\$665,280
Transmission & Related Services Charge						
On-peak	417,254	kW		\$0		\$0
Off-peak	3,457	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	237,600	faccap	\$3.39	\$805,464	\$3.17	\$753,192
Block 2 (over 200 kW)	299,709	faccap	\$2.49	\$746,275	\$1.97	\$590,427
Distribution Demand Charge						
On-peak	417,254	kW	\$2.68	\$1,118,241	\$2.61	\$1,089,033
Off-peak	3,457	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	192,487	MWh	(0.15) mills	(\$28,873)	(0.28) mills	(\$53,896)
Reactive Power Charge	25,204	kVar	\$0.50	\$12,602	\$0.50	\$12,602
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	192,487	MWh	0.00	\$0	0.00	\$0
Totals	192,487	MWh		\$3,247,709		\$3,056,637
				Change		(\$191,072)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 485 V2013 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	384	bills	\$500.00	\$192,000	\$560.00	\$215,040
Transmission & Related Services Charge						
On-peak	205,520	kW		\$0		\$0
Off-peak	521	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	76,800	faccap	\$3.39	\$260,352	\$3.17	\$243,456
Block 2 (over 200 kW)	187,580	faccap	\$2.49	\$467,074	\$1.97	\$369,533
Distribution Demand Charge						
On-peak	205,520	kW	\$2.68	\$550,794	\$2.61	\$536,407
Off-peak	521	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	107,529	MWh	(0.15) mills	(\$16,129)	(0.28) mills	(\$30,108)
Reactive Power Charge	10,503	kVar	\$0.50	\$5,252	\$0.50	\$5,252
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	107,529	MWh	0.00	\$0	0.00	\$0
Totals	107,529	MWh		\$1,459,342		\$1,339,579
				Change		(\$119,763)

**PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)**

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2014 Secondary Delivery Voltage 201-4,000 kW Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	36	bills	\$500.00	\$18,000	\$560.00	\$20,160
Transmission & Related Services Charge						
On-peak	22,476	kW		\$0		\$0
Off-peak	306	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	7,200	faccap	\$3.39	\$24,408	\$3.17	\$22,824
Block 2 (over 200 kW)	20,821	faccap	\$2.49	\$51,844	\$1.97	\$41,017
Distribution Demand Charge						
On-peak	22,476	kW	\$2.68	\$60,236	\$2.61	\$58,662
Off-peak	306	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	10,866	MWh	(0.15) mills	(\$1,630)	(0.28) mills	(\$3,043)
Reactive Power Charge	3,675	kVar	\$0.50	\$1,838	\$0.50	\$1,838
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	10,866	MWh	11.54	\$125,395	0.00	\$0
Totals	10,866	MWh		\$280,091		\$141,459
				Change		(\$138,632)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 485 V2015 Secondary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge						
Single Phase		bills	\$500.00	\$0	\$560.00	\$0
Three Phase	12	bills	\$500.00	\$6,000	\$560.00	\$6,720
Transmission & Related Services Charge						
On-peak	10,533	kW		\$0		\$0
Off-peak	6	kW		\$0		\$0
Distribution Facilities Charge						
First 200 kW	2,400	faccap	\$3.39	\$8,136	\$3.17	\$7,608
Over 200 kW	8,988	faccap	\$2.49	\$22,380	\$1.97	\$17,706
Distribution Demand Charge						
On-peak	10,533	kW	\$2.68	\$28,228	\$2.61	\$27,491
Off-peak	6	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	4,779	MWh	(0.15) mills	(\$717) mills	(0.28)	(\$1,338)
Reactive Power Charge	2,678	kVar	\$0.50	\$1,339	\$0.50	\$1,339
Energy Charge (not applicable)				mills		mills
Schedule 129	4,779	MWh	23.47	\$112,160	21.72	\$103,797
Totals	4,779	MWh		\$177,527		\$163,323
				Change		(\$14,203)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2016 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	84	bills	\$500.00	\$42,000	\$560.00	\$47,040
Transmission & Related Services Charge						
On-peak	22,340	kW		\$0		\$0
Off-peak	41	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	16,800	faccap	\$3.39	\$56,952	\$3.17	\$53,256
Block 2 (over 200 kW)	8,771	faccap	\$2.49	\$21,840	\$1.97	\$17,279
Distribution Demand Charge						
On-peak	22,340	kW	\$2.68	\$59,871	\$2.61	\$58,307
Off-peak	41	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	12,453	MWh	(0.15) mills	(\$1,868)	(0.28) mills	(\$3,487)
Reactive Power Charge	649	kVar	\$0.50	\$325	\$0.50	\$325
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	12,453	MWh	30.41	\$378,683	28.66	\$356,891
Totals	12,453	MWh		\$557,802		\$529,611
				Change		(\$28,192)

Schedule 485 V2017 Secondary Delivery Voltage 201-4,000 kW
Large Non-residential Optional Service (Direct Access)

Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	456	bills	\$500.00	\$228,000	\$560.00	\$255,360
Transmission & Related Services Charge						
On-peak		kW		\$0		\$0
Off-peak		kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	91,200	faccap	\$3.39	\$309,168	\$3.17	\$289,104
Block 2 (over 200 kW)	157,390	faccap	\$2.49	\$391,901	\$1.97	\$310,058
Distribution Demand Charge						
On-peak	192,582	kW	\$2.68	\$516,120	\$2.61	\$502,639

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Off-peak	1,314	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	104,545	MWh	(0.15) mills	(\$15,682)	(0.28) mills	(\$29,273)
Reactive Power Charge	5,548	kVar	\$0.50	\$2,774	\$0.50	\$2,774
Energy Charge (not applicable)		MWh		mills \$0		mills \$0
Schedule 129	104,545	MWh	31.13	\$3,254,487	28.46	\$2,975,351
Totals		MWh		\$4,686,768		\$4,306,014
				Change		(\$380,754)
Schedule 485 V2018 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	312	bills	\$500.00	\$156,000	\$560.00	\$174,720
Transmission & Related Services Charge						
On-peak		kW		\$0		\$0
Off-peak		kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	62,400	faccap	\$3.39	\$211,536	\$3.17	\$197,808
Block 2 (over 200 kW)	108,648	faccap	\$2.49	\$270,534	\$1.97	\$214,037
Distribution Demand Charge						
On-peak	81,203	kW	\$2.68	\$217,624	\$2.61	\$211,940
Off-peak	52,953	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	63,692	MWh	(0.15) mills	(\$9,554)	(0.28) mills	(\$17,834)
Reactive Power Charge	12,120	kVar	\$0.50	\$6,060	\$0.50	\$6,060
Energy Charge (not applicable)		MWh		mills \$0		mills \$0
Schedule 129	63,692	MWh	33.39	\$2,126,674	30.72	\$1,956,616
Totals	63,692	MWh		\$2,978,873		\$2,743,347
				Change		(\$235,527)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2019 Secondary Delivery Voltage 201-4,000 kW						
Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0	\$560.00	\$0
Three Phase	108	bills	\$500.00	\$54,000	\$560.00	\$60,480
Transmission & Related Services Charge						
On-peak		kW		\$0		\$0
Off-peak		kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	21,600	faccap	\$3.39	\$73,224	\$3.17	\$68,472
Block 2 (over 200 kW)	28,443	faccap	\$2.49	\$70,823	\$1.97	\$56,033
Distribution Demand Charge						
On-peak	39,250	kW	\$2.68	\$105,190	\$2.61	\$102,443
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	20,614	MWh	(0.15) mills	(\$3,092)	(0.28) mills	(\$5,772)
Reactive Power Charge	714	kVar	\$0.50	\$357	\$0.50	\$357
Energy Charge (not applicable)		MWh		\$0		\$0
Schedule 129	20,614	MWh	29.72	\$612,651	29.72	\$612,651
Totals	20,614	MWh		\$913,153		\$894,663
				Change		(\$18,490)
Schedule 489 V2014 Secondary Delivery Voltage GT 4,000 kW						
Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$3,160.00	\$37,920	\$3,340.00	\$40,080
Transmission & Related Services Charge						
On-peak	42,817	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.59	\$19,080	\$1.53	\$18,360
1,001 to 4,000 kW	36,000	faccap	\$1.59	\$57,240	\$1.53	\$55,080
Over 4,000 kW	41,172	faccap	\$1.28	\$52,700	\$1.22	\$50,230
Distribution Demand Charge						
On-peak	42,817	kW	\$2.68	\$114,750	\$2.61	\$111,752

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	13,482	MWh	(0.05) mills	(\$674)	(0.14) mills	(\$1,887)
Reactive Power Charge	9,541	kVar	\$0.50	\$4,771	\$0.50	\$4,771
Energy Charge (not applicable)				mills		mills
Schedule 129	13,482	MWh	4.83 mills	\$65,118	0.00 mills	\$0
Totals	13,482			\$350,904		\$278,385
				Change		(\$72,519)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Schedule 485 V2010 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$470.00	\$5,640	\$470.00	\$5,640
Transmission & Related Services Charge						
On-peak	44,256	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	2,400	faccap	\$3.14	\$7,536	\$3.10	\$7,440
Block 2 (over 200 kW)	45,768	faccap	\$2.24	\$102,520	\$1.90	\$86,959
Distribution Demand Charge						
On-peak	44,256	kW	\$2.60	\$115,066	\$2.53	\$111,968
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	24,415	MWh	(0.16) mills	(\$3,906)	(0.29) mills	(\$7,080)
Reactive Power Charge	11,460	kVar	\$0.50	\$5,730	\$0.50	\$5,730
Energy Charge (not applicable)				mills		mills
Schedule 129	24,415	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	24,415			\$232,585		\$210,656
				Change		(\$21,929)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2012 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	60	bills	\$470.00	\$28,200	\$470.00	\$28,200
Transmission & Related Services Charge						
On-peak	76,469	kW		\$0		\$0
Off-peak	45	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	12,000	faccap	\$3.14	\$37,680	\$3.10	\$37,200
Block 2 (over 200 kW)	64,514	faccap	\$2.24	\$144,511	\$1.90	\$122,577
Distribution Demand Charge						
On-peak	76,469	kW	\$2.60	\$198,819	\$2.53	\$193,467
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	35,086	MWh	(0.16) mills	(\$5,614)	(0.29) mills	(\$10,175)
Reactive Power Charge	1,848	kVar	\$0.50	\$924	\$0.50	\$924
Energy Charge (not applicable)				mills		mills
Schedule 129	35,086	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	35,086			\$404,521		\$372,192
				Change		(\$32,329)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2013 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	336	bills	\$470.00	\$157,920	\$470.00	\$157,920
Transmission & Related Services Charge						
On-peak	269,885	kW		\$0		\$0
Off-peak	626	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	67,200	faccap	\$3.14	\$211,008	\$3.10	\$208,320
Block 2 (over 200 kW)	203,310	faccap	\$2.24	\$455,414	\$1.90	\$386,289
Distribution Demand Charge						
On-peak	269,885	kW	\$2.60	\$701,701	\$2.53	\$682,809
Off-peak	626	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	128,740	MWh	(0.16) mills	(\$20,598)	(0.29) mills	(\$37,335)
Reactive Power Charge	36,474	kVar	\$0.50	\$18,237	\$0.50	\$18,237
Energy Charge (not applicable)				mills		mills
Schedule 129	128,740	MWh	0.00	\$0	0.00	\$0
Totals				\$1,523,682		\$1,416,240
				Change		(\$107,442)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2014 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	24	bills	\$470.00	\$11,280	\$470.00	\$11,280
Transmission & Related Services Charge						
On-peak	15,663	kW		\$0		\$0
Off-peak	33	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	4,800	faccap	\$3.14	\$15,072	\$3.10	\$14,880
Block 2 (over 200 kW)	10,896	faccap	\$2.24	\$24,407	\$1.90	\$20,702
Distribution Demand Charge						
On-peak	15,663	kW	\$2.60	\$40,724	\$2.53	\$39,627
Off-peak	33	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	8,879	MWh	(0.16) mills	(\$1,421)	(0.29) mills	(\$2,575)
Reactive Power Charge	2,931	kVar	\$0.50	\$1,466	\$0.50	\$1,466
Energy Charge (not applicable)				mills		mills
Schedule 129	8,879	MWh	11.47	\$101,838	0.00	\$0
Totals				\$193,366		\$85,380
				Change		(\$107,986)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2015 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	24	bills	\$470.00	\$11,280	\$470.00	\$11,280
Transmission & Related Services Charge						
On-peak	73,223	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	4,800	faccap	\$3.14	\$15,072	\$3.10	\$14,880
Block 2 (over 200 kW)	73,513	faccap	\$2.24	\$164,669	\$1.90	\$139,675
Distribution Demand Charge						
On-peak	73,223	kW	\$2.60	\$190,380	\$2.53	\$185,254
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	35,096	MWh	(0.16) mills	(\$5,615)	(0.29) mills	(\$10,178)
Reactive Power Charge	9,359	kVar	\$0.50	\$4,680	\$0.50	\$4,680
Energy Charge (not applicable)				mills		mills
Schedule 129	35,096	MWh	23.26	\$816,334	21.53	\$755,618
Totals	35,096	MWh		\$1,196,799		\$1,101,209
				Change		(\$95,591)

**PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)**

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2016 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	0	bills	\$470.00	\$0	\$470.00	\$0
Transmission & Related Services Charge						
On-peak	0	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	0	faccap	\$3.14	\$0	\$3.10	\$0
Block 2 (over 200 kW)	0	faccap	\$2.24	\$0	\$1.90	\$0
Distribution Demand Charge						
On-peak	0	kW	\$2.60	\$0	\$2.53	\$0
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	0	MWh	(0.16) mills	\$0	(0.29) mills	\$0
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge (not applicable)				mills		mills
Schedule 129	0	MWh	30.07	\$0	28.34	\$0
Totals	0	MWh		\$0		\$0
				Change		\$0
Schedule 485 V2017 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	96	bills	\$470.00	\$45,120	\$470.00	\$45,120
Transmission & Related Services Charge						
On-peak	112,749	kW		\$0		\$0
Off-peak	100	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	19,200	faccap	\$3.14	\$60,288	\$3.10	\$59,520
Block 2 (over 200 kW)	93,649	faccap	\$2.24	\$209,774	\$1.90	\$177,933
Distribution Demand Charge						
On-peak	112,749	kW	\$2.60	\$293,147	\$2.53	\$285,255
Off-peak	100	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	65,259	MWh	(0.16) mills	(\$10,441)	(0.29) mills	(\$18,925)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Reactive Power Charge	12,227	kVar	\$0.50	\$6,114	\$0.50	\$6,114
Energy Charge (not applicable)				mills		mills
Schedule 129	65,259	MWh	30.63	\$1,998,877	28.00	\$1,827,247
Totals	65,259	MWh		\$2,602,879		\$2,382,263
				Change		(\$220,615)
Schedule 485 V2018 Primary Delivery Voltage 201 to 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$470.00	\$5,640	\$470.00	\$5,640
Transmission & Related Services Charge						
On-peak	22,453	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	2,400	faccap	\$3.14	\$7,536	\$3.10	\$7,440
Block 2 (over 200 kW)	26,472	faccap	\$2.24	\$59,297	\$1.90	\$50,297
Distribution Demand Charge						
On-peak	22,453	kW	\$2.60	\$58,378	\$2.53	\$56,806
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	12,047	MWh	(0.16) mills	(\$1,928)	(0.29) mills	(\$3,494)
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge (not applicable)				mills		mills
Schedule 129	12,047	MWh	32.94	\$396,826	30.31	\$365,142
Totals	12,047	MWh		\$525,749		\$481,832
				Change		(\$43,918)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 485 V2019 Primary Delivery Voltage 201 to 4,000 kW						
Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	24	bills	\$470.00	\$11,280	\$470.00	\$11,280
Transmission & Related Services Charge						
On-peak	59,353	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
Block 1 (first 200 kW)	4,800	faccap	\$3.14	\$15,072	\$3.10	\$14,880
Block 2 (over 200 kW)	69,228	faccap	\$2.24	\$155,071	\$1.90	\$131,533
Distribution Demand Charge						
On-peak	59,353	kW	\$2.60	\$154,318	\$2.53	\$150,163
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	21,816	MWh	(0.16) mills	(\$3,491)	(0.29) mills	(\$6,327)
Reactive Power Charge	9,292	kVar	\$0.50	\$4,646	\$0.50	\$4,646
Energy Charge (not applicable)				mills		mills
Schedule 129	21,816	MWh	29.58	\$645,317	29.58	\$645,317
Totals	21,816	MWh		\$982,213		\$951,493
				Change		(\$30,720)
Schedule 489 V2004 Primary Delivery Voltage GT 4,000 kW						
Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$1,770.00	\$21,240	\$1,890.00	\$22,680
Transmission & Related Services Charge						
On-peak	128,295	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	93,240	faccap	\$1.24	\$115,618	\$1.18	\$110,023
Distribution Demand Charge						
On-peak	128,295	kW	\$2.60	\$333,567	\$2.53	\$324,586
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
System Usage Charge	75,020	MWh	(0.05) mills	(\$3,751)	(0.15) mills	(\$11,253)
Reactive Power Charge	35,972	kVar	\$0.50	\$17,986	\$0.50	\$17,986
Energy Charge (not applicable)				mills		mills
Schedule 129	75,020	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	75,020			\$559,060		\$535,543
				Change		(\$23,517)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2010 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$1,770.00	\$21,240	\$1,890.00	\$22,680
Transmission & Related Services Charge						
On-peak	142,095	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	106,284	faccap	\$1.24	\$131,792	\$1.18	\$125,415
Distribution Demand Charge						
On-peak	142,095	kW	\$2.60	\$369,447	\$2.53	\$359,500
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	73,367	MWh	(0.05) mills	(\$3,668)	(0.15) mills	(\$11,005)
Reactive Power Charge	44,824	kVar	\$0.50	\$22,412	\$0.50	\$22,412
Energy Charge (not applicable)				mills		mills
Schedule 129	73,367	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	73,367			\$615,623		\$590,522
				Change		(\$25,100)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2011 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	24	bills	\$1,770.00	\$42,480	\$1,890.00	\$45,360
Transmission & Related Services Charge						
On-peak	263,601	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	24,000	faccap	\$1.55	\$37,200	\$1.49	\$35,760
1,001 to 4,000 kW	72,000	faccap	\$1.55	\$111,600	\$1.49	\$107,280
Over 4,000 kW	190,320	faccap	\$1.24	\$235,997	\$1.18	\$224,578
Distribution Demand Charge						
On-peak	263,601	kW	\$2.60	\$685,363	\$2.53	\$666,911
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	179,170	MWh	(0.05) mills	(\$8,958)	(0.15) mills	(\$26,875)
Reactive Power Charge	34,160	kVar	\$0.50	\$17,080	\$0.50	\$17,080
Energy Charge (not applicable)				mills		mills
Schedule 129	179,170	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	179,170	MWh		\$1,120,761		\$1,070,093
				Change		(\$50,668)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2012 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	36	bills	\$1,770.00	\$63,720	\$1,890.00	\$68,040
Transmission & Related Services Charge						
On-peak	170,006	kW		\$0		\$0
Off-peak	46	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
1,001 to 4,000 kW	108,000	faccap	\$1.55	\$167,400	\$1.49	\$160,920
Over 4,000 kW	54,825	faccap	\$1.24	\$67,983	\$1.18	\$64,694
Distribution Demand Charge						
On-peak	170,006	kW	\$2.60	\$442,016	\$2.53	\$430,115
Off-peak	46	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	87,123	MWh	(0.05) mills	(\$4,356)	(0.15) mills	(\$13,068)
Reactive Power Charge	2,846	kVar	\$0.50	\$1,423	\$0.50	\$1,423
Energy Charge (not applicable)				mills		mills
Schedule 129	87,123	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	87,123	MWh		\$793,985		\$765,763
				Change		(\$28,222)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2013 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$1,770.00	\$21,240	\$1,890.00	\$22,680
Transmission & Related Services Charge						
On-peak	89,545	kW		\$0		\$0
Off-peak	31	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	49,932	faccap	\$1.24	\$61,916	\$1.18	\$58,920
Distribution Demand Charge						
On-peak	89,545	kW	\$2.60	\$232,817	\$2.53	\$226,549
Off-peak	31	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	56,400	MWh	(0.05) mills	(\$2,820)	(0.15) mills	(\$8,460)
Reactive Power Charge	203	kVar	\$0.50	\$102	\$0.50	\$102
Energy Charge (not applicable)				mills		mills
Schedule 129	56,400	MWh	0.00	\$0	0.00	\$0
Totals		MWh		\$387,654		\$371,310
				Change		(\$16,344)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2014 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$1,770.00	\$21,240	\$1,890.00	\$22,680
Transmission & Related Services Charge						
On-peak	102,973	kW		\$0		\$0
Off-peak	222	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	63,900	faccap	\$1.24	\$79,236	\$1.18	\$75,402
Distribution Demand Charge						
On-peak	102,973	kW	\$2.60	\$267,730	\$2.53	\$260,522
Off-peak	222	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	68,114	MWh	(0.05) mills	(\$3,406)	(0.15) mills	(\$10,217)
Reactive Power Charge	1,298	kVar	\$0.50	\$649	\$0.50	\$649
Energy Charge (not applicable)				mills		mills
Schedule 129	68,114	MWh	9.21	\$627,334	0.00	\$0
Totals		MWh		\$1,067,183		\$420,556
				Change		(\$646,628)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2016 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$1,770.00	\$21,240	\$1,890.00	\$22,680
Transmission & Related Services Charge						
On-peak	98,417	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	51,106	faccap	\$1.24	\$63,371	\$1.18	\$60,305
Distribution Demand Charge						
On-peak	98,417	kW	\$2.60	\$255,884	\$2.53	\$248,995
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	66,250	MWh	(0.05) mills	(\$3,312)	(0.15) mills	(\$9,937)
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50	\$0
Energy Charge (not applicable)				mills		mills
Schedule 129	66,250	MWh	27.62	\$1,829,822	26.05	\$1,725,810
Totals	66,250	MWh		\$2,241,405		\$2,119,373
				Change		(\$122,033)
Schedule 489 V2017 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	24	bills	\$1,770.00	\$42,480	\$1,890.00	\$45,360
Transmission & Related Services Charge						
On-peak	228,766	kW		\$0		\$0
Off-peak	596	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	24,000	faccap	\$1.55	\$37,200	\$1.49	\$35,760
1,001 to 4,000 kW	72,000	faccap	\$1.55	\$111,600	\$1.49	\$107,280
Over 4,000 kW	156,890	faccap	\$1.24	\$194,544	\$1.18	\$185,130
Distribution Demand Charge						
On-peak	228,766	kW	\$2.60	\$594,792	\$2.53	\$578,778
Off-peak	596	kW	\$0.00	\$0	\$0.00	\$0

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
System Usage Charge	143,156	MWh	(0.05) mills	(\$7,158)	(0.15) mills	(\$21,473)
Reactive Power Charge	55,222	kVar	\$0.50	\$27,611	\$0.50	\$27,611
Energy Charge (not applicable)				mills		mills
Schedule 129	143,156	MWh	28.47	\$4,075,642	26.05	\$3,729,205
Totals	143,156	MWh		\$5,076,710		\$4,687,651
				Change		(\$389,059)

**Schedule 489 V2018 Primary Delivery Voltage GT 4,000 kW
Large Non-residential Standard Service (Direct Access)**

Monthly Basic Charge	24	bills	\$1,770.00	\$42,480	\$1,890.00	\$45,360
Transmission & Related Services Charge						
On-peak	253,351	kW		\$0		\$0
Off-peak	20	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	24,000	faccap	\$1.55	\$37,200	\$1.49	\$35,760
1,001 to 4,000 kW	72,000	faccap	\$1.55	\$111,600	\$1.49	\$107,280
Over 4,000 kW	178,446	faccap	\$1.24	\$221,273	\$1.18	\$210,566
Distribution Demand Charge						
On-peak	253,351	kW	\$2.60	\$658,713	\$2.53	\$640,978
Off-peak	20	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	166,555	MWh	(0.05) mills	(\$8,328)	(0.15) mills	(\$24,983)
Reactive Power Charge	31,808	kVar	\$0.50	\$15,904	\$0.50	\$15,904
Energy Charge (not applicable)				mills		mills
Schedule 129	166,555	MWh	29.53	\$4,918,360	27.11	\$4,515,297
Totals	166,555	MWh		\$5,997,202		\$5,546,162
				Change		(\$451,039)

**Schedule 489 V2019 Primary Delivery Voltage GT 4,000 kW
Large Non-residential Standard Service (Direct Access)**

Monthly Basic Charge	12	bills	\$1,770.00	\$21,240	\$1,890.00	\$22,680
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PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Transmission & Related Services Charge						
On-peak	69,873	kW		\$0		\$0
Off-peak	80	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	26,844	faccap	\$1.24	\$33,287	\$1.18	\$31,676
Distribution Demand Charge						
On-peak	69,873	kW	\$2.60	\$181,670	\$2.53	\$176,779
Off-peak	80	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	45,879	MWh	(0.05) mills	(\$2,294)	(0.15) mills	(\$6,882)
Reactive Power Charge	12,928	kVar	\$0.50	\$6,464	\$0.50	\$6,464
Energy Charge (not applicable)				mills		mills
Schedule 129	45,879	MWh	25.76	\$1,181,852	25.76	\$1,181,852
Totals	45,879	MWh		\$1,496,618		\$1,484,088
				Change		(\$12,530)
Schedule 489 V2007 Subtransmission Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$3,850.00	\$46,200	\$3,970.00	\$47,640
Transmission & Related Services Charge						
On-peak	10,708	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	48,000	faccap	\$1.55	\$74,400	\$1.49	\$71,520
1,001 to 4,000 kW	12	faccap	\$1.55	\$19	\$1.49	\$18
Over 4,000 kW	0	faccap	\$1.24	\$0	\$1.18	\$0
Distribution Demand Charge						
On-peak	10,708	kW	\$1.26	\$13,492	\$1.27	\$13,599
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	1,733	MWh	(0.06) mills	(\$104)	(0.15) mills	(\$260)
Reactive Power Charge	890	kVar	\$0.50	\$445	\$0.50	\$445

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current</u>		<u>Proposed</u>	
			<u>Price</u>	<u>Revenues</u>	<u>Price</u>	<u>Revenues</u>
Energy Charge (not applicable)				mills		mills
Schedule 129	1,733	MWh	0.00	mills \$0	0.00	mills \$0
Totals	1,733	MWh		\$134,452		\$132,962
				Change		(\$1,490)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2012 Subtransmission Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$3,850.00	\$46,200	\$3,970.00	\$47,640
Transmission & Related Services Charge						
On-peak	162,339	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	164,544	faccap	\$1.24	\$204,035	\$1.18	\$194,162
Distribution Demand Charge						
On-peak	162,339	kW	\$1.26	\$204,547	\$1.27	\$206,171
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	100,778	MWh	(0.06) mills	(\$6,047)	(0.15) mills	(\$15,117)
Reactive Power Charge	29,693	kVar	\$0.50	\$14,847	\$0.50	\$14,847
Energy Charge (not applicable)				mills		mills
Schedule 129	100,778	MWh	0.00 mills	\$0	0.00 mills	\$0
Totals	100,778	MWh		\$537,982		\$519,222
				Change		(\$18,759)

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues
Schedule 489 V2013 Subtransmission Delivery Voltage GT 4,000 kW Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	12	bills	\$3,850.00	\$46,200	\$3,970.00	\$47,640
Transmission & Related Services Charge						
On-peak	198,357	kW		\$0		\$0
Off-peak	0	kW		\$0		\$0
Distribution Facilities Charge						
First 1,000 kW	12,000	faccap	\$1.55	\$18,600	\$1.49	\$17,880
1,001 to 4,000 kW	36,000	faccap	\$1.55	\$55,800	\$1.49	\$53,640
Over 4,000 kW	168,410	faccap	\$1.24	\$208,828	\$1.18	\$198,724
Distribution Demand Charge						
On-peak	198,357	kW	\$1.26	\$249,930	\$1.27	\$251,913
Off-peak	0	kW	\$0.00	\$0	\$0.00	\$0
System Usage Charge	84,661	MWh	(0.06) mills	(\$5,080)	(0.15) mills	(\$12,699)
Reactive Power Charge	182,305	kVar	\$0.50	\$91,153	\$0.50	\$91,153
Energy Charge (not applicable)				mills		mills
Schedule 129	84,661	MWh	0.00	\$0	0.00	\$0
Totals	84,661	MWh		\$665,431		\$648,251
				Change		(\$17,181)
System DA Totals	1,999,817	MWh		\$40,656,342		\$40,289,413

PORTLAND GENERAL ELECTRIC
Cycle Billing Determinants & Base Revenues (Base Rates)

Schedule	Billing Determinant	Units	Current		Proposed	
			Price	Revenues	Price	Revenues

Summary of Revenues: Current and Proposed

System COS Totals	17,312,384	MWh		\$1,778,702,355		\$1,791,219,543
System VPO Totals	0	MWh		\$0		\$0
System DA Totals	<u>1,999,817</u>	MWh		<u>\$40,656,342</u>		<u>\$40,289,413</u>
Totals	19,312,201			\$1,819,358,698		\$1,831,508,956
				Change		\$12,150,258

Revenue Category	Current	Change	Proposed	Delta
Basic Charge Revenues	\$142,652,721	\$0	\$149,279,100	\$0
Transmission & Related Charges	\$31,619,334	\$0	\$37,271,496	\$0
Volumetric Distribution Charges	\$407,595,747	(\$0)	\$436,042,123	\$0
Facilities Charges	\$77,407,080	\$0	\$72,623,375	(\$0)
Distribution Demand Charges	\$61,174,362	(\$0)	\$59,589,040	(\$0)
System Usage Charges	\$21,982,944		\$23,800,836	
Reactive Power Charges	\$1,253,946	\$0	\$1,253,946	\$0
Energy Charges	\$1,056,741,996	\$0	\$1,031,858,698	(\$0)
Schedule 125	\$0	\$0	\$0	\$0
Schedule 122a	\$0	\$0	\$0	\$0
Schedule 129	\$23,267,370	\$0	\$20,750,795	\$0
Employee Discount	(\$944,818)	\$0	(\$960,453)	\$0
Totals	\$1,822,750,682	\$0	\$1,831,508,956	(\$0)
	\$0		\$0	
	\$0		\$0	

Reconcile to Cycle-adjusted Revenue Requirements (positive figure represents revenues less than revenue requirements):	(\$63,001)
Delta Employee Discount (difference between base rates discount and amount in revenue requirements):	(\$36,525)
Rounding of Prices	<u>\$99,526</u>
Total	(\$0.000)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
1																								
2	PORTLAND GENERAL ELECTRIC																							
3	2019 GRC Prices																							
4								Demand	Demand									Explicit/						
5					Basic	Basic	Vol. Trans	Transmission	Transmission	Volumetric	Volumetric	Volumetric					Distribution	Distribution	System	Block 1	Block 2	Block 3	Flat	On-peak
6					Charge	Charge	& Related	& Related	& Related	Dist.	Dist.	Dist.	Facilities	Facilities	Facilities		Demand	Demand	Usage	Energy	Energy	Energy	Energy	Energy
7	Grouping				Price 1-phase	Price 3-phase	Price	Price Block 1	Price Block 2	Price Block 1	Price Block 2	Price Block 3	Price Block 1	Price Block 2	Price Block 3	Price Block 1	Price Block 2	Price	Price	Price	Price	Price	Price	Price
8																								
9	Schedule 7				\$11.00	\$11.00	2.43	\$0.00	\$0.00	44.44	44.44	44.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2.18	63.29	63.29	70.51	0.00	0.00
10	Schedule 15 Residential				\$0.00	\$0.00	1.52	\$0.00	\$0.00	53.55	53.55		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	10.44	0.00	0.00		48.98	0.00
11																								
12																								
13	Schedule 15 Commercial				\$0.00	\$0.00	1.52	\$0.00	\$0.00	53.55	53.55		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	10.44	0.00	0.00		48.98	0.00
14	Schedule 32				\$20.00	\$29.00	2.06	\$0.00	\$0.00	40.45	13.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	1.87	0.00	0.00		58.42	0.00
15	Schedule 38				\$30.00	\$30.00	1.71	\$0.00	\$0.00	68.07	68.07		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2.34	0.00	0.00		70.00	60.70
16	Schedule 47				\$37.00	\$37.00	2.13	\$0.00	\$0.00	106.84	86.84		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	4.15	0.00	0.00		0.94	0.00
17	Schedule 49				\$45.00	\$45.00	2.12	\$0.00	\$0.00	78.28	58.28		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2.71	0.00	0.00		70.68	0.00
18	Schedule 83-S				\$35.00	\$45.00	0.00	\$0.78	\$0.00	0.00	0.00		\$3.50	\$3.40	\$0.00	\$2.61	\$0.00	\$0.00	6.99	0.00	0.00			63.35
19	Schedule 85-S					\$560.00	0.00	\$0.78	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	0.97					61.91
20	Schedule 89-S					\$3,340.00	0.00	\$0.78	\$0.00	0.00	0.00		\$1.53	\$1.53	\$1.22	\$2.61	\$0.00	\$0.00	1.02	0.00	0.00			58.69
21	Schedule 91				\$0.00	\$0.00	1.52	\$0.00	\$0.00	61.31	61.31		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2.68	0.00	0.00		48.98	0.00
22	Schedule 92				\$0.00	\$0.00	1.59	\$0.00	\$0.00	28.15	28.15		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	1.10	0.00	0.00		51.09	0.00
23	Schedule 95				\$0.00	\$0.00	1.52	\$0.00	\$0.00	61.31	61.31		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	2.68	0.00	0.00		48.98	0.00
24																								
25																								
26	Schedule 85-P					\$470.00	0.00	\$0.76	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	0.93	0.00	0.00			60.86
27	Schedule 89-P					\$1,890.00	0.00	\$0.76	\$0.00	0.00	0.00		\$1.49	\$1.49	\$1.18	\$2.53	\$0.00	\$0.00	0.99	0.00	0.00			57.73
28	Schedule 90-P					\$6,100.00	0.00	\$0.76	\$0.00	0.00	0.00		\$1.61	\$1.61	\$1.30	\$2.53	\$0.00	\$0.00	0.54					55.77
29																								
30																								
31	Schedule 89-T					\$3,970.00	0.00	\$0.75	\$0.00	0.00	0.00		\$1.49	\$1.49	\$1.18	\$1.27	\$0.00	\$0.00	0.97	0.00	0.00			57.02
32	Schedule 75-T					\$3,970.00	0.00	\$0.75	\$0.00	0.00	0.00		\$1.49	\$1.49	\$1.18	\$1.27	\$0.00	\$0.00	0.97	0.00	0.00			57.02
33	Schedule 76R					\$3,970.00	0.00	\$0.75	\$0.00	0.00	0.00		\$1.49	\$1.49	\$1.18	\$1.27	\$0.00	\$0.00						
34																								
35																								
36	Schedule 485-S V2003				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
37	Schedule 485-S V2010				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
38	Schedule 485-S V2011				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
39	Schedule 485-S V2012				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
40	Schedule 485-S V2013				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
41	Schedule 485-S V2014				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
42	Schedule 485-S V2015				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
43	Schedule 485-S V2016				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
44	Schedule 485-S V2017				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
45	Schedule 485-S V2018				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
46	Schedule 485-S V2019				\$0.00	\$560.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.17	\$1.97	\$0.00	\$2.61	\$0.00	\$0.00	(0.28)					
47	Schedule 489-S V2014				\$0.00	\$3,340.00	0.00	\$0.00	\$0.00	0.00	0.00		\$1.53	\$1.53	\$1.22	\$2.61	\$0.00	\$0.00	(0.14)					
48																								
49																								
50	Schedule 485-P V2010				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
51	Schedule 485-P V2011				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
52	Schedule 485-P V2012				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
53	Schedule 485-P V2013				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
54	Schedule 485-P V2014				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
55	Schedule 485-P V2015				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
56	Schedule 485-P V2016				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
57	Schedule 485-P V2017				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
58	Schedule 485-P V2018				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
59	Schedule 485-P V2019				\$0.00	\$470.00	0.00	\$0.00	\$0.00	0.00	0.00		\$3.10	\$1.90	\$0.00	\$2.53	\$0.00	\$0.00	(0.29)					
60	Schedule 489-P V2004				\$0.00	\$1,890.00	0.00	\$0.00	\$0.00	0.00	0.00		\$1.49	\$1.49	\$1.18	\$2.53	\$0.00	\$0.00	(0.15)					
61	Schedule 489-P V2010				\$0.00	\$1,890.00	0.00	\$0.00	\$0.00	0.00	0.00		\$1.49	\$1.49	\$1.18	\$2.53	\$0.00	\$0.00	(0.15)					
62	Schedule 489-P V2011				\$0.00	\$1,890.00	0.00	\$0.00	\$0.00	0.00	0.00													

	A	B	C	D	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	
1																											
2	PORTLAND GENERAL ELECTRIC																										
3	2019 GRC Prices																										
4																											
5					Off-peak	Wheeling											Sch 128	Sch 128		Sch 102	Sch 102	Sch 102					
6					Energy	Demand	Reactive	Fixed	Sch 146	Sch 122a	Sch 122b	Sch 125	Sch 145	Sch 132a	Sch 132b	Sch 143	Block 1	Block 2	Sch 129	Block 1	Block 2	Block 3	Sch 105	Sch 109	Sch 110	Sch 112	
7	Grouping				Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price
8																											
9	Schedule 7				0.00	\$0.00	\$0.00	0.00					0.26	(1.62)		(0.17)			0.00	(9.22)	(9.22)	(4.95)	0.13	3.97	0.05	0.30	
10	Schedule 15 Residential				0.00	\$0.00	\$0.00	103.18					0.20	(3.16)		(0.13)			0.00	(8.50)	0.00		0.10	6.80	0.10	0.25	
11																											
12																											
13	Schedule 15 Commercial				0.00	\$0.00	\$0.00	103.18					0.20	(3.16)		(0.13)			0.00	(8.50)	0.00		0.10	6.80	0.10	0.25	
14	Schedule 32				0.00	\$0.00	\$0.00	0.00					0.24	(1.46)		(0.15)			0.00	(8.50)	0.00		0.12	3.61	0.05	0.21	
15	Schedule 38				45.70	\$0.00	\$0.50	0.00					0.22	(1.79)		(0.14)			0.00	(8.50)	0.00		0.11	4.09	0.06	0.39	
16	Schedule 47				0.00	\$0.00	\$0.50	0.00					0.29	(2.72)		(0.18)			0.00	(8.50)	0.00		0.14	6.29	0.09	0.50	
17	Schedule 49				0.00	\$0.00	\$0.50	0.00					0.29	(1.91)		(0.18)			0.00	(8.50)	0.00		0.14	4.50	0.06	0.15	
18	Schedule 83-S				48.35	\$0.00	\$0.50	0.00					0.24	(1.12)		(0.15)			0.00	(8.50)	0.00		0.12	2.83	0.04	0.06	
19	Schedule 85-S				46.91	\$0.00	\$0.50	0.00					0.23	(0.96)		(0.15)			0.00	(8.50)	0.00		0.11	2.42	0.04	0.04	
20	Schedule 89-S				43.69	\$0.00	\$0.50	0.00					0.21	(0.76)		(0.14)			0.00	(8.50)	0.00		0.11	1.46	0.04	0.01	
21	Schedule 91				0.00	\$0.00	\$0.00	104.67					0.20	(3.13)		(0.13)			0.00				0.10	6.86	0.10	0.25	
22	Schedule 92				0.00	\$0.00	\$0.00	0.00					0.21	(1.02)		(0.13)			0.00				0.10	2.57	0.04	0.23	
23	Schedule 95				0.00	\$0.00	\$0.00	104.67					0.20	(3.13)		(0.13)			0.00				0.10	6.86	0.10	0.25	
24																											
25																											
26	Schedule 85-P				45.86		\$0.50	0.00					0.22	(0.89)		(0.14)			0.00	(8.50)	0.00		0.11	2.42	0.04	0.04	
27	Schedule 89-P				42.73		\$0.50	0.00					0.21	(0.75)		(0.13)			0.00	(8.50)	0.00		0.11	1.46	0.04	0.01	
28	Schedule 90-P				40.77		\$0.50	0.00					0.20	(0.64)		(0.13)			0.00	(8.50)	0.00		0.10	1.46	0.04	0.01	
29																											
30																											
31	Schedule 89-T				42.02	\$0.00	\$0.50	0.00					0.21	(0.90)		(0.13)			0.00				0.11	1.46	0.04	0.01	
32	Schedule 75-T				42.02		\$0.50	0.00					0.21	(0.90)		(0.13)			0.00				0.11	1.46	0.04	0.01	
33	Schedule 76R						\$0.50																				
34																											
35																											
36	Schedule 485-S V2003					\$0.00	\$0.50	0.00						(0.23)		(0.15)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
37	Schedule 485-S V2010					\$0.00	\$0.50	0.00						(0.23)		(0.15)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
38	Schedule 485-S V2011					\$0.00	\$0.50	0.00						(0.23)		(0.15)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
39	Schedule 485-S V2012					\$0.00	\$0.50	0.00						(0.23)		(0.15)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
40	Schedule 485-S V2013					\$0.00	\$0.50	0.00						(0.23)		(0.15)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
41	Schedule 485-S V2014					\$0.00	\$0.50	0.00						(0.23)	(0.18)	(0.15)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
42	Schedule 485-S V2015					\$0.00	\$0.50	0.00						(0.23)	(0.61)	(0.15)			21.72	(8.50)	0.00		0.00	2.42	0.04	0.04	
43	Schedule 485-S V2016					\$0.00	\$0.50	0.00						(0.23)	(0.61)	(0.15)			28.66	(8.50)	0.00		0.00	2.42	0.04	0.04	
44	Schedule 485-S V2017					\$0.00	\$0.50	0.00						(0.23)	(0.61)	(0.15)			28.46	(8.50)	0.00		0.00	2.42	0.04	0.04	
45	Schedule 485-S V2018					\$0.00	\$0.50	0.00						(0.23)	(0.61)	(0.15)			30.72	(8.50)	0.00		0.00	2.42	0.04	0.04	
46	Schedule 485-S V2019					\$0.00	\$0.50	0.00						(0.23)	(0.61)	(0.15)			29.72	(8.50)	0.00		0.00	2.42	0.04	0.04	
47	Schedule 489-S V2014					\$0.00	\$0.50	0.00						(0.33)	(0.08)	(0.14)			0.00	(8.50)	0.00		0.00	1.46	0.04	0.01	
48																											
49																											
50	Schedule 485-P V2010					\$0.00	\$0.50	0.00						(0.17)		(0.14)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
51	Schedule 485-P V2011					\$0.00	\$0.50	0.00						(0.17)		(0.14)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
52	Schedule 485-P V2012					\$0.00	\$0.50	0.00						(0.17)		(0.14)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
53	Schedule 485-P V2013					\$0.00	\$0.50	0.00						(0.17)		(0.14)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
54	Schedule 485-P V2014					\$0.00	\$0.50	0.00						(0.17)	(0.18)	(0.14)			0.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
55	Schedule 485-P V2015					\$0.00	\$0.50	0.00						(0.17)	(0.60)	(0.14)			21.53	(8.50)	0.00		0.00	2.42	0.04	0.04	
56	Schedule 485-P V2016					\$0.00	\$0.50	0.00						(0.17)	(0.60)	(0.14)			28.34	(8.50)	0.00		0.00	2.42	0.04	0.04	
57	Schedule 485-P V2017					\$0.00	\$0.50	0.00						(0.17)	(0.60)	(0.14)			28.00	(8.50)	0.00		0.00	2.42	0.04	0.04	
58	Schedule 485-P V2018					\$0.00	\$0.50	0.00						(0.17)	(0.60)	(0.14)			30.31	(8.50)	0.00		0.00	2.42	0.04	0.04	
59	Schedule 485-P V2019					\$0.00	\$0.50	0.00						(0.17)	(0.60)	(0.14)			29.58	(8.50)	0.00		0.00	2.42	0.04	0.04	
60	Schedule 489-P V2004					\$0.00	\$0.50	0.00						(0.11)		(0.13)			0.00	(8.50)	0.00		0.00	1.46	0.04	0.01	
61	Schedule 489-P V2010					\$0.00	\$0.50	0.00						(0.11)		(0.13)			0.00	(8.50)	0.00		0.00	1.46	0.04	0.01	
62	Schedule 489-P V2011					\$0.00	\$0.50	0.00						(0.11)		(0.13)	</										

	A	B	C	D	AT	AU	AV	AW
1								
2				PORTLAND GENERAL ELECTRIC				
3				2019 GRC Prices				
4								
5								
6					Sch 123	Sch 126	Sch 135	Sch 137
7				Grouping	Price	Price	Price	Price
8								
9				Schedule 7	2.00		0.44	0.47
10				Schedule 15 Residential	0.21		0.33	0.37
11								
12								
13				Schedule 15 Commercial	0.21		0.33	0.37
14				Schedule 32	(1.39)		0.40	0.44
15				Schedule 38	0.21		0.37	0.44
16				Schedule 47	0.21		0.48	0.53
17				Schedule 49	0.21		0.48	0.51
18				Schedule 83-S	0.21		0.40	0.43
19				Schedule 85-S	0.21		0.38	0.42
20				Schedule 89-S	0.21		0.36	0.40
21				Schedule 91	0.21		0.33	0.37
22				Schedule 92	0.21		0.35	0.39
23				Schedule 95	0.21		0.33	0.37
24								
25								
26				Schedule 85-P	0.21		0.38	0.41
27				Schedule 89-P	0.21		0.35	0.39
28				Schedule 90-P	0.21		0.34	0.38
29								
30								
31				Schedule 89-T	0.21		0.35	0.39
32				Schedule 75-T	0.21		0.35	0.39
33				Schedule 76R				
34								
35								
36				Schedule 485-S V2003	0.04			
37				Schedule 485-S V2010	0.04			
38				Schedule 485-S V2011	0.04			
39				Schedule 485-S V2012	0.04			
40				Schedule 485-S V2013	0.04			
41				Schedule 485-S V2014	0.04			
42				Schedule 485-S V2015	0.04			
43				Schedule 485-S V2016	0.04			
44				Schedule 485-S V2017	0.04			
45				Schedule 485-S V2018	0.04			
46				Schedule 485-S V2019	0.04			
47				Schedule 489-S V2014	0.04			
48								
49								
50				Schedule 485-P V2010	0.04			
51				Schedule 485-P V2011	0.04			
52				Schedule 485-P V2012	0.04			
53				Schedule 485-P V2013	0.04			
54				Schedule 485-P V2014	0.04			
55				Schedule 485-P V2015	0.04			
56				Schedule 485-P V2016	0.04			
57				Schedule 485-P V2017	0.04			
58				Schedule 485-P V2018	0.04			
59				Schedule 485-P V2019	0.04			
60				Schedule 489-P V2004	0.04			
61				Schedule 489-P V2010	0.04			
62				Schedule 489-P V2011	0.04			
63				Schedule 489-P V2012	0.04			
64				Schedule 489-P V2013	0.04			
65				Schedule 489-P V2014	0.04			
66				Schedule 489-P V2016	0.04			
67				Schedule 489-P V2017	0.04			
68				Schedule 489-P V2018	0.04			
69				Schedule 489-P V2019	0.04			
70								
71								
72				Schedule 489-T V2007	0.04			
73				Schedule 489-T V2012	0.04			
74				Schedule 489-T V2013	0.04			

The image shows a large, dense grid of data, likely a spreadsheet or table, with many columns and rows. The content is mostly illegible due to the small font size and high density of text. The grid appears to be a detailed financial or operational report, possibly related to marginal costs as mentioned in the page header. The data is organized into multiple columns, with some cells containing numerical values and others containing text. The overall appearance is that of a complex data table.

PORTLAND GENERAL ELECTRIC
2019 Price Changes relative to 2018 Prices

Grouping	Basic Charge		Vol. Trans & Related Price	Demand	Demand	Volumetric Dist. Price Block 1	Volumetric Dist. Price Block 2
	Price 1-phase	Price 3-phase		Transmission & Related Price Block 1	Transmission & Related Price Block 2		
Schedule 7	\$0.00	\$0.00	0.34	\$0.00	\$0.00	3.58	3.58
Schedule 15 Residential	\$0.00	\$0.00	0.23	\$0.00	\$0.00	(1.75)	(1.75)
Schedule 15 Commercial	\$0.00	\$0.00	0.23	\$0.00	\$0.00	(1.75)	(1.75)
Schedule 32	\$3.00	\$6.00	0.30	\$0.00	\$0.00	0.57	6.00
Schedule 38	\$5.00	\$5.00	0.25	\$0.00	\$0.00	(0.62)	(0.62)
Schedule 47	\$2.00	\$2.00	0.31	\$0.00	\$0.00	2.23	2.23
Schedule 49	\$5.00	\$5.00	0.30	\$0.00	\$0.00	(1.27)	(1.27)
Schedule 83-S	\$5.00	\$5.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 85-S	\$0.00	\$60.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 89-S	\$0.00	\$180.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 91	\$0.00	\$0.00	0.23	\$0.00	\$0.00	2.23	2.23
Schedule 92	\$0.00	\$0.00	0.23	\$0.00	\$0.00	0.43	0.43
Schedule 95	\$0.00	\$0.00	0.23	\$0.00	\$0.00	2.23	2.23
Schedule 85-P	\$0.00	\$0.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 89-P	\$0.00	\$120.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 90-P	\$0.00	\$900.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 89-T	\$0.00	\$120.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 75-T	\$0.00	\$120.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 76R	\$0.00	\$120.00	0.00	\$0.13	\$0.00	0.00	0.00
Schedule 485-S V2003	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2010	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2011	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2012	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2013	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2014	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2015	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2016	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2017	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2018	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-S V2019	\$0.00	\$60.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-S V2014	\$0.00	\$180.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2010	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2011	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2012	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2013	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2014	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2015	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2016	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2017	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2018	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 485-P V2019	\$0.00	\$0.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2004	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2010	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2011	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2012	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2013	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2014	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2016	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2017	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2018	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-P V2019	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-T V2007	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-T V2012	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00
Schedule 489-T V2013	\$0.00	\$120.00	0.00	\$0.00	\$0.00	0.00	0.00

Sch 129 Price	Sch 102 Block 1 Price	Sch 102 Block 2 Price	Sch 102 Block 3 Price	Sch 105 Price	Sch 109 Price	Sch 110 Price	Sch 144 Price	Sch 123 Price	Sch 126 Price	Sch 135 Price	Sch 137 Price
0.00	0.94	0.94	(4.95)	0.29	(0.96)	0.00	0.00	1.91	0.00	0.30	0.00
0.00	(0.16)	0.00	0.00	0.49	(1.43)	0.00	0.00	0.29	0.00	0.22	0.00
0.00	(0.16)	0.00	0.00	0.49	(1.43)	0.00	0.00	0.29	0.00	0.22	0.00
0.00	(0.16)	0.00	0.00	0.27	(0.93)	0.00	0.00	(0.69)	0.00	0.27	0.00
0.00	(0.16)	0.00	0.00	0.37	(1.10)	0.00	0.00	0.29	0.00	0.25	0.00
0.00	(0.16)	0.00	0.00	0.45	(1.56)	0.00	0.00	0.29	0.00	0.33	0.00
0.00	(0.16)	0.00	0.00	0.40	(1.05)	0.00	0.00	0.29	0.00	0.33	0.00
0.00	(0.16)	0.00	0.00	0.29	(0.88)	0.00	0.00	0.29	0.00	0.27	0.00
0.00	(0.16)	0.00	0.00	0.26	(0.78)	0.00	0.00	0.29	0.00	0.26	0.00
0.00	(0.16)	0.00	0.00	0.24	(1.41)	0.00	0.00	0.29	0.00	0.24	0.00
0.00	0.00	0.00	0.00	0.56	(0.61)	0.00	0.00	0.29	0.00	0.22	0.00
0.00	0.00	0.00	0.00	0.26	(0.65)	0.00	0.00	0.29	0.00	0.24	0.00
0.00	0.00	0.00	0.00	0.56	(0.61)	0.00	0.00	0.29	0.00	0.22	0.00
0.00	(0.16)	0.00	0.00	0.26	(0.78)	0.00	0.00	0.29	0.00	0.26	0.00
0.00	(0.16)	0.00	0.00	0.24	(1.41)	0.00	0.00	0.29	0.00	0.23	0.00
0.00	(0.16)	0.00	0.00	0.23	(1.41)	0.00	0.00	0.29	0.00	0.23	0.00
0.00	0.00	0.00	0.00	0.24	(1.41)	0.00	0.00	0.29	0.00	0.23	0.00
0.00	0.00	0.00	0.00	0.24	(1.41)	0.00	0.00	0.29	0.00	0.23	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(11.54)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(1.75)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(1.75)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(2.67)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(2.67)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(4.83)	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(11.47)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(1.73)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(1.73)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(2.63)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
(2.63)	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.19	(0.78)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
(9.21)	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
(1.57)	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
(2.42)	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
(2.42)	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	(0.16)	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.17	(1.41)	0.00	0.00	0.06	0.00	0.00	0.00

PORTLAND GENERAL ELECTRIC
Changes in Revenues Resulting from 2019 Price Changes (\$000)

Category	2018 Current	2019 Proposed	Change
COS/VPO	\$1,778,702	\$1,791,220	\$12,517
Direct Access	\$40,656	\$40,289	(\$367)
Adjust for Employee Discount Base Rate Delta		\$37	
Cycle Totals	\$1,819,359	\$1,831,545	
Calendar Adjustment	0.99996	0.99996	
Calendar Basis Retail Revenues	\$1,819,294	\$1,831,480	\$12,186

Reconciliation of Revenues and Revenue Requirement

Revenue Requirement	\$1,831,381
Calendar Revenues	\$1,831,480
Base Rate Difference	\$100
Schedule 146	\$0
Total	\$100
FF	\$0
VTOU	(\$9)
Rate Design	\$78
CIO	\$31
Total	\$100
Adjust Delta to Calendar	\$100

Contribution to 2019 System Peak by COS Rate Schedule

Schedule	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sum	12-CP	4-CP	12-CP
															Percent	Percent
Sch 7	1,814.5	1,661.1	1,384.1	1,256.6	1,124.9	1,180.7	1,538.1	1,658.6	1,235.0	1,170.1	1,504.0	1,937.6	17,465.3	1,455.4	52.97%	49.70%
Sch 15	4.1	4.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.1	4.1	22.0	1.8	0.06%	0.06%
Sch 32	244.4	250.9	229.8	220.4	258.9	283.7	318.5	321.5	284.9	230.9	252.3	276.1	3,172.3	264.4	8.85%	9.03%
Sch 38	3.2	5.4	6.4	4.1	3.0	2.3	4.1	3.5	3.0	5.1	5.1	4.7	50.0	4.2	0.12%	0.14%
Sch 47	0.6	0.7	0.7	0.9	2.1	6.3	11.5	11.4	6.4	0.9	0.4	0.4	42.3	3.5	0.18%	0.12%
Sch 49	0.5	0.8	1.5	1.8	6.3	22.1	37.4	31.9	20.1	1.5	0.7	0.5	125.3	10.4	0.54%	0.36%
Sch 83	340.2	443.1	381.5	419.6	502.5	587.3	596.4	600.6	539.8	417.7	414.3	463.4	5,706.3	475.5	15.25%	16.24%
Sch 85	320.6	394.6	365.3	398.0	448.1	493.2	504.0	502.9	442.1	381.8	375.1	371.6	4,997.3	416.4	12.95%	14.22%
Sch 89	55.7	59.9	56.2	56.6	60.6	62.2	59.1	66.0	64.5	57.8	54.2	46.1	699.1	58.3	1.73%	1.99%
Sch 90	214.2	227.7	214.7	217.1	232.2	242.2	248.3	253.6	249.4	229.3	237.9	221.5	2,788.0	232.3	7.15%	7.93%
Sch 91/95	13.1	13.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	9.0	13.1	13.1	70.6	5.9	0.20%	0.20%
Sch 92	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	3.7	0.3	0.01%	0.01%
Totals	3,011.3	3,062.4	2,652.1	2,575.5	2,638.9	2,880.2	3,317.7	3,450.3	2,845.5	2,507.1	2,861.5	3,339.6	35,142.1	2,928.5	100.0%	100.0%

	Generation		
	Capacity	Substations	
2021	1	0	0
2022	2	0	0
2023	3	0	0
2024	4	0	0
2025	5	1	0
2026	6	1	0
2027	7	1	0
2028	8	1	0
2029	9	1	0
2030	10	1	0
2031	11	1	0
2032	12	1	0
2033	13	1	0
2034	14	1	0
2035	15	1	0
2036	16	1	0
2037	17	1	1
2038	18	1	1
2039	19	1	1
2040	20	1	1

0.77 0.17

Inflation 2.05%

PORTLAND GENERAL ELECTRIC
Marginal Energy Costs: 2019 Test Period

Schedules	Marginal Energy Cost	Energy Percent
Schedule 7	\$307,308,874	44.32%
Schedule 15	\$562,193	0.08%
Schedule 32	\$65,235,679	9.41%
Schedule 38	\$1,298,219	0.19%
Schedule 47	\$911,680	0.13%
Schedule 49	\$2,725,411	0.39%
Schedule 83	\$116,523,932	16.81%
Schedule 85	\$107,903,245	15.56%
Schedule 89	\$17,520,672	2.53%
Schedule 90	\$71,460,657	10.31%
Schedule 91/95	\$1,802,803	0.26%
Schedule 92	\$96,792	0.01%
TOTAL	\$693,350,157	100.00%

Load Following/Integration Allocation

Schedule	Calendar MWh	Generation Allocation	Adjusted Allocation	UE 319 Load follow Allocation	UE 319 Load follow Price	UE 319 Transfer Payment	UE 335 Settlement Load follow Allocation	UE 335 Settlement Load follow Price	Total Load follow Price	Total Transfer Payment	Cycle MWh	Cycle Revenues
Sch 7	7,568,915	47.23%	52.04%	\$772,717	0.10	\$772,717			0.10	\$772,717	7,568,918	\$772,717
Sch 15	15,774	0.07%	0.08%	\$1,223	0.08	\$1,223			0.08	\$1,223	15,774	\$1,223
Sch 32	1,631,912	9.22%	10.16%	\$150,830	0.09	\$150,830			0.09	\$150,830	1,633,156	\$150,945
Sch 38	31,497	0.16%	0.18%	\$2,685	0.09	\$2,685			0.09	\$2,685	31,475	\$2,683
Sch 47	21,670	0.15%	0.16%	\$2,434	0.11	\$2,434			0.11	\$2,434	21,633	\$2,430
Sch 49	64,510	0.44%	0.49%	\$7,219	0.11	\$7,219			0.11	\$7,219	64,540	\$7,222
Sch 83	2,887,308	16.28%	17.94%	\$266,389	0.09	\$266,389			0.09	\$266,389	2,884,961	\$266,173
Sch 85	2,714,651	14.68%	16.18%	\$240,242	0.09	\$240,242	\$1,467,240	0.54	0.63	\$1,707,482	2,713,846	\$1,706,976
Sch 89	454,957	2.26%	2.49%	\$259,326	0.57	\$259,326	(\$50,751)	(0.11)	0.46	\$208,575	463,935	\$212,691
Sch 90	1,867,228			(\$1,707,189)	(0.91)	(\$1,707,189)	(\$1,416,489)	(0.76)	(1.67)	(\$3,123,679)	1,861,066	(\$3,113,371)
Sch 91/95	50,583	0.24%	0.26%	\$3,922	0.08	\$3,922			0.08	\$3,922	50,583	\$3,922
Sch 92	2,496	0.01%	0.01%	\$202	0.08	\$202			0.08	\$202	2,496	\$202
Totals	17,311,501	90.76%	100.00%	(\$0)		(\$0)					17,312,384	\$13,813

Load Following Allocation:

MWh	1,314,000	
Price (mills/kWh)	1.13	(UE 319 settlement)
Allocation	\$1,484,820	

MWh	1,314,000	
Price (mills/kWh)	0.25	(maximum price)
Allocation	\$222,369	

328,500

UE 335 Settlement Load Follow Allocation

Schedule	MWh	Current Revenues	Proposed Revenues	Change Before Equalizing	Equal % Change	Difference
Sch 85	2,714,651	\$214,693,404	\$210,285,551	(\$4,407,853)	(\$4,406,789)	\$1,064
Sch 89	454,957	\$30,630,149	\$30,000,063	(\$630,086)	(\$628,713)	\$1,372
Sch 90	1,867,228	\$108,051,394	\$105,835,971	(\$2,215,423)	(\$2,217,859)	(\$2,436)
Total		\$353,374,946	\$346,121,585	(\$7,253,361)		
				-2.05%		

Fixed and NVPC Prices

Schedule	Cal. MWh	Generation Allocation	Generation Fixed	NVPC	Fixed mills/kWh	Fixed Revenues	NVPC mills/kWh			
Sch 7	7,568,915	47.23%	\$316,561,014	\$170,751,844	41.82	\$316,532,034	22.56	64.38	\$170,754,727	\$487,286,761
Sch 15	15,774	0.07%	\$501,088	\$270,285	31.77	\$501,140	17.13	48.90	\$270,209	\$771,349
Sch 32	1,631,912	9.22%	\$61,791,153	\$33,329,920	37.86	\$61,784,176	20.42	58.28	\$33,323,637	\$95,107,813
Sch 38	31,497	0.16%	\$1,099,956	\$593,312	34.92	\$1,099,881	18.84	53.76	\$593,406	\$1,693,287
Sch 47	21,670	0.15%	\$997,052	\$537,806	46.01	\$997,042	24.82	70.83	\$537,852	\$1,534,894
Sch 49	64,510	0.44%	\$2,957,360	\$1,595,189	45.84	\$2,957,138	24.73	70.57	\$1,595,332	\$4,552,470
Sch 83	2,887,308	16.28%	\$109,132,384	\$58,865,606	37.80	\$109,140,257	20.39	58.19	\$58,872,218	\$168,012,475
Sch 85-S	2,115,981	11.49%	\$77,016,237	\$41,542,274	36.40	\$77,021,717	19.63	56.03	\$41,536,711	\$118,558,428
Sch 85-P	598,670	3.19%	\$21,404,592	\$11,545,558	35.75	\$21,402,437	19.29	55.04	\$11,548,336	\$32,950,773
Sch 89-S	0	0.00%	\$0	\$0	33.97	\$0	18.32	52.29	\$0	\$0
Sch 89-P	392,599	1.95%	\$13,088,821	\$7,060,062	33.34	\$13,089,236	17.98	51.32	\$7,058,922	\$20,148,159
Sch 89-T	62,359	0.31%	\$2,051,246	\$1,106,434	32.89	\$2,050,980	17.74	50.63	\$1,106,245	\$3,157,225
Sch 90-P	1,867,228	9.24%	\$61,954,179	\$33,417,856	33.18	\$61,954,614	17.90	51.08	\$33,423,375	\$95,377,989
Sch 91/95	50,583	0.24%	\$1,606,866	\$866,738	31.77	\$1,607,022	17.13	48.90	\$866,487	\$2,473,509
Sch 92	2,496	0.01%	\$82,715	\$44,616	33.14	\$82,717	17.88	51.02	\$44,628	\$127,346
Totals	17,311,501	100.00%	\$670,244,663	\$361,527,500	38.72	\$670,220,391	20.88			

31.83

Category	Rev. Req.	Percent
Fixed	\$670,245	64.96%
Variable	\$361,528	35.04%
Total	\$1,031,772	100.00%

Busbar Loads

Sch 85-S	2,260,926
Sch 85-P	628,364
Sch 89-S	0
Sch 89-P	412,071
Sch 89-T	64,579
Totals	3,365,940

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF TRANSMISSION REVENUE REQUIREMENT**

Schedules	12 CP MW	Unit Marginal Cost	Marginal Cost	Transmission Allocation Percent	Class Revenue Requirement
Schedule 7	1,455.4	\$11.98	\$17,436	49.70%	\$16,084
Schedule 15	1.8	\$11.98	\$22	0.06%	\$20
Schedule 32	264.4	\$11.98	\$3,167	9.03%	\$2,921
Schedule 38	4.2	\$11.98	\$50	0.14%	\$46
Schedule 47	3.5	\$11.98	\$42	0.12%	\$39
Schedule 49	10.4	\$11.98	\$125	0.36%	\$115
Schedule 83	475.5	\$11.98	\$5,697	16.24%	\$5,255
Schedule 85	416.4	\$11.98	\$4,989	14.22%	\$4,602
Schedule 89	58.3	\$11.98	\$698	1.99%	\$644
Schedule 90-P	232.3	\$11.98	\$2,783	7.93%	\$2,568
Schedules 91/95	5.9	\$11.98	\$71	0.20%	\$65
Schedule 92	0.3	\$11.98	\$4	0.01%	\$3
Totals	2,928.5		\$35,084		
Target				100.00%	\$32,364
Unit Marginal Cost \$/kW		\$11.98			

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF ANCILLARY SERVICE REVENUE REQUIREMENT
2019**

Schedules	Production Allocation Percent	Class Revenue Requirement
Schedule 7	47.23%	\$2,282
Schedule 15	0.07%	\$4
Schedule 32	9.22%	\$445
Schedule 38	0.16%	\$8
Schedule 47	0.15%	\$7
Schedule 49	0.44%	\$21
Schedule 83	16.28%	\$787
Schedule 85	14.68%	\$710
Schedule 89	2.26%	\$109
Schedule 90-P	9.24%	\$447
Schedules 91/95	0.24%	\$12
Schedule 92	0.01%	\$1
TOTAL	100.00%	\$4,832
	TARGET	\$4,832

PORTLAND GENERAL ELECTRIC
Calculation of Generation Revenues for Trojan Allocation

Schedule	2019 Cycle MWh	Proposed Energy Price	2019 Base Energy Revenues
Sch 7			
Block 1	6,290,496	63.29	\$398,125,480
Block 2	1,278,422	70.51	\$90,141,551
Sch 15	15,774	48.98	\$772,611
Sch 32	1,633,156	58.42	\$95,408,956
Sch 38			
On-peak	17,091	60.70	\$1,037,433
Off-peak	14,383	45.70	\$657,324
Sch 47	21,633	70.94	\$1,534,677
Sch 49	64,540	70.68	\$4,561,710
Sch 83-S			
On-peak	1,909,059	63.35	\$120,938,883
Off-peak	975,902	48.35	\$47,184,886
Sch 85-S			
On-peak	1,390,849	61.91	\$86,107,440
Off-peak	731,573	46.91	\$34,318,112
Sch 85-P			
On-peak	374,238	60.86	\$22,776,136
Off-peak	217,186	45.86	\$9,960,158
Sch 89-S			
On-peak	0	58.69	\$0
Off-peak	0	43.69	\$0
Sch 89-P			
On-peak	238,945	57.73	\$13,794,316
Off-peak	162,231	42.73	\$6,932,119
Sch 89-T			
On-peak	41,003	57.02	\$2,338,008
Off-peak	21,755	42.02	\$914,166
Sch 90-P			
On-peak	1,070,638	55.77	\$59,709,460
Off-peak	790,429	40.77	\$32,225,780
Sch 91/95	50,583	48.98	\$2,477,555
Sch 92	2,496	51.09	\$127,521
Totals	17,312,384		\$1,032,044,281

Note: includes DA priced at COS

Schedule	2019 Cycle MWh	Energy Price	2019 Base Energy Revenues
Sch 485-S			
On-peak	368,393	61.91	\$22,807,224
Off-peak	226,709	46.91	\$10,634,905
Sch 485-P			
On-peak	203,247	60.86	\$12,369,587
Off-peak	128,091	45.86	\$5,874,268
Sch 489-S GT 4 MW			
On-peak	8,771	58.69	\$514,779
Off-peak	4,711	43.69	\$205,816
Sch 489-P GT MW			
On-peak	559,151	57.73	\$32,279,764
Off-peak	401,882	42.73	\$17,172,439
Sch 489-T			
On-peak	110,242	57.02	\$6,285,993
Off-peak	76,929	42.02	\$3,232,575
Totals	2,088,126		\$111,377,350

PORTLAND GENERAL ELECTRIC
ALLOCATION OF FRANCHISE FEES
2019

Schedules	Distribution Allocations	Transmission Allocations	Generation Allocations	Schedule 129 Allocations	Subtotal Allocations	Distribution Fran. Fee Allocations	Transmission Fran. Fee Allocations	Generation Fran. Fee Allocations	Schedule 129 Fran. Fee Allocations	Total Fran. Fee Allocations
Schedule 7	\$440,429	\$18,367	\$488,086		\$946,881	\$11,330	\$472	\$12,556		\$24,358
Schedule 15	\$2,473	\$24	\$773		\$3,270	\$64	\$1	\$20		\$84
Schedule 32	\$87,137	\$3,367	\$95,345		\$185,848	\$2,242	\$87	\$2,453		\$4,781
Schedule 38	\$2,310	\$54	\$1,695		\$4,059	\$59	\$1	\$44		\$104
Schedule 47	\$2,711	\$46	\$1,535		\$4,292	\$70	\$1	\$39		\$110
Schedule 49	\$4,498	\$137	\$4,562		\$9,196	\$116	\$4	\$117		\$237
Schedule 83	\$84,410	\$6,042	\$168,128		\$258,580	\$2,171	\$155	\$4,325		\$6,652
Schedule 85	\$61,282	\$5,312	\$153,171	\$9,599	\$229,363	\$1,576	\$137	\$3,940	\$237	\$5,890
Schedule 89	\$12,819	\$1,085	\$23,979	\$11,152	\$49,035	\$330	\$28	\$617	\$297	\$1,271
Schedule 90-P	\$10,339	\$2,682	\$91,944		\$104,965	\$266	\$69	\$2,365		\$2,700
Schedules 91/95	\$8,400	\$77	\$2,478		\$10,954	\$216	\$2	\$64		\$282
Schedule 92	\$70	\$4	\$128		\$202	\$2	\$0	\$3		\$5
TOTALS	\$716,879	\$37,196	\$1,031,821	\$20,751	\$1,806,646	\$18,441	\$957	\$26,543	\$534	\$46,474

Franchise Fee Revenue Requirement **\$46,474**

Schedules	Distribution MWh	Distribution mills/kWh	Transmission MWh	Transmission mills/kWh	Generation MWh	Generation mills/kWh	Schedule 129 MWh	Schedule 129 mills/kWh	Total COS mills/kWh	Total DA mills/kWh	Difference COS/DA mills/kWh
Schedule 7	7,568,918	1.50	7,568,918	0.06	7,568,918	1.66	0	0	3.22		
Schedule 15	15,774	4.03	15,774	0.04	15,774	1.26	0	0	5.33	4.03	1.30
Schedule 32	1,633,156	1.37	1,633,156	0.05	1,633,156	1.50	0	0	2.93	1.37	1.55
Schedule 38	31,475	1.89	31,475	0.04	31,475	1.39	0	0	3.32	1.89	1.43
Schedule 47	21,633	3.22	21,633	0.05	21,633	1.82	0	0	5.10		
Schedule 49	64,540	1.79	64,540	0.05	64,540	1.82	0	0	3.67	1.79	1.87
Schedule 83	2,884,961	0.75	2,884,961	0.05	2,884,961	1.50	0	0	2.31	0.75	1.55
Schedule 85-S	2,717,524	0.44	2,122,422	0.05	2,122,422	1.46	595,102	0.26	1.94	0.69	1.25
Schedule 89-S	13,482	0.21	0	0.06	0	1.36	13,482	0.26	1.63	0.46	1.16
Schedule 85-P	922,762	0.43	591,424	0.05	591,424	1.43	331,338	0.26	1.91	0.68	1.22
Schedule 89-P	1,362,209	0.20	401,176	0.06	401,176	1.33	961,033	0.26	1.60	0.46	1.14
Schedule 89-T	249,930	0.20	62,759	0.06	62,759	1.31	187,171	0.26	1.57	0.46	1.12
Schedule 90-P	1,861,066	0.14	1,861,066	0.04	1,861,066	1.27	0	0	1.45	0.14	1.31
Schedule 91/95	50,583	4.27	50,583	0.04	50,583	1.26	0	0	5.57	4.27	1.30
Schedule 92	2,496	0.73	2,496	0.04	2,496	1.31	0	0	2.08	0.73	1.36
TOTALS	19,400,511		17,312,384		17,312,384		2,088,126				

Revenues

Schedules	MWh	Fran. Fee mills/kWh	Fran. Fee Revenues
Schedule 7	7,568,918	3.22	\$24,358
Schedule 15	15,774	5.33	\$84
Schedule 32	1,633,156	2.93	\$4,781
Schedule 38	31,475	3.32	\$104
Schedule 47	21,633	5.10	\$110
Schedule 49	64,540	3.67	\$237
Schedule 83	2,884,961	2.31	\$6,652
Schedule 85-S	2,122,422	1.94	\$4,125
Schedule 485-S	595,102	0.69	\$411
Schedule 89-S	0	1.63	\$0
Schedule 489-S	13,482	0.46	\$6
Schedule 85-P	591,424	1.91	\$1,128
Schedule 485-P	331,338	0.68	\$226
Schedule 89-P	401,176	1.60	\$640
Schedule 489-P	961,033	0.46	\$441
Schedule 89-T	62,759	1.57	\$99
Schedule 489-T	187,171	0.46	\$85
Schedule 90-P	1,861,066	1.45	\$2,700
Schedule 91/95	50,583	5.57	\$282
Schedule 92	2,496	2.08	\$5
TOTALS	19,400,511		\$46,474

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF TROJAN DECOMMISSIONING COSTS
2019**

Schedules	Cycle Generation Revenues	Allocation Percent	Class Revenue Requirement	MWh	mills/kWh
Schedule 7	\$488,267,031	42.70%	\$811	7,568,918	0.11
Schedule 15	\$772,611	0.07%	\$1	15,774	0.08
Schedule 32	\$95,408,956	8.34%	\$159	1,633,156	0.10
Schedule 38	\$1,694,756	0.15%	\$3	31,475	0.09
Schedule 47	\$1,534,677	0.13%	\$3	21,633	0.12
Schedule 49	\$4,561,710	0.40%	\$8	64,540	0.12
Schedule 83	\$168,123,769	14.70%	\$279	2,884,961	0.10
Schedule 85-S	\$153,867,681	13.46%	\$256	2,717,524	0.09
Schedule 89-S	\$720,594	0.06%	\$1	13,482	0.09
Schedule 85-P	\$50,980,149	4.46%	\$85	922,762	0.09
Schedule 89-P	\$70,178,639	6.14%	\$117	1,362,209	0.09
Schedule 89-T	\$12,770,742	1.12%	\$21	249,930	0.08
Schedule 90-P	\$91,935,240	8.04%	\$153	1,861,066	0.08
Schedule 91/95	\$2,477,555	0.22%	\$4	50,583	0.08
Schedule 92	\$127,521	0.01%	\$0	2,496	0.08
TOTAL	\$1,143,421,631		\$1,900	19,400,511	
		TARGET	\$1,900		

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF SCHEDULE 129 TRANSITION ADJUSTMENT
2019**

Schedules	Cycle Energy	Percent	Allocations (\$000)	mills/kWh
Schedule 85-S	2,717,524	38.1%	\$0	0.00
Schedule 89-S	13,482	0.2%	\$0	0.00
Schedule 85-P	922,762	12.9%	\$0	0.00
Schedule 89-P	1,362,209	19.1%	\$0	0.00
Schedule 90-P	1,861,066	26.1%	\$0	0.00
Schedule 89-T	249,930	3.5%	\$0	0.00
TOTAL	7,126,974	100.00%	\$0	
		TARGET	\$0	0.00

ALLOCATION OF TRANSITION ADJUSTMENT FOR POST 2013 VINTAGE CUSTOMERS

Schedules	Cycle Energy	Percent	Allocations (\$000)	mills/kWh
Schedule 7	7,568,918	39.0%	(\$8,096)	(1.07)
Schedule 15	15,774	0.1%	(\$17)	(1.07)
Schedule 32	1,633,156	8.4%	(\$1,747)	(1.07)
Schedule 38	31,475	0.2%	(\$34)	(1.07)
Schedule 47	21,633	0.1%	(\$23)	(1.07)
Schedule 49	64,540	0.3%	(\$69)	(1.07)
Schedule 83	2,884,961	14.9%	(\$3,086)	(1.07)
Schedule 85-S	2,717,524	14.0%	(\$2,907)	(1.07)
Schedule 89-S	13,482	0.1%	(\$14)	(1.07)
Schedule 85-P	922,762	4.8%	(\$987)	(1.07)
Schedule 89	1,362,209	7.0%	(\$1,457)	(1.07)
Schedule 89-T	249,930	1.3%	(\$267)	(1.07)
Schedule 90-P	1,861,066	9.6%	(\$1,991)	(1.07)
Schedules 91/95	50,583	0.3%	(\$54)	(1.07)
Schedule 92	2,496	0.0%	(\$3)	(1.07)
TOTAL	19,400,511	100.00%	(\$20,751)	(1.07)
		TARGET	(\$20,751)	

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2019**

Grouping	Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7 Residential					
CUSTOMER	Meters				
	Single-Phase Customers	782,966 Customers	\$19.43	\$15,213	\$21,132
	Three-Phase Customers	15 Customers	\$58.07	\$1	\$1
	Transformer & Service				
	Single-Phase Customers	782,966 Customers	\$83.97	\$65,746	\$91,324
	Three-Phase Customers	15 Customers	\$140.51	\$2	\$3
FACILITIES	Feeder Backbone				
	Single-Phase Customers	2,034,751 kW, rateclass peak	\$20.41	\$41,529	\$57,687
	Three-Phase Customers	39 kW, rateclass peak	\$20.41	\$1	\$1
	Feeder Local Facilities				
	Single-Phase Customers	3,131,864 Design Demand	\$20.10	\$62,950	\$87,442
	Three-Phase Customers	60 Design Demand	\$20.10	\$1	\$2
DEMAND	Subtransmission	2,064,294 kW, rateclass peak	\$12.15	\$25,081	\$34,839
	Substation	2,034,790 kW, rateclass peak	\$12.24	\$24,906	\$34,596
SUBTOTAL				\$235,430	\$327,026
Schedule 15 Residential Outdoor Area Lighting					
CUSTOMER	Customer Service	9,847 Lights	\$3.89	\$38	\$53
	Transformer & Service	9,847 Lights	\$2.89	\$28	\$40
FACILITIES	Feeder Backbone	831 kW, rateclass peak	\$21.38	\$18	\$25
	Feeder Local Facilities	831 Design Demand	\$20.78	\$17	\$24
DEMAND	Subtransmission	843 kW, rateclass peak	\$12.15	\$10	\$14
	Substation	831 kW, rateclass peak	\$12.24	\$10	\$14
FIXED	Luminaires & Poles				\$337
SUBTOTAL				\$122	\$506
Schedule 15 Commercial Outdoor Area Lighting					
CUSTOMER	Customer Service	10,600 Lights	\$3.89	\$41	\$57
	Transformer & Service	10,600 Lights	\$2.89	\$31	\$43
FACILITIES	Feeder Backbone	3,187 kW, rateclass peak	\$21.38	\$68	\$95
	Feeder Local Facilities	3,187 Design Demand	\$20.78	\$66	\$92
DEMAND	Subtransmission	3,233 kW, rateclass peak	\$12.15	\$39	\$55
	Substation	3,187 kW, rateclass peak	\$12.24	\$39	\$54
FIXED	Luminaires & Poles				\$1,291
SUBTOTAL				\$284	\$1,686
Schedule 15 Outdoor Area Lighting					
CUSTOMER	Customer Service				\$110
	Transformer & Service				\$82
FACILITIES	Feeder Backbone				\$119
	Feeder Local Facilities				\$116
DEMAND	Subtransmission				\$69
	Substation				\$68
FIXED	Luminaires & Poles				\$1,628
SUBTOTAL					\$2,192

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2019**

Grouping		Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 32 Small Non-residential General Service						
CUSTOMER	Meters					
	Single-Phase Customers	56,001	Customers	\$17.23	\$965	\$1,340
	Three-Phase Customers	37,764	Customers	\$72.71	\$2,746	\$3,814
	Transformer & Service					
	Single-Phase Customers	56,001	Customers	\$150.15	\$8,409	\$11,680
	Three-Phase Customers	37,764	Customers	\$236.86	\$8,945	\$12,425
FACILITIES	Feeder Backbone					
	Single-Phase Customers	125,011	kW, rateclass peak	\$24.70	\$3,088	\$4,289
	Three-Phase Customers	199,163	kW, rateclass peak	\$24.70	\$4,919	\$6,833
	Feeder Local Facilities					
	Single-Phase Customers	268,803	Design Demand	\$27.24	\$7,322	\$10,171
	Three-Phase Customers	438,067	Design Demand	\$12.94	\$5,669	\$7,874
DEMAND	Subtransmission	328,875	kW, rateclass peak	\$12.15	\$3,996	\$5,550
	Substation	324,174	kW, rateclass peak	\$12.24	\$3,968	\$5,512
SUBTOTAL					\$50,026	\$69,489
Schedule 38 General Service						
CUSTOMER	Meters					
	Single-Phase Customers	55	Customers	\$58.07	\$3	\$4
	Three-Phase Customers	328	Customers	\$130.80	\$43	\$60
	Transformer & Service					
	Single-Phase Customers	55	Customers	\$196.72	\$11	\$15
	Three-Phase Customers	328	Customers	\$581.00	\$191	\$265
FACILITIES	Feeder Backbone					
	Single-Phase Customers	740	kW, rateclass peak	\$24.54	\$18	\$25
	Three-Phase Customers	13,029	kW, rateclass peak	\$24.54	\$320	\$444
	Feeder Local Facilities					
	Single-Phase Customers	2,629	Design Demand	\$26.38	\$69	\$96
	Three-Phase Customers	37,809	Design Demand	\$13.09	\$495	\$687
DEMAND	Subtransmission	13,969	kW, rateclass peak	\$12.15	\$170	\$236
	Substation	13,769	kW, rateclass peak	\$12.24	\$169	\$234
SUBTOTAL					\$1,488	\$2,067
Schedule 47 Irrigation & Drainage Service - < 30 kW						
CUSTOMER	Meters					
	Single-Phase Customers	224	Customers	\$57.73	\$13	\$18
	Three-Phase Customers	2,837	Customers	\$86.54	\$246	\$341
	Transformer & Service					
	Single-Phase Customers	224	Customers	\$10.77	\$2	\$3
	Three-Phase Customers	2,837	Customers	\$21.43	\$61	\$84
FACILITIES	Feeder Backbone					
	Single-Phase Customers	500	kW, rateclass peak	\$24.70	\$12	\$17
	Three-Phase Customers	12,591	kW, rateclass peak	\$24.70	\$311	\$432
	Feeder Local Facilities					
	Single-Phase Customers	2,330	Design Demand	\$23.90	\$56	\$77
	Three-Phase Customers	44,541	Design Demand	\$11.35	\$506	\$702
DEMAND	Subtransmission	13,280	kW, rateclass peak	\$12.15	\$161	\$224
	Substation	13,091	kW, rateclass peak	\$12.24	\$160	\$223
SUBTOTAL					\$1,528	\$2,122

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2019**

Grouping	Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 49 Irrigation & Drainage Service - > 30 kW					
CUSTOMER	Meters				
	Single-Phase Customers	6 Customers	\$58.07	\$0	\$0
	Three-Phase Customers	1,268 Customers	\$71.36	\$90	\$126
	Transformer & Service				
	Single-Phase Customers	6 Customers	\$144.93	\$1	\$1
	Three-Phase Customers	1,268 Customers	\$144.93	\$184	\$255
FACILITIES	Feeder Backbone				
	Single-Phase Customers	171 kW, rateclass peak	\$24.54	\$4	\$6
	Three-Phase Customers	36,085 kW, rateclass peak	\$24.54	\$886	\$1,230
	Feeder Local Facilities				
	Single-Phase Customers	223 Design Demand	\$24.34	\$5	\$8
	Three-Phase Customers	71,135 Design Demand	\$12.08	\$859	\$1,194
DEMAND	Subtransmission	36,782 kW, rateclass peak	\$12.15	\$447	\$621
	Substation	36,256 kW, rateclass peak	\$12.24	\$444	\$616
SUBTOTAL				\$2,921	\$4,057
Schedule 83 General Service (31-200 kW)					
CUSTOMER	Meters				
	Single-Phase Customers	683 Customers	\$57.73	\$39	\$55
	Three-Phase Customers	10,846 Customers	\$129.44	\$1,404	\$1,950
	Transformer & Service				
	Single-Phase Customers	683 Customers	\$388.14	\$265	\$368
	Three-Phase Customers	10,846 Customers	\$1,050.66	\$11,395	\$15,829
FACILITIES	Feeder Backbone				
	Single-Phase Customers	18,341 kW, rateclass peak	\$24.54	\$450	\$625
	Three-Phase Customers	593,032 kW, rateclass peak	\$24.54	\$14,553	\$20,215
	Feeder Local Facilities				
	Single-Phase Customers	27,860 Design Demand	\$26.38	\$735	\$1,021
	Three-Phase Customers	900,218 Design Demand	\$13.09	\$11,784	\$16,368
DEMAND	Subtransmission	620,238 kW, rateclass peak	\$12.15	\$7,536	\$10,468
	Substation	611,373 kW, rateclass peak	\$12.24	\$7,483	\$10,395
SUBTOTAL				\$55,645	\$77,294
Schedule 85 General Service (201-4,000 kW)					
CUSTOMER	Meters				
	Secondary Customers	1,399 Customers	\$162.33	\$227	\$315
	Primary Customers	236 Customers	\$1,805.54	\$427	\$593
	Transformer & Service				
	Secondary Customers	1,399 Customers	\$2,419.89	\$3,386	\$4,703
	Primary Customers	236 Customers	\$0.00	\$0	\$0
FACILITIES	Feeder Backbone	674,496 kW, rateclass peak	\$19.54	\$13,180	\$18,307
	Feeder Local Facilities	905,530 Design Demand	\$7.12	\$6,447	\$8,956
DEMAND	Subtransmission	684,276 kW, rateclass peak	\$12.15	\$8,314	\$11,549
	Substation	674,496 kW, rateclass peak	\$12.24	\$8,256	\$11,468
SUBTOTAL				\$40,236	\$55,890

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2019**

Grouping	Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 89 General Service (4,000 plus kW)					
CUSTOMER	Meters				
	Secondary Meters	1 Customers	\$175.85	\$0	\$0
	Primary Meters	26 Customers	\$1,809.13	\$47	\$65
	Substation Meters	8 Customers	\$19,774.56	\$158	\$220
	Transformer & Service				
	Secondary Customers	1 Customers	\$14,124.26	\$14	\$20
	Primary Customers	26 Customers	\$0.00	\$0	\$0
FACILITIES	Feeder Backbone				
	Secondary Customers	1 Customers	\$76,614.00	\$77	\$106
	Primary Customers	26 Customers	\$76,614.00	\$1,992	\$2,767
	Subtransmission 115 kV Feeder	8 Customers	\$77,041.00	\$616	\$856
DEMAND	Subtransmission	237,755 kW, rateclass peak	\$12.15	\$2,889	\$4,013
	Substation (Sec. & Prim. Only)	198,570 kW, rateclass peak	\$12.24	\$2,430	\$3,376
SUBTOTAL				\$8,224	\$11,423
Schedule 90 Primary Voltage Service					
CUSTOMER	Meters				
	Primary Meters	4 Customers	\$1,805.54	\$7	\$10
FACILITIES	Feeder Backbone				
	Primary Customers	4 Customers	\$365,087.00	\$1,460	\$2,029
DEMAND	Subtransmission	250,175 kW, rateclass peak	\$12.15	\$3,040	\$4,222
	Substation (Sec. & Prim. Only)	246,600 kW, rateclass peak	\$12.24	\$3,018	\$4,193
SUBTOTAL				\$7,526	\$10,453
Schedules 91 & 95 Streetlighting & Highway Lighting					
CUSTOMER	Customer Service	155,807 Lights	\$3.89	\$605	\$841
	Transformer & Service	155,807 Lights	\$2.89	\$450	\$625
FACILITIES	Feeder Backbone	12,884 kW, rateclass peak	\$21.38	\$275	\$383
	Feeder Local Facilities	12,884 Design Demand	\$23.11	\$298	\$414
DEMAND	Subtransmission	13,071 kW, rateclass peak	\$12.15	\$159	\$221
	Substation	12,884 kW, rateclass peak	\$12.24	\$158	\$219
FIXED	Luminaires & Poles				\$5,294
SUBTOTAL				\$1,945	\$7,997

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2019**

Grouping	Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 92 Traffic Signals					
CUSTOMER	Transformer & Service	1,248 Intersections	\$9.19	\$11	\$16
FACILITIES	Feeder Backbone	294 kW, rateclass peak	\$21.38	\$6	\$9
	Feeder Local Facilities	294 Design Demand	\$10.44	\$3	\$4
DEMAND	Subtransmission	298 kW, rateclass peak	\$12.15	\$4	\$5
	Substation	294 kW, rateclass peak	\$12.24	\$4	\$5
SUBTOTAL				\$28	\$39
Summary					
CUSTOMER	Meters	894,667 Customers		\$21,630	\$30,045
	Transformer & Service	Customers		\$99,131	\$137,699
	Customer Service	176,254 Lights		\$685	\$951
FACILITIES	Feeder Backbone	3,725,145 kW, rateclass peak		\$83,784	\$116,380
	Feeder Local Facilities	5,848,265 Design Demand		\$97,283	\$135,132
DEMAND	Subtransmission	4,267,089 kW, rateclass peak		\$51,845	\$72,016
	Substation	4,170,315 kW rateclass peak		\$51,045	\$70,904
FIXED	Luminaires & Poles				\$6,922
TOTALS				\$405,403	\$570,049
				TARGET	\$570,049
				EQUAL PERCENT	138.9%

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF UNCOLLECTIBLES
2019**

Grouping	Marginal Cost Allocation Percent	Class Revenue Requirement
Schedule 7		
Single Phase	92.60%	\$5,534
Three Phase	0.00%	\$0
Schedule 15		
Residential	0.47%	\$28
Commercial	0.34%	\$20
Schedule 32		
Single Phase	2.81%	\$168
Three Phase	1.89%	\$113
Schedule 38		
Single Phase	0.00%	\$0
Three Phase	0.00%	\$0
Schedule 47		
Single Phase	0.01%	\$0
Three Phase	0.09%	\$5
Schedule 49		
Single Phase	0.00%	\$0
Three Phase	0.09%	\$6
Schedule 83		
Single Phase	0.07%	\$4
Three Phase	1.05%	\$63
Schedule 85		
Secondary	0.50%	\$30
Primary	0.08%	\$5
Schedule 89		
Secondary	0.00%	\$0
Primary	0.00%	\$0
Subtransmission	0.00%	\$0
Schedule 90-P	0.00%	\$0
Schedules 91/95	0.00%	\$0
Schedule 92	0.00%	\$0
TOTAL	100.00%	\$5,977
	TARGET	\$5,977

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF METERING REVENUE REQUIREMENT
2019**

Grouping	Customers	Marginal Unit Cost \$ per Customer	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7				
Single Phase	782,966	\$0.31	\$243	\$6,796
Three Phase	15	\$0.31	\$0	\$0
Schedule 15				
Residential	5,491	\$0.00	\$0	\$0
Commercial	3,995	\$0.00	\$0	\$0
Schedule 32				
Single Phase	56,001	\$0.69	\$39	\$1,082
Three Phase	37,764	\$0.69	\$26	\$730
Schedule 38				
Single Phase	55	\$11.27	\$1	\$17
Three Phase	328	\$11.27	\$4	\$103
Schedule 47				
Single Phase	224	\$1.05	\$0	\$7
Three Phase	2,837	\$1.05	\$3	\$83
Schedule 49				
Single Phase	6	\$1.18	\$0	\$0
Three Phase	1,268	\$1.18	\$1	\$42
Schedule 83				
Single Phase	683	\$2.57	\$2	\$49
Three Phase	10,846	\$2.57	\$28	\$780
Schedule 85				
Secondary	1,399	\$11.93	\$17	\$467
Primary	236	\$11.93	\$3	\$79
Schedule 89				
Secondary	1	\$1.48	\$0	\$0
Primary	26	\$1.48	\$0	\$1
Subtransmission	8	\$1.48	\$0	\$0
Schedule 90-P				
	4	\$0.21	\$0	\$0
Schedules 91/95				
	203	\$0.00	\$0	\$0
Schedule 92				
	16	\$0.00	\$0	\$0
TOTAL	904,372		\$366	\$10,238
		EQUAL PERCENT	TARGET	\$10,238 2800%

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF BILLING REVENUE REQUIREMENT
2019**

Grouping	Customers	Marginal Unit Cost \$ per Customer	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7				
Single Phase	782,966	\$39.01	\$30,544	\$60,633
Three Phase	15	\$39.01	\$1	\$1
Schedule 15				
Residential	5,491	\$6.28	\$34	\$68
Commercial	3,995	\$8.06	\$32	\$64
Schedule 32				
Single Phase	56,001	\$33.09	\$1,853	\$3,679
Three Phase	37,764	\$33.09	\$1,250	\$2,481
Schedule 38				
Single Phase	55	\$41.14	\$2	\$4
Three Phase	328	\$41.14	\$13	\$27
Schedule 47				
Single Phase	224	\$33.15	\$7	\$15
Three Phase	2,837	\$33.15	\$94	\$187
Schedule 49				
Single Phase	6	\$36.48	\$0	\$0
Three Phase	1,268	\$36.48	\$46	\$92
Schedule 83				
Single Phase	683	\$41.59	\$28	\$56
Three Phase	10,846	\$41.59	\$451	\$895
Schedule 85				
Secondary	1,399	\$83.38	\$117	\$232
Primary	236	\$83.38	\$20	\$39
Schedule 89				
Secondary	1	\$181.76	\$0	\$0
Primary	26	\$181.76	\$5	\$9
Subtransmission	8	\$181.76	\$1	\$3
Schedule 90-P	4	\$17.96	\$0	\$0
Schedules 91/95	203	\$984.82	\$200	\$397
Schedule 92	16	\$981.15	\$16	\$31
TOTAL	904,372		\$34,715	\$68,915
			TARGET	\$68,915
		EQUAL PERCENT		199%

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF CONSUMER REVENUE REQUIREMENT
2019**

Grouping	Customers	Marginal Unit Cost \$ per Customer	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7				
Single Phase	782,966	\$24.05	\$18,830	\$39,625
Three Phase	15	\$24.05	\$0	\$1
Schedule 15				
Residential	5,491	\$4.95	\$27	\$57
Commercial	3,995	\$4.95	\$20	\$42
Schedule 32				
Single Phase	56,001	\$46.82	\$2,622	\$5,517
Three Phase	37,764	\$46.82	\$1,768	\$3,721
Schedule 38				
Single Phase	55	\$109.69	\$6	\$13
Three Phase	328	\$109.69	\$36	\$76
Schedule 47				
Single Phase	224	\$44.91	\$10	\$21
Three Phase	2,837	\$44.91	\$127	\$268
Schedule 49				
Single Phase	6	\$109.48	\$1	\$1
Three Phase	1,268	\$109.48	\$139	\$292
Schedule 83				
Single Phase	683	\$205.64	\$140	\$295
Three Phase	10,846	\$205.64	\$2,230	\$4,693
Schedule 85				
Secondary	1,399	\$1,220.21	\$1,707	\$3,592
Primary	236	\$1,220.21	\$288	\$607
Schedule 89				
Secondary	1	\$9,411.51	\$9	\$20
Primary	26	\$9,411.51	\$245	\$515
Subtransmission	8	\$9,411.51	\$75	\$158
Schedule 90-P	4	\$33,521.59	\$134	\$282
Schedule 91/95	203	\$4.95	\$1	\$2
Schedule 92	16	\$4.95	\$0	\$0
TOTAL	904,372		\$28,418	\$59,800
			TARGET	\$59,800
		EQUAL PERCENT		210%

PORTLAND GENERA ELECTRIC
Suballocation of Schedule 89/90 Costs Based on Billing Demand

Initial Cost Allocations

Cost Category	Sch 89	Sch 90	Totals
Transmission	\$644	\$2,568	\$3,211
Ancillary	\$109	\$447	\$556
Subtransmission	\$4,013	\$4,222	\$8,235
Substations	<u>\$3,376</u>	<u>\$4,193</u>	<u>\$7,569</u>
Totals	\$8,142	\$11,429	\$19,571

Billing Demand

Cost Category	Sch 89	Sch 90	Totals
Transmission	1,093,010	2,701,624	3,794,634
Ancillary	1,093,010	2,701,624	3,794,634
Subtransmission	3,054,153	2,701,624	5,755,777
Substations	2,410,228	2,701,624	5,111,852

Reallocation of Costs

Cost Category	Sch 89	Sch 90	Totals
Transmission	\$925	\$2,286	\$3,211
Ancillary	\$160	\$396	\$556
Subtransmission	\$4,370	\$3,865	\$8,235
Substations	<u>\$3,569</u>	<u>\$4,000</u>	<u>\$7,569</u>
Totals	\$9,023	\$10,547	\$19,571

**PORTLAND GENERAL ELECTRIC
RATE DESIGN INPUT
SUMMARY - ALLOCATION OF 2019 COSTS TO RATE SCHEDULES (\$000)**

Grouping	Energy-Based Charges					Trans. & Related Charges			Distribution Demand & Facilities Charges					Subtotal	Total
	Power Supply	Franchise Fees	Trojan	Sch 129	Subtotal	Transmission	Ancillary Services	Subtotal	Substation	Subtrans.	Feeder Backbone	Feeder Facilities	Subtotal		
Schedule 7	\$488,086	\$24,358	\$811	(\$8,096)	\$17,073	\$16,084	\$2,282	\$18,367	\$34,596	\$34,839	\$57,688	\$87,443	\$214,566	\$738,092	\$963,143
Schedule 15	\$773	\$84	\$1	(\$17)	\$69	\$20	\$4	\$24	\$68	\$69	\$119	\$116	\$372	\$1,237	\$3,337
Schedule 32	\$95,345	\$4,781	\$159	(\$1,747)	\$3,192	\$2,921	\$445	\$3,367	\$5,512	\$5,550	\$11,122	\$18,045	\$40,229	\$142,133	\$188,882
Schedule 38	\$1,695	\$104	\$3	(\$34)	\$74	\$46	\$8	\$54	\$234	\$236	\$469	\$784	\$1,723	\$3,545	\$4,130
Schedule 47	\$1,535	\$110	\$3	(\$23)	\$90	\$39	\$7	\$46	\$223	\$224	\$449	\$780	\$1,675	\$3,346	\$4,379
Schedule 49	\$4,562	\$237	\$8	(\$69)	\$175	\$115	\$21	\$137	\$616	\$621	\$1,236	\$1,201	\$3,674	\$8,548	\$9,364
Schedule 83															
Secondary	\$168,128	\$6,652	\$279	(\$3,086)	\$3,845	\$5,255	\$787	\$6,042	\$10,395	\$10,468	\$20,840	\$17,389	\$59,092	\$237,107	\$262,146
Schedule 85															
Secondary		\$4,536	\$256	(\$2,907)	\$1,885									\$1,885	\$11,225
Primary		\$1,354	\$85	(\$987)	\$452									\$452	\$1,774
Class Total	\$153,171					\$4,602	\$710	\$5,312	\$11,468	\$11,549	\$18,307	\$8,956	\$50,279	\$208,762	\$208,762
Schedule 89															
Secondary		\$6	\$1	(\$14)	(\$7)						\$106		\$106	\$99	\$140
Primary		\$1,081	\$117	(\$1,457)	(\$259)						\$2,767		\$2,767	\$2,508	\$3,098
Subtransmission		\$184	\$21	(\$267)	(\$62)						\$856		\$856	\$794	\$1,176
Class Total	\$23,979					\$925	\$160	\$1,085	\$3,569	\$4,370			\$7,938	\$33,003	\$33,003
Schedule 90-P	\$91,944	\$2,700	\$153	(\$1,991)	\$862	\$2,286	\$396	\$2,682	\$4,000	\$3,865	\$2,029		\$9,894	\$105,382	\$105,675
Schedules 91 & 95	\$2,478	\$282	\$4	(\$54)	\$232	\$65	\$12	\$77	\$219	\$221	\$383	\$414	\$1,236	\$4,022	\$11,182
Schedules 92	\$128	\$5	\$0	(\$3)	\$3	\$3	\$1	\$4	\$5	\$5	\$9	\$4	\$23	\$157	\$205
Totals	\$1,031,821	\$46,474	\$1,900	(\$20,751)	\$27,624	\$32,364	\$4,832	\$37,196	\$70,904	\$72,016	\$116,380	\$135,132	\$394,432	\$1,491,072	\$1,811,619

**PORTLAND GENERAL ELECTRIC
RATE DESIGN INPUTS (CONTINUED)
SUMMARY - ALLOCATION OF 2019 COSTS TO RATE SCHEDULES (\$000)**

Grouping	Dist. Customer-Related TSM		Uncollectibles		Metering		Billing		Other Consumer		Subtotal		Fixed Costs	Subtotal	Total Cost Allocations
	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase			
Schedule 7	\$112,456	\$4	\$5,534	\$0	\$6,796	\$0	\$60,633	\$1	\$39,625	\$1	\$225,045	\$6		\$225,052	\$963,143
Schedule 15	\$192		\$49		\$0		\$132		\$99		\$472	\$0	\$1,628	\$2,100	\$3,337
Schedule 32	\$13,020	\$16,239	\$168	\$113	\$1,082	\$730	\$3,679	\$2,481	\$5,517	\$3,721	\$23,466	\$23,283		\$46,749	\$188,882
Schedule 38	\$19	\$324	\$0	\$0	\$17	\$103	\$4	\$27	\$13	\$76	\$54	\$530		\$584	\$4,130
Schedule 47	\$21	\$425	\$0	\$5	\$7	\$83	\$15	\$187	\$21	\$268	\$64	\$969		\$1,033	\$4,379
Schedule 49	\$2	\$381	\$0	\$6	\$0	\$42	\$0	\$92	\$1	\$292	\$4	\$812		\$816	\$9,364
Schedule 83 Secondary	\$423	\$17,779	\$4	\$63	\$49	\$780	\$56	\$895	\$295	\$4,693	\$828	\$24,211		\$25,039	\$262,146
Schedule 85 Secondary		\$5,018		\$30		\$467		\$232		\$3,592	\$0	\$9,339		\$9,339	
Primary		\$593		\$5		\$79		\$39		\$607	\$0	\$1,323		\$1,323	\$221,761
Schedule 89 Secondary		\$20		\$0		\$0		\$0		\$20	\$0	\$40		\$40	
Primary		\$65		\$0		\$1		\$9		\$515	\$0	\$591		\$591	
Subtransmission		\$220		\$0		\$0		\$3		\$158	\$0	\$381		\$381	\$37,416
Schedule 90-P		\$10		\$0		\$0		\$0		\$282	\$0	\$292		\$292	\$105,675
Schedules 91 & 95	\$1,466			\$0		\$0	\$397		\$2		\$1,865	\$0	\$5,294	\$7,160	\$11,182
Schedule 92		\$16		\$0		\$0		\$31		\$0	\$0	\$47		\$47	\$205
Totals	\$127,601	\$41,095	\$5,755	\$222	\$7,951	\$2,287	\$64,917	\$3,997	\$45,574	\$14,226	\$251,799	\$61,826	\$6,922	\$320,547	\$1,811,619

Reconcile to Ratespread

\$0.0

Lighting Additional O&M

	Lights	Intersections
Schedule 15R	9,847	
Schedule 15C	10,600	
Schedule 91 & 95	155,807	
Schedule 92		1,248
Lights	176,254	
Intersections		1,248

Lighting Services Test Period O&M

Lighting O&M	\$684,845
O&M per light	\$3.89

Design Demand per Rate Schedule

Grouping	Design	Average Customers	Design Demand	
Schedule 7 1-phase	4.0	782,966	3,131,864	
Schedule 7 3-phase	4.0	15	60	
Schedule 32 1-phase	4.8	56,001	268,803	
Schedule 32 3-phase	11.6	37,764	438,067	
Schedule 38 1-phase	47.8	55	2,629	
Schedule 38 3 phase	115.3	328	37,809	
Schedule 47 1-phase	10.4	224	2,330	
Schedule 47 3 phase	15.7	2,837	44,541	
Schedule 49 1-phase	37.2	6	223	
Schedule 49 3 phase	56.1	1,268	71,135	1.5172
Schedule 83 1-phase	40.8	683	27,860	11,131,043
Schedule 83 3 phase	83.0	10,846	900,218	334,315
Schedule 85	553.7	1,635	905,530	10,802,616
				11,136,931

Commercial LTE 30 kW Design		NCP
1-phase	4.8	2.2
3-phase	11.9	5.2
Commercial 31-200 kW		
1-phase	41.3	25.9
3-phase	81.1	51.6

2016 Sch 32 1-phase	12,242	(from 2016)
Schedule 7 per custome	10,102	(from 2016 WA)
Ratio	1.21	

Determination of 2019 Class Non-coincident Peaks (115 kV)

Grouping	Load Factor	MWH	Load Factor times Hrs/Year	Class Peak (MW)	
Schedule 7	43.84%	7,927,682	3,840	2,064.3	2,064,294
Schedule 15	46.27%	16,522	4,053	4.1	4,076
Schedule 32	59.33%	1,709,264	5,197	328.9	328,875
Schedule 38	26.96%	32,990	2,362	14.0	13,969
Schedule 47	19.51%	22,697	1,709	13.3	13,280
Schedule 49	20.97%	67,568	1,837	36.8	36,782
Schedule 83	55.66%	3,024,167	4,876	620.2	620,238
Schedule 85	63.33%	3,796,164	5,548	684.3	684,276
Schedule 89	79.70%	1,659,936	6,982	237.8	237,755
Schedule 90	87.63%	1,920,444	7,676	250.2	250,175
Schedules 91 & 95	46.27%	52,981	4,053	13.1	13,071
Schedule 92	100.00%	2,614	8,760	0.3	298
Totals		20,233,028		4,267	

Determination of 2019 Class Non-coincident Peaks (Primary)

Grouping	Load Factor	MWH	Load Factor times Hrs/Year	Class Peak (MW)	
Schedule 7	43.84%	7,814,373	3,840	2,034.8	2,034,790
Schedule 15	46.27%	16,286	4,053	4.0	4,018
Schedule 32	59.33%	1,684,834	5,197	324.2	324,174
Schedule 38	26.96%	32,519	2,362	13.8	13,769
Schedule 47	19.51%	22,373	1,709	13.1	13,091
Schedule 49	20.97%	66,602	1,837	36.3	36,256
Schedule 83	55.66%	2,980,943	4,876	611.4	611,373
Schedule 85	63.33%	3,741,906	5,548	674.5	674,496
Schedule 89	79.70%	1,386,364	6,982	198.6	198,570
Schedule 90	87.63%	1,892,995	7,676	246.6	246,600
Schedules 91 & 95	46.27%	52,223	4,053	12.9	12,884
Schedule 92	100.00%	2,577	8,760	0.3	294
Totals		19,693,995		4,170	

Schedule Rate Class Peak per Customer

Grouping	Class Peak (MW)	Average Accounts	Peak (kW)
Schedule 7	2,034.8	782,981	2.60
Schedule 32	324.2	93,765	3.50
Schedule 38	13.8	383	36.00
Schedule 47	13.1	3,061	4.30
Schedule 49	36.3	1,274	28.50
Schedule 83	611.4	11,529	53.00
Schedule 85	674.5	1,635	412.40
Schedule 89	198.6	35	5,673.40

Customer BD	NCP	NCP	
Schedule 7 1-phase	9,395,591	2,034.8	2.6
Schedule 7 3-phase	180	0.0	2.6
	9,395,771	2,034.79	

Energy	NCP	
Schedule 15R	3,264	0.8
Schedule 15C	12,510	3.2
	15,774	4.0

Customer BD	Energy/cust	NCP	NCP		
Schedule 32 1-phase	672,008	11,641	651,930	125.0	2.2
Schedule 32 3-phase	453,173	27,503	1,038,628	199.2	5.3
	1,125,181		1,690,558	324.17	

Customer BD	Energy/cust	NCP	NCP		
Schedule 38 1-phase	660	30,830	1,696	0.7	13.5
Schedule 38 3-phase	3,935	91,056	29,859	13.0	39.7
	4,595		31,554	13.77	

Customer BD	Energy/cust	NCP	NCP		
Schedule 47 1-phase	2,688	3,771	845	0.5	2.2
Schedule 47 3-phase	34,044	7,504	21,288	12.6	4.4
	36,732		22,133	13.09	

Customer BD	Energy/cust	NCP	NCP		
Schedule 49 1-phase	72	50,754	305	0.2	28.5
Schedule 49 3-phase	15,216	50,754	64,356	36.1	28.5
	15,288		64,660	36.26	

Customer BD	Energy/cust	NCP	NCP		
Schedule 83 1-phase	8,194	130,301	88,974	18.3	26.9
Schedule 83 3-phase	130,152	265,250	2,876,897	593.0	54.7
	138,346		2,965,871	611.37	

PORTLAND GENERAL ELECTRIC

2019 Projection of Schedule 485/489 Loads & Schedule 129 Revenues

Schedules & Vintages	Meter MWa	Cycle Meter MWH	Schedule 129 mills/kWh	Schedule 129 Revenues (\$000)
Schedule 485-S V2003	1.3	11,734	0.00	\$0
Schedule 485-S V2010	3.7	32,240	0.00	\$0
Schedule 485-S V2011	3.9	34,163	0.00	\$0
Schedule 485-S V2012	22.0	192,487	0.00	\$0
Schedule 485-S V2013	12.3	107,529	0.00	\$0
Schedule 485-S V2014	1.2	10,866	0.00	\$0
Schedule 485-S V2015	0.5	4,779	21.72	\$104
Schedule 485-S V2016	1.4	12,453	28.66	\$357
Schedule 485-S V2017	11.9	104,545	28.46	\$2,975
Schedule 485-S V2018	7.3	63,692	30.72	\$1,957
Schedule 485-S V2019	2.4	20,614	29.72	\$613
Schedule 489-S V2014	1.5	13,482	0.00	\$0
Schedule 485-P V2010	2.8	24,415	0.00	\$0
Schedule 485-P V2011	0.0	0	0.00	\$0
Schedule 485-P V2012	4.0	35,086	0.00	\$0
Schedule 485-P V2013	14.7	128,740	0.00	\$0
Schedule 485-P V2014	1.0	8,879	0.00	\$0
Schedule 485-P V2015	4.0	35,096	21.53	\$756
Schedule 485-P V2016	0.0	0	28.34	\$0
Schedule 485-P V2017	7.4	65,259	28.00	\$1,827
Schedule 485-P V2018	1.4	12,047	30.31	\$365
Schedule 485-P V2019	2.5	21,816	29.58	\$645
Schedule 489-P V2004	8.6	75,020	0.00	\$0
Schedule 489-P V2010	8.4	73,367	0.00	\$0
Schedule 489-P V2011	20.5	179,170	0.00	\$0
Schedule 489-P V2012	9.9	87,123	0.00	\$0
Schedule 489-P V2013	6.4	56,400	0.00	\$0
Schedule 489-P V2014	7.8	68,114	0.00	\$0
Schedule 489-P V2016	7.6	66,250	26.05	\$1,726
Schedule 489-P V2017	16.3	143,156	26.05	\$3,729
Schedule 489-P V2018	19.0	166,555	27.11	\$4,515
Schedule 489-P V2019	5.2	45,879	25.76	\$1,182
Schedule 489-T V2007	0.2	1,733	0.00	\$0
Schedule 489-T V2012	11.5	100,778	0.00	\$0
Schedule 489-T V2013	9.7	84,661	0.00	\$0
Total	238.4	2,088,126		\$20,751
Pre 2014 Amounts				\$0
Post 2014 Amounts				\$20,751
Schedule 485				\$9,599
Schedule 489				\$11,152

PORTLAND GENERAL ELECTRIC
Revenue Changes

Grouping	Basic Charge 1-phase	Basic Charge 3-phase	Vol. Trans & Related Revenues	Demand Transmission & Related Revenues	Demand Transmission & Related Revenues	Volumetric Dist. Revenues	Volumetric Dist. Revenues	Volumetric Dist. Revenues	Facilities Revenues
Schedule 7	\$0	\$0	\$2,563,925	\$0	\$0	\$14,758,428	\$7,610,125	\$4,545,978	\$0
Schedule 15 Residential	\$0	\$0	\$751	\$0	\$0	(\$5,712)	\$0	\$0	\$0
Subtotal	\$0	\$0	\$2,564,675	\$0	\$0	\$14,752,716	\$7,610,125	\$4,545,978	\$0
Schedule 15 Commercial	\$0	\$0	\$2,877	\$0	\$0	(\$21,893)	\$0	\$0	\$0
Schedule 32	\$2,016,024	\$2,719,038	\$489,947	\$0	\$0	\$813,628	\$1,234,426	\$0	\$0
Schedule 38	\$3,300	\$19,675	\$7,869	\$0	\$0	(\$10,597)	(\$8,918)	\$0	\$0
Schedule 47	\$2,688	\$34,044	\$6,706	\$0	\$0	\$16,805	\$31,438	\$0	\$0
Schedule 49	\$180	\$38,040	\$19,362	\$0	\$0	(\$24,195)	(\$57,771)	\$0	\$0
Schedule 83-S	\$40,970	\$650,760	\$0	\$1,118,866	\$0	\$0	\$0	\$0	(\$456,542)
Schedule 85-S	\$0	\$839,580	\$0	\$742,557	\$0	\$0	\$0	\$0	(\$615,692)
Schedule 89-S	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 91	\$0	\$0	\$6,184	\$0	\$0	\$59,960	\$0	\$0	\$0
Schedule 92	\$0	\$0	\$574	\$0	\$0	\$1,073	\$0	\$0	\$0
Schedule 95	\$0	\$0	\$5,450	\$0	\$0	\$52,840	\$0	\$0	\$0
Subtotal	\$2,063,162	\$4,301,137	\$538,969	\$1,861,423	\$0	\$887,622	\$1,199,175	\$0	(\$1,072,234)
Schedule 85-P	\$0	\$0	\$0	\$193,793	\$0	\$0	\$0	\$0	(\$17,984)
Schedule 89-P	\$0	\$15,840	\$0	\$106,664	\$0	\$0	\$0	\$0	(\$7,200)
Schedule 90-P	\$0	\$43,200	\$0	\$351,211	\$0	\$0	\$0	\$0	\$5,520
Subtotal	\$0	\$59,040	\$0	\$651,667	\$0	\$0	\$0	\$0	(\$19,664)
Schedule 89-T	\$0	\$7,200	\$0	\$35,428	\$0	\$0	\$0	\$0	(\$3,600)
Schedule 75-T	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 76R	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$7,200	\$0	\$35,428	\$0	\$0	\$0	\$0	(\$3,600)
Schedule 485-S V2003	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,056)
Schedule 485-S V2010	\$0	\$5,760	\$0	\$0	\$0	\$0	\$0	\$0	(\$4,224)
Schedule 485-S V2011	\$0	\$5,760	\$0	\$0	\$0	\$0	\$0	\$0	(\$4,224)
Schedule 485-S V2012	\$0	\$71,280	\$0	\$0	\$0	\$0	\$0	\$0	(\$52,272)
Schedule 485-S V2013	\$0	\$23,040	\$0	\$0	\$0	\$0	\$0	\$0	(\$16,896)
Schedule 485-S V2014	\$0	\$2,160	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,584)
Schedule 485-S V2015	\$0	\$720	\$0	\$0	\$0	\$0	\$0	\$0	(\$528)
Schedule 485-S V2016	\$0	\$5,040	\$0	\$0	\$0	\$0	\$0	\$0	(\$3,696)
Schedule 485-S V2017	\$0	\$27,360	\$0	\$0	\$0	\$0	\$0	\$0	(\$20,064)
Schedule 485-S V2018	\$0	\$18,720	\$0	\$0	\$0	\$0	\$0	\$0	(\$13,728)
Schedule 485-S V2019	\$0	\$6,480	\$0	\$0	\$0	\$0	\$0	\$0	(\$4,752)
Schedule 489-S V2014	\$0	\$2,160	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Subtotal	\$0	\$169,920	\$0	\$0	\$0	\$0	\$0	\$0	(\$123,744)
Schedule 485-P V2010	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$96)
Schedule 485-P V2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 485-P V2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$480)
Schedule 485-P V2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,688)
Schedule 485-P V2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$192)
Schedule 485-P V2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$192)
Schedule 485-P V2016	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 485-P V2017	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$768)
Schedule 485-P V2018	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$96)
Schedule 485-P V2019	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$192)
Schedule 489-P V2004	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Schedule 489-P V2010	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Schedule 489-P V2011	\$0	\$2,880	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,440)
Schedule 489-P V2012	\$0	\$4,320	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,160)
Schedule 489-P V2013	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Schedule 489-P V2014	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Schedule 489-P V2016	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Schedule 489-P V2017	\$0	\$2,880	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,440)
Schedule 489-P V2018	\$0	\$2,880	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,440)
Schedule 489-P V2019	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Subtotal	\$0	\$21,600	\$0	\$0	\$0	\$0	\$0	\$0	(\$15,504)
Schedule 489-T V2007 DAX	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,880)
Schedule 489-T V2012 DAX	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Schedule 489-T V2013 DAX	\$0	\$1,440	\$0	\$0	\$0	\$0	\$0	\$0	(\$720)
Subtotal	\$0	\$4,320	\$0	\$0	\$0	\$0	\$0	\$0	(\$4,320)
COS Totals	\$2,063,162	\$4,367,377	\$3,103,645	\$2,548,518	\$0	\$15,640,338	\$8,809,300	\$4,545,978	(\$1,095,498)
Market Totals	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Direct Access Totals	\$0	\$195,840	\$0	\$0	\$0	\$0	\$0	\$0	(\$143,568)
Totals	\$2,063,162	\$4,563,217	\$3,103,645	\$2,548,518	\$0	\$15,640,338	\$8,809,300	\$4,545,978	(\$1,239,066)

Facilities Revenues	Facilities Revenues	Distribution Demand Revenues	Distribution Demand Revenues	Explicit/ Implicit System Usage Revenues	Block 1 Energy Revenues	Block 2 Energy Revenues	Block 3 Energy Revenues	Flat Energy Revenues	On-peak Energy Revenues	Off-peak Energy Revenues	Wheeling Demand Revenues	Reactive Revenues
\$0	\$0	\$0	\$0	(\$529,824)	(\$7,512,174)	(\$3,873,623)	(\$2,313,944)	\$0	\$0	(\$126,972)	\$0	\$0
\$0	\$0	\$0	\$0	\$9,694	\$0	\$0	\$0	(\$5,092)	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$520,130)	(\$7,512,174)	(\$3,873,623)	(\$2,313,944)	\$0	\$0	(\$126,972)	\$0	\$0
\$0	\$0	\$0	\$0	\$37,155	\$0	\$0	\$0	(\$19,516)	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$81,658)	\$0	\$0	\$0	(\$2,580,386)	\$0	(\$58,612)	\$0	\$0
\$0	\$0	\$0	\$0	(\$4,721)	\$0	\$0	\$0	\$0	\$13,331	(\$60,698)	\$0	\$0
\$0	\$0	\$0	\$0	(\$433)	\$0	\$0	\$0	\$18,821	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$8,390)	\$0	\$0	\$0	\$48,405	\$0	\$0	\$0	\$0
(\$767,873)	\$0	(\$602,466)	\$0	\$2,798,413	\$0	\$0	\$0	\$0	(\$1,870,878)	(\$956,384)	\$0	\$0
(\$2,016,668)	\$0	(\$399,838)	\$0	(\$318,363)	\$0	\$0	\$0	\$0	(\$1,084,862)	(\$570,627)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$27,157)	\$0	\$0	\$0	(\$41,945)	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$275)	\$0	\$0	\$0	(\$2,321)	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	(\$23,932)	\$0	\$0	\$0	(\$36,964)	\$0	\$0	\$0	\$0
(\$2,784,541)	\$0	(\$1,002,305)	\$0	\$2,370,639	\$0	\$0	\$0	(\$2,613,906)	(\$2,942,409)	(\$1,646,322)	\$0	\$0
(\$511,287)	\$0	(\$104,350)	\$0	(\$88,714)	\$0	\$0	\$0	\$0	(\$288,163)	(\$167,233)	\$0	\$0
(\$21,600)	(\$28,809)	(\$57,434)	\$0	(\$52,153)	\$0	\$0	\$0	\$0	(\$310,629)	(\$210,900)	\$0	\$0
\$16,560	\$627,959	(\$189,114)	\$0	(\$279,160)	\$0	\$0	\$0	\$0	(\$1,605,956)	(\$1,185,643)	\$0	\$0
(\$516,327)	\$599,150	(\$350,898)	\$0	(\$420,027)	\$0	\$0	\$0	\$0	(\$2,204,749)	(\$1,563,776)	\$0	\$0
(\$10,800)	(\$6,954)	\$2,725	\$0	(\$7,531)	\$0	\$0	\$0	\$0	(\$52,484)	(\$27,847)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$10,800)	(\$6,954)	\$2,725	\$0	(\$7,531)	\$0	\$0	\$0	\$0	(\$52,484)	(\$27,847)	\$0	\$0
(\$11,288)	\$0	(\$1,578)	\$0	(\$1,525)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$30,613)	\$0	(\$4,198)	\$0	(\$4,191)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$37,349)	\$0	(\$4,937)	\$0	(\$4,441)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$155,849)	\$0	(\$29,208)	\$0	(\$25,023)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$97,542)	\$0	(\$14,386)	\$0	(\$13,979)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$10,827)	\$0	(\$1,573)	\$0	(\$1,413)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,674)	\$0	(\$737)	\$0	(\$621)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,561)	\$0	(\$1,564)	\$0	(\$1,619)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$81,843)	\$0	(\$13,481)	\$0	(\$13,591)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$56,497)	\$0	(\$5,684)	\$0	(\$8,280)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$14,790)	\$0	(\$2,748)	\$0	(\$2,680)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$2,470)	(\$2,997)	\$0	(\$1,213)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$507,992)	(\$2,470)	(\$83,091)	\$0	(\$78,577)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$15,561)	\$0	(\$3,098)	\$0	(\$3,174)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$21,935)	\$0	(\$5,353)	\$0	(\$4,561)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$69,125)	\$0	(\$18,892)	\$0	(\$16,736)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$3,705)	\$0	(\$1,096)	\$0	(\$1,154)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$24,994)	\$0	(\$5,126)	\$0	(\$4,562)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$31,841)	\$0	(\$7,892)	\$0	(\$8,484)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$9,000)	\$0	(\$1,572)	\$0	(\$1,566)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$23,538)	\$0	(\$4,155)	\$0	(\$2,836)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$5,594)	(\$8,981)	\$0	(\$7,502)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$6,377)	(\$9,947)	\$0	(\$7,337)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,320)	(\$11,419)	(\$18,452)	\$0	(\$17,917)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$6,480)	(\$3,290)	(\$11,900)	\$0	(\$8,712)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$2,996)	(\$6,268)	\$0	(\$5,640)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$3,834)	(\$7,208)	\$0	(\$6,811)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$3,066)	(\$6,889)	\$0	(\$6,625)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,320)	(\$9,413)	(\$16,014)	\$0	(\$14,316)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,320)	(\$10,707)	(\$17,735)	\$0	(\$16,655)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$1,611)	(\$4,891)	\$0	(\$4,588)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$232,099)	(\$58,307)	(\$155,468)	\$0	(\$139,177)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$1)	\$0	\$107	\$0	(\$156)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$9,873)	\$1,623	\$0	(\$9,070)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$2,160)	(\$10,105)	\$1,984	\$0	(\$7,619)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,321)	(\$19,977)	\$3,714	\$0	(\$16,845)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$3,311,668)	\$592,195	(\$1,350,477)	\$0	\$1,422,951	(\$7,512,174)	(\$3,873,623)	(\$2,313,944)	(\$2,618,998)	(\$5,199,642)	(\$3,364,917)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$744,412)	(\$80,755)	(\$234,845)	\$0	(\$234,599)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$4,056,080)	\$511,440	(\$1,585,322)	\$0	\$1,188,352	(\$7,512,174)	(\$3,873,623)	(\$2,313,944)	(\$2,618,998)	(\$5,199,642)	(\$3,364,917)	\$0	\$0

Fixed Revenues	Sch 146 Revenues	Sch 122a Revenues	Sch 122b Revenues	Sch 125 Revenues	Sch 145 Revenues	Sch 132 Revenues	Sch 143 Revenues	Sch 128 Block 1 Revenues	Sch 128 Block 2 Revenues	Sch 129 Revenues	Sch 102 Block 1 Revenues	Sch 102 Block 2 Revenues	Sch 102 Block 3 Revenues
\$0	\$0	\$0	\$0	\$0	(\$75,689)	(\$12,261,647)	\$151,378	\$0	\$0	\$0	\$3,901,350	\$2,011,716	(\$6,328,190)
(\$4,908)	\$0	\$0	\$0	\$0	(\$65)	(\$10,314)	\$65	\$0	\$0	\$0	(\$522)	\$0	\$0
(\$4,908)	\$0	\$0	\$0	\$0	(\$75,754)	(\$12,271,961)	\$151,444	\$0	\$0	\$0	\$3,900,828	\$2,011,716	(\$6,328,190)
(\$18,811)	\$0	\$0	\$0	\$0	(\$250)	(\$39,532)	\$250	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$16,332)	(\$2,384,407)	\$32,663	\$0	\$0	\$0	(\$39,853)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$315)	(\$56,340)	\$944	\$0	\$0	\$0	(\$104)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$58,843)	\$433	\$0	\$0	\$0	(\$3,133)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$123,272)	\$1,291	\$0	\$0	\$0	(\$8,697)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$28,850)	(\$3,231,157)	\$57,699	\$0	\$0	\$0	(\$36,149)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$21,224)	(\$2,037,525)	\$42,448	\$0	\$0	\$0	(\$5,309)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$55,292	\$0	\$0	\$0	\$0	(\$538)	(\$84,159)	\$538	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$25)	(\$2,546)	\$50	\$0	\$0	\$0	\$0	\$0	\$0
\$48,726	\$0	\$0	\$0	\$0	(\$474)	(\$74,165)	\$474	\$0	\$0	\$0	\$0	\$0	\$0
\$85,208	\$0	\$0	\$0	\$0	(\$68,007)	(\$8,091,946)	\$136,790	\$0	\$0	\$0	(\$93,244)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$11,828)	(\$526,368)	\$17,743	\$0	\$0	\$0	(\$702)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$8,024)	(\$300,882)	\$12,035	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$37,221)	(\$1,191,082)	\$37,221	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$57,073)	(\$2,018,332)	\$66,999	\$0	\$0	\$0	(\$702)	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$1,255)	(\$56,483)	\$1,883	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	(\$1,255)	(\$56,483)	\$1,883	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$2,699)	\$235	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$7,415)	\$645	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$7,858)	\$683	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$44,272)	\$3,850	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$24,732)	\$2,151	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$4,455)	\$217	\$0	\$0	(\$125,395)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$4,014)	\$96	\$0	\$0	(\$8,363)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$10,460)	\$249	\$0	\$0	(\$21,792)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$87,818)	\$2,091	\$0	\$0	(\$279,135)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$53,501)	\$1,274	\$0	\$0	(\$170,057)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$17,316)	\$412	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$5,528)	\$404	\$0	\$0	(\$65,118)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$270,067)	\$12,306	\$0	\$0	(\$669,861)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$4,151)	\$732	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$5,965)	\$1,053	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$21,886)	\$3,862	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$3,108)	\$266	\$0	\$0	(\$101,838)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$27,024)	\$1,053	\$0	\$0	(\$60,716)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$50,249)	\$1,958	\$0	\$0	(\$171,631)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$9,276)	\$361	\$0	\$0	(\$31,683)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$16,798)	\$654	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$8,252)	\$2,251	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$8,070)	\$2,201	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$19,709)	\$5,375	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$9,583)	\$2,614	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$6,204)	\$1,692	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$17,029)	\$2,043	\$0	\$0	(\$627,334)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$44,387)	\$1,987	\$0	\$0	(\$104,012)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$95,914)	\$4,295	\$0	\$0	(\$346,437)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$111,592)	\$4,997	\$0	\$0	(\$403,062)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$30,739)	\$1,376	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$489,936)	\$38,771	\$0	\$0	(\$1,846,715)	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$191)	\$52	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$11,086)	\$3,023	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$9,313)	\$2,540	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$20,589)	\$5,615	\$0	\$0	\$0	\$0	\$0	\$0
\$80,300	\$0	\$0	\$0	\$0	(\$202,090)	(\$22,438,723)	\$357,116	\$0	\$0	\$0	\$3,806,882	\$2,011,716	(\$6,328,190)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	(\$780,592)	\$56,693	\$0	\$0	(\$2,516,575)	\$0	\$0	\$0
\$80,300	\$0	\$0	\$0	\$0	(\$202,090)	(\$23,219,315)	\$413,809	\$0	\$0	(\$2,516,575)	\$3,806,882	\$2,011,716	(\$6,328,190)

Sch 105	Sch 109	Sch 110	Sch 112	Sch 123	Sch 126	Sch 135	Sch 137	Revenues Without	Revenues With	Supplemental	Total	Revenues Without
Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Supplementals	Sch 102	Revenues	Revenues	Sch 109
\$2,194,986	(\$7,266,161)	\$0	\$0	\$14,456,633	\$0	\$2,270,675	\$0	\$15,121,918	\$14,706,794	(\$944,948)	\$14,176,970	\$21,443,131
\$1,599	(\$4,668)	\$0	\$0	\$947	\$0	\$718	\$0	(\$5,267)	(\$5,789)	(\$12,240)	(\$17,507)	(\$12,839)
\$2,196,586	(\$7,270,829)	\$0	\$0	\$14,457,580	\$0	\$2,271,393	\$0	\$15,116,651	\$14,701,005	(\$957,188)	\$14,159,463	\$21,430,292
\$6,130	(\$17,889)	\$0	\$0	\$3,628	\$0	\$2,752	\$0	(\$20,187)	(\$20,187)	(\$44,911)	(\$65,098)	(\$47,208)
\$440,952	(\$1,517,232)	\$0	\$0	(\$1,125,688)	\$0	\$440,952	\$0	\$4,552,407	\$4,512,555	(\$4,168,944)	\$383,464	\$1,900,695
\$11,646	(\$34,526)	\$0	\$0	\$9,102	\$0	\$7,869	\$0	(\$40,759)	(\$40,863)	(\$61,724)	(\$102,483)	(\$67,957)
\$9,735	(\$33,748)	\$0	\$0	\$6,274	\$0	\$7,139	\$0	\$110,069	\$106,937	(\$72,144)	\$37,926	\$71,674
\$25,816	(\$67,518)	\$0	\$0	\$18,648	\$0	\$21,298	\$0	\$15,631	\$6,934	(\$132,434)	(\$116,803)	(\$49,285)
\$836,639	(\$2,494,481)	\$0	\$0	\$822,045	\$0	\$778,940	\$0	(\$45,135)	(\$81,284)	(\$3,295,314)	(\$3,340,449)	(\$845,968)
\$551,830	(\$1,464,661)	\$0	\$0	\$544,554	\$0	\$551,830	\$0	(\$3,423,914)	(\$3,429,222)	(\$1,838,058)	(\$5,261,972)	(\$3,797,310)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$15,057	(\$16,402)	\$0	\$0	\$7,798	\$0	\$5,915	\$0	\$52,335	\$52,335	(\$71,791)	(\$19,456)	(\$3,055)
\$649	(\$1,622)	\$0	\$0	\$724	\$0	\$599	\$0	(\$948)	(\$948)	(\$2,172)	(\$3,120)	(\$1,498)
\$13,269	(\$14,454)	\$0	\$0	\$6,872	\$0	\$5,213	\$0	\$46,120	\$46,120	(\$63,266)	(\$17,146)	(\$2,692)
\$1,911,723	(\$6,662,534)	\$0	\$0	\$293,955	\$0	\$1,822,507	\$0	\$1,245,620	\$1,152,375	(\$9,750,756)	(\$8,505,136)	(\$2,842,603)
\$153,770	(\$235,241)	\$0	\$0	\$87,461	\$0	\$153,770	\$0	(\$983,939)	(\$984,641)	(\$361,394)	(\$1,345,333)	(\$1,110,092)
\$96,282	\$0	\$0	\$0	\$0	\$0	\$92,271	\$0	(\$566,222)	(\$566,222)	(\$108,318)	(\$674,539)	(\$674,539)
\$428,045	\$0	\$0	\$0	\$0	\$0	\$428,045	\$0	(\$2,215,423)	(\$2,215,423)	(\$334,992)	(\$2,550,415)	(\$2,550,415)
\$678,098	(\$235,241)	\$0	\$0	\$87,461	\$0	\$674,086	\$0	(\$3,765,584)	(\$3,766,285)	(\$804,704)	(\$4,570,287)	(\$4,335,046)
\$15,062	\$0	\$0	\$0	\$0	\$0	\$14,435	\$0	(\$63,864)	(\$63,864)	(\$26,359)	(\$90,223)	(\$90,223)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$15,062	\$0	\$0	\$0	\$0	\$0	\$14,435	\$0	(\$63,864)	(\$63,864)	(\$26,359)	(\$90,223)	(\$90,223)
\$2,229	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$14,007)	(\$14,007)	(\$235)	(\$14,242)	(\$14,242)
\$6,126	(\$10,794)	\$0	\$0	\$830	\$0	\$0	\$0	(\$37,466)	(\$37,466)	(\$10,608)	(\$48,074)	(\$37,281)
\$6,491	(\$26,647)	\$0	\$0	\$2,050	\$0	\$0	\$0	(\$45,191)	(\$45,191)	(\$25,281)	(\$70,472)	(\$43,825)
\$36,573	(\$150,140)	\$0	\$0	\$11,549	\$0	\$0	\$0	(\$191,072)	(\$191,072)	(\$142,440)	(\$333,512)	(\$183,372)
\$20,431	(\$74,760)	\$0	\$0	\$5,751	\$0	\$0	\$0	(\$119,763)	(\$119,763)	(\$71,160)	(\$190,922)	(\$116,163)
\$2,065	(\$8,476)	\$0	\$0	\$652	\$0	\$0	\$0	(\$138,632)	(\$138,632)	(\$9,997)	(\$148,629)	(\$140,153)
\$908	(\$3,728)	\$0	\$0	\$287	\$0	\$0	\$0	(\$14,203)	(\$14,203)	(\$6,451)	(\$20,655)	(\$16,927)
\$2,366	(\$9,713)	\$0	\$0	\$747	\$0	\$0	\$0	(\$28,192)	(\$28,192)	(\$16,811)	(\$45,003)	(\$35,290)
\$19,864	(\$81,545)	\$0	\$0	\$6,273	\$0	\$0	\$0	(\$380,754)	(\$380,754)	(\$141,136)	(\$521,889)	(\$440,344)
\$12,101	(\$49,680)	\$0	\$0	\$3,822	\$0	\$0	\$0	(\$235,527)	(\$235,527)	(\$85,984)	(\$321,511)	(\$271,831)
\$3,917	(\$16,079)	\$0	\$0	\$1,237	\$0	\$0	\$0	(\$18,490)	(\$18,490)	(\$27,829)	(\$46,319)	(\$30,240)
\$2,292	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$72,519)	(\$72,519)	(\$2,831)	(\$75,350)	(\$75,350)
\$115,361	(\$431,561)	\$0	\$0	\$33,197	\$0	\$0	\$0	(\$1,295,815)	(\$1,295,815)	(\$540,763)	(\$1,836,578)	(\$1,405,017)
\$4,639	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$21,929)	(\$21,929)	\$1,221	(\$20,708)	(\$20,708)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$6,666	(\$6,559)	\$0	\$0	\$505	\$0	\$0	\$0	(\$32,329)	(\$32,329)	(\$4,300)	(\$36,629)	(\$30,070)
\$24,461	(\$63,032)	\$0	\$0	\$4,849	\$0	\$0	\$0	(\$107,442)	(\$107,442)	(\$51,746)	(\$159,188)	(\$96,156)
\$1,687	(\$6,925)	\$0	\$0	\$533	\$0	\$0	\$0	(\$107,986)	(\$107,986)	(\$7,547)	(\$115,533)	(\$108,607)
\$6,668	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$95,591)	(\$95,591)	(\$19,303)	(\$114,894)	(\$114,894)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$12,399	(\$12,663)	\$0	\$0	\$974	\$0	\$0	\$0	(\$220,615)	(\$220,615)	(\$47,581)	(\$268,197)	(\$255,534)
\$2,289	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$43,918)	(\$43,918)	(\$6,626)	(\$50,544)	(\$50,544)
\$4,145	(\$1)	\$0	\$0	\$0	\$0	\$0	\$0	(\$30,720)	(\$30,720)	(\$12,000)	(\$42,720)	(\$42,719)
\$12,753	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$23,517)	(\$23,517)	\$6,752	(\$16,765)	(\$16,765)
\$12,472	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$25,100)	(\$25,100)	\$6,603	(\$18,497)	(\$18,497)
\$30,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$50,668)	(\$50,668)	\$16,125	(\$34,543)	(\$34,543)
\$14,811	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$28,222)	(\$28,222)	\$7,841	(\$20,381)	(\$20,381)
\$9,588	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$16,344)	(\$16,344)	\$5,076	(\$11,268)	(\$11,268)
\$11,579	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$646,628)	(\$646,628)	(\$3,406)	(\$650,034)	(\$650,034)
\$11,262	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$122,033)	(\$122,033)	(\$31,137)	(\$153,170)	(\$153,170)
\$24,336	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$389,059)	(\$389,059)	(\$67,283)	(\$456,342)	(\$456,342)
\$28,314	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$451,039)	(\$451,039)	(\$78,281)	(\$529,320)	(\$529,320)
\$7,799	(\$1)	\$0	\$0	\$0	\$0	\$0	\$0	(\$12,530)	(\$12,530)	(\$21,565)	(\$34,094)	(\$34,093)
\$226,330	(\$89,181)	\$0	\$0	\$6,860	\$0	\$0	\$0	(\$2,425,670)	(\$2,425,670)	(\$307,156)	(\$2,732,826)	(\$2,643,645)
\$295	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,490)	(\$1,490)	\$156	(\$1,334)	(\$1,334)
\$17,132	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$18,759)	(\$18,759)	\$9,070	(\$9,689)	(\$9,689)
\$14,392	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$17,181)	(\$17,181)	\$7,619	(\$9,561)	(\$9,561)
\$31,819	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$37,429)	(\$37,429)	\$16,845	(\$20,584)	(\$20,584)
\$4,801,468	(\$13,168,603)	\$0	\$0	\$14,838,997	\$0	\$4,782,421	\$0	\$12,532,823	\$12,023,231	(\$11,539,007)	\$993,817	\$14,162,420
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$373,510	(\$520,741)	\$0	\$0	\$40,057	\$0	\$0	\$0	(\$3,758,914)	(\$3,758,914)	(\$831,074)	(\$4,589,988)	(\$4,069,246)
\$5,174,979	(\$13,689,345)	\$0	\$0	\$14,879,054	\$0	\$4,782,421	\$0	\$8,773,909	\$8,264,317	(\$12,370,080)	(\$3,596,171)	\$10,093,174

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X		
1																										
2	PORTLAND GENERAL ELECTRIC																									
3	Revenues at Proposed Prices																									
4																										
5																										
6																										
7	Grouping	Basic Charge 1-phase	Basic Charge 3-phase	Vol. Trans & Related Revenues	Demand Transmission & Related Revenues	Demand Transmission & Related Revenues	Volumetric Dist. Revenues	Volumetric Dist. Revenues	Volumetric Dist. Revenues	Facilities Revenues	Facilities Revenues	Facilities Revenues	Distribution Demand Revenues	Distribution Demand Revenues	Explicit/Implicit System Usage Revenues	Block 1 Energy Revenues	Block 2 Energy Revenues	Block 3 Energy Revenues	Flat Energy Revenues	On-peak Energy Revenues	Off-peak Energy Revenues					
8																										
9	Schedule 7	\$103,351,501	\$1,980	\$18,382,963	\$0	\$0	\$184,342,650	\$95,055,562	\$56,782,310	\$0	\$0	\$0	\$0	\$0	\$0	\$16,500,241	\$262,677,079	\$135,448,401	\$90,141,551	\$0	\$0				(\$126,972)	
10	Schedule 15 Residential	\$0	\$0	\$4,961	\$0	\$0	\$174,787	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34,076	\$0	\$0	\$0	\$159,871	\$0	\$0			\$0	
11	Subtotal	\$103,351,501	\$1,980	\$18,387,925	\$0	\$0	\$184,517,437	\$95,055,562	\$56,782,310	\$0	\$0	\$0	\$0	\$0	\$0	\$16,534,317	\$262,677,079	\$135,448,401	\$90,141,551	\$159,871	\$0				(\$126,972)	
12																										
13	Schedule 15 Commercial	\$0	\$0	\$19,015	\$0	\$0	\$669,911	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$130,604	\$0	\$0	\$0	\$612,740	\$0				\$0	
14	Schedule 32	\$13,440,160	\$13,142,017	\$3,364,301	\$0	\$0	\$57,739,059	\$2,674,590	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,054,001	\$0	\$0	\$0	\$95,408,956	\$0				(\$58,612)	
15	Schedule 38	\$19,800	\$118,050	\$53,822	\$0	\$0	\$1,163,394	\$979,082	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$73,651	\$0	\$0	\$0	\$1,037,433	\$657,324				\$0	
16	Schedule 47	\$49,728	\$629,814	\$46,079	\$0	\$0	\$805,133	\$1,224,233	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$89,779	\$0	\$0	\$0	\$1,534,677	\$0				\$0	
17	Schedule 49	\$1,620	\$342,360	\$136,825	\$0	\$0	\$1,491,343	\$2,651,095	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$174,904	\$0	\$0	\$0	\$4,561,710	\$0				\$0	
18	Schedule 83-S	\$286,790	\$5,856,840	\$0	\$6,713,196	\$0	\$0	\$0	\$0	\$14,526,330	\$23,734,254	\$0	\$22,463,385	\$0	\$20,165,880	\$0	\$0	\$0	\$0	\$120,938,883	\$47,184,886				\$0	
19	Schedule 85-S	\$0	\$7,836,080	\$0	\$4,455,341	\$0	\$0	\$0	\$0	\$8,871,562	\$7,640,068	\$0	\$14,908,255	\$0	\$2,058,749	\$0	\$0	\$0	\$0	\$86,107,440	\$34,318,112				\$0	
20	Schedule 89-S	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0	
21	Schedule 91	\$0	\$0	\$40,870	\$0	\$0	\$1,648,503	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$72,060	\$0	\$0	\$0	\$1,316,974	\$0				\$0	
22	Schedule 92	\$0	\$0	\$3,969	\$0	\$0	\$70,262	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,746	\$0	\$0	\$0	\$127,521	\$0				\$0	
23	Schedule 95	\$0	\$0	\$36,016	\$0	\$0	\$1,452,740	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$63,503	\$0	\$0	\$0	\$1,160,581	\$0				\$0	
24	Subtotal	\$13,798,098	\$27,925,161	\$3,700,897	\$11,168,536	\$0	\$65,040,346	\$7,528,999	\$0	\$23,397,892	\$31,374,322	\$0	\$37,371,640	\$0	\$25,885,877	\$0	\$0	\$0	\$104,723,159	\$208,083,756	\$82,101,710				\$0	
25																										
26	Schedule 85-P	\$0	\$1,056,560	\$0	\$1,132,942	\$0	\$0	\$0	\$0	\$1,393,760	\$2,857,193	\$0	\$3,771,504	\$0	\$550,025	\$0	\$0	\$0	\$0	\$22,776,136	\$9,960,158					\$0
27	Schedule 89-P	\$0	\$249,480	\$0	\$623,572	\$0	\$0	\$0	\$0	\$178,800	\$536,400	\$566,585	\$2,075,837	\$0	\$397,164	\$0	\$0	\$0	\$0	\$13,794,316	\$6,932,119					\$0
28	Schedule 90-P	\$0	\$292,800	\$0	\$2,053,234	\$0	\$0	\$0	\$0	\$38,640	\$115,920	\$3,549,334	\$6,835,109	\$0	\$1,004,976	\$0	\$0	\$0	\$0	\$59,709,460	\$32,225,780					\$0
29	Subtotal	\$0	\$1,598,840	\$0	\$3,809,748	\$0	\$0	\$0	\$0	\$1,611,200	\$3,509,513	\$4,115,919	\$12,682,450	\$0	\$1,952,165	\$0	\$0	\$0	\$0	\$96,279,912	\$49,118,057					\$0
30																										
31	Schedule 89-T	\$0	\$238,200	\$0	\$204,391	\$0	\$0	\$0	\$0	\$89,400	\$268,200	\$136,771	\$346,102	\$0	\$60,876	\$0	\$0	\$0	\$0	\$2,338,008	\$914,166					\$0
32	Schedule 75-T	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					\$0
33	Schedule 76R	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					\$0
34	Subtotal	\$0	\$238,200	\$0	\$204,391	\$0	\$0	\$0	\$0	\$89,400	\$268,200	\$136,771	\$346,102	\$0	\$60,876	\$0	\$0	\$0	\$0	\$2,338,008	\$914,166					\$0
35																										
36	Schedule 485-S V2003	\$0	\$13,440	\$0	\$0	\$0	\$0	\$0	\$0	\$15,216	\$42,765	\$0	\$58,829	\$0	(\$3,286)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
37	Schedule 485-S V2010	\$0	\$53,760	\$0	\$0	\$0	\$0	\$0	\$0	\$60,864	\$115,976	\$0	\$156,522	\$0	(\$9,027)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
38	Schedule 485-S V2011	\$0	\$53,760	\$0	\$0	\$0	\$0	\$0	\$0	\$60,864	\$141,495	\$0	\$184,078	\$0	(\$9,566)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
39	Schedule 485-S V2012	\$0	\$665,280	\$0	\$0	\$0	\$0	\$0	\$0	\$753,192	\$590,427	\$0	\$1,089,033	\$0	(\$53,896)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
40	Schedule 485-S V2013	\$0	\$215,040	\$0	\$0	\$0	\$0	\$0	\$0	\$243,456	\$369,533	\$0	\$536,407	\$0	(\$30,108)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
41	Schedule 485-S V2014	\$0	\$20,160	\$0	\$0	\$0	\$0	\$0	\$0	\$22,824	\$41,017	\$0	\$58,662	\$0	(\$3,043)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
42	Schedule 485-S V2015	\$0	\$6,720	\$0	\$0	\$0	\$0	\$0	\$0	\$7,608	\$17,706	\$0	\$27,491	\$0	(\$1,338)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
43	Schedule 485-S V2016	\$0	\$47,040	\$0	\$0	\$0	\$0	\$0	\$0	\$53,256	\$17,279	\$0	\$58,307	\$0	(\$3,487)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
44	Schedule 485-S V2017	\$0	\$255,360	\$0	\$0	\$0	\$0	\$0	\$0	\$289,104	\$310,058	\$0	\$502,639	\$0	(\$29,273)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
45	Schedule 485-S V2018	\$0	\$174,720	\$0	\$0	\$0	\$0	\$0	\$0	\$197,808	\$214,037	\$0	\$211,940	\$0	(\$17,834)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
46	Schedule 485-S V2019	\$0	\$60,480	\$0	\$0	\$0	\$0	\$0	\$0	\$68,472	\$56,033	\$0	\$102,443	\$0	(\$5,772)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
47	Schedule 489-S V2014	\$0	\$40,080	\$0	\$0	\$0	\$0	\$0	\$0	\$18,360	\$55,080	\$50,230	\$111,752	\$0	(\$1,887)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
48	Subtotal	\$0	\$1,605,840	\$0	\$0	\$0	\$0	\$0	\$0	\$1,791,024	\$1,971,405	\$50,230	\$3,098,104	\$0	(\$168,516)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
49																										
50	Schedule 485-P V2010	\$0	\$5,640	\$0	\$0	\$0	\$0	\$0	\$0	\$7,440	\$86,959	\$0	\$111,968	\$0	(\$7,080)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
51	Schedule 485-P V2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					\$0
52	Schedule 485-P V2012	\$0	\$28,200	\$0	\$0	\$0	\$0	\$0	\$0	\$37,200	\$122,577	\$0	\$193,467	\$0	(\$10,175)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
53	Schedule 485-P V2013	\$0	\$157,920	\$0	\$0	\$0	\$0	\$0	\$0	\$208,320	\$386,289	\$0	\$682,809	\$0	(\$37,335)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
54	Schedule 485-P V2014	\$0	\$11,280	\$0	\$0	\$0	\$0	\$0	\$0	\$14,880	\$20,702	\$0	\$39,627	\$0	(\$2,575)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
55	Schedule 485-P V2015	\$0	\$11,280	\$0	\$0	\$0	\$0	\$0	\$0	\$14,880	\$139,675	\$0	\$185,254	\$0	(\$10,178)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
56	Schedule 485-P V2016	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					\$0
57	Schedule 485-P V2017	\$0	\$45,120	\$0	\$0	\$0	\$0	\$0	\$0	\$59,520	\$177,933	\$0	\$285,255	\$0	(\$18,925)	\$0	\$0	\$0	\$0	\$0	\$0					\$0
58	Schedule 485-P V2018	\$0	\$5,640	\$0	\$0	\$0	\$0	\$0	\$0	\$7,440	\$50,297	\$0	\$56,806	\$0	(\$3,494)	\$0	\$0	\$0	\$0							

	A	B	C	D	AV	AW	AX	AY	AZ	BA
1										
2				PORTLAND GENERAL ELECTRIC						
3				Revenues at Proposed Prices						
4										
5										
6										
7				Grouping	Sch 137 Revenues	Revenues Without Supplementals	Revenues With Sch 102	Supplemental Revenues	Total Revenues	Revenues Without Sch 109
8										
9				Schedule 7	\$3,557,391	\$962,557,267	\$898,230,706	(\$20,199,769)	\$942,357,498	\$912,308,893
10				Schedule 15 Residential	\$1,208	\$710,480	\$682,736	(\$11,196)	\$699,284	\$677,089
11				Subtotal	\$3,558,599	\$963,267,747	\$898,913,442	(\$20,210,965)	\$943,056,782	\$912,985,982
12										
13				Schedule 15 Commercial	\$4,629	\$2,723,071	\$2,723,071	\$63,426	\$2,786,497	\$2,701,429
14				Schedule 32	\$718,589	\$188,764,472	\$186,647,295	\$1,259,542	\$190,024,014	\$184,134,546
15				Schedule 38	\$13,849	\$4,129,655	\$4,124,117	\$118,721	\$4,248,375	\$4,120,001
16				Schedule 47	\$11,466	\$4,379,465	\$4,213,032	(\$44,637)	\$4,334,828	\$4,198,754
17				Schedule 49	\$32,916	\$9,364,212	\$8,902,199	(\$188,850)	\$9,175,362	\$8,886,000
18				Schedule 83-S	\$1,240,533	\$262,139,726	\$260,219,296	\$6,752,556	\$268,892,282	\$260,870,257
19				Schedule 85-S	\$891,417	\$166,659,481	\$166,377,461	\$4,880,198	\$171,539,680	\$166,995,474
20				Schedule 89-S	\$0	\$0	\$0	\$0	\$0	\$0
21				Schedule 91	\$9,949	\$5,892,665	\$5,892,665	\$138,742	\$6,031,407	\$5,846,956
22				Schedule 92	\$973	\$204,497	\$204,497	\$7,363	\$211,860	\$205,446
23				Schedule 95	\$8,767	\$5,192,900	\$5,192,900	\$122,266	\$5,315,167	\$5,152,619
24				Subtotal	\$2,933,087	\$649,450,146	\$644,496,535	\$13,109,327	\$662,559,472	\$643,111,480
25										
26				Schedule 85-P	\$242,484	\$43,626,070	\$43,588,792	\$844,855	\$44,470,925	\$43,741,075
27				Schedule 89-P	\$156,459	\$25,387,759	\$25,387,759	\$76,223	\$25,463,982	\$25,463,982
28				Schedule 90-P	\$707,205	\$105,835,971	\$105,835,971	\$483,877	\$106,319,848	\$106,319,848
29				Subtotal	\$1,106,148	\$174,849,799	\$174,812,521	\$1,404,956	\$176,254,755	\$175,524,905
30										
31				Schedule 89-T	\$24,476	\$4,612,304	\$4,612,304	\$2,510	\$4,614,815	\$4,614,815
32				Schedule 75-T	\$0	\$0	\$0	\$0	\$0	\$0
33				Schedule 76R	\$0	\$0	\$0	\$0	\$0	\$0
34				Subtotal	\$24,476	\$4,612,304	\$4,612,304	\$2,510	\$4,614,815	\$4,614,815
35										
36				Schedule 485-S V2003	\$0	\$129,772	\$129,772	(\$3,990)	\$125,782	\$125,782
37				Schedule 485-S V2010	\$0	\$381,073	\$381,073	\$23,634	\$404,707	\$371,218
38				Schedule 485-S V2011	\$0	\$432,787	\$432,787	\$73,792	\$506,579	\$423,905
39				Schedule 485-S V2012	\$0	\$3,056,637	\$3,056,637	\$415,772	\$3,472,409	\$3,006,591
40				Schedule 485-S V2013	\$0	\$1,339,579	\$1,339,579	\$203,055	\$1,542,634	\$1,310,687
41				Schedule 485-S V2014	\$0	\$141,459	\$141,459	\$21,515	\$162,974	\$136,678
42				Schedule 485-S V2015	\$0	\$163,323	\$163,323	\$7,407	\$170,731	\$159,166
43				Schedule 485-S V2016	\$0	\$529,611	\$529,611	\$19,301	\$548,912	\$518,777
44				Schedule 485-S V2017	\$0	\$4,306,014	\$4,306,014	\$162,045	\$4,468,059	\$4,215,060
45				Schedule 485-S V2018	\$0	\$2,743,347	\$2,743,347	\$98,722	\$2,842,069	\$2,687,935
46				Schedule 485-S V2019	\$0	\$894,663	\$894,663	\$31,952	\$926,615	\$876,729
47				Schedule 489-S V2014	\$0	\$278,385	\$278,385	(\$7,280)	\$271,105	\$271,105
48				Subtotal	\$0	\$14,396,651	\$14,396,651	\$1,045,926	\$15,442,576	\$14,103,632
49										
50				Schedule 485-P V2010	\$0	\$210,656	\$210,656	(\$6,592)	\$204,064	\$204,064
51				Schedule 485-P V2011	\$0	\$0	\$0	\$0	\$0	\$0
52				Schedule 485-P V2012	\$0	\$372,192	\$372,192	\$11,548	\$383,740	\$363,392
53				Schedule 485-P V2013	\$0	\$1,416,240	\$1,416,240	\$167,264	\$1,583,505	\$1,387,945
54				Schedule 485-P V2014	\$0	\$85,380	\$85,380	\$18,201	\$103,582	\$82,095
55				Schedule 485-P V2015	\$0	\$1,101,209	\$1,101,209	(\$30,534)	\$1,070,675	\$1,070,675
56				Schedule 485-P V2016	\$0	\$0	\$0	\$0	\$0	\$0
57				Schedule 485-P V2017	\$0	\$2,382,263	\$2,382,263	(\$16,188)	\$2,366,075	\$2,326,787
58				Schedule 485-P V2018	\$0	\$481,832	\$481,832	(\$10,481)	\$471,351	\$471,351
59				Schedule 485-P V2019	\$0	\$951,493	\$951,493	(\$18,977)	\$932,516	\$932,513
60				Schedule 489-P V2004	\$0	\$535,543	\$535,543	(\$17,255)	\$518,288	\$518,288
61				Schedule 489-P V2010	\$0	\$590,522	\$590,522	(\$16,874)	\$573,648	\$573,648
62				Schedule 489-P V2011	\$0	\$1,070,093	\$1,070,093	(\$41,209)	\$1,028,884	\$1,028,884
63				Schedule 489-P V2012	\$0	\$765,763	\$765,763	(\$20,038)	\$745,725	\$745,725
64				Schedule 489-P V2013	\$0	\$371,310	\$371,310	(\$12,972)	\$358,338	\$358,338
65				Schedule 489-P V2014	\$0	\$420,556	\$420,556	(\$25,202)	\$395,353	\$395,353
66				Schedule 489-P V2016	\$0	\$2,119,373	\$2,119,373	(\$52,337)	\$2,067,035	\$2,067,035
67				Schedule 489-P V2017	\$0	\$4,687,651	\$4,687,651	(\$113,093)	\$4,574,558	\$4,574,558
68				Schedule 489-P V2018	\$0	\$5,546,162	\$5,546,162	(\$131,578)	\$5,414,584	\$5,414,584
69				Schedule 489-P V2019	\$0	\$1,484,088	\$1,484,088	(\$36,243)	\$1,447,845	\$1,447,844
70				Subtotal	\$0	\$24,592,327	\$24,592,327	(\$352,561)	\$24,239,766	\$23,963,080
71										
72				Schedule 489-T V2007	\$0	\$132,962	\$132,962	(\$399)	\$132,563	\$132,563
73				Schedule 489-T V2012	\$0	\$519,222	\$519,222	(\$23,179)	\$496,044	\$496,044
74				Schedule 489-T V2013	\$0	\$648,251	\$648,251	(\$19,472)	\$628,779	\$628,779
75				Subtotal	\$0	\$1,300,435	\$1,300,435	(\$43,049)	\$1,257,386	\$1,257,386
76										
77				COS Totals	\$7,622,310	\$1,792,179,996	\$1,722,834,802	(\$5,694,172)	\$1,786,485,824	\$1,736,237,182
78				Market Totals	\$0	\$0	\$0	\$0	\$0	\$0
79				Direct Access Totals	\$0	\$40,289,413	\$40,289,413	\$650,315	\$40,939,728	\$39,324,097
80				Totals	\$7,622,310	\$1,832,469,409	\$1,763,124,214	(\$5,043,857)	\$1,827,425,552	\$1,775,561,279

Schedule 132 Allocation

	Rev at Current Prices	Gen Rev at Current Prices	2019 Non-Gen Base Rev at Current Prices
Sch 7	\$946,490,531	\$501,966,773	\$444,523,759
Sch 15	\$3,459,005	\$797,218	\$2,661,787
Sch 32	\$184,212,064	\$97,989,342	\$86,222,722
Sch 38	\$4,170,414	\$1,742,123	\$2,428,290
Sch 47	\$4,269,396	\$1,515,856	\$2,753,540
Sch 49	\$9,348,582	\$4,513,305	\$4,835,277
Sch 83	\$262,184,861	\$170,951,031	\$91,233,829
Sch 85			
85-S	\$170,083,395	\$122,081,042	\$48,002,353
85-P	\$44,610,009	\$33,191,691	\$11,418,318
Sch 89			
89-S			
89-P	\$25,953,980	\$21,247,965	\$4,706,016
89-T	\$4,676,168	\$3,332,505	\$1,343,663
Sch 90	\$108,051,394	\$94,726,839	\$13,324,554
Sch 91/95	\$10,987,111	\$2,556,465	\$8,430,646
Sch 92	\$205,446	\$129,842	\$75,604
Sch 485-S			
Sch 485-S V2013 and Prior	\$5,747,347		\$5,747,347
Sch 485-S V2014 L	\$280,091	\$125,395	\$154,696
Sch 485-S V2015 M	\$177,527	\$112,160	\$65,367
Sch 485-S V2016 N	\$557,802	\$378,683	\$179,120
Sch 485-S V2017 O	\$4,686,768	\$3,254,487	\$1,432,281
Sch 485-S V2018 P	\$2,978,873	\$2,126,674	\$852,200
Sch 485-S V2019 Q	\$913,153	\$612,651	\$300,502
Sch 485-P			
Sch 485-P V2013 and Prior	\$2,160,788		\$2,160,788
Sch 485-P V2014 L	\$193,366	\$101,838	\$91,528
Sch 485-P V2015 M	\$1,196,799	\$816,334	\$380,465
Sch 485-P V2016 N	\$0	\$0	\$0
Sch 485-P V2017 O	\$2,602,879	\$1,998,877	\$604,001
Sch 485-P V2018 P	\$525,749	\$396,826	\$128,924
Sch 485-P V2019 Q	\$982,213	\$645,317	\$336,896
Sch 489-S			
Sch 489-S V2014 L	\$350,904	\$65,118	\$285,786
Sch 489-P			
Sch 489-P V2013 and Prior	\$3,477,083		\$3,477,083
Sch 489-P V2014 L	\$1,067,183	\$627,334	\$439,849
Sch 489-P V2015 M			\$0
Sch 489-P V2016 N	\$2,241,405	\$1,829,822	\$411,583
Sch 489-P V2017 O	\$5,076,710	\$4,075,642	\$1,001,068
Sch 489-P V2018 P	\$5,997,202	\$4,918,360	\$1,078,842
Sch 489-P V2019 Q	\$1,496,618	\$1,181,852	\$314,766
Sch 489-T			
Sch 489-T V2013 and Prior	\$1,337,864		\$1,337,864
	\$1,822,750,682	\$1,080,009,366	\$742,741,316

\$444,524

\$2,662

\$86,223

\$2,428

\$2,754

\$4,835

\$91,234

\$48,002

\$11,418

\$4,706

\$1,344

\$13,325

\$8,431

\$76

\$5,747

\$155

\$65

\$179

\$1,432

\$852

\$301

\$2,161

\$92

\$380

\$0

\$604

\$129

\$337

\$286

\$3,477

\$440

\$0

\$412

\$1,001

\$1,079

\$315

\$1,338

**PORTLAND GENERAL ELECTRIC
CONSUMER IMPACT OFFSET**

Grouping	Cycle MWH	Revenues at Current Prices (\$000)	2019 Allocated Costs (\$000)	Percent Change	Impact Offset Amount	Impact Offset MWH	CIO mills/kWh	CIO Revenues
Schedule 7	7,568,918	\$947,435	\$963,143	1.7%		7,568,918	(0.08)	(\$606)
Schedule 15	15,774	\$3,459	\$3,337	-3.5%			6.10	\$96
Schedule 32	1,633,156	\$184,212	\$188,882	2.5%		1,633,156	(0.08)	(\$131)
Schedule 38	31,475	\$4,170	\$4,130	-1.0%			0.00	\$0
Schedule 47	21,633	\$4,269	\$4,379	2.6%			0.00	\$0
Schedule 49	64,540	\$9,349	\$9,364	0.2%			0.00	\$0
Schedule 83	2,884,961	\$262,185	\$262,146	0.0%			0.00	\$0
Schedule 85	2,713,846	\$237,696.76	\$231,359.48	-2.7%			0.00	\$0
Schedule 89	463,935	\$51,675.12	\$48,568	-6.0%		463,935	0.38	\$176
Schedule 90	1,861,066	\$108,051	\$105,675	-2.2%		1,861,066	0.08	\$149
Schedules 91 & 95	50,583	\$10,987	\$11,182	1.8%			(1.90)	(\$96)
Schedule 92	2,496	\$205	\$205	-0.5%			0.00	\$0
COS TOTALS	17,312,384							
Sch 485 Energy	926,440						0.00	\$0
Sch 489 Energy	<u>1,161,686</u>					<u>1,161,686</u>	0.38	<u>\$441</u>
Totals	19,400,511	\$1,823,695	\$1,832,370	0.5%	\$0	12,688,761		\$31
Note: does not include Sch 76R		\$0	\$0					
Note: does not include employee discount		(\$945)	(\$960)					
Reconcile CIO worksheet to revenues		\$1,822,751	\$1,831,409					
		\$1,822,751	\$1,831,409					
		0	0					
	CIO							
Schedules	Allocation	MWh	CIO (mills/kWh)					
89/489/589	\$618,652	1,625,621	0.38					
90/490/590	\$154,663	1,861,066	0.08					
Totals	\$773,315	3,486,688						

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 7						
Residential						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase	\$225,045	782,966	Customers	\$23.95	per cust. per mo.	\$225,024
Three-Phase	\$6	15	Customers	\$34.97	per cust. per mo.	\$6
Trans. & Rel. Serv. Charge	\$18,367	7,568,918	MWh	2.43	mills/kWh	\$18,392
Distribution Charge	\$214,566	7,568,918	MWh	28.35	mills/kWh	\$214,579
Franchise Fees & Other	\$17,073	7,568,918	MWh	2.26	mills/kWh	\$17,106
Energy Charge	<u>\$488,086</u>	7,568,918	MWh	64.49	mills/kWh	<u>\$488,120</u>
Subtotal	\$963,143					\$963,227
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		782,966	Customers	\$11.00	per cust. per mo.	\$103,352
Three-Phase		15	Customers	\$11.00	per cust. per mo.	\$2
Trans. & Rel. Serv. Charge		7,568,918	MWh	2.43	mills/kWh	\$18,392
Distribution Charge		7,568,918	MWh	44.42	mills/kWh	\$336,211
System Usage Charge Calculation						
Franchise Fees & Other		7,568,918	MWh	2.26	mills/kWh	\$17,106
Cust Impact Offset		7,568,918	MWh	(0.08)	mills/kWh	(\$606)
System Usage Charge		7,568,918	MWh	2.18	mills/kWh	\$16,500
Energy Charge						
Block 1 (First 500 kWh)		4,150,373	MWh	63.27	mills/kWh	\$262,594
Block 2 (501-1,000 kWh)		2,140,123	MWh	63.27	mills/kWh	\$135,406
Block 3 (Over 1,000 kWh)		1,278,422	MWh	70.49	mills/kWh	<u>\$90,116</u>
Subtotal						\$962,573
					w/o CIO	\$963,179
SCHEDULE 15						
Outdoor Area Lighting						
Allocations						
Functional Costs						
Basic Charge	\$472	9,486	Customers	\$4.15	per cust. per mo.	\$472
Trans. & Rel. Serv. Charge	\$24	15,774	MWh	1.52	mills/kWh	\$24
Distribution Charge	\$372	15,774	MWh	23.61	mills/kWh	\$372
Franchise Fees & Other	\$69	15,774	MWh	4.34	mills/kWh	\$68
Energy Charge	\$773	15,774	MWh	48.98	mills/kWh	\$773
Fixed Charges	<u>\$1,628</u>	15,774	MWh			<u>\$1,628</u>
Subtotal	\$3,337					\$3,337
Pricing						
Functional Costs						
Trans. & Rel. Serv. Charge		15,774	MWh	1.52	mills/kWh	\$24
Distribution Charge		15,774	MWh	53.55	mills/kWh	\$845
System Usage Charge Calc						
Franchise Fees & Other		15,774	MWh	4.34	mills/kWh	\$68
Cust Impact Offset		15,774	MWh	6.10	mills/kWh	\$96
System Usage Charge		15,774	MWh	10.44	mills/kWh	\$165
Energy Charge		15,774	MWh	48.98	mills/kWh	\$773
Fixed Charges		15,774	MWh			<u>\$1,628</u>
Subtotal						\$3,434
					w/o CIO	\$3,337

**PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019**

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 32						
General Service <30 kW						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase	\$23,466	56,001	Customers	\$34.92	per cust. per mo.	\$23,467
Three-Phase	\$23,283	37,764	Customers	\$51.38	per cust. per mo.	\$23,284
Trans. & Rel. Serv. Charge	\$3,367	1,633,156	MWh	2.06	mills/kWh	\$3,364
Distribution Charge	\$40,229	1,633,156	MWh	24.63	mills/kWh	\$40,225
Franchise Fees & Other	\$3,192	1,633,156	MWh	1.95	mills/kWh	\$3,185
Energy Charge	<u>\$95,345</u>	1,633,156	MWh	58.38	mills/kWh	<u>\$95,344</u>
Subtotal	\$188,882					\$188,868
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		56,001	Customers	\$20.00	per cust. per mo.	\$13,440
Three-Phase		37,764	Customers	\$29.00	per cust. per mo.	\$13,142
Trans. & Rel. Serv. Charge		1,633,156	MWh	2.06	mills/kWh	\$3,364
Distribution Charge						
First 5 MWh		1,427,418	MWh	40.45	mills/kWh	\$57,739
Over 5 MWh		205,738	MWh	13.00	mills/kWh	\$2,675
System Usage Charge Calc						
Franchise Fees & Other		1,633,156	MWh	1.95	mills/kWh	\$3,185
Cust Impact Offset		1,633,156	MWh	(0.08)	mills/kWh	(\$131)
System Usage Charge		1,633,156	MWh	1.87	mills/kWh	\$3,054
Energy Charge		1,633,156	MWh	58.38	mills/kWh	<u>\$95,344</u>
Subtotal						\$188,758
					w/o CIO	\$188,888
SCHEDULE 38						
Time-of-Day G.S. >30 kW						
Allocations						
Functional Costs						
Basic						
Single-Phase	\$54	55	Customers	\$81.85	per cust. per mo.	\$54
Three-Phase	\$530	328	Customers	\$134.75	per cust. per mo.	\$530
Trans. & Rel. Serv. Charge	\$54	31,475	MWh	1.71	per cust. per mo.	\$54
Distribution Charges	\$1,723	31,475	MWh	54.74	per cust. per mo.	\$1,723
Franchise Fees & Other	\$74	31,475	MWh	2.34	mills/kWh	\$74
Energy Charge	<u>\$1,695</u>	31,475	MWh	53.84	mills/kWh	<u>\$1,695</u>
Subtotal	\$4,130					\$4,129
Pricing						
Functional Costs						
Basic						
Single-Phase		55	Customers	\$30.00	per cust. per mo.	\$20
Three-Phase		328	Customers	\$30.00	per cust. per mo.	\$118
Trans. & Rel. Serv. Charge		31,475	MWh	1.71	mills/kWh	\$54
Distribution Charges		31,475	MWh	68.07	mills/kWh	\$2,142
System Usage Charge						
Franchise Fees & Other		31,475	MWh	2.34	mills/kWh	\$74
Cust Impact Offset		31,475	MWh	<u>0.00</u>	mills/kWh	<u>\$0</u>
System Usage Charge		31,475	MWh	2.34	mills/kWh	\$74
Energy Charge Calc						
On-Peak (special)		17,091	MWh	60.70	mills/kWh	\$1,037
Off-Peak		14,383	MWh	45.70	mills/kWh	\$657
Reactive Demand Charge		54,201	kVar	0.50	kVar	\$27
Subtotal						\$4,130
					w/o CIO	\$4,130

PORTLAND GENERAL ELECTRIC
 RATE DESIGN
 2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 47						
Irrig. & Drain. Pump. - < 30 kW						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase	\$64	224	Customers	\$47.79	per cust. per summ. mo.	\$64
Three-Phase	\$969	2,837	Customers	\$56.93	per cust. per summ. mo.	\$969
Trans. & Rel. Serv. Charge	\$46	21,633	MWh	2.13	mills/kWh	\$46
Distribution Charges	\$1,675	21,633	MWh	77.45	mills/kWh	\$1,676
Franchise Fees & Other	\$90	21,633	MWh	4.15	mills/kWh	\$90
Energy Charge	\$1,535	21,633	MWh	70.94	mills/kWh	\$1,535
Subtotal	\$4,379					\$4,379
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		224	Customers	\$37.00	per cust. per summ. mo.	\$50
Three-Phase		2,837	Customers	\$37.00	per cust. per summ. mo.	\$630
Trans. & Rel. Serv. Charge		21,633	MWh	2.13	mills/kWh	\$46
Distribution Charge Calc						
First 50 kWh per kW		7,536	MWh	106.84	mills/kWh	\$805
Over 50 kWh per kW		14,098	MWh	86.84	mills/kWh	\$1,224
System Usage Charge Calc						
Franchise Fees & Other		21,633	MWh	4.15	mills/kWh	\$90
Cust Impact Offset		21,633	MWh	0.00	mills/kWh	\$0
System Usage Charge		21,633	MWh	4.15	mills/kWh	\$90
Energy Charge		21,633	MWh	70.94	mills/kWh	\$1,535
Reactive Demand Charge		45	kVar	\$0.50	kVar	\$0
Subtotal with Consumer Impact Offset						\$4,379
					w/o CIO	\$4,379
SCHEDULE 49						
Irrig. & Drain. Pump. - > 30 kW						
Allocations						
Functional Costs						
Basic						
Single-Phase	\$4	6	Customers	\$103.70	per cust. per summ. mo.	\$4
Three-Phase	\$812	1,268	Customers	\$106.78	per cust. per summ. mo.	\$812
Trans. & Rel. Serv. Charge	\$137	64,540	MWh	2.12	mills/kWh	\$137
Distribution Charges	\$3,674	64,540	MWh	56.93	mills/kWh	\$3,674
Franchise Fees & Other	\$175	64,540	MWh	2.71	mills/kWh	\$175
Energy Charge	\$4,562	64,540	MWh	70.68	mills/kWh	\$4,562
Subtotal	\$9,364					\$9,364
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		6	Customers	\$45.00	per cust. per summ. mo.	\$2
Three-Phase		1,268	Customers	\$45.00	per cust. per summ. mo.	\$342
Trans. & Rel. Serv. Charge		64,540	MWh	2.12	mills/kWh	\$137
Distribution Charge Calc						
First 50 kWh per kW		19,051	MWh	78.28	mills/kWh	\$1,491
Over 50 kWh per kW		45,489	MWh	58.28	mills/kWh	\$2,651
System Usage Charge Calc						
Franchise Fees & Other		64,540	MWh	2.71	mills/kWh	\$175
Cust Impact Offset		64,540	MWh	0.00	mills/kWh	\$0
System Usage Charge		64,540	MWh	2.71	mills/kWh	\$175
Energy Charge		64,540	MWh	70.68	mills/kWh	\$4,562
Reactive Demand Charge		8,709	kVar	0.50	kVar	\$4
Subtotal with Consumer Impact Offset						\$9,364
					w/o CIO	\$9,364

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 83						
General Service 31-200 kW						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase Secondary	\$828	683	Customers	\$101.03	per cust, per mo.	\$828
Three-Phase Secondary	\$24,211	10,846	Customers	\$186.02	per cust, per mo.	\$24,211
Transmission & Related Service Charge	\$6,042	8,610,027	kW demand	\$0.70	per kW demand	\$6,027
Distribution Charges						
Feeder Backbone	\$20,840	11,131,043	kW faccap	\$1.87	per kW faccap	\$20,815
Feeder Local Facilities	\$17,389	11,131,043	kW faccap	\$1.56	per kW faccap	\$17,364
Subtransmission Charge	\$10,468	8,610,027	kW demand	\$1.22	per kW demand	\$10,504
Substation Charge	\$10,395	8,610,027	kW demand	\$1.21	per kW demand	\$10,418
Secondary Franchise Fees & Other	\$3,845	2,884,961	MWh	1.33	mills/kWh	\$3,837
Secondary COS Energy Charge	<u>\$168,128</u>	2,884,961	MWh	58.28	mills/kWh	<u>\$168,136</u>
Subtotal	\$262,146					\$262,140
Pricing						
Functional Costs						
Basic Charge						
Secondary Single-Phase		683	Customers	\$35.00	per cust, per mo.	\$287
Secondary Three-Phase		10,846	Customers	\$45.00	per cust, per mo.	\$5,857
Trans. & Rel. Serv. Charge						
On-peak		8,606,661	kW demand	\$0.78	per kW demand	\$6,713
Off-peak		3,366	kW demand	\$0.00	per kW demand	\$0
Distribution Charges						
Secondary Facilities Charge						
First 30 kW		4,150,380	kW faccap	\$3.50	<= 30 kW faccap	\$14,526
Over 30 kW		6,980,663	kW faccap	\$3.40	> 30 kW faccap	\$23,734
Secondary Demand Charge						
On-peak		8,606,661	kW demand	\$2.61	per kW demand	\$22,463
Off-peak		3,366	kW demand	\$0.00	per kW demand	\$0
Secondary System Usage Charge Calc						
Franchise Fees & Other		2,884,961	MWh	1.33	mills/kWh	\$3,837
Cust Impact Offset		2,884,961	MWh	0.00	mills/kWh	\$0
Rate Design		2,884,961	MWh	<u>5.66</u>	mills/kWh	<u>\$16,329</u>
System Usage Charge		2,884,961	MWh	6.99	mills/kWh	\$20,166
COS Energy Charge						
On-peak		1,909,059	MWh	63.35	mills/kWh	\$120,939
Off-peak		975,902	MWh	48.35	mills/kWh	\$47,185
Reactive Demand Charge		538,563	kVar	\$0.50	kVar	<u>\$269</u>
Subtotal						\$262,140
					w/o CIO	\$262,140

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 85						
General Service 201-4,000 kW						
Allocations						
Functional Costs						
Basic Charge						
Secondary	\$9,339	1,399	Customers	\$556.29	per cust, per mo.	\$9,340
Primary	\$1,323	236	Customers	\$466.38	per cust, per mo.	\$1,323
Transmission & Related Service Charge	\$5,312	7,202,688	kW on-peak	\$0.74	per kW demand	\$5,330
Distribution Charges						
Feeder Backbone	\$18,307	10,867,098	kW faccap	\$1.68	per kW faccap	\$18,257
Feeder Local Facilities	\$8,956	10,867,098	kW faccap	\$0.82	per kW faccap	\$8,911
Subtransmission Charge	\$11,549	9,020,935	kW on-peak	\$1.28	per kW on-peak demand	\$11,547
Substation Charge	\$11,468	9,020,935	kW on-peak	\$1.27	per kW on-peak demand	\$11,457
Secondary Franchise Fees & Other	\$1,885	2,717,524	MWh	0.69	mills/kWh	\$1,875
Primary Franchise Fees & Other	\$452	922,762	MWh	0.49	mills/kWh	\$452
COS Energy Charge	<u>\$153,171</u>	2,713,846	MWh	56.44	mills/kWh	<u>\$153,169</u>
Subtotal	\$221,761					\$221,660
Pricing						
Functional Costs						
Basic Charge						
Secondary		1,399	Customers	\$560.00	per cust, per mo.	\$9,402
Primary		236	Customers	\$470.00	per cust, per mo.	\$1,333
Secondary Trans. & Rel. Serv. Charge		5,711,975	kW on-peak	\$0.78	per kW demand	\$4,455
Primary Trans. & Rel. Serv. Charge		1,490,713	kW on-peak	\$0.76	per kW demand	\$1,133
Distribution Charges						
Secondary Facilities Charge						
First 200 kW		3,357,800	kW faccap	\$3.17	per kW faccap	\$10,644
Over 200 kW		4,850,961	kW faccap	\$1.97	per kW faccap	\$9,556
Primary Facilities Charge						
First 200 kW		567,200	kW faccap	\$3.10	per kW faccap	\$1,758
Over 200 kW		2,091,136	kW faccap	\$1.90	per kW faccap	\$3,973
Secondary Demand Charge		6,856,171	kW on-peak	\$2.61	per kW demand	\$17,895
Primary Demand Charge		2,164,764	kW on-peak	\$2.53	per kW demand	\$5,477
Secondary System Usage Charge Calc						
COS Franchise Fees & Other		2,122,422	MWh	0.97	mills/kWh	\$2,059
Cust Impact Offset		2,122,422	MWh	<u>0.00</u>	mills/kWh	<u>\$0</u>
COS System Usage Charge		2,122,422	MWh	0.97	mills/kWh	\$2,059
DA Franchise Fees & Other		595,102	MWh	(0.28)	mills/kWh	(\$167)
Cust Impact Offset		595,102	MWh	<u>0.00</u>	mills/kWh	<u>\$0</u>
DA System Usage Charge		595,102	MWh	(0.28)	mills/kWh	(\$167)
Primary System Usage Charge Calc						
COS Franchise Fees & Other		591,424	MWh	0.93	mills/kWh	\$550
Cust Impact Offset		591,424	MWh	<u>0.00</u>	mills/kWh	<u>\$0</u>
COS System Usage Charge		591,424	MWh	0.93	mills/kWh	\$550
DA Franchise Fees & Other		331,338	MWh	(0.29)	mills/kWh	(\$96)
Cust Impact Offset		331,338	MWh	<u>0.00</u>	mills/kWh	<u>\$0</u>
DA System Usage Charge		331,338	MWh	(0.29)	mills/kWh	(\$96)
Secondary COS Energy Charge						
On-peak		1,390,849	MWh	61.91	mills/kWh	\$86,107
Off-peak		731,573	MWh	46.91	mills/kWh	\$34,318
Primary COS Energy Charge						
On-peak		374,238	MWh	60.86	mills/kWh	\$22,776
Off-peak		217,186	MWh	45.86	mills/kWh	\$9,960
Reactive Demand Charge		1,343,897	kVar	0.50	kVar	<u>\$672</u>
Subtotal						\$221,806
				w/o CIO		\$221,806

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 89 GT 4,000 kW						
General Service						
Allocations						
Functional Costs						
Secondary Basic Charge	\$40	1	Customers	\$3,339.30	per cust, per mo.	\$40
Primary Basic Charge	\$591	26	Customers	\$1,893.41	per cust, per mo.	\$591
Subtransmission Basic Charge	\$381	8	Customers	\$3,972.99	per cust, per mo.	\$381
Transmission & Related Service Charge	\$1,085	1,093,010	kW on-peak	\$0.99	per kW on-peak demand	\$1,082
Distribution Charges						
Feeder Backbone	\$3,729	3,573,990	kW faccap	\$1.04	per kW faccap	\$3,717
Feeder Local Facilities						\$0
Subtransmission Demand Charge	\$4,370	3,054,153	kW on-peak	\$1.43	per kW on-peak demand	\$4,367
Substation Demand Charge	\$3,569	2,410,228	kW on-peak	\$1.48	per kW on-peak demand	\$3,567
Secondary Franchise Fees & Other	(\$7)	13,482	MWh	(0.52)	mills/kWh	(\$7)
Primary Franchise Fees & Other	(\$259)	1,362,209	MWh	(0.19)	mills/kWh	(\$259)
Subtransmission Franchise Fees & Other	(\$62)	249,930	MWh	(0.25)	mills/kWh	(\$62)
Energy Charge	\$23,979	463,935	MWh	51.69	mills/kWh	\$23,981
Subtotal	\$37,416					\$37,398
Pricing						
Functional Costs						
Secondary Basic Charge		1	Customers	\$3,340.00	per cust, per mo.	\$40
Primary Basic Charge		26	Customers	\$1,890.00	per cust, per mo.	\$590
Subtransmission Basic Charge		8	Customers	\$3,970.00	per cust, per mo.	\$381
Secondary Trans. & Rel. Serv. Charge		0	kW on-peak	\$0.78	per kW on-peak demand	\$0
Primary Trans. & Rel. Serv. Charge		820,489	kW on-peak	\$0.76	per kW on-peak demand	\$624
Subtransmission Trans. & Rel. Serv. Charge		272,521	kW on-peak	\$0.75	per kW on-peak demand	\$204
Distribution Charges						
Secondary Facilities Charge						
First 1,000 kW		12,000	kW faccap	\$1.53	per kW faccap	\$18
1,001-4,000 kW		36,000	kW faccap	\$1.53	per kW faccap	\$55
Greater than 4,000 kW		41,172	kW faccap	\$1.22	per kW faccap	\$50
Primary Facilities Charge						
First 1,000 kW		300,000	kW faccap	\$1.49	per kW faccap	\$447
1,001-4,000 kW		900,000	kW faccap	\$1.49	per kW faccap	\$1,341
Greater than 4,000 kW		1,451,944	kW faccap	\$1.18	per kW faccap	\$1,713
Subtransmission Facilities Charge						
First 1,000 kW		132,000	kW faccap	\$1.49	per kW faccap	\$197
1,001-4,000 kW		252,012	kW faccap	\$1.49	per kW faccap	\$375
Greater than 4,000 kW		448,862	kW faccap	\$1.18	per kW faccap	\$530
Secondary Demand Charge		42,817	kW on-peak	\$2.61	per kW on-peak demand	\$112
Primary Demand Charge		2,367,411	kW on-peak	\$2.53	per kW on-peak demand	\$5,990
Subtransmission Demand Charge		643,925	kW on-peak	\$1.27	per kW on-peak demand	\$818
Secondary System Usage Charge Calc						
COS Franchise Fees & Other		0	MWh	0.64	mills/kWh	\$0
Cust Impact Offset		0	MWh	0.38	mills/kWh	\$0
COS System Usage Charge		0	MWh	1.02	mills/kWh	\$0
DA Franchise Fees & Other		13,482	MWh	(0.52)	mills/kWh	(\$7)
Cust Impact Offset		13,482	MWh	0.38	mills/kWh	\$5
DA System Usage Charge		13,482	MWh	(0.14)	mills/kWh	(\$2)
Primary System Usage Charge Calc						
COS Franchise Fees & Other		401,176	MWh	0.61	mills/kWh	\$245
Cust Impact Offset		401,176	MWh	0.38	mills/kWh	\$152
COS System Usage Charge		401,176	MWh	0.99	mills/kWh	\$397
DA Franchise Fees & Other		961,033	MWh	(0.53)	mills/kWh	(\$509)
Cust Impact Offset		961,033	MWh	0.38	mills/kWh	\$365
DA System Usage Charge		961,033	MWh	(0.15)	mills/kWh	(\$144)
Subtransmission System Usage Charge Calc						
COS Franchise Fees & Other		62,759	MWh	0.59	mills/kWh	\$37
Cust Impact Offset		62,759	MWh	0.38	mills/kWh	\$24
COS System Usage Charge		62,759	MWh	0.97	mills/kWh	\$61
DA Franchise Fees & Other		187,171	MWh	(0.53)	mills/kWh	(\$99)
Cust Impact Offset		187,171	MWh	0.38	mills/kWh	\$71
DA System Usage Charge		187,171	MWh	(0.15)	mills/kWh	(\$28)
Secondary Energy Charge						
On-peak		0	MWh	58.69	mills/kWh	\$0
Off-peak		0	MWh	43.69	mills/kWh	\$0
Primary Energy Charge						
On-peak		238,945	MWh	57.73	mills/kWh	\$13,794
Off-peak		162,231	MWh	42.73	mills/kWh	\$6,932
Subtransmission Energy Charge						
On-peak		41,003	MWh	57.02	mills/kWh	\$2,338
Off-peak		21,755	MWh	42.02	mills/kWh	\$914
Reactive Demand Charge		541,041	kVar	0.50	kVar	\$271
Subtotal						\$38,018
				w/o CIO		\$37,400

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULE 90						
Primary Voltage Service						
Allocations						
Functional Costs						
Primary Basic Charge	\$292	4	Customers	\$6,090.84	per cust, per mo.	\$292
Transmission & Related Service Charge	\$2,682	2,701,624	kW on-peak	\$0.99	per kW on-peak demand	\$2,675
Distribution Charges						
Feeder Backbone	\$2,029	2,826,257	kW faccap	\$0.72	per kW faccap	\$2,035
Subtransmission Demand Charge	\$3,865	2,701,624	kW on-peak	\$1.43	per kW on-peak demand	\$3,863
Substation Demand Charge	\$4,000	2,701,624	kW on-peak	\$1.48	per kW on-peak demand	\$3,998
Primary Franchise Fees & Other	\$862	1,861,066	MWh	0.46	mills/kWh	\$856
Energy Charge	<u>\$91,944</u>	1,861,066	MWh	49.40	mills/kWh	<u>\$91,937</u>
Subtotal	\$105,675					\$105,656
Pricing						
Functional Costs						
Primary Basic Charge		4	Customers	\$6,100.00	per cust, per mo.	\$293
Primary Trans. & Rel. Serv. Charge		2,701,624	kW on-peak	\$0.76	per kW on-peak demand	\$2,053
Distribution Charges						
Primary Facilities Charge						
First 4,000 kW		96,000	kW faccap	\$1.61	per kW faccap	\$155
Over 4,000 kW		2,730,257	kW faccap	\$1.30	per kW faccap	\$3,549
Primary Demand Charge		2,701,624	kW on-peak	\$2.53	per kW on-peak demand	\$6,835
Primary System Usage Charge Calc						
COS Franchise Fees & Other		1,861,066	MWh	0.46	mills/kWh	\$856
Cust Impact Offset		1,861,066	MWh	<u>0.08</u>	mills/kWh	<u>\$149</u>
COS System Usage Charge		1,861,066	MWh	0.54	mills/kWh	\$1,005
Primary Energy Charge						
On-peak		1,070,638	MWh	55.77	mills/kWh	\$59,709
Off-peak		790,429	MWh	40.77	mills/kWh	\$32,226
Reactive Demand Charge		21,436	kVar	\$0.50	kVar	<u>\$11</u>
						\$105,836
					w/o CIO	\$105,687

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2019

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	
SCHEDULES 91 & 95						
Street & Highway Lighting						
Allocations						
Functional Costs						
Basic Charge	\$1,865	203	Customers	\$765.76	per cust, per mo.	\$1,865
Trans. & Rel. Serv. Charge	\$77	50,583	MWh	1.52	mills/kWh	\$77
Distribution Charge	\$1,236	50,583	MWh	24.43	mills/kWh	\$1,236
Franchise Fees & Other	\$232	50,583	MWh	4.58	mills/kWh	\$232
COS Energy Charge	\$2,478	50,583	MWh	48.98	mills/kWh	\$2,478
Fixed Charges	<u>\$5,294</u>					<u>\$5,294</u>
Subtotal	\$11,182					\$11,182
Pricing						
Functional Costs						
Trans. & Rel. Serv. Charge		50,583	MWh	1.52	mills/kWh	\$77
Distribution Charge		50,583	MWh	61.31	mills/kWh	\$3,101
System Usage Charge Calc						
Franchise Fees & Other		50,583	MWh	4.58	mills/kWh	\$232
Cust Impact Offset		50,583	MWh	(1.90)	mills/kWh	(\$96)
System Usage Charge		50,583	MWh	2.68	mills/kWh	\$136
COS Energy Charge		50,583	MWh	48.98	mills/kWh	\$2,478
Fixed Charges		50,583	MWh			<u>\$5,294</u>
Subtotal						\$11,086
					w/o CIO	\$11,182
SCHEDULE 92						
Traffic Signals						
Allocations						
Functional Costs						
Basic Charge	\$47	16	Customers	\$246.15	per cust, per mo.	\$47
Trans. & Rel. Serv. Charge	\$4	2,496	MWh	1.59	mills/kWh	\$4
Distribution Charge	\$23	2,496	MWh	9.22	mills/kWh	\$23
Franchise Fees & Other	\$3	2,496	MWh	1.10	mills/kWh	\$3
COS Energy Charge	<u>\$128</u>	2,496	MWh	51.09	mills/kWh	<u>\$128</u>
Subtotal	\$205					\$205
Pricing						
Functional Costs						
Trans. & Rel. Serv. Charge		2,496	MWh	1.59	mills/kWh	\$4
Distribution Charge		2,496	MWh	28.15	mills/kWh	\$70
System Usage Charge Calc						
Franchise Fees & Other		2,496	MWh	1.10	mills/kWh	\$3
Cust Impact Offset		2,496	MWh	0.00	mills/kWh	\$0
System Usage Charge		2,496	MWh	1.10	mills/kWh	\$3
COS Energy Charge		2,496	MWh	51.09	mills/kWh	<u>\$128</u>
Subtotal						\$204
					w/o CIO	\$204
Summary of Inputs						
Functional Costs						
	Allocated Inputs	DesSumm	Deltas			
Basic Charge	\$313,625	\$313,625	\$0			
Trans. & Rel. Serv. Charge	\$37,196	\$37,196	\$0			
Distribution Charge	\$394,432	\$394,432	\$0			
Fixed Charges	\$6,922	\$6,922	\$0			
Franchise Fees & Other	\$27,624	\$27,624	\$0			
Energy Charge	<u>\$1,031,821</u>	<u>\$1,031,821</u>	\$0			
Subtotal	\$1,811,619	\$1,811,619				
Functional Costs Revenues						
	Annual Revenue	Revenue	Deltas			
Basic Charge	\$149,279	\$149,279	\$0			
Trans. & Rel. Serv. Charge	\$37,281	\$37,271	(\$10)	(\$10)	(Voluntary TOU)	
Distribution Charges	\$541,168	\$541,137	(\$31)	(\$31)	(Voluntary TOU)	
Fixed Charges	\$6,922	\$6,922	\$0			
System Usage Charge	\$43,996	\$43,996	\$0			
Energy Charge	\$1,031,828	\$1,031,859	\$31	\$31	(Voluntary TOU)	
Reactive	<u>\$1,254</u>	<u>\$1,254</u>	\$0			
Subtotal	\$1,811,728	\$1,811,719	(\$9)	(\$9)		
<i>Note: figures are before employee discount and Schedule 129</i>						
On-peak demand	23,383,373	23,383,373	0			
Facility Capacity	28,398,387	28,398,388	(1)			
kVar	2,507,892	2,507,892	0			

**PORTLAND GENERAL ELECTRIC
Commercial and Industrial Pricing**

	Allocated Inputs (\$000)	Billing Determinants		Rate			Annual Revenue (\$000)
		Amount	Unit	Rate	Unit	Note	
Transmission Demand Price for Schedules 83, 85, 89, 90							
Transmission & Ancillary Pricing	\$15,121	19,603,983	kW	\$0.77	per kW demand		\$15,095
Secondary		14,318,636	kW	\$0.78	per kW demand		\$11,169
Primary		5,012,826	kW	\$0.76	per kW demand		\$3,810
Subtransmission		272,521	kW	\$0.75	per kW demand		\$204
Total Schedule 83/85/89/90 Transmission Revenue:	\$15,121						\$15,183
Distribution Demand Pricing for Schedules 83, 85, 89, 90							
Distribution Demand Pricing (subtransmission)	\$30,251	23,383,373	kW	\$1.29	per kW demand		\$30,251
Secondary		15,505,649	kW	\$1.31	per kW demand		\$20,273
Primary		7,233,799	kW	\$1.27	per kW demand		\$9,169
Subtransmission		643,925	kW	\$1.26	per kW demand		\$810
							\$30,251
Distribution Demand Pricing (substations)	\$29,431	22,739,448	kW	\$1.29	per kW demand		\$29,431
Secondary		15,505,649	kW	\$1.31	per kW demand		\$20,266
Primary		7,233,799	kW	\$1.27	per kW demand		\$9,165
							\$29,431
Distribution Demand Prices							
Secondary		15,505,649		\$2.61			\$40,470
Primary		7,233,799		\$2.53			\$18,302
Subtransmission		643,925		\$1.26			\$811
	\$59,682						\$59,583
Secondary/Primary Transmission Delta				\$0.02			
Secondary/Subtransmission Transmission Delta				\$0.03			
Secondary/Primary 115 kV Delta				\$0.04			
Secondary/Subtransmission kV Delta				\$0.05			
Secondary/Primary Substation Delta				\$0.04			
Schedule 85 Price Differentials							
Schedule 85 Energy Allocations	\$153,171	2,713,846	MWh	56.44	mills/kWh		\$153,171
Schedule 85 Secondary Energy		2,122,422	MWh	56.67	mills/kWh		\$120,278
Schedule 85 Primary Energy		591,424	MWh	55.62	mills/kWh		\$32,895
Secondary/Primary Delta				1.05	mills/kWh		
On/off peak delta				15.00	mills/kWh		
Schedule 85 Secondary Energy Pricing							
On-peak		1,390,849	MWh	61.91	mills/kWh		\$86,107
Off-peak		731,573	MWh	46.91	mills/kWh		\$34,318
Schedule 85 Primary Energy Pricing							
On-peak		374,238	MWh	60.86	mills/kWh		\$22,776
Off-peak		217,186	MWh	45.86	mills/kWh		\$9,960
Total Schedule 85 Energy Revenues	\$153,171						\$153,162
Schedule 85 Facility Charges	\$27,263						
Under-recovery of other charges	(\$1,377)						
Total Facilities Revenues to Recover	\$25,886	10,867,098	kW faccap	\$2.38	per kW faccap		\$25,886
Schedule 85 Secondary Facilities							
First 200		3,357,800	kW faccap	\$3.17	per kW faccap		\$10,644
Over 200		4,850,961	kW faccap	\$1.97	per kW faccap		\$9,556
Schedule 85 Primary Facilities							
First 200		567,200	kW faccap	\$3.10	per kW faccap		\$1,758
Over 200		2,091,136	kW faccap	\$1.90	per kW faccap		\$3,973
Secondary/Primary Facilities Delta							\$25,932
			Line Loss	\$0.07			
Economies of Scale Blocking, Rate Continuum				\$1.20			

Schedule 89 Price Differentials						
Schedule 89 Energy Allocations	\$23,979	463,935	MWh	51.69	mills/kWh	\$23,979
Schedule 89 Secondary Energy		0	MWh	52.74	mills/kWh	\$0
Schedule 89 Primary Energy		401,176	MWh	51.78	mills/kWh	\$20,773
Schedule 89 Subtransmission Energy		62,759	MWh	51.07	mills/kWh	\$3,205
Total Schedule 89 Energy Revenues	\$23,979					\$23,978
Secondary/Primary Delta				0.96		
Primary/Subtransmission Delta				0.71		
On/off peak delta				15.00		
Schedule 89 Secondary Energy Pricing						
On-peak		0	MWh	58.69	mills/kWh	\$0
Off-peak		0	MWh	43.69	mills/kWh	\$0
Schedule 89 Primary Energy Pricing						
On-peak		238,945	MWh	57.73	mills/kWh	\$13,794
Off-peak		162,231	MWh	42.73	mills/kWh	\$6,932
Schedule 89 Subtransmission Energy Pricing						
On-peak		41,003	MWh	57.02	mills/kWh	\$2,338
Off-peak		21,755	MWh	42.02	mills/kWh	\$914
Total Schedule 89 Energy Revenues	\$23,979					\$23,979

Schedule 89/90 Facilities Blocking at 4,000 kW

Schedule 89 Facility Charges	\$3,729				
Under-recovery of other charges	<u>\$1,013</u>				
Total Facilities Revenues to Recover	\$4,743	3,573,990	kW faccap	\$1.33	per kW faccap
Secondary					
First 4,000		48,000	kW faccap	\$1.53	per kW faccap
Over 4,000		41,172	kW faccap	\$1.22	per kW faccap
Primary					
First 4,000		1,200,000	kW faccap	\$1.49	per kW faccap
Over 4,000		1,451,944	kW faccap	\$1.18	per kW faccap
Subtransmission					
First 4,000		384,012	kW faccap	\$1.49	per kW faccap
Over 4,000		448,862	kW faccap	\$1.18	per kW faccap
					\$4,743
 Secondary/Primary Facilities Delta					
Blocking	\$0.31			\$0.04	
				\$0.31	

Theoretic Facilities Charge Differential between Schedule 89 Primary and Subtransmission Voltage Service

Billing Demand greater than 4,000 kW

Primary Feeder Costs	\$76,614
Subtransmission Feeder Costs	<u>\$77,041</u>
Delta	(\$427)
Distribution Equal Percent	139%
Equal Percent Difference	(\$593)
Average Annual Facilities Billing Determinant	102,495
Facilities Charge Delta per Faccap	(\$0.01)
Subtransmission Facilities Billing Determinants	832,874
Adder (Subtractor) to Demand Charge (\$000)	\$8

Demand and Energy Loss Differentials for Selected Schedules

Schedule 85: Secondary/Primary	Losses	
Embedded energy loss differentials	1.890%	
Peak demand loss differential	2.852%	
 Schedule 89	Sec/Prim	Prim/Subtrans
Embedded energy loss differentials	1.890%	1.400%
Peak demand loss differentials	2.852%	1.415%

Schedule 7-TOU	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Customers													
Single Phase	2,202	2,204	2,206	2,209	2,211	2,213	2,215	2,218	2,221	2,224	2,226	2,229	26,578
Three Phase	15	15	15	15	15	15	15	15	15	15	15	15	180
Energy (MWh)													
Energy 1st 500 (MWh)	1,046	1,025	1,004	979	957	949	959	965	966	945	979	1,046	11,820
Energy 501-1,000 (MWh)	727	617	546	467	410	403	459	489	474	376	453	673	6,095
Over 1,000 (MWh)	1,853	1,503	1,425	1,197	1,018	1,007	933	985	986	877	1,045	1,517	14,346
Peak Energy Detail (MWh)													
On-peak Energy	721	625	592	526	370	366	364	378	376	341	493	644	5,795
Mid-peak Energy	1,236	1,072	1,014	901	908	898	895	928	923	836	844	1,103	11,557
Off-peak Energy	1,669	1,447	1,370	1,217	1,108	1,096	1,092	1,133	1,127	1,021	1,140	1,489	14,909
Calendar Energy (MWh)	3,470	2,765	2,834	2,525	2,424	2,325	2,518	2,487	2,181	2,347	2,861	3,548	32,286

Energy Revenues at Standard Tariff

Blocks	MWh	Price	Revenues
Block 1 Energy	17,915	63.27	\$1,133,453
Block 2 Energy	14,346	70.49	\$1,011,270
Totals	32,261		\$2,144,723

T&D Revenues at Standard Tariff

	MWh	Price mills/kWh	Revenues
Trans	32,261	2.43	\$78,394
Dist	32,261	46.60	\$1,503,355
Totals			\$1,581,749

Energy Revenues at TOU Pricing

Peaks	MWh	Price	Revenues
On-peak Energy	5,795	123.78	\$717,320
Mid-peak Energy	11,557	70.49	\$814,624
Off-peak Energy	14,909	41.26	\$615,151
Block Credit	17,915	(7.22)	(\$129,343)
Totals	32,261		\$2,017,751

Transmission Revenues at TOU Pricing

Peaks	MWh	Sch 7 TOU D&T Price	TOU Trans Revenues
On-peak Energy	5,795	3.97	\$23,007
Mid-peak Energy	11,557	3.97	\$45,880
Off-peak Energy	14,909	0.00	\$0
Totals	32,261		\$68,886

Distribution Revenues at TOU Pricing

Peaks	MWh	Sch 7 TOU D&T Price	TOU Dist Revenues
On-peak Energy	5,795	76.14	\$441,241
Mid-peak Energy	11,557	76.14	\$879,918
Off-peak Energy	14,909	0.00	\$0
Totals	32,261		\$1,321,159

	Energy	Trans	Dist	Total
TOU Decrement	(\$126,972)	(\$9,508)	(\$182,196)	(\$318,675)
Schedule 7 Energy (MWh)	7,568,918	7,568,918	7,568,918	
Standard Tariff Energy Adder (mills/kWh)	0.02	0.00	0.02	0.04
Revenues	\$151,378	\$0	\$151,378	\$302,757

Schedule 32-TOU	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Customers - Single Phase	241	241	241	241	241	241	242	243	243	243	243	244	2,904
Customers - Three Phase	71	71	71	71	71	71	71	71	71	71	71	71	852
Energy (MWh)													
First 5 MWh	1,120	1,123	1,143	1,103	1,070	1,090	1,117	1,149	1,135	1,092	1,076	1,073	13,292
Over 5 MWh	871	767	707	696	727	826	857	863	886	718	660	728	9,305
Peak Energy Detail (MWH)													
On-peak Energy	390	370	362	353	278	296	305	311	312	280	340	353	3,949
Mid-peak Energy	715	678	664	646	730	778	802	818	821	735	623	647	8,658
Off-peak Energy	886	841	823	801	789	841	867	884	887	795	773	802	9,990
Calendar Energy (MWh)	1,865	1,721	1,847	1,782	1,938	1,880	2,127	2,043	1,826	1,902	1,844	1,812	22,588
	715	678	664	646	730	778	802	818	821	735	623	647	

Energy Revenues at Standard Tariff

Energy	MWh	Price	Revenues
Schedule 32	22,597	58.38	\$1,319,207

Energy Revenues at TOU Pricing

Peaks	MWh	Price	Revenues
On-peak Energy	3,949	103.74	\$409,715
Mid-peak Energy	8,658	58.38	\$505,430
Off-peak Energy	9,990	34.58	\$345,449
Totals	22,597		\$1,260,595
TOU Decrement			(\$58,612)
Schedule 32 Energy (MWh)			1,633,156
Standard Tariff Adder (mills/kWh)			0.04
Schedule 32 Revenues			\$65,326

PORTLAND GENERAL ELECTRIC
Schedule 123, Summary of Sales Normalization Components

Schedule	Fixed Charge Energy Rate mills/kWh	Monthly Fixed Charge Per Customer	Monthly Secondary Fixed Charge Per Customer
7	88.70	\$71.45	\$49.30
32, 532	76.93	\$111.66	
38, 538	104.79	\$717.79	
47	142.07	\$83.67	
49, 549	112.26	\$473.94	
83	37.90	\$790.34	
85-S	36.49	\$4,612.97	
85-P	35.84	\$7,474.14	

Schedule 7 Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	2.43	7,568,918	\$18,392,471	\$23.49	\$1.96
Distribution	44.42	7,568,918	\$336,211,339	\$429.40	\$35.78
Trojan Decommissioning	0.11	7,568,918	\$832,581	\$1.06	\$0.09
CIO	(0.08)	7,568,918	(\$605,513)	(\$0.77)	(\$0.06)
Fixed Generation	41.82	7,568,918	\$316,532,152	\$404.27	\$33.69
Totals	88.70		\$671,363,030	\$857.44	\$71.45
Secondary Fixed Charge (69%)		69%			\$49.30
Number of 2019 Customers	782,981				
Revenues per customer	\$857.44				
Monthly Revenues per customer	\$71.45				
Annual kWh per Customer	9,667				

Schedule 32 Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	2.06	1,633,156	\$3,364,301	\$35.88	\$2.99
Distribution Block 1	40.45	1,427,418	\$57,739,059	\$615.78	\$51.32
Distribution Block 2	13.00	205,738	\$2,674,590	\$28.52	\$2.38
Trojan Decommissioning	0.10	1,633,156	\$163,316	\$1.74	\$0.15
CIO	(0.08)	1,633,156	(\$130,652)	(\$1.39)	(\$0.12)
Fixed Generation	37.86	1,633,156	\$61,831,275	\$659.43	\$54.95
Totals	76.93		\$125,641,887	\$1,339.96	\$111.66
Number of 2019 Customers	93,765				
Revenues per customer	\$1,339.96				
Monthly Revenues per customer	\$111.66				
Annual kWh per Customer	17,418				

Schedule 38 Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	1.71	31,475	\$53,822	\$140.56	\$11.71
Distribution Block 1	68.07	31,475	\$2,142,476	\$5,595.15	\$466.26
Distribution Block 2	0.00	0	\$0	\$0.00	\$0.00

Trojan Decommissioning	0.09	31,475	\$2,833	\$7.40	\$0.62
CIO	0.00	31,475	\$0	\$0.00	\$0.00
Fixed Generation	34.92	31,475	\$1,099,093	\$2,870.32	\$239.19
Totals	104.79		\$3,298,223	\$8,613.42	\$717.79

Number of 2019 Customers	383
Revenues per customer	\$8,613.42
Monthly Revenues per customer	\$717.79
Annual kWh per Customer	82,197

Schedule 47 Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	2.13	21,633	\$46,079	\$15.05	\$1.25
Distribution Block 1	106.84	7,536	\$805,133	\$263.03	\$21.92
Distribution Block 2	86.84	14,098	\$1,224,233	\$399.95	\$33.33
Trojan Decommissioning	0.12	21,633	\$2,596	\$0.85	\$0.07
CIO	0.00	21,633	\$0	\$0.00	\$0.00
Fixed Generation	46.01	21,633	\$995,355	\$325.17	\$27.10
Totals	142.07		\$3,073,396	\$1,004.05	\$83.67

Number of 2019 Customers	3,061
Revenues per customer	\$1,004.05
Monthly Revenues per customer	\$83.67
Annual kWh per Customer	7,067

Schedule 49 Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	2.12	64,540	\$136,825	\$107.40	\$8.95
Distribution Block 1	78.28	19,051	\$1,491,343	\$1,170.60	\$97.55
Distribution Block 2	58.28	45,489	\$2,651,095	\$2,080.92	\$173.41
Trojan Decommissioning	0.12	64,540	\$7,745	\$6.08	\$0.51
CIO	0.00	64,540	\$0	\$0.00	\$0.00
Fixed Generation	45.84	64,540	\$2,958,528	\$2,322.24	\$193.52
Totals	112.26		\$7,245,537	\$5,687.23	\$473.94

Number of 2019 Customers	1,274
Revenues per customer	\$5,687.23
Monthly Revenues per customer	\$473.94
Annual kWh per Customer	50,660

Schedule 83 Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	0.00	0	\$0	\$0.00	\$0.00
Distribution Block 1	0.00	0	\$0	\$0.00	\$0.00
Distribution Block 2	0.00	0	\$0	\$0.00	\$0.00
Trojan Decommissioning	0.10	2,884,961	\$288,496	\$25.02	\$2.09
CIO	0.00	2,884,961	\$0	\$0.00	\$0.00
Fixed Generation	37.80	2,884,961	\$109,051,542	\$9,459.03	\$788.25
Totals	37.90		\$109,340,038	\$9,484.05	\$790.34

Number of 2019 Customers	11,529
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Revenues per customer \$9,484.05
Monthly Revenues per customer \$790.34
Annual kWh per Customer 250,239

Schedule 85-S Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	0.00	0	\$0	\$0.00	\$0.00
Distribution Block 1	0.00	0	\$0	\$0.00	\$0.00
Distribution Block 2	0.00	0	\$0	\$0.00	\$0.00
Trojan Decommissioning	0.09	2,122,422	\$191,018	\$136.53	\$11.38
CIO	0.00	2,122,422	\$0	\$0.00	\$0.00
Fixed Generation	36.40	2,122,422	\$77,256,166	\$55,219.13	\$4,601.59
Totals	36.49		\$77,447,184	\$55,355.66	\$4,612.97

Number of 2019 Customers 1,399

Revenues per customer \$55,355.66
Monthly Revenues per customer \$4,612.97
Annual kWh per Customer 1,517,009

Schedule 85-P Tariff Category	Price mills/kWh	2019 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	0.00	0	\$0	\$0.00	\$0.00
Distribution Block 1	0.00	0	\$0	\$0.00	\$0.00
Distribution Block 2	0.00	0	\$0	\$0.00	\$0.00
Trojan Decommissioning	0.09	591,424	\$53,228	\$225.23	\$18.77
CIO	0.00	591,424	\$0	\$0.00	\$0.00
Fixed Generation	35.75	591,424	\$21,143,421	\$89,464.40	\$7,455.37
Totals	35.84		\$21,196,649	\$89,689.63	\$7,474.14

Number of 2019 Customers 236

Revenues per customer \$89,689.63
Monthly Revenues per customer \$7,474.14
Annual kWh per Customer 2,502,501

**PORTLAND GENERAL ELECTRIC
SCHEDULES 15 & 91/95 COMPARISON OF PRICES**

Schedule 91 & 95 Categories	MWH	2019 GRC Price	2018 Price	Delta Price	Delta Revenues	Percent Change of Total Bill
Functional Costs						
Trans. & Rel. Serv. Charge	50,583	1.52	1.29	0.23	\$12	0.11%
Distribution Charge	50,583	61.31	59.08	2.23	\$113	1.03%
Franchise Fees & Other	50,583	4.58	4.62	(0.04)	(\$2)	-0.02%
CIO	50,583	(1.90)	(0.93)	(0.97)	(\$49)	-0.45%
COS Energy Charge	50,583	48.98	50.54	(1.56)	(\$79)	-0.72%
Schedule 125	50,583	0.00	0.00	0.00	\$0	0.00%
Schedule 122	50,583	0.00	0.00	0.00	\$0	0.00%
Fixed Charges	50,583	<u>104.67</u>	<u>102.61</u>	<u>2.06</u>	<u>\$104</u>	<u>0.95%</u>
Subtotal		219.16	217.21	1.95	\$98	0.90%

Schedule 15 Categories	MWH	2019 GRC Price	2018 Price	Delta Price	Delta Revenues	Percent Change of Total Bill
Functional Costs						
Trans. & Rel. Serv. Charge	15,774	1.52	1.29	0.23	\$4	0.10%
Distribution Charge	15,774	53.55	55.30	(1.75)	(\$28)	-0.80%
Franchise Fees & Other	15,774	4.34	4.58	(0.24)	(\$4)	-0.11%
CIO	15,774	6.10	2.89	3.21	\$51	1.46%
COS Energy Charge	15,774	48.98	50.54	(1.56)	(\$25)	-0.71%
Schedule 125	15,774	0.00	0.00	0.00	\$0	0.00%
Schedule 122	15,774	0.00	0.00	0.00	\$0	0.00%
Fixed Charges	15,774	<u>103.18</u>	<u>104.69</u>	<u>(1.50)</u>	<u>(\$24)</u>	<u>-0.69%</u>
Subtotal		217.67	219.29	(1.61)	(\$25)	-0.74%

Schedule 15 T&D prices	15,774	59.41	\$937	\$6.10	\$96,221	
Schedule 91 T&D prices	<u>50,583</u>	67.41	<u>\$3,410</u>	<u>(\$1.90)</u>	<u>(\$96,108)</u>	
	66,357		\$4,347	\$65.51	\$114	
Schedule 15 Generation Price	15,774	48.98	\$773	\$0.00	\$48.98	
Schedule 91 Generation Price	<u>50,583</u>	48.98	<u>\$2,478</u>	<u>\$0.00</u>	\$48.98	
	66,357		\$3,250	\$48.98		

System Usage Charge Summary

Schedules	Total mills/kWh
Schedule 7	2.18
Schedule 15	10.44
Schedule 515	9.14
Schedule 32	1.87
Schedule 532	0.32
Schedule 38	2.34
Schedule 538	0.91
Schedule 47	4.15
Schedule 49	2.71
Schedule 549	0.84
Schedule 83	6.99
Schedule 583	5.44
Schedule 85-S	0.97
Schedule 485-S	(0.28)
Schedule 585-S	(0.28)
Schedule 89-S GT 4 MW	1.02
Schedule 589-S GT 4 MW	(0.14)
Schedule 85-P	0.93
Schedule 485-P	(0.29)
Schedule 585-P	(0.29)
Schedule 89-P GT 4 MW	0.99
Schedule 489-P GT 4 MW	(0.15)
Schedule 589-P GT 4 MW	(0.15)
Schedule 89-T	0.97
Schedule 489-T	(0.15)
Schedule 589-T	(0.15)
Schedule 90-P	0.54
Schedule 490	(0.77)
Schedule 590	(0.77)
Schedules 91/95	2.68
Schedule 591/595	1.38
Schedule 92	1.10
Schedule 592	(0.26)

Daily Schedule 76 Prices

Schedule 76 ERP Daily Distribution Demand Charge

	Secondary	Primary	Subtransmission
Annual	\$31.32	\$30.36	\$15.24
Monthly	\$2.61	\$2.53	\$1.27
Daily	0.102	0.099	0.049 (annual charge / (313-5))

Schedule 76 ERP Daily Transmission Demand Charge

	Secondary	Primary	Subtransmission
Annual	\$9.36	\$9.12	\$9.00
Monthly	\$0.78	\$0.76	\$0.75
Daily	0.030	0.030	0.029 (annual charge / (313-5))

Daily charges are for on-peak hours only

Twenty Five Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$29.00	cust.	1	\$29.00	
Transmission Charge	2.06	kWh	5,475	\$11.28	
Distribution Charge					
First 5,000 kWh	40.45	kWh	5,000	\$202.25	
Over 5,000 kWh	13.00	kWh	475	\$6.18	
System Usage Charge	1.87	kWh	5,475	\$10.24	
Energy Charges	58.42	kWh	5,475	<u>\$319.85</u>	10.57
Total Charges				<u>\$578.80</u>	
Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$45.00	cust.	1	\$45.00	
Transmission Charge	\$0.78	dem	30	\$23.40	
Distribution Demand Charge	\$2.61	dem	30	\$78.30	
Distribution Facilities Charge					
First 30 kW	\$3.50	fac	30	\$105.00	
Over 30 kW	\$3.40	fac	0	\$0.00	
System Usage Charge	6.99	kWh	5,475	\$38.27	
Energy Charges					
On-peak (64%)	63.35	kWh	3,504	\$221.98	
Off-peak (36%)	48.35	kWh	1,971	<u>\$95.30</u>	
Total Charges				<u>\$607.25</u>	11.09
Load Factor	25.00%		Percent Change		4.92%
Demand	30				
Billing Hours	730				

Thirty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$29.00	cust.	1	\$29.00	
Transmission Charge	2.06	kWh	6,570	\$13.53	
Distribution Charge					
First 5,000 kWh	40.45	kWh	5,000	\$202.25	
Over 5,000 kWh	13.00	kWh	1,570	\$20.41	
System Usage Charge	1.87	kWh	6,570	\$12.29	
Energy Charges	58.42	kWh	6,570	<u>\$383.82</u>	10.07
Total Charges				\$661.30	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$45.00	cust.	1	\$45.00	
Transmission Charge	\$0.78	dem	30	\$23.40	
Distribution Demand Charge	\$2.61	dem	30	\$78.30	
Distribution Facilities Charge					
First 30 kW	\$3.50	fac	30	\$105.00	
Over 30 kW	\$3.40	fac	0	\$0.00	
System Usage Charge	6.99	kWh	6,570	\$45.92	
Energy Charges					
On-peak (64%)	63.35	kWh	4,205	\$266.39	
Off-peak (36%)	48.35	kWh	2,365	<u>\$114.35</u>	
Total Charges				\$678.36	10.33
Load Factor	30.00%		Percent Change		2.58%
Demand	30				
Billing Hours	730				

Forty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$29.00	cust.	1	\$29.00	
Transmission Charge	2.06	kWh	8,760	\$18.05	
Distribution Charge					
First 5,000 kWh	40.45	kWh	5,000	\$202.25	
Over 5,000 kWh	13.00	kWh	3,760	\$48.88	
System Usage Charge	1.87	kWh	8,760	\$16.38	
Energy Charges	58.42	kWh	8,760	<u>\$511.76</u>	9.43
Total Charges				\$826.32	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$45.00	cust.	1	\$45.00	
Transmission Charge	\$0.78	dem	30	\$23.40	
Distribution Demand Charge	\$2.61	dem	30	\$78.30	
Distribution Facilities Charge					
First 30 kW	\$3.50	fac	30	\$105.00	
Over 30 kW	\$3.40	fac	0	\$0.00	
System Usage Charge	6.99	kWh	8,760	\$61.23	
Energy Charges					
On-peak (64%)	63.35	kWh	5,606	\$355.14	
Off-peak (36%)	48.35	kWh	3,154	<u>\$152.50</u>	
Total Charges				\$820.57	9.37
Load Factor	40.00%		Percent Change		-0.70%
Demand	30				
Billing Hours	730				

Fifty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$29.00	cust.	1	\$29.00	
Transmission Charge	2.06	kWh	10,950	\$22.56	
Distribution Charge					
First 5,000 kWh	40.45	kWh	5,000	\$202.25	
Over 5,000 kWh	13.00	kWh	5,950	\$77.35	
System Usage Charge	1.87	kWh	10,950	\$20.48	
Energy Charges	58.42	kWh	10,950	<u>\$639.70</u>	9.05
Total Charges				\$991.34	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$45.00	cust.	1	\$45.00	
Transmission Charge	\$0.78	dem	30	\$23.40	
Distribution Demand Charge	\$2.61	dem	30	\$78.30	
Distribution Facilities Charge					
First 30 kW	\$3.50	fac	30	\$105.00	
Over 30 kW	\$3.40	fac	0	\$0.00	
System Usage Charge	6.99	kWh	10,950	\$76.54	
Energy Charges					
On-peak (64%)	63.35	kWh	7,008	\$443.96	
Off-peak (36%)	48.35	kWh	3,942	<u>\$190.60</u>	
Total Charges				\$962.80	8.79
Load Factor	50.00%		Percent Change		-2.88%
Demand	30				
Billing Hours	730				

Sixty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$29.00	cust.	1	\$29.00	
Transmission Charge	2.06	kWh	13,140	\$27.07	
Distribution Charge					
First 5,000 kWh	40.45	kWh	5,000	\$202.25	
Over 5,000 kWh	13.00	kWh	8,140	\$105.82	
System Usage Charge	1.87	kWh	13,140	\$24.57	
Energy Charges	58.42	kWh	13,140	<u>\$767.64</u>	8.80
Total Charges				\$1,156.35	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$45.00	cust.	1	\$45.00	
Transmission Charge	\$0.78	dem	30	\$23.40	
Distribution Demand Charge	\$2.61	dem	30	\$78.30	
Distribution Facilities Charge					
First 30 kW	\$3.50	fac	30	\$105.00	
Over 30 kW	\$3.40	fac	0	\$0.00	
System Usage Charge	6.99	kWh	13,140	\$91.85	
Energy Charges					
On-peak (64%)	63.35	kWh	8,410	\$532.77	
Off-peak (36%)	48.35	kWh	4,730	<u>\$228.70</u>	
Total Charges				\$1,105.02	8.41
Load Factor	60.00%		Percent Change		-4.44%
Demand	30				
Billing Hours	730				

Eighty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$29.00	cust.	1	\$29.00	
Transmission Charge	2.06	kWh	17,520	\$36.09	
Distribution Charge					
First 5,000 kWh	40.45	kWh	5,000	\$202.25	
Over 5,000 kWh	13.00	kWh	12,520	\$162.76	
System Usage Charge	1.87	kWh	17,520	\$32.76	
Energy Charges	58.42	kWh	17,520	<u>\$1,023.52</u>	8.48
Total Charges				\$1,486.38	
Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$45.00	cust.	1	\$45.00	
Transmission Charge	\$0.78	dem	30	\$23.40	
Distribution Demand Charge	\$2.61	dem	30	\$78.30	
Distribution Facilities Charge					
First 30 kW	\$3.50	fac	30	\$105.00	
Over 30 kW	\$3.40	fac	0	\$0.00	
System Usage Charge	6.99	kWh	17,520	\$122.46	
Energy Charges					
On-peak (64%)	63.35	kWh	11,213	\$710.34	
Off-peak (36%)	48.35	kWh	6,307	<u>\$304.94</u>	
Total Charges				\$1,389.44	7.93
Load Factor	80.00%		Percent Change		-6.52%
Demand	30				
Billing Hours	730				

Proposed Schedule 83 Secondary 25% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$45.00	cust.	1	\$45.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 30 kW	\$3.50	fac	30	\$105.00
Over 30 kW	\$3.40	fac	170	\$578.00
System Usage Charge	6.99	kWh	36,500	\$255.14
Energy Charge				
On-peak (64%)	63.35	kWh	23,360	\$1,479.86
Off-peak (36%)	48.35	kWh	13,140	\$635.32
Total Charges				\$3,776.31
Revenue Delta				-4.88%

Proposed Schedule 85 Secondary 25% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$560.00	cust.	1	\$560.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 200 kW	\$3.17	fac	200	\$634.00
Over 200 kW	\$1.97	fac	0	\$0.00
System Usage Charge	0.97	kWh	36,500	\$35.41
Energy Charge				
On-peak (64%)	61.91	kWh	23,360	\$1,446.22
Off-peak (36%)	46.91	kWh	13,140	\$616.40
Total Charges				\$3,970.02

Proposed Schedule 83 Secondary 40% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$45.00	cust.	1	\$45.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 30 kW	\$3.50	fac	30	\$105.00
Over 30 kW	\$3.40	fac	170	\$578.00
System Usage Charge	6.99	kWh	58,400	\$408.22
Energy Charge				
On-peak (64%)	63.35	kWh	37,376	\$2,367.77
Off-peak (36%)	48.35	kWh	21,024	\$1,016.51
Total Charges				\$5,198.50
Revenue Delta				-0.58%

Proposed Schedule 85 Secondary 40% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$560.00	cust.	1	\$560.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 200 kW	\$3.17	fac	200	\$634.00
Over 200 kW	\$1.97	fac	0	\$0.00
System Usage Charge	0.97	kWh	58,400	\$56.65
Energy Charge				
On-peak (64%)	61.91	kWh	37,376	\$2,313.95
Off-peak (36%)	46.91	kWh	21,024	\$986.24
Total Charges				\$5,228.83

Proposed Schedule 83 Secondary 50% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$45.00	cust.	1	\$45.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 30 kW	\$3.50	fac	30	\$105.00
Over 30 kW	\$3.40	fac	170	\$578.00
System Usage Charge	6.99	kWh	73,000	\$510.27
Energy Charge		kWh		
On-peak (64%)	63.35	kWh	46,720	\$2,959.71
Off-peak (36%)	48.35	kWh	26,280	\$1,270.64
Total Charges				\$6,146.62
Revenue Delta				1.29%

Proposed Schedule 85 Secondary 50% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$560.00	cust.	1	\$560.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 200 kW	\$3.17	fac	200	\$634.00
Over 200 kW	\$1.97	fac	0	\$0.00
System Usage Charge	0.97	kWh	73,000	\$70.81
Energy Charge		kWh		
On-peak (64%)	61.91	kWh	46,720	\$2,892.44
Off-peak (36%)	46.91	kWh	26,280	\$1,232.79
Total Charges				\$6,068.04

Proposed Schedule 83 Secondary 60% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$45.00	cust.	1	\$45.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 30 kW	\$3.50	fac	30	\$105.00
Over 30 kW	\$3.40	fac	170	\$578.00
System Usage Charge	6.99	kWh	87,600	\$612.32
Energy Charge		kWh		
On-peak (64%)	63.35	kWh	56,064	\$3,551.65
Off-peak (36%)	48.35	kWh	31,536	\$1,524.77
Total Charges				\$7,094.74
Revenue Delta				2.71%

Proposed Schedule 85 Secondary 60% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$560.00	cust.	1	\$560.00
Transmission Charge	\$0.78	dem	200	\$156.00
Distribution Demand Charge	\$2.61	dem	200	\$522.00
Distribution Facilities Charge				
First 200 kW	\$3.17	fac	200	\$634.00
Over 200 kW	\$1.97	fac	0	\$0.00
System Usage Charge	0.97	kWh	87,600	\$84.97
Energy Charge		kWh		
On-peak (64%)	61.91	kWh	56,064	\$3,470.92
Off-peak (36%)	46.91	kWh	31,536	\$1,479.35
Total Charges				\$6,907.25

Proposed Schedule 83 Secondary 80% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$45.00	cust.		1 \$45.00
Transmission Charge	\$0.78	dem		200 \$156.00
Distribution Demand Charge	\$2.61	dem		200 \$522.00
Distribution Facilities Charge				
First 30 kW	\$3.50	fac		30 \$105.00
Over 30 kW	\$3.40	fac		170 \$578.00
System Usage Charge	6.99	kWh	116,800	\$816.43
Energy Charge		kWh		
On-peak (64%)	63.35	kWh	74,752	\$4,735.54
Off-peak (36%)	48.35	kWh	42,048	\$2,033.02
Total Charges				\$8,990.99
Revenue Delta				4.72%

Proposed Schedule 85 Secondary 80% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$560.00	cust.		1 \$560.00
Transmission Charge	\$0.78	dem		200 \$156.00
Distribution Demand Charge	\$2.61	dem		200 \$522.00
Distribution Facilities Charge				
First 200 kW	\$3.17	fac		200 \$634.00
Over 200 kW	\$1.97	fac		0 \$0.00
System Usage Charge	0.97	kWh	116,800	\$113.30
Energy Charge		kWh		
On-peak (64%)	61.91	kWh	74,752	\$4,627.90
Off-peak (36%)	46.91	kWh	42,048	\$1,972.47
Total Charges				\$8,585.66

**PORTLAND GENERAL ELECTRIC
DISPOSITION OF SYSTEM USAGE CHARGE
SELECTED SCHEDULES**

	FF & Other	CIO	Flat Energy Charge	Block 1 Energy Charge	Block 2 Energy Charge	Block 3 Energy Charge	On-peak Energy Charge	Off-peak Energy Charge	Flat Distribution Charge	Block 1 Distribution Charge	Block 2 Distribution Charge
Schedule 7	2.26	(0.08)		63.29	63.29	70.51			44.42		
Schedule 15	4.34	6.10	48.98						53.55		
Schedule 32	1.95	(0.08)	58.42							40.45	13.00
Schedule 38	2.34	0.00					60.70	45.70	68.07		
Schedule 47	4.15	0.00	70.94							106.84	86.84
Schedule 49	2.71	0.00	70.68							78.28	58.28
Schedule 91 & 95	4.58	(1.90)	48.98						61.31		
Schedule 92	1.10	0.00	51.09						28.15		

Tariff Charges with Franchise Fees & Regulatory Assets and CIO

	Flat Energy Charge	Block 1 Energy Charge	Block 2 Energy Charge	Block 3 Energy Charge	On-peak Energy Charge	Off-peak Energy Charge	Flat Distribution Charge	Block 1 Distribution Charge	Block 2 Distribution Charge	System Usage Charge
Schedule 7		63.29	63.29	70.51			46.60			
Schedule 15	48.98						63.99			
Schedule 32	58.42							42.32	14.87	
Schedule 38					60.70	45.70	70.41			
Schedule 47	70.94							110.99	90.99	
Schedule 49	70.68							80.99	60.99	
Schedule 91 & 95	48.98						63.99			
Schedule 92	51.09						29.25			
Schedule 515							62.69			
Schedule 532								40.77	13.32	
Schedule 538							68.98			
Schedule 549								79.12	59.12	
Schedule 583										5.44
Schedule 591							62.69			
Schedule 592							27.89			

PORTLAND GENERAL ELECTRIC
MARGINAL COSTS FOR DISTRIBUTION & CONSUMER SERVICES

Grouping	DISTRIBUTION SERVICES										CONSUMER SERVICES						Uncollectibles By Consumer Type Percent		
	Sub-transmission (\$ per kW)	Sub-station (\$ per kW)	Feeder Backbone By Consumer Type (\$ per kW)		Feeder Local Facilities By Consumer Type (\$ per kW)		Service & Trans. By Consumer Type (\$ per Cust)		Meters By Consumer Type (\$ per Consumer)		Consumer Service (Lights)	Metering By Consumer Type (\$ per Cons/Light)		Billing By Consumer Type (\$ per Cons/Light)		Other By Consumer Type (\$ per Cons/Light)			
			Single-Phase	Three-Phase	Single-Phase	Three-Phase	Single-Phase	Three-Phase	Single-Phase	Three-Phase		Single-Phase	Three-Phase	Single-Phase	Three-Phase	Single-Phase	Three-Phase	Single-Phase	Three-Phase
SCH 7 Residential	\$12.15	\$12.24	\$20.41	\$20.41	\$20.10	\$20.10	\$83.97	\$140.51	\$19.43	\$58.07		\$0.31	\$0.31	\$39.01	\$39.01	\$24.05	\$24.05	92.60%	0.00%
SCH 15 Outdoor Area Lighting Residential	\$12.15	\$12.24	\$21.38	N/A	\$20.78		\$2.89	N/A	N/A	N/A	\$3.89	\$0.00	N/A	\$6.28	N/A	\$4.95	N/A	0.47%	
Commercial	\$12.15	\$12.24	\$21.38	N/A	\$20.78		\$2.89	N/A	N/A	N/A	\$3.89	\$0.00	N/A	\$8.06	N/A	\$4.95	N/A	0.34%	
SCH 32 General Service <30 kW	\$12.15	\$12.24	\$24.70	\$24.70	\$27.24	\$12.94	\$150.15	\$236.86	\$17.23	\$72.71		\$0.69	\$0.69	\$33.09	\$33.09	\$46.82	\$46.82	2.81%	1.89%
SCH 38 Opt TOD G.S. > 30 kW	\$12.15	\$12.24	\$24.54	\$24.54	\$26.38	\$13.09	\$196.72	\$581.00	\$58.07	\$130.80		\$11.27	\$11.27	\$41.14	\$41.14	\$109.69	\$109.69	0.00%	0.00%
SCH 47 Irrig. & Drain. Pump.< 30 kW	\$12.15	\$12.24	\$24.70	\$24.70	\$23.90	\$11.35	\$10.77	\$21.43	\$57.73	\$86.54		\$1.05	\$1.05	\$33.15	\$33.15	\$44.91	\$44.91	0.01%	0.09%
SCH 49 Irrig. & Drain. Pump.> 30 kW	\$12.15	\$12.24	\$24.54	\$24.54	\$24.34	\$12.08	\$144.93	\$144.93	\$58.07	\$71.36		\$1.18	\$1.18	\$36.48	\$36.48	\$109.48	\$109.48	0.00%	0.09%
SCH 83 Secondary	\$12.15	\$12.24	\$24.54	\$24.54	\$26.38	\$13.09	\$388.14	\$1,050.66	\$57.73	\$129.44		\$2.57	\$2.57	\$41.59	\$41.59	\$205.64	\$205.64	0.07%	1.05%
SCH 85 Secondary	\$12.15	\$12.24		\$19.54		\$7.12	N/A	\$2,419.89	N/A	\$162.33		\$11.93	\$11.93	\$83.38	\$83.38	\$1,220.21	\$1,220.21		0.50%
Primary	\$12.15	\$12.24		\$19.54		\$7.12			N/A	\$1,805.54		\$11.93	\$11.93	\$83.38	\$83.38	\$1,220.21	\$1,220.21		0.08%
SCH 89 Secondary	\$12.15	\$12.24		\$76,614.00		N/A		\$14,124.26	N/A	\$175.85		N/A	\$1.48	N/A	\$181.76	N/A	\$9,411.51		0.00%
Primary	\$12.15	\$12.24		\$76,614.00		N/A			N/A	\$1,809.13		N/A	\$1.48	N/A	\$181.76	N/A	\$9,411.51		0.00%
Subtransmission	\$12.15	N/A		\$77,041.00		N/A			N/A	\$19,774.56		N/A	\$1.48		\$181.76	N/A	\$9,411.51		0.00%
SCH 90 Primary	\$12.15	\$12.24		\$365,087.00				\$0.00		\$1,805.54			\$0.21		\$17.96		\$33,521.59		0.00%
SCH 91 & 95 Street & Highway Light	\$12.15	\$12.24	\$21.38	N/A	\$23.11		\$2.89	N/A	N/A	N/A	\$3.89	\$0.00	N/A	\$984.82	N/A	\$4.95	N/A	0.00%	
SCH 92 Traffic Signals	\$12.15	\$12.24		\$21.38		\$10.44	\$9.19	N/A	N/A	N/A		\$0.00	N/A	\$981.15	N/A	N/A	\$4.95		0.00%

**PORTLAND GENERAL ELECTRIC
SUMMARY OF MARGINAL COST STUDY**

SCHEDULE	SUBTRANSMISSION COSTS	SUBSTATION COSTS	FEEDER BACKBONE COSTS	FEEDER TAPLINE COSTS	SERVICE & TRANSFORMER COSTS	METER COSTS	CUSTOMER COSTS
Schedule 7 Residential							
Single-phase	\$12.15	\$12.24	\$20.41	\$20.10	\$83.97	\$19.43	\$63.37
Three-phase	\$12.15	\$12.24	\$20.41	\$20.10	\$140.51	\$58.07	\$63.37
Schedule 15 Residential	\$12.15	\$12.24	\$21.38	\$20.78	\$2.89	N/A	\$11.23
Schedule 15 Commercial	\$12.15	\$12.24	\$21.38	\$20.78	\$2.89	N/A	\$13.01
Schedule 32 General Service							
Single-phase	\$12.15	\$12.24	\$24.70	\$27.24	\$150.15	\$17.23	\$80.60
Three-phase	\$12.15	\$12.24	\$24.70	\$12.94	\$236.86	\$72.71	\$80.60
Schedule 38 TOU							
Single-phase	\$12.15	\$12.24	\$24.54	\$26.38	\$196.72	\$58.07	\$162.10
Three-phase	\$12.15	\$12.24	\$24.54	\$13.09	\$581.00	\$130.80	\$162.10
Schedule 47 Irrigation							
Single-phase	\$12.15	\$12.24	\$24.70	\$23.90	\$10.77	\$57.73	\$79.11
Three-phase	\$12.15	\$12.24	\$24.70	\$11.35	\$21.43	\$86.54	\$79.11
Schedule 49 Irrigation							
Single-phase	\$12.15	\$12.24	\$24.54	\$24.34	\$144.93	\$58.07	\$147.14
Three-phase	\$12.15	\$12.24	\$24.54	\$12.08	\$144.93	\$71.36	\$147.14
Schedule 83 Secondary General Service							
Single-phase	\$12.15	\$12.24	\$24.54	\$26.38	\$388.14	\$57.73	\$249.80
Three-phase	\$12.15	\$12.24	\$24.54	\$13.09	\$1,050.66	\$129.44	\$249.80
Schedule 85 Secondary General Service	\$12.15	\$12.24	\$19.54	\$7.12	\$2,419.89	\$162.33	\$1,315.52
Schedule 85 Primary General Service	\$12.15	\$12.24	\$19.54	\$7.12	\$0.00	\$1,805.54	\$1,315.52
Schedule 89 Secondary	\$12.15	\$12.24	\$76,614	N/A	\$14,124.26	\$175.85	\$9,594.75
Schedule 89 Primary	\$12.15	\$12.24	\$76,614	N/A	\$0.00	\$1,809.13	\$9,594.75
Schedule 89 Subtransmission	\$12.15	N/A	\$77,041	N/A	N/A	\$19,774.56	\$9,594.75
Schedule 90 Primary	\$12.15	\$12.24	\$365,087.00	N/A	\$0.00	\$1,805.54	\$33,539.76
Schedules 91 & 95 Streetlighting	\$12.15	\$12.24	\$21.38	\$23.11	\$2.89	N/A	\$989.77
Schedules 92 Traffic Signals	\$12.15	\$12.24	\$21.38	\$10.44	\$9.19	N/A	\$986.10

Summary of 2013 - 2017 Write-offs by Schedule

Schedule	Allocation Percent
Schedule 7	92.60%
Schedule 15	0.81%
Schedule 32	4.70%
Schedule 38	0.00%
Schedule 47	0.10%
Schedule 49	0.09%
Schedule 83	1.12%
Schedule 85	0.58%
Schedule 89	0.00%
Schedule 90	0.00%
Schedule 91 & 95	0.00%
Schedule 92	0.00%
Total	100.00%

	2018	2019 Proposed	
Employee Discount			
Customers	2,631	2,631	
Total Consumption	30,657	30,657	
Customer Charge	\$11.00	\$11.00	
Table 1 Volumetric Charge Block 1	110.30	112.34	
Table 1 Volumetric Charge Block 2	117.52	119.56	
Table 2 Volumetric Charge Block 1	100.14	103.12	
Table 2 Volumetric Charge Block 2	117.52	114.61	
Table 3 Volumetric Charge Block 1	101.11	106.60	
Table 3 Volumetric Charge Block 2	118.49	118.09	
Annual Customer Charges	\$347,292	\$347,292	
Discount	(\$86,823)	(\$86,823)	
Annual Volumetric Charges			
Block 1 MWH	23,662	23,662	
Block 2 MWH	6,995	6,995	
Table 1			
Table 1 Block 1 Revenue	\$2,609,901	\$2,658,171	
Table 1 Block 2 Revenue	\$822,079	\$836,349	
Volumetric Revenue	\$3,431,979	\$3,494,520	
Table 1 Volumetric Discount	(\$857,995)	(\$873,630)	
Table 2			
Block 1 Revenue	\$2,369,496	\$2,440,009	
Block 2 Revenue	\$822,079	\$801,723	
Volumetric Revenue	\$3,191,575	\$3,241,731	
Discount	(\$797,894)	(\$810,433)	
Table 3			
Block 1 Revenue	\$2,392,448	\$2,522,352	
Block 2 Revenue	\$828,864	\$826,066	
Volumetric Revenue	\$3,221,312	\$3,348,418	
Discount	(\$805,328)	(\$837,104)	
Table 1	(\$944,818)	(\$960,453)	
Table 2	(\$884,717)	(\$897,256)	
Table 3	(\$892,151)	(\$923,927)	
Table 4	(\$892,151)	(\$923,927)	
Block 1			
Transmission	2.09	2.43	
Distribution	40.86	44.44	
Generation	65.10	63.29	
System Usage	2.25	2.18	
Schedule 125	0.00	0.00	
Schedule 143	(0.19)	(0.17)	
Schedule 145	0.27	0.26	
Schedule 102	(10.16)	(9.22)	
Schedule 105	(0.16)	0.13	
Schedule 109	4.93	3.97	
Schedule 110	0.05	0.05	
Schedule 144	0.30	0.30	
Schedule 146	0.00	0.00	
Schedule 122a	0.00	0.00	
Schedule 122b	0.00	0.00	
Schedule 123	0.09	2.00	
Schedule 126	0.00	0.00	
Schedule 135	0.14	0.44	
Schedule 137	0.47	0.47	
Block 1 Total	101.11	106.60	(less Sch 109)
Block 2			
Transmission	2.09	2.43	
Distribution	40.86	44.44	
Generation	72.32	70.51	
System Usage	2.25	2.18	
Schedule 125	0.00	0.00	
Schedule 143	(0.19)	(0.17)	
Schedule 145	0.27	0.26	
Schedule 102		(4.95)	
Schedule 105	(0.16)	0.13	
Schedule 109	4.93	3.97	
Schedule 110	0.05	0.05	
Schedule 112	0.30	0.30	
Schedule 146	0.00	0.00	
Schedule 122a	0.00	0.00	
Schedule 122b	0.00	0.00	
Schedule 123	0.09	2.00	
Schedule 126	0.00	0.00	
Schedule 135	0.14	0.44	
Schedule 137	0.47	0.47	
Block 2 Total	118.49	118.09	(less Sch 109)

DA Billing Demand for Transmission & Ancillary Revenues

Schedule	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Schedule 485-S	87,911	87,914	87,880	89,007	93,693	99,699	101,789	106,671	104,614	99,663	93,756	91,599	1,144,196
Schedule 485-P	52,267	52,132	50,167	53,977	60,789	59,983	58,039	61,928	63,419	56,343	55,414	49,593	674,051
Schedule 489-S	498	539	502	1,483	2,052	3,164	7,004	7,099	7,764	6,540	4,119	2,053	42,817
Schedule 489-P	115,907	116,357	114,583	127,121	132,278	137,410	137,392	136,639	139,104	135,217	130,732	124,182	1,546,922
Schedule 489-T	33,230	30,851	27,817	29,424	30,646	29,163	28,400	31,827	29,698	32,490	35,921	31,937	371,404
Totals	289,813	287,793	280,949	301,012	319,458	329,419	332,624	344,164	344,599	330,253	319,942	299,364	3,779,390
OATT (Attachment N)	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	\$0.49	
Revenues	\$142,008	\$141,019	\$137,665	\$147,496	\$156,534	\$161,415	\$162,986	\$168,640	\$168,854	\$161,824	\$156,772	\$146,688	\$1,851,901
Off-peak increments	4,699	4,266	4,493	4,854	4,915	5,366	6,934	5,371	5,502	5,608	4,530	4,415	60,953

DA Billing for Operating & Spinning Reserve Revenues

Billing Demand	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Secondary	88,409	88,453	88,382	90,490	95,745	102,863	108,793	113,770	112,378	106,203	97,875	93,652	1,187,013
Primary	168,174	168,489	164,750	181,098	193,067	197,393	195,431	198,567	202,523	191,560	186,146	173,775	2,220,973
Subtransmission	33,230	30,851	27,817	29,424	30,646	29,163	28,400	31,827	29,698	32,490	35,921	31,937	371,404
Totals	289,813	287,793	280,949	301,012	319,458	329,419	332,624	344,164	344,599	330,253	319,942	299,364	3,779,390
Coincidence Factor (based on 2016 data)	0.831	0.841	0.786	0.777	0.798	0.782	0.812	0.797	0.851	0.828	0.827	0.850	
Schedule 5 Prices	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	
Schedule 6 Prices	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	\$0.100425	
Schedule 5 Revenues	\$24,178	\$24,309	\$22,187	\$23,479	\$25,601	\$25,885	\$27,128	\$27,531	\$29,458	\$27,458	\$26,571	\$25,563	\$309,349
Schedule 6 Revenues	\$24,178	\$24,309	\$22,187	\$23,479	\$25,601	\$25,885	\$27,128	\$27,531	\$29,458	\$27,458	\$26,571	\$25,563	\$309,349
Reserve Revenues	\$48,356	\$48,619	\$44,375	\$46,957	\$51,203	\$51,770	\$54,257	\$55,061	\$58,916	\$54,915	\$53,143	\$51,126	\$618,698
Total ESS OATT Revenues	\$190,365	\$189,637	\$182,040	\$194,453	\$207,737	\$213,185	\$217,243	\$223,702	\$227,769	\$216,739	\$209,915	\$197,814	\$2,470,599

MWh

Schedule	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Schedule 485-S	45,894	42,863	47,350	46,370	49,317	50,726	54,842	53,374	49,350	51,970	50,553	52,706	595,315
Schedule 485-P	31,798	23,806	27,619	26,364	27,934	27,946	30,497	33,021	29,737	29,039	24,655	18,765	331,181
Schedule 489-S	217	206	229	333	473	701	1,725	3,099	3,256	1,789	976	419	13,424
Schedule 489-P	85,299	73,639	79,176	78,668	82,094	82,065	84,557	88,570	82,485	81,921	76,717	66,033	961,223
Schedule 489-T	14,495	14,818	15,746	15,199	15,923	15,785	16,321	16,459	16,113	14,862	15,999	15,768	187,488
Totals	177,702	155,333	170,120	166,935	175,741	177,223	187,942	194,522	180,940	179,582	168,900	153,691	2,088,633

Average Energy	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Schedule 7	1,226.5	1,073.5	957.7	849.9	774.9	758.0	835.0	853.7	770.2	769.4	970.5	1,242.7	923.2
Schedule 15	2.4	2.3	2.0	1.7	1.5	1.4	1.4	1.6	1.9	2.1	2.4	2.5	1.9
Schedule 32	204.8	209.7	199.8	190.2	184.6	193.1	207.5	204.6	190.6	189.8	196.9	217.3	199.1
Schedule 38	3.4	3.8	4.4	3.7	3.4	3.3	3.8	3.8	3.6	4.1	4.8	4.1	3.8
Schedule 47	0.6	0.6	0.7	1.1	1.7	4.4	8.5	8.2	4.0	1.0	0.4	0.3	2.6
Schedule 49	0.9	1.0	1.5	2.7	5.2	13.7	26.3	25.2	12.4	3.1	1.1	0.7	7.9
Schedule 83	332.7	347.5	340.1	328.2	329.4	353.3	376.6	373.1	355.3	355.3	357.3	376.3	352.2
Schedule 85	430.1	428.8	432.0	427.5	431.1	457.8	473.7	473.4	445.2	450.7	438.5	415.3	442.1
Schedule 89	197.9	194.0	187.8	190.0	193.0	198.4	197.7	211.4	207.1	195.1	187.9	160.5	193.4
Schedule 90	210.6	225.2	217.1	217.9	219.4	221.4	226.6	234.2	230.7	224.8	234.5	222.8	223.7
Schedule 91	4.1	3.9	3.4	2.9	2.5	2.3	2.4	2.7	3.2	3.6	4.0	4.3	3.3
Schedule 92	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Schedule 95	3.6	3.5	3.0	2.6	2.2	2.0	2.1	2.4	2.8	3.2	3.6	3.7	2.89
TOTALS	2,618.0	2,494.1	2,349.6	2,218.6	2,149.2	2,209.3	2,361.9	2,394.7	2,227.3	2,202.6	2,402.4	2,650.9	2,356.4
Hours	744	672	743	720	744	720	744	744	720	744	721	744	8,760

Calendar Energy (MWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Schedule 7	854,006	675,141	665,973	572,688	539,570	510,789	581,402	594,409	518,962	535,750	654,901	865,323	7,568,915
Schedule 15	1,691	1,445	1,371	1,147	1,025	912	983	1,123	1,259	1,486	1,596	1,737	15,774
Schedule 32	142,600	131,869	138,904	128,132	128,527	130,111	144,475	142,491	128,458	132,163	132,864	151,316	1,631,912
Schedule 38	2,361	2,412	3,039	2,468	2,386	2,206	2,658	2,613	2,416	2,832	3,240	2,864	31,497
Schedule 47	385	394	462	736	1,181	2,967	5,918	5,732	2,701	678	274	242	21,670
Schedule 49	605	634	1,023	1,835	3,610	9,252	18,312	17,521	8,378	2,128	759	453	64,510
Schedule 83-S	231,651	218,528	236,503	221,179	229,361	238,050	262,243	259,781	239,420	247,414	241,130	262,050	2,887,308
Schedule 85-S 201-4,000 kW	208,734	200,083	219,824	212,845	223,880	230,874	248,177	242,298	221,474	236,519	228,945	237,644	2,711,297
Schedule 89-S GT 4 MW	217	206	229	333	473	701	1,725	3,099	3,256	1,789	976	419	13,424
Schedule 85-P 201-4,000 kW	92,415	70,862	82,025	76,547	77,690	78,985	83,134	88,938	79,954	78,702	68,173	52,428	929,851
Schedule 89-P GT 4 MW	120,455	104,152	111,812	109,825	115,479	114,815	117,370	125,305	117,834	116,549	107,215	93,011	1,353,822
Schedule 90-P	149,287	144,211	153,668	149,448	155,522	151,861	160,595	166,032	158,251	159,364	161,091	157,897	1,867,228
Schedule 89-T	19,887	20,097	21,202	20,473	21,132	20,848	21,291	21,662	21,210	20,227	21,176	20,642	249,847
Schedule 91	2,882	2,463	2,337	1,955	1,748	1,554	1,675	1,914	2,146	2,533	2,721	2,960	26,888
Schedule 92	214	206	210	209	210	208	207	206	210	204	205	208	2,496
Schedule 95	2,540	2,170	2,059	1,723	1,540	1,370	1,476	1,687	1,891	2,232	2,398	2,609	23,695
TOTALS	1,829,931	1,574,872	1,640,641	1,501,542	1,503,334	1,495,502	1,651,640	1,674,813	1,507,821	1,540,572	1,627,663	1,851,803	19,400,134

Note: Energy includes DA

Busbar Energy (MWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	aMW
Schedule 7	912,506	721,388	711,592	611,917	576,531	545,778	621,228	635,126	554,511	572,449	699,762	924,598	8,087,386	923.2
Schedule 15	1,807	1,544	1,465	1,225	1,096	974	1,050	1,200	1,345	1,588	1,706	1,856	16,855	1.9
Schedule 32	152,369	140,902	148,419	136,909	137,331	139,024	154,371	152,252	137,257	141,216	141,965	161,682	1,743,698	199.1
Schedule 38	2,523	2,577	3,248	2,637	2,550	2,357	2,840	2,793	2,582	3,026	3,462	3,060	33,655	3.8
Schedule 47	412	421	494	786	1,262	3,170	6,323	6,125	2,886	725	292	259	23,155	2.6
Schedule 49	646	677	1,093	1,961	3,857	9,886	19,566	18,722	8,952	2,274	811	484	68,929	7.9
Schedule 83-S	247,519	233,498	252,703	236,330	245,072	254,356	280,206	277,576	255,821	264,362	257,647	280,001	3,085,089	352.2
Schedule 85-S 201- 4,000 kW	223,032	213,788	234,882	227,424	239,216	246,689	265,177	258,896	236,645	252,721	244,627	253,923	2,897,021	330.7
Schedule 89-S GT 4 MW	232	221	245	356	505	750	1,843	3,311	3,479	1,912	1,043	447	14,344	1.6
Schedule 85-P 201-4,000 kW	96,999	74,377	86,093	80,344	81,543	82,902	87,257	93,349	83,920	82,605	71,554	55,029	975,972	111.4
Schedule 89-P GT 4 MW	126,430	109,318	117,358	115,272	121,206	120,510	123,192	131,520	123,678	122,330	112,533	97,624	1,420,971	162.2
Schedule 90-P	156,692	151,363	161,290	156,860	163,236	159,393	168,560	174,268	166,101	167,269	169,082	165,729	1,959,842	223.7
Schedule 89-T	20,595	20,813	21,957	21,202	21,884	21,590	22,049	22,433	21,965	20,947	21,930	21,377	258,742	29.5
Schedule 91	3,080	2,632	2,497	2,089	1,867	1,661	1,790	2,046	2,293	2,706	2,907	3,163	28,730	3.3
Schedule 92	229	220	224	223	224	222	221	221	224	218	219	222	2,667	0.3
Schedule 95	2,714	2,319	2,200	1,841	1,646	1,463	1,577	1,803	2,020	2,385	2,562	2,788	25,318	2.89
TOTALS	1,947,783	1,676,056	1,745,759	1,597,377	1,599,027	1,590,725	1,757,252	1,781,638	1,603,679	1,638,733	1,732,102	1,972,240	20,642,371	2,356.4

Busbar Energy (MWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals	aMW
Schedule 85	237,618	217,379	241,393	230,550	238,745	246,058	261,825	260,556	236,622	249,317	236,288	232,939	2,889,290	
Schedule 89	42,485	37,493	39,906	38,164	40,435	39,618	39,588	43,944	42,381	41,901	37,372	33,363	476,650	
	162,840	157,220	172,474	166,474	174,563	180,148	193,335	188,924	172,124	184,549	178,391	184,938		
	60,617	47,056	54,406	50,183	49,756	51,038	52,636	55,917	50,217	49,663	43,518	33,663	18,441,262	

	A	B	C	D	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	
1																									
2	PORTLAND GENERAL ELECTRIC																								
3	2019 Cycle Billing Determinants																								
4																									
5																									
6					Sch 122b	Sch 125	Sch 145	Sch 132	Sch 143	Sch 128 Block 1	Sch 128 Block 2	Sch 129	Sch 102 Block 1	Sch 102 Block 2	Sch 102 Block 2	Sch 105	Sch 109	Sch 110	Sch 112	Sch 123	Sch 126	Sch 135	Sch 137	Calendar	
7	Grouping				MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	
8																									
9	Schedule 7				7,568,918	7,568,918	7,568,918	7,568,918	7,568,918				4,150,373	2,140,123	1,278,422	7,568,918	7,568,918	7,568,918	7,568,918	7,568,918	7,568,918	7,568,918	7,568,918	7,568,918	7,568,918
10	Schedule 15 Residential				3,264	3,264	3,264	3,264	3,264				3,264	3,264		3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264	3,264
11																									
12																									
13	Schedule 15 Commercial				12,510	12,510	12,510	12,510	12,510				0	0		12,510	12,510	12,510	12,510	12,510	12,510	12,510	12,510	12,510	12,510
14	Schedule 32				1,633,156	1,633,156	1,633,156	1,633,156	1,633,156				249,080	249,080		1,633,156	1,631,432	1,631,432	1,633,156	1,631,432	1,633,156	1,631,432	1,633,156	1,633,156	1,631,912
15	Schedule 38				31,475	31,475	31,475	31,475	31,475				652	652		31,475	31,387	31,387	31,475	31,387	31,475	31,387	31,475	31,475	31,497
16	Schedule 47				21,633	21,633	21,633	21,633	21,633				19,580	19,580		21,633	21,633	21,633	21,633	21,633	21,633	21,633	21,633	21,633	21,670
17	Schedule 49				64,540	64,540	64,540	64,540	64,540				54,354	54,354		64,303	64,303	64,303	64,540	64,303	64,540	64,303	64,540	64,540	64,510
18	Schedule 83-S				2,884,961	2,884,961	2,884,961	2,884,961	2,884,961				225,933	225,933		2,884,961	2,834,638	2,834,638	2,884,961	2,834,638	2,884,961	2,834,638	2,884,961	2,884,961	2,887,308
19	Schedule 85-S				2,122,422	2,122,422	2,122,422	2,122,422	2,122,422				33,179	33,179		2,122,422	1,877,771	1,877,771	2,122,422	1,877,771	2,122,422	2,122,422	2,122,422	2,122,422	2,115,981
20	Schedule 89-S				0	0	0	0	0				0	0		0	0	0	0	0	0	0	0	0	0
21	Schedule 91				26,888	26,888	26,888	26,888	26,888				0	0		26,888	26,888	26,888	26,888	26,888	26,888	26,888	26,888	26,888	26,888
22	Schedule 92				2,496	2,496	2,496	2,496	2,496				0	0		2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496
23	Schedule 95				23,695	23,695	23,695	23,695	23,695				0	0		23,695	23,695	23,695	23,695	23,695	23,695	23,695	23,695	23,695	23,695
24																									
25																									
26	Schedule 85-P				591,424	591,424	591,424	591,424	591,424				4,386	4,386		591,424	301,591	301,591	591,424	301,591	591,424	591,424	591,424	591,424	598,670
27	Schedule 89-P				401,176	401,176	401,176	401,176	401,176				0	0		401,176	0	0	401,176	0	401,176	401,176	401,176	401,176	392,599
28	Schedule 90-P				1,861,066	1,861,066	1,861,066	1,861,066	1,861,066				1,861,066	1,861,066		1,861,066	0	0	1,861,066	0	1,861,066	1,861,066	1,861,066	1,861,066	1,867,228
29																									
30																									
31	Schedule 89-T				62,759	62,759	62,759	62,759	62,759				0	0		62,759	0	0	62,759	0	62,759	62,759	62,759	62,759	62,359
32	Schedule 75-T				0	0	0	0	0				0	0		0	0	0	0	0	0	0	0	0	0
33	Schedule 76R												0	0		0	0	0	0	0	0	0	0	0	0
34																									
35																									
36	Schedule 485-S V2003					11,734	11,734	11,734	11,734				11,734	0	0	11,734	0	0	11,734	0	0	0	0	0	11,743
37	Schedule 485-S V2010					32,240	32,240	32,240	32,240				32,240	0	0	32,240	13,838	13,838	32,240	13,838	0	0	0	0	32,243
38	Schedule 485-S V2011					34,163	34,163	34,163	34,163				34,163	0	0	34,163	34,163	34,163	34,163	34,163	0	0	0	0	34,170
39	Schedule 485-S V2012					192,487	192,487	192,487	192,487				192,487	0	0	192,487	192,487	192,487	192,487	192,487	0	0	0	0	192,486
40	Schedule 485-S V2013					107,529	107,529	107,529	107,529				107,529	0	0	107,529	95,846	95,846	107,529	95,846	0	0	0	0	107,508
41	Schedule 485-S V2014					10,866	10,866	10,866	10,866				10,866	0	0	10,866	10,866	10,866	10,866	10,866	0	0	0	0	10,925
42	Schedule 485-S V2015					4,779	4,779	4,779	4,779				4,779	0	0	4,779	4,779	4,779	4,779	4,779	0	0	0	0	4,799
43	Schedule 485-S V2016					12,453	12,453	12,453	12,453				12,453	0	0	12,453	12,453	12,453	12,453	12,453	0	0	0	0	12,471
44	Schedule 485-S V2017					104,545	104,545	104,545	104,545				104,545	0	0	104,545	104,545	104,545	104,545	104,545	0	0	0	0	104,486
45	Schedule 485-S V2018					63,692	63,692	63,692	63,692				63,692	0	0	63,692	63,692	63,692	63,692	63,692	0	0	0	0	63,708
46	Schedule 485-S V2019					20,614	20,614	20,614	20,614				20,614	0	0	20,614	20,614	20,614	20,614	20,614	0	0	0	0	20,777
47	Schedule 489-S V2014					13,482	13,482	13,482	13,482				13,482	0	0	13,482	0	0	13,482	0	0	0	0	0	13,424
48																									
49																									
50	Schedule 485-P V2010					24,415	24,415	24,415	24,415				24,415	0	0	24,415	0	0	24,415	0	0	0	0	0	24,355
51	Schedule 485-P V2011					0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0
52	Schedule 485-P V2012					35,086	35,086	35,086	35,086				35,086	0	0	35,086	8,408	8,408	35,086	8,408	0	0	0	0	35,106
53	Schedule 485-P V2013					128,740	128,740	128,740	128,740				128,740	0	0	128,740	80,810	80,810	128,740	80,810	0	0	0	0	128,656
54	Schedule 485-P V2014					8,879	8,879	8,879	8,879				8,879	0	0	8,879	8,879	8,879	8,879	8,879	0	0	0	0	8,848
55	Schedule 485-P V2015					35,096	35,096	35,096	35,096				35,096	0	0	35,096	0	0	35,096	0	0	0	0	0	35,016
56	Schedule 485-P V2016					0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0
57	Schedule 485-P V2017					65,259	65,259	65,259	65,259				65,259	0	0	65,259	16,235	16,235	65,259	16,235	0	0	0	0	64,924
58	Schedule 485-P V2018					12,047	12,047	12,047	12,047				12,047	0	0	12,04									

Schedule 109 & 110 MWh Exceptions

Exception Energy	MWH	Eligible	MWH
Schedule 15	0		
Schedule 32	1,724		
Schedule 38	87		
Schedule 47	0		
Schedule 49	238	Schedule 485-S 2010	13,838
Schedule 83 Secondary	50,324	Schedule 485-P V2012	8,408
Schedule 85 Secondary	244,651	Schedule 485-P V2013	80,810
Schedule 85 Primary	289,833	Schedule 485-P V2017	16,235
Schedule 485 S 2013	11,683		
Totals	598,540		

Note: This reflects the site definition of 1 aMW SDC.

85-P elig. 301,489

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
1																		
2																		
3																		
4																		
5	Schedule				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
6																		
7	Schedule 7																	
8	Customers																	
9	Single Phase				778,522	779,190	779,943	780,761	781,500	782,320	783,158	784,204	785,089	786,105	786,989	787,810	9,395,591	
10	Three Phase				15	15	15	15	15	15	15	15	15	15	15	15	180	
11	Energy (MWh)																	
12	Energy 1st 500 kWh (MWh)				367,469	359,993	352,541	343,541	336,051	333,275	336,764	338,783	339,165	331,743	343,921	367,126	4,150,373	
13	Energy 501-1,000 kWh (MWh)				255,360	216,619	191,870	163,963	143,799	141,603	161,334	171,744	166,442	132,068	158,975	236,348	2,140,123	
14	Energy over 1,000 kWh (MWh)				269,836	191,318	154,902	91,846	50,986	43,510	44,827	72,222	71,535	37,788	63,980	185,672	1,278,422	
15	Calendar Energy (MWh)				854,006	675,141	665,973	572,688	539,570	510,789	581,402	594,409	518,962	535,750	654,901	865,323	7,568,915	
16					0.113	0.089	0.088	0.076	0.071	0.067	0.077	0.079	0.069	0.071	0.087	0.114		
17	Schedule 15 Residential																	
18	Customers				5,491	5,491	5,491	5,491	5,491	5,491	5,491	5,491	5,491	5,491	5,491	5,491	65,892	5,491
19	Energy (MWh)				272	272	272	272	272	272	272	272	272	272	272	272	3,264	
20	Calendar Energy (MWh)				350	299	284	237	212	189	203	232	260	307	330	359	3,264	
21																		
22	Schedule 15 Commercial																	
23	Customers				3,995	3,995	3,995	3,995	3,995	3,995	3,995	3,995	3,995	3,995	3,995	3,995	47,940	3,995
24	Energy (MWh)				1,051	1,049	1,048	1,046	1,045	1,043	1,042	1,040	1,039	1,037	1,036	1,034	12,510	
25	Calendar Energy (MWh)				1,341	1,146	1,087	909	813	723	779	891	998	1,178	1,286	1,377	12,510	
26																		
27	Schedule 32-RPA																	
28	Customers - Single Phase				24,957	24,975	24,995	25,017	25,037	25,060	25,082	25,111	25,135	25,162	25,186	25,208	300,925	
29	Customers - Three Phase				2,646	2,648	2,650	2,652	2,655	2,657	2,659	2,662	2,665	2,668	2,670	2,673	31,905	
30	Energy (MWh)																	
31	First 5 MWh				24,265	22,391	20,690	18,559	16,988	16,283	16,531	16,809	16,930	16,262	17,490	20,855	224,032	
32	Over 5 MWh				3,065	2,574	2,268	1,807	1,618	1,682	1,910	2,058	2,156	1,833	1,718	2,558	25,047	
33	Calendar Energy (MWh)				24,793	22,516	22,800	20,263	19,440	18,369	19,747	18,918	17,294	18,859	20,388	24,634	248,021	
34																		
35	Schedule 32																	
36	Customers - Single Phase				30,774	30,798	30,823	30,850	30,874	30,902	30,930	30,965	30,995	31,029	31,058	31,085	371,083	
37	Customers - Three Phase				34,937	34,962	34,991	35,022	35,050	35,081	35,113	35,152	35,186	35,225	35,259	35,290	421,268	
38	Energy (MWh)																	
39	First 5 MWh				110,908	105,685	102,771	96,941	93,198	95,003	99,198	103,595	102,718	94,402	94,552	104,416	1,203,366	
40	Over 5 MWh				18,820	15,419	13,998	11,321	10,938	14,112	17,102	19,458	19,772	12,886	11,160	15,704	180,690	
41	Calendar Energy (MWh)				117,800	109,353	116,104	107,869	109,087	111,742	124,728	123,573	111,164	113,305	112,475	126,682	1,383,891	
42																		
43	Schedule 38 RPA																	
44	Customers - Single Phase				1	1	1	1	1	1	1	1	1	1	1	1	12	
45	Customers - Three Phase				13	13	13	13	13	13	13	13	13	13	13	13	156	
46	Energy (MWh)																	
47	On-Peak				25	22	21	18	17	16	19	39	93	34	28	23	354	
48	Off-Peak				19	18	17	14	12	14	18	32	83	31	21	18	298	
49	Reactive Demand (kVar)				55	69	64	52	57	68	78	110	169	137	61	57	977	
50	Calendar Energy (MWh)				40	36	38	32	30	31	40	71	160	68	52	42	640	
51																		
52	Schedule 38																	
53	Customers - Single Phase				54	54	54	54	54	54	54	54	54	54	54	54	648	
54	Customers - Three Phase				313	314	314	314	314	315	315	315	316	316	316	317	3,779	
55	Energy (MWh)																	
56	On-Peak				1,321	1,401	1,516	1,379	1,260	1,154	1,368	1,430	1,332	1,435	1,696	1,445	16,738	
57	Off-Peak				1,238	1,233	1,506	1,069	993	973	1,077	1,105	1,159	1,188	1,308	1,237	14,086	
58	Reactive Demand (kVar)				3,537	3,586	4,119	4,537	3,918	5,114	5,351	4,528	4,609	4,729	5,042	4,154	53,224	
59	Calendar Energy (MWh)				2,322	2,376	3,002	2,436	2,356	2,175	2,618	2,542	2,257	2,764	3,189	2,821	30,857	
60																		
61	Schedule 47 RPA																	
62	Customers - Single Phase				77	77	77	77	185	185	185	185	185	185	77	77	1,572	
63	Customers - Three Phase				1,118	1,118	1,118	1,118	2,689	2,689	2,689	2,689	2,689	2,689	1,118	1,118	22,842	
64	Energy (MWh)																	
65	First 50 kWh per kW				149	189	162	204	480	876	1,243	1,311	1,152	694	256	153	6,868	
66	Over 50 kWh per kW				147	163	154	187	403	1,070	2,736	3,893	2,788	805	214	151	12,713	
67	Reactive Demand (kVar)				0	0	0	0	0	0	0	0	3	4	0	0	7	
68	Calendar Energy (MWh)				347	348	398	651	1,036	2,691	5,472	5,285	2,474	581	220	204	19,706	
69																		
70	Schedule 47																	
71	Customers - Single Phase				16	16	16	16	39	39	39	39	39	39	16	16	330	
72	Customers - Three Phase				61	61	61	61	148	148	148	148	148	148	61	61	1,254	
73	Energy (MWh)																	
74	First 50 kWh per kW				18	23	22	27	63	75	96	105	97	82	37	23	668	
75	Over 50 kWh per kW				14	24	28	25	61	124	228	335	265	171	77	32	1,385	
76	Reactive Demand (kVar)				1	4	0	0	7	5	4	4	4	5	4	0	38	
77	Calendar Energy (MWh)				38	46	64	85	145	276	446	447	227	98	53	38	1,964	
78																		
79	Schedule 49 RPA																	
80	Customers - Single Phase				2	2	2	2	4	4	4	4	4	4	2	2		

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
322	Total PGE (Annual)																
323	Customers			896,577	897,328	898,166	899,076	902,435	903,352	904,285	905,451	906,439	907,576	906,027	906,944	10,833,656	
324	Energy (MWh)			1,734,813	1,576,977	1,490,333	1,365,993	1,287,530	1,315,764	1,368,233	1,456,064	1,460,121	1,297,798	1,342,997	1,615,761	17,312,384	
325	Facility Capacity (kW)			1,918,290	1,916,057	1,895,262	1,895,331	1,974,082	2,019,013	2,061,656	2,115,712	2,121,352	2,072,380	1,972,786	1,941,637	23,933,558	
326	Demand (kW)			1,574,277	1,572,832	1,533,888	1,557,764	1,620,631	1,673,113	1,710,366	1,743,517	1,754,333	1,711,488	1,605,632	1,566,115	19,623,956	
327	Reactive Demand (kVar)			129,352	139,210	134,370	145,930	162,529	171,055	176,924	184,122	179,783	174,272	155,187	152,904	1,905,638	
328	Calendar Energy (MWh)			1,652,229	1,419,539	1,470,521	1,334,607	1,327,593	1,318,279	1,463,698	1,480,291	1,326,881	1,360,990	1,458,763	1,698,112	17,311,501	
329																	
330																	
331																	
332	Total (VP)																
333	Customers			0	0	0	0	0	0	0	0	0	0	0	0	0	0
334	Energy (MWh)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
335	Facility Capacity (kW)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
336	Demand (kW)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
337	Reactive Demand (kVar)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
338	Calendar Energy (MWh)			0	0	0	0	0	0	0	0	0	0	0	0	0	0
339																	
340	Total Direct Access																
341	Customers			301	301	301	301	301	301	301	301	301	301	301	301	3,612	
342	Energy (MWh)			171,126	164,729	163,184	164,618	169,801	175,541	179,928	187,256	192,477	176,590	169,506	173,371	2,088,126	
343	Facility Capacity (kW)			359,777	358,950	355,056	363,496	377,706	382,989	388,561	396,315	393,639	382,163	372,161	364,016	4,494,829	
344	Demand (kW)			294,512	292,078	285,442	305,866	324,434	334,785	339,598	349,535	350,101	335,861	324,472	303,779	3,840,423	
345	Reactive Demand (kVar)			45,970	40,230	41,418	44,647	55,841	51,820	56,155	57,638	56,129	54,814	50,025	47,567	602,254	
346	Calendar Energy (MWh)			177,702	155,333	170,120	166,935	175,741	177,223	187,942	194,522	180,940	179,582	168,900	153,691	2,088,633	
347																	
348	Total PGE & Direct Access																
349	Customers			896,878	897,629	898,467	899,377	902,736	903,653	904,586	905,752	906,740	907,877	906,328	907,245	10,837,268	
350	Energy (MWh)			1,905,939	1,741,706	1,653,517	1,530,611	1,457,332	1,491,304	1,548,161	1,643,320	1,652,598	1,474,388	1,512,503	1,789,132	19,400,511	
351	Facility Capacity (kW)			2,278,067	2,275,007	2,250,318	2,258,827	2,351,788	2,402,002	2,450,217	2,512,027	2,514,991	2,454,543	2,344,947	2,305,653	28,338,387	
352	Demand (kW)			1,868,789	1,864,910	1,819,330	1,863,630	1,945,065	2,007,898	2,049,924	2,093,052	2,104,434	2,047,349	1,930,104	1,869,894	23,464,379	
353	Reactive Demand (kVar)			175,322	179,440	175,788	190,577	218,370	222,875	233,079	241,760	235,912	229,086	205,212	200,471	2,507,892	
354	Calendar Energy (MWh)			1,829,931	1,574,872	1,640,641	1,501,542	1,503,334	1,495,502	1,651,640	1,674,813	1,507,821	1,540,572	1,627,663	1,851,803	19,400,134	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1																		
2																		
3																		
4																		
5	Schedule			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total		
6																		
7	Schedule 485S 201-4,000 kW V2003																	
8	Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Customers - Three Phase			2	2	2	2	2	2	2	2	2	2	2	2	2	24	
10	Energy (MWh)																	
11	On-Peak			600	565	575	594	540	574	686	647	696	650	598	551	7,278		
12	Off-Peak			340	362	336	341	322	353	407	392	448	392	367	396	4,456		
13	Facility Capacity (kW)																	
14	First 200 kW			400	400	400	400	400	400	400	400	400	400	400	400	400	4,800	
15	Over 200 kW			1,809	1,809	1,809	1,809	1,809	1,809	1,809	1,809	1,809	1,809	1,809	1,809	1,809	21,708	
16	Demand (kW)																	
17	On-Peak			1,665	1,704	1,676	1,781	1,699	1,979	1,988	2,141	2,193	2,002	1,873	1,839	22,540		
18	Off-Peak Increment			0	0	0	0	47	0	0	0	39	8	46	32	172		
19	Reactive Demand (kVar)			432	414	416	423	406	522	516	508	510	552	493	422	5,614		
20	Calendar Energy (MWh)			852	836	905	931	902	948	1,171	1,042	1,037	1,098	1,025	997	11,743		
21																		
22	Schedule 485S 201-4,000 kW V2010																	
23	Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	Customers - Three Phase			8	8	8	8	8	8	8	8	8	8	8	8	8	96	
25	Energy (MWh)																	
26	On-Peak			1,547	1,558	1,498	1,565	1,586	1,663	1,622	1,652	1,751	1,524	1,492	1,578	19,036		
27	Off-Peak			1,058	1,117	1,048	1,096	1,084	1,177	1,137	1,143	1,241	1,030	1,016	1,056	13,204		
28	Facility Capacity (kW)																	
29	First 200 kW			1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	19,200		
30	Over 200 kW			4,521	4,527	4,873	5,045	4,987	5,024	4,941	5,433	5,289	4,995	4,690	4,546	58,871		
31	Demand (kW)																	
32	On-Peak			4,704	4,697	4,933	5,125	5,047	5,104	5,043	5,409	5,312	4,990	4,857	4,749	59,970		
33	Off-Peak Increment			18	30	61	1	36	7	3	15	0	98	0	0	269		
34	Reactive Demand (kVar)			496	435	495	457	569	520	547	508	480	497	453	500	5,957		
35	Calendar Energy (MWh)			2,363	2,412	2,528	2,647	2,793	2,904	2,954	2,803	2,711	2,692	2,662	2,772	32,243		
36																		
37	Schedule 485S 201-4,000 kW V2011																	
38	Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	Customers - Three Phase			8	8	8	8	8	8	8	8	8	8	8	8	8	96	
40	Energy (MWh)																	
41	On-Peak			1,910	1,771	1,789	1,776	1,736	1,797	1,950	1,980	2,049	1,844	1,751	1,800	22,152		
42	Off-Peak			992	974	948	947	925	998	1,067	1,066	1,110	983	971	1,032	12,011		
43	Facility Capacity (kW)																	
44	First 200 kW			1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	19,200		
45	Over 200 kW			5,262	5,226	5,307	5,509	5,726	6,334	7,049	6,844	7,004	6,524	5,684	5,356	71,825		
46	Demand (kW)																	
47	On-Peak			5,261	5,214	5,320	5,495	5,716	6,219	6,664	6,572	6,715	6,336	5,644	5,372	70,528		
48	Off-Peak Increment			0	23	0	25	0	0	111	0	3	33	0	0	195		
49	Reactive Demand (kVar)			57	47	67	104	394	651	633	663	662	605	319	109	4,311		
50	Calendar Energy (MWh)			2,632	2,476	2,718	2,709	2,782	2,857	3,231	3,054	2,862	2,979	2,889	2,980	34,170		
51																		
52	Schedule 485S 201-4,000 kW V2012																	
53	Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
54	Customers - Three Phase			99	99	99	99	99	99	99	99	99	99	99	99	99	1,188	
55	Energy (MWh)																	
56	On-Peak			10,340	9,954	9,922	9,475	9,570	10,275	10,588	10,847	11,042	9,750	9,529	10,357	121,648		
57	Off-Peak			6,014	6,134	5,892	5,547	5,593	5,932	5,946	6,074	6,232	5,531	5,608	6,336	70,838		
58	Facility Capacity (kW)																	
59	First 200 kW			19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	237,600		
60	Over 200 kW			23,105	22,619	21,850	22,503	25,683	26,702	27,735	29,725	28,111	25,240	23,026	23,410	299,709		
61	Demand (kW)																	
62	On-Peak			33,142	33,073	32,278	32,715	35,338	36,169	36,688	38,715	37,466	34,944	33,146	33,580	417,254		
63	Off-Peak Increment			440	123	334	409	278	249	540	62	56	323	388	255	3,457		
64	Reactive Demand (kVar)			934	1,054	1,194	1,286	2,402	2,982	3,223	3,217	3,173	2,649	1,688	1,402	25,204		
65	Calendar Energy (MWh)			14,836	14,511	15,705	14,946	15,860	16,572	17,705	16,966	15,651	16,104	16,067	17,563	192,486		
66																		
67	Schedule 485S 201-4,000 kW V2013																	
68	Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
69	Customers - Three Phase			32	32	32	32	32	32	32	32	32	32	32	32	384		
70	Energy (MWh)																	
71	On-Peak			5,542	5,147	5,184	5,069	5,161	5,490	5,645	6,135	6,391	5,771	5,215	5,095	65,846		
72	Off-Peak			3,549	3,382	3,309	3,226	3,384	3,412	3,503	3,831	3,943	3,558	3,248	3,339	41,683		
73	Facility Capacity (kW)																	
74	First 200 kW			6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	6,400	76,800		
75	Over 200 kW			12,999	12,893	13,475	13,490	14,927	17,037	17,897	18,848	18,610	17,813	15,624	13,967	187,580		
76	Demand (kW)																	
77	On-Peak			15,015	15,027	15,450	15,485	16,630	18,244	18,710	19,675	19,478	18,844	17,149	15,813	205,520		
78	Off-Peak Increment			113	17	49	22	1	16	216	0	3	13	11	60	521		
79	Reactive Demand (kVar)			449	408	565	606	790	1,182	1,279	1,281	1,322	1,121	859	641	10,503		
80	Calendar Energy (MWh)			8,247	7,693	8,434	8,253	8,938	9,102	9,796	9,992	9,364	9,831	8,983	8,873	107,508		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
215																	
216	Schedule 485P 201-4,000 kW V2012																
217	Customers - Three Phase																
218	Energy (MWh)																
219				5	5	5	5	5	5	5	5	5	5	5	5	5	60
220				1,205	1,121	1,087	1,020	909	901	1,108	1,179	1,284	1,003	1,069	957	12,842	
221	Facility Capacity (kW)																
222				1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
223				5,410	5,316	4,851	5,416	5,284	4,091	5,819	6,253	6,607	5,317	5,363	4,787	64,514	
224	Demand (kW)																
225				6,410	6,316	5,851	6,416	6,284	5,076	6,812	7,253	7,584	6,317	6,363	5,787	76,469	
226				0	0	0	0	0	15	7	0	23	0	0	0	45	
227	Reactive Demand (kVar)																
228				0	61	52	50	26	48	367	280	343	211	243	167	1,848	
229	Calendar Energy (MWh)																
230				3,842	2,811	3,253	2,830	2,585	2,439	3,128	3,540	3,309	2,927	2,661	1,781	35,106	
231	Schedule 485P 201-4,000 kW V2013																
232	Customers - Three Phase																
233	Energy (MWh)																
234				28	28	28	28	28	28	28	28	28	28	28	28	28	336
235	Facility Capacity (kW)																
236				6,926	6,426	6,294	6,382	6,837	7,260	7,239	7,521	7,616	6,433	6,233	6,371	81,538	
237				4,004	3,723	3,647	3,658	4,004	4,201	4,243	4,242	4,358	3,739	3,618	3,763	47,202	
238	Demand (kW)																
239				20,367	20,314	19,576	21,077	25,346	25,205	24,343	25,879	25,326	22,253	20,734	19,465	269,885	
240				102	0	21	0	0	141	349	0	9	4	0	0	626	
241	Reactive Demand (kVar)																
242				2,438	2,243	2,296	2,760	3,309	3,403	3,668	3,906	3,765	3,289	2,848	2,549	36,474	
243	Calendar Energy (MWh)																
244				12,820	9,452	11,042	10,343	11,220	11,473	12,038	12,703	11,289	10,532	8,922	6,822	128,656	
245	Schedule 485P 201-4,000 kW V2014																
246	Customers - Three Phase																
247	Energy (MWh)																
248				2	2	2	2	2	2	2	2	2	2	2	2	24	
249	Facility Capacity (kW)																
250				308	376	381	404	409	452	494	491	521	479	393	392	5,100	
251				217	273	273	309	290	328	388	368	388	372	290	283	3,778	
252	Demand (kW)																
253				400	400	400	400	400	400	400	400	400	400	400	400	4,800	
254				918	841	815	791	813	1,061	927	1,045	1,071	966	959	689	10,896	
255	Reactive Demand (kVar)																
256				1,318	1,235	1,215	1,191	1,213	1,443	1,327	1,445	1,471	1,357	1,359	1,089	15,663	
257				0	6	0	0	0	17	0	0	10	0	0	0	33	
258	Calendar Energy (MWh)																
259				203	248	208	237	265	248	250	250	260	278	241	243	2,931	
260	Calendar Energy (MWh)																
261				616	604	726	734	724	780	924	928	857	882	619	454	8,848	
262	Schedule 485P 201-4,000 kW V2015																
263	Customers - Three Phase																
264	Energy (MWh)																
265				2	2	2	2	2	2	2	2	2	2	2	2	24	
266	Facility Capacity (kW)																
267				1,696	1,676	1,657	1,748	1,831	1,827	1,917	1,906	1,968	1,854	1,786	1,661	21,528	
268				1,052	995	961	1,051	1,166	1,103	1,191	1,375	1,301	1,129	1,118	1,125	13,568	
269	Demand (kW)																
270				400	400	400	400	400	400	400	400	400	400	400	400	4,800	
271				6,027	6,015	5,757	6,197	6,520	6,289	6,134	6,209	6,222	6,097	6,201	5,845	73,513	
272	Reactive Demand (kVar)																
273				5,852	5,819	5,671	6,063	6,260	6,449	6,203	6,557	6,620	6,190	5,917	5,622	73,223	
274	Calendar Energy (MWh)																
275				0	0	0	0	0	0	0	0	0	0	0	0	0	
276	Calendar Energy (MWh)																
277				694	736	694	739	770	828	824	916	856	796	776	730	9,359	
278	Calendar Energy (MWh)																
279				3,223	2,488	2,908	2,883	3,102	2,933	3,259	3,543	3,083	3,089	2,631	1,875	35,016	
280	Schedule 485P 201-4,000 kW V2016																
281	Customers - Three Phase																
282	Energy (MWh)																
283				0	0	0	0	0	0	0	0	0	0	0	0	0	
284	Facility Capacity (kW)																
285				0	0	0	0	0	0	0	0	0	0	0	0	0	
286	Demand (kW)																
287				0	0	0	0	0	0	0	0	0	0	0	0	0	
288	Reactive Demand (kVar)																
289				0	0	0	0	0	0	0	0	0	0	0	0	0	
290	Calendar Energy (MWh)																
291				0	0	0	0	0	0	0	0	0	0	0	0	0	
292	Schedule 485P 201-4,000 kW V2017																
293	Customers - Three Phase																
294	Energy (MWh)																
295				8	8	8	8	8	8	8	8	8	8	8	8	8	96
296	Facility Capacity (kW)																
297				2,969	2,694	2,598	2,813	3,018	3,093	3,327	3,663	3,847	3,602	3,369	3,280	38,272	
298				2,308	1,869	1,780	1,987	2,125	2,112	2,337	2,597	2,632	2,538	2,398	2,303	26,986	
299	Demand (kW)																
300				1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	19,200	
301				6,067	6,279	5,647	6,496	7,841	7,883	8,847	9,651	9,887	9,414	8,199	7,438	93,649	
302	Reactive Demand (kVar)																
303				7,667	7,879	7,247	8,096	9,441	9,483	10,383	11,251	11,487	11,014	9,763	9,038	112,749	
304	Calendar Energy (MWh)																
305				0	0	0	0	0	0	64	0	0	0	36	0	100	
306	Calendar Energy (MWh)																
307				709	912	702	795	918	1,000	1,059	1,304	1,374	1,304	1,187	963	12,227	
308	Calendar Energy (MWh)																
309				6,189	4,250	4,862	4,945	5,323	5,211	5,938	6,760	6,108	6,358	5,223	3,758	64,924	
310	Schedule 485P 201-4,000 kW V2018																
311	Customers - Three Phase																
312	Energy (MWh)																
313				1	1	1	1	1	1	1	1	1	1	1	1	12	
314	Facility Capacity (kW)																
315				583	509	502	514	600	644	677	762	740	592	558	573	7,255	
316				394	335	326	341	420	414	429	516	468	378	369	401	4,792	
317	Demand (kW)																
318				200	200	200	200	200	200	200	200	200	200	200	200	2,400	
319				2,206	2,206	2,206	2,206	2,206	2,206	2,206	2,206	2,206	2,206	2,206	2,206	26,472	
320	Reactive Demand (kVar)																
321				1,489	1,468	1,466	1,522	2,153	2,052	2,376	2,436	2,277	1,936	1,651	1,627	22,453	
322	Calendar Energy (MWh)																
323				0	0	0	0	0	0	0	0	0	0	0	0	0	
324	Calendar Energy (MWh)																
325				1,147	785	920	881	1,056	1,059	1,160	1,380	1,139	1,004	840	656	12,027	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
313																	
314				Schedule 485P 201-4,000 kW V2019													
315				Customers - Three Phase	2	2	2	2	2	2	2	2	2	2	2	2	24
316				Energy (MWh)													
317				On-Peak	932	953	974	994	1,015	1,036	1,041	1,050	1,105	1,113	1,137	1,139	12,489
318				Off-Peak	688	703	718	734	749	764	795	822	803	831	843	877	9,327
319				Facility Capacity (kW)													
320				First 200 kW	400	400	400	400	400	400	400	400	400	400	400	400	4,800
321				Over 200 kW	5,769	5,769	5,769	5,769	5,769	5,769	5,769	5,769	5,769	5,769	5,769	5,769	69,228
322				Demand (kW)													
323				On-peak	5,609	5,733	5,858	5,982	6,107	6,232	2,862	3,286	4,704	3,588	5,995	3,397	59,353
324				Off-peak increment	0	0	0	0	0	0	0	0	0	0	0	0	0
325				Reactive Demand (kVar)	1,028	1,051	1,074	1,097	1,120	1,143	470	555	603	635	40	476	9,292
326				Calendar Energy (MWh)	1,656	1,692	1,728	1,764	1,800	1,836	1,872	1,908	1,944	1,980	2,016	2,052	22,248
327																	
328				Schedule 489P GT 4,000 kW V2004													
329				Customers - Three Phase	1	1	1	1	1	1	1	1	1	1	1	1	12
330				Energy (MWh)													
331				On-Peak	3,522	3,527	3,553	3,738	3,913	3,867	4,017	4,023	4,128	3,823	3,654	3,770	45,534
332				Off-Peak	2,439	2,344	2,431	2,372	2,474	2,377	2,683	2,473	2,596	2,553	2,333	2,414	29,486
333				Facility Capacity (kW)													
334				First 1,000 kW	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
335				1,001-4,000 kW	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
336				Over 4,000 kW	7,770	7,770	7,770	7,770	7,770	7,770	7,770	7,770	7,770	7,770	7,770	7,770	93,240
337				Demand (kW)													
338				On-peak	9,927	9,882	9,441	10,763	11,148	11,430	11,489	11,240	12,051	10,405	10,508	10,011	128,295
339				Off-peak increment	0	0	0	0	0	0	0	0	0	0	0	0	0
340				Reactive Demand (kVar)	2,899	2,856	2,577	3,014	3,247	3,222	3,140	3,176	3,123	2,861	2,993	2,864	35,972
341				Calendar Energy (MWh)	5,871	5,983	6,109	6,387	6,244	6,699	6,496	6,724	6,375	5,987	6,184	5,961	75,020

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
342																	
343	Schedule 489P GT 4,000 kW V2010																
344	Customers - Three Phase																
345					1	1	1	1	1	1	1	1	1	1	1	1	12
346	Energy (MWh)																
347					3,547	3,287	3,523	3,550	3,689	3,901	3,779	3,671	3,779	3,764	3,531	3,412	43,432
348					2,340	2,274	2,536	2,415	2,541	2,759	2,480	2,432	2,531	2,678	2,399	2,549	29,935
349	Facility Capacity (kW)																
350					1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
351					3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
352					8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	8,857	106,284
353	Demand (kW)																
354					10,867	11,161	10,304	12,754	12,345	12,728	12,960	12,583	12,313	11,398	11,608	11,074	142,095
355					0	0	0	0	0	0	0	0	0	0	0	0	0
356	Reactive Demand (kVar)																
357					3,576	3,416	3,679	3,556	4,090	3,776	3,436	3,603	4,340	3,815	3,940	3,597	44,824
358	Calendar Energy (MWh)																
359					6,905	5,179	6,730	6,144	6,448	6,666	6,562	6,590	5,949	6,669	5,371	4,013	73,227
359	Schedule 489P GT 4,000 kW V2011																
360	Customers - Three Phase																
361					2	2	2	2	2	2	2	2	2	2	2	2	24
362	Energy (MWh)																
363					8,653	8,274	8,119	8,150	8,270	8,771	8,639	8,876	9,505	8,878	8,406	8,413	102,954
364					6,239	6,418	5,951	5,942	6,499	6,301	6,286	6,782	6,837	6,358	6,241	6,361	76,216
365	Facility Capacity (kW)																
366					2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	24,000
367					6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	72,000
368					15,766	15,766	15,766	15,766	15,766	15,766	15,992	15,839	15,839	16,018	16,018	16,018	190,320
369	Demand (kW)																
370					20,089	20,184	19,960	21,256	20,981	23,040	23,995	22,457	23,412	23,748	22,501	21,978	263,601
371					0	0	0	0	0	0	0	0	0	0	0	0	0
372	Reactive Demand (kVar)																
373					2,502	2,493	2,522	2,533	4,587	2,877	2,836	2,676	2,751	2,950	2,859	2,574	34,160
374	Calendar Energy (MWh)																
375					15,241	13,843	14,423	14,778	15,116	15,050	15,628	16,465	15,499	14,513	14,442	13,962	178,958
375	Schedule 489P GT 4,000 kW V2012																
376	Customers - Three Phase																
377					3	3	3	3	3	3	3	3	3	3	3	3	36
378	Energy (MWh)																
379					4,130	4,219	3,838	4,147	4,357	4,667	4,798	5,038	5,292	4,768	4,330	3,938	53,523
380					2,659	2,748	2,366	2,653	2,667	2,922	3,001	3,095	3,393	2,934	2,702	2,460	33,599
381	Facility Capacity (kW)																
382					3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
383					9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	108,000
384					4,318	4,287	3,632	4,748	5,570	4,981	4,588	4,780	4,812	4,495	4,759	3,855	54,825
385	Demand (kW)																
386					11,757	11,878	11,297	12,622	15,047	16,509	15,318	16,603	16,619	15,635	14,474	12,247	170,006
387					0	0	0	0	0	0	46	0	0	0	0	0	46
388	Reactive Demand (kVar)																
389					36	166	164	215	283	340	406	262	359	262	215	138	2,846
390	Calendar Energy (MWh)																
391					7,963	6,489	6,891	7,005	7,270	7,597	8,177	8,782	8,188	7,974	6,369	4,307	87,011
391	Schedule 489P GT 4,000 kW V2013																
392	Customers - Three Phase																
393					1	1	1	1	1	1	1	1	1	1	1	1	12
394	Energy (MWh)																
395					2,718	2,640	2,694	2,698	2,707	2,664	2,739	2,739	2,669	2,727	2,742	2,696	32,433
396					1,975	2,061	2,002	2,001	1,996	2,030	1,935	1,938	2,022	1,979	1,992	2,037	23,966
397	Facility Capacity (kW)																
398					1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
399					3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
400					4,161	4,161	4,161	4,161	4,161	4,161	4,161	4,161	4,161	4,161	4,161	4,161	49,932
401	Demand (kW)																
402					7,640	6,485	7,276	7,287	7,982	7,938	7,682	8,340	7,375	7,622	7,453	6,465	89,545
403					0	31	0	0	0	0	0	0	0	0	0	0	31
404	Reactive Demand (kVar)																
405					0	0	0	0	0	194	0	9	0	0	0	0	203
406	Calendar Energy (MWh)																
407					4,701	4,695	4,699	4,703	4,694	4,674	4,678	4,690	4,706	4,733	4,733	4,693	56,400
407	Schedule 489P GT 4,000 kW V2014																
408	Customers - Three Phase																
409					1	1	1	1	1	1	1	1	1	1	1	1	12
410	Energy (MWh)																
411					3,295	3,131	3,042	3,068	3,097	3,250	3,529	3,472	3,514	3,470	3,217	3,039	39,125
412					2,406	2,420	2,206	2,252	2,281	2,496	2,572	2,472	2,707	2,499	2,351	2,328	28,990
413	Facility Capacity (kW)																
414					1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	12,000
415					3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
416					5,325	5,325	5,325	5,325	5,325	5,325	5,325	5,325	5,325	5,325	5,325	5,325	63,900
417	Demand (kW)																
418					7,612	7,619	7,860	8,299	8,269	9,355	9,028	9,295	9,221	9,168	8,822	8,425	102,973
419					0	7	0	0	0	153	48	0	0	0	0	14	222
420	Reactive Demand (kVar)																
421					0	0	57	0	731	0	0	0	24	486	0	0	1,298
422	Calendar Energy (MWh)																
423					5,551	5,249	5,320	5,377	5,745	6,101	5,944	6,221	5,969	5,568	5,367	5,787	68,200

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
515				1,001-4,000 kW	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	36,000
516				Over 4,000 kW	14,264	14,264	13,845	13,845	13,946	13,946	13,946	14,086	14,086	14,086	14,086	14,010	168,410
517				Demand (kW)													
518				On-Peak	17,957	16,126	15,631	16,923	17,783	14,984	15,660	18,063	15,033	16,655	15,676	17,866	198,357
519				Off-Peak Increment	0	0	0	0	0	0	0	0	0	0	0	0	0
520				Reactive Demand (kVar)	16,418	12,112	13,111	13,983	16,806	13,652	16,454	17,443	14,726	15,864	15,228	16,508	182,305
521				Calendar Energy (MWh)	6,677	6,806	7,631	6,913	7,061	7,050	7,388	7,109	7,175	6,711	6,978	7,622	85,123
522																	
523				Total Direct Access													
524				Customers	301	301	301	301	301	301	301	301	301	301	301	301	3,612
525				Energy (MWh)	171,126	164,729	163,184	164,618	169,801	175,541	179,928	187,256	192,477	176,590	169,506	173,371	2,088,126
526				Facility Capacity (kW)	359,777	358,950	355,056	363,496	377,706	382,989	388,561	396,315	393,639	382,163	372,161	364,016	4,494,829
527				Demand (kW)	294,512	292,078	285,442	305,866	324,434	334,785	339,558	349,535	350,101	335,861	324,472	303,779	3,840,423
528				Reactive Demand (kVar)	45,970	40,230	41,418	44,647	55,841	51,820	56,155	57,638	56,129	54,814	50,025	47,567	602,254
529				Calendar Energy (MWh)	177,702	155,333	170,120	166,935	175,741	177,223	187,942	194,522	180,940	179,582	168,900	153,691	2,088,633

PORTLAND GENERAL ELECTRIC
Calculation of 2019 Wheeling Charge

Nonresidential Schedules	12 CP	Applicable MWh	aMW	LF	Wheeling
Schedule 15	1.8	16,855	1.9		
Schedule 32	264.4	1,743,698	199.1		
Schedule 38	4.2	33,655	3.8		
Schedule 47	3.5	23,155	2.6		
Schedule 49	10.4	68,929	7.9		
Schedule 83	475.5	3,085,089	352.2		
Schedule 85	416.4	2,889,290	329.8		
Schedule 89	58.3	476,650	54.4		
Schedule 90	232.3	1,959,842	223.7		
Schedule 91/95	5.9	54,048	6.2		
Schedule 92	0.3	2,667	0.3		
Totals	1,473.1	10,353,876	1,181.9	80.24%	3.06

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Hours	744	672	744	720	744	720	744	744	720	744	720	744	8,760

BPA PTP 1.793 kW-month
Hours 730 average hours per 12 months

PORTLAND GENERAL ELECTRIC
2019 LINE LOSS PROJECTIONS

Delivery Voltage	Internal Losses	External Losses	Losses
Secondary	4.74%	2.11%	6.85%
Primary	2.85%	2.11%	4.96%
Subtransmission	1.45%	2.11%	3.56%

Category	MWh	G&T Losses	G&T MWh	115 kV Losses	115 kV MWh	Primary Losses	Primary MWh
Residential	7,572,179	1.0685		1.0474	7,931,100	1.032	7,817,743
Secondary	7,374,128	1.0685		1.0474	7,723,662	1.032	7,613,269
Primary	4,150,900	1.0496		1.0285	4,269,201	1.014	4,208,182
Subtransmission	249,847	1.0356		1.0145	253,470		
Lighting	53,079	1.0685		1.0474	55,595	1.032	54,800
Totals	19,400,134				20,233,028		19,693,995

For delivery voltage differentiated pricing

Category	Peak Losses
Secondary	8.16%
Primary	5.30%
Subtransmission	3.89%

Totals

Secondary peak uses 500 kVa transformer additional losses at peak loading
Primary peak loss is from Attachment D of line loss study
Subtransmission peak loss is from Attachment C of line loss study