

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UE 435

In the Matter of)	OREGON CITIZENS' UTILITY
)	BOARD'S CROSS-EXAMINATION
PORTLAND GENERAL ELECTRIC)	STATEMENT, EXHIBITS, AND
COMPANY,)	CONFIDENTIAL PARTICIPANT
)	LIST
Request for a General Rate Revision.)	
_____)	

Pursuant to Administrative Law Judge (ALJ) Katherine Mapes September 27, 2024 hearing procedures memorandum and September 27 ruling on the procedural schedule modification, the Oregon Citizens' Utility Board (CUB) submits this cross examination statement and exhibits in the above-referenced proceeding. CUB has conferred with Portland General Electric Company (PGE) and understands that PGE will stipulate to the admission of the exhibits listed below. Accordingly, CUB has no cross examination for any witness in this proceeding and is willing to waive the hearing. If other parties conduct cross examination in this proceeding, however; CUB reserves the right to conduct follow-up questioning as necessary and warranted.

<u>Cross-Examination Exhibit</u>	<u>Description</u>
CUB/700	PGE response to CUB Data Request No. 137
CUB/701	PGE response to CUB Data Request No.138
CUB/702	PGE response to CUB Data Request No. 139
CUB/703	PGE response to CUB Data Request No.140
CUB/704	PGE response to CUB Data Request No.141
CUB/705	PGE response to CUB Data Request No.142

CUB/706	PGE response to CUB Data Request No.143
CUB/707	PGE response to CUB Data Request No.144
CUB/708	PGE response to CUB Data Request No.145
CUB/709	PGE response to CUB Data Request No.146
CUB/710	PGE response to CUB Data Request No.147
CUB/711	PGE response to CUB Data Request No.148
CUB/712	PGE response to CUB Data Request No.149
CUB/713	PGE response to CUB Data Request No.150
CUB/714	PGE response to CUB Data Request No.151
CUB/715	PGE response to CUB Data Request No.152
CUB/716	PGE response to CUB Data Request No.153
CUB/717	PGE response to CUB Data Request No.154
CUB/718	PGE response to CUB Data Request No.155
CUB/719	PGE response to CUB Data Request No.156
CUB/720	PGE response to CUB Data Request No.157
CUB/721	PGE response to CUB Data Request No.158
CUB/722	PGE response to CUB Data Request No.159
CUB/723	PGE response to CUB Data Request No. 160
CUB/724	PGE response to CUB Data Request No. 161
CUB/725	PGE response to CUB Data Request No. 162
CUB/726	PGE response to CUB Data Request No. 163
CUB/727	PGE response to CUB Data Request No. 164
CUB/728	PGE response to CUB Data Request No. 165
CUB/729	PGE response to CUB Data Request No. 166

CUB/730	PGE response to Verde Data Request No. 002
CUB/731	PGE response to Verde Data Request No. 007
CUB/732	PGE response to Verde Data Request No. 013
CUB/733	PGE response to Verde Data Request No. 014
CUB/734	UE 416, PGE 2024 Rate Review, 2024 Energy Burden Assessment filed June 28, 2024
CUB/735	UM 2211 – In the Matter of Public Utility Commission of Oregon, Implementation of House Bill 2475 PGE Update on Energy Burden Assessment Recommendations filed October 4, 2024
CUB/736	RE 195 PGE Schedule 18 Income Qualified Bill Discount Reporting (May 1, 2024 – July 31, 2024) filed August 20, 2024
CUB/737	UE 416 – Advice No. 24-19, Schedule 18, Income Qualified Bill Discount filed Sept. 27, 2024.
CUB/738	UE 430 –PGE's Motion for Extension of Time filed March 29 2024
CUB/739	UE 430 –PGE's Motion for Extension of Time filed April 30, 2024
CUB/740	PGE CEP & IRP Roundtable 24-3 dated July 11, 2024
CUB/741	PGE CEP & IRP Roundtable 24-3 dated July 11, 2024 –linked article, CBRE, <i>North America Data Center Trends H2 2023</i> . March 6, 2024

Any questions posed to witnesses by CUB at the hearing will be conducted by its Staff Attorney, Claire Valentine-Fossum.

CUB requests access to confidential sessions for the following qualified individuals:

- Bob Jenks
- Ryan Tran
- Sarah Wochele
- John Garrett
- Sharif Morton
- Jennifer Hill-Hart

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Dated this 8th day of October 2024.

Respectfully submitted,

/s/Claire Valentine-Fossum

Claire Valentine-Fossum, VT #6260
(admitted *pro hac vice*)

Staff Attorney

Oregon Citizens' Utility Board

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October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 137
Dated September 30, 2024

Request:

Please provide the rate spread associated with the Seaside battery project.

Response:

Attachment 137-A provides the rate spread associated with the revenue requirement in this case, inclusive of the Constable Battery Project revenue requirement and the Seaside Battery Project revenue requirement.

UE 435

PGE's Response to CUB DR 137

Attachment A

PORTLAND GENERAL ELECTRIC
2025 Test Period Functionalized Revenue Requirement

Function	Amount	Spread		Base	Constable	Seaside	Total
PRODUCTION	\$1,738,570	\$1,738,570	Production	\$ 1,688,263	\$ 11,422	\$ 1,699,685	\$ 38,885
TRANSMISSION	\$139,555	\$139,555	Transmission	\$ 138,697	\$ 353	\$ 139,050	\$ 504
ANCILLARY	\$7,831	\$7,831	Distribution	\$ 956,219	\$ 363	\$ 956,582	\$ 1,215
DISTRIBUTION	\$957,796	\$957,796	Ancillary	\$ 7,831	\$	\$ 7,831	\$ -
METERING	\$2,442	\$2,442	Metering	\$ 2,442	\$	\$ 2,442	\$ -
BILLING	\$48,083	\$48,083	Billing	\$ 48,083	\$	\$ 48,083	\$ -
CONSUMER	\$141,288	\$141,288	Other Consumer	\$ 141,288	\$	\$ 141,288	\$ -
TOTALS	\$3,035,565	\$3,035,565	Total Regulated	\$ 2,982,822	\$ 12,138	\$ 2,994,960	\$ 40,605

Constable Total Production
-6520.27 NVPC
17941.8 Fixed
11421.6

Note: Employee discount is allocated to distribution

A	B	C	D	E
UE 435, 2025				
Unbundled Revenue Requirement				
Dollars in \$000s				
Production		1,688,263		
Transmission		138,697		
Distribution		956,219		
Ancillary		7,831		
Metering		2,442		
Billing		48,083		
Other Consumer		141,288		
Total Regulated		2,982,822		
ROE = 9.65%				
October 1 NVPC - Surrebuttal Testimony - No BESS				

A	B	C	D	E	F	G
2025 Unbundled Revenue Requirement Constable						
Dollars in \$000s						
Production - NVPC		(6,520)				
Production - Fixed		17,942				
Transmission		353				
Distribution		363				
Ancillary		-				
Metering		-				
Billing		-				
Other Consumer		-				
Total Regulated		12,138				
Check		12,138				
Constable w/ ITC benefits, May 1 Update, Oct 01 NVPC, 9.65 ROE						

A	B	C	D	E
2025 Unbundled Revenue Requirement Seaside				
Dollars in \$000s				
Production - NVPC		(12,716)		
Production - Fixed		51,602		
Transmission		504		
Distribution		1,215		
Ancillary		-		
Metering		-		
Billing		-		
Other Consumer		-		
Total Regulated		40,605		
Check		40,605		
Integrated		45,086		

Seaside Total Production
-12,716
51,602
38,885

Table 1-F

Table 1-G

Table 1-A

CATEGORY	RATE SCHEDULE	PGE Opening Testimony CURRENT (LIA & PPC excluded)	CURRENT (LIA & PPC excluded)	GRC RATE INCREASE (excl. incremental power costs)		INCREMENTAL POWER COSTS		EXPECTED SUPPLEMENTAL SCHEDULE CHANGES		ALL-IN RATE INCREASE (GRC + power costs + supplementals)	
		AMOUNT	AMOUNT	AMOUNT	PCT.	AMOUNT	PCT.	AMOUNT	PCT.	AMOUNT	PCT.
Residential	7	1,547,540,667	1,531,866,571	\$144,198,224	9.4%	\$1,103,701	0.1%	\$1,617,989	0.1%	\$146,919,914	9.6%
Employee Discount		(1,042,989)	(1,031,478)	(\$84,340)		(\$2,047)		(\$18,195)		(\$100,488)	
Subtotal		1,546,497,678	1,530,835,093	\$144,113,884	9.4%	\$1,101,654	0.1%	\$1,599,794	0.1%	\$146,819,426	9.6%
Outdoor Area Lighting	15	4,257,761	4,162,269	\$295,725	7.1%	\$6,048	0.1%	(\$12,745)	-0.3%	\$289,028	6.9%
General Service <30 kW	32	284,565,806	278,234,300	\$36,220,142	13.0%	(\$809,829)	-0.3%	(\$3,827,557)	-1.4%	\$31,582,756	11.4%
Opt. Time-of-Day G.S. >30 kW	38	5,210,160	5,145,500	\$725,299	14.1%	(\$2,425)	0.0%	(\$10,534)	-0.2%	\$712,341	13.8%
Irrig. & Drain. Pump. < 30 kW	47	5,372,929	5,250,754	\$678,319	12.9%	\$64,981	1.2%	(\$19,454)	-0.4%	\$723,846	13.8%
Irrig. & Drain. Pump. > 30 kW	49	13,526,353	12,997,769	\$1,924,853	14.8%	(\$61,169)	-0.5%	(\$58,406)	-0.4%	\$1,805,278	13.9%
General Service 31-200 kW	83	402,681,183	399,265,731	\$49,858,996	12.5%	(\$910,761)	-0.2%	(\$346,444)	-0.1%	\$48,601,791	12.2%
General Service 201-4,000 kW											
Secondary	85-S	243,269,648	240,607,711	\$28,718,097	11.9%	(\$1,265,423)	-0.5%	(\$1,424,745)	-0.6%	\$26,027,929	10.8%
Primary	85-P	68,450,606	70,902,116	\$8,479,387	12.0%	(\$445,644)	-0.6%	(\$713,747)	-1.0%	\$7,319,997	10.3%
Schedule 89 > 4 MW											
Primary	89-P	92,564,008	101,288,511	\$13,109,540	12.9%	(\$718,785)	-0.7%	(\$729,667)	-0.7%	\$11,661,088	11.5%
Subtransmission	89-T/75-T	3,423,300	4,076,964	\$499,348	12.2%	(\$24,713)	-0.6%	(\$30,132)	-0.7%	\$444,504	10.9%
Schedule 90	90-P	302,725,316	302,794,016	\$23,816,673	7.9%	(\$1,893,152)	-0.6%	(\$2,004,362)	-0.7%	\$19,919,158	6.6%
Street & Highway Lighting	91/95	13,667,932	13,963,992	\$838,369	6.0%	(\$56,153)	-0.4%	(\$38,585)	-0.3%	\$743,630	5.3%
Traffic Signals	92	284,488	289,074	\$20,452	7.1%	(\$1,628)	-0.6%	(\$3,221)	-1.1%	\$15,602	5.4%
COS TOTALS		2,986,497,167	2,969,813,799	\$309,299,083	10.4%	(\$5,016,998)	-0.2%	(\$7,619,806)	-0.3%	\$296,666,373	10.0%
Direct Access Service 201-4,000 kW											
Secondary	485-S	13,057,680	12,653,151	\$624,142	4.9%	\$0	0.0%	\$71,258	0.6%	\$695,400	5.5%
Primary	485-P	7,515,715	6,178,606	\$355,074	5.7%	\$0	0.0%	\$26,021	0.4%	\$381,095	6.2%
Direct Access Service > 4 MW											
Primary	489-P	11,819,207	9,337,233	\$1,347,776	14.4%	\$0	0.0%	(\$1,374)	0.0%	\$1,346,402	14.4%
Subtransmission	489-T	2,598,917	2,140,977	(\$93,514)	-4.4%	\$0	0.0%	(\$26,522)	-1.2%	(\$120,036)	-5.6%
New Load Direct Access Service > 10MW											
Primary	689-P	3,642,574	7,248,152	(\$1,174,502)	-16.2%	\$0	0.0%	\$2,539	0.0%	(\$1,171,963)	-16.2%
DIRECT ACCESS TOTALS		38,634,093	37,558,119	\$1,058,977	2.8%	\$0	0.0%	\$71,922	0.2%	\$1,130,899	3.0%
COS AND DA CYCLE TOTALS		3,025,131,259	3,007,371,918	\$310,358,060	10.3%	(\$5,016,998)	-0.2%	(\$7,547,884)	-0.3%	\$297,797,272	9.9%

TABLE 1
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2025

Forecast
Sept 24 E25

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change		
				CURRENT	PROPOSED	AMOUNT	PCT.	
				all supplementals (LIA & PPC excluded)	all supplementals (LIA & PPC excluded)			
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,678,786,485	\$146,919,914	9.6%	
Employee Discount				(\$1,031,478)	(\$1,131,966)	(\$100,488)		
Subtotal				\$1,530,835,093	\$1,677,654,519	\$146,819,426	9.6%	
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$4,451,298	\$289,028	6.9%	
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	\$309,817,055	\$31,582,756	11.4%	
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	\$5,857,841	\$712,341	13.8%	
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$5,974,600	\$723,846	13.8%	
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	\$14,803,047	\$1,805,278	13.9%	
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	\$447,867,521	\$48,601,791	12.2%	
General Service 201-4,000 kW								
Secondary	85-S	1,263	2,041,005	\$240,607,711	\$266,635,640	\$26,027,929	10.8%	
Primary	85-P	176	718,780	\$70,902,116	\$78,222,112	\$7,319,997	10.3%	10.7%
Schedule 89 > 4 MW								
Primary	89-P	27	1,105,823	\$101,288,511	\$112,949,599	\$11,661,088	11.5%	
Subtransmission	89-1/75-T	3	38,613	\$4,076,964	\$4,521,468	\$444,504	10.9%	11.5%
Schedule 90	90-P	8	3,640,677	\$302,794,016	\$322,713,174	\$19,919,158	6.6%	
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	\$14,707,622	\$743,630	5.3%	
Traffic Signals	92	0	2,760	\$289,074	\$304,676	\$15,602	5.4%	
COS TOTALS		952,615	19,964,492	\$2,969,813,799	\$3,266,480,172	\$296,666,373	10.0%	
Direct Access Service 201-4,000 kW								
Secondary	485-S	211	438,351	\$12,653,151	\$13,348,551	\$695,400	5.5%	
Primary	485-P	48	278,884	\$6,178,606	\$6,559,701	\$381,095	6.2%	5.7%
Direct Access Service > 4 MW								
Primary	489-P	16	1,042,401	\$9,337,233	\$10,683,634	\$1,346,402	14.4%	
Subtransmission	489-T	3	204,711	\$2,140,977	\$2,020,942	(\$120,036)	-5.6%	10.7%
New Load Direct Access Service > 10MW								
Primary	689-P	3	515,071	\$7,248,152	\$6,076,189	(\$1,171,963)	-16.2%	
DIRECT ACCESS TOTALS		281	2,479,418	\$7,558,119	\$8,689,017	\$1,130,899	3.0%	
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	\$3,305,169,190	\$297,797,272	9.9%	14.9% CIO Threshold

**TABLE 1-B
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT OF BASE RATES ON CONSUMERS' TOTAL ELECTRIC BILLS
2025**

		Forecast Sept 24 E25		TOTAL ELECTRIC BILLS					
CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	CURRENT	PROPOSED	Change			
				all supplementals (LIA & PPC excluded)	base rates (incl. Schs 122a & 146); all other supplementals at current (LIA & PPC excluded)	AMOUNT	PCT.		
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,677,168,497	\$145,301,925	9.5%		
Employee Discount				(\$1,031,478)	(\$1,117,866)	(\$86,387)			
Subtotal				\$1,530,835,093	\$1,676,050,631	\$145,215,538	9.5%		
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$4,464,043	\$301,773	7.3%		
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	\$313,644,612	\$35,410,313	12.7%		
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	\$5,868,374	\$722,874	14.0%		
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$5,994,054	\$743,300	14.2%		
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	\$14,861,453	\$1,863,684	14.3%		
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	\$448,213,965	\$48,948,235	12.3%		
General Service 201-4,000 kW									
Secondary	85-S	1,263	2,041,005	\$240,607,711	\$268,060,385	\$27,452,674	11.4%		
Primary	85-P	176	718,780	\$70,902,116	\$78,935,859	\$8,033,743	11.3%	11.4%	
Schedule 89 > 4 MW									
Primary	89-P	27	1,105,823	\$101,288,511	\$113,679,266	\$12,390,755	12.2%		
Subtransmission	89-T/75-T	3	38,613	\$4,076,964	\$4,551,599	\$474,636	11.6%	12.2%	
Schedule 90	90-P	8	3,640,677	\$302,794,016	\$324,717,537	\$21,923,521	7.2%		
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	\$14,746,208	\$782,215	5.6%		
Traffic Signals	92	0	2,760	\$289,074	\$307,898	\$18,823	6.5%		
COS TOTALS		952,615	19,964,492	\$2,969,813,799	\$3,274,095,884	\$304,282,085	10.2%		
Direct Access Service 201-4,000 kW									
Secondary	485-S	211	438,351	\$12,653,151	\$13,277,293	\$624,142	4.9%		
Primary	485-P	48	278,884	\$6,178,606	\$6,533,680	\$355,074	5.7%	5.2%	
Direct Access Service > 4 MW									
Primary	489-P	16	1,042,401	\$9,337,233	\$10,685,008	\$1,347,776	14.4%		
Subtransmission	489-T	3	204,711	\$2,140,977	\$2,047,464	(\$93,514)	-4.4%	10.9%	
New Load Direct Access Service > 10MW									
Primary	689-P	3	515,071	\$7,248,152	\$6,073,651	(\$1,174,502)	-16.2%	-16.2%	
DIRECT ACCESS TOTALS		281	2,479,418	37,558,119	38,617,096	\$1,058,977	2.8%		
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	\$3,312,712,980	\$305,341,062	10.2%		

TABLE 1-C
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT OF BASE RATES ON CONSUMERS' TOTAL ELECTRIC BILLS
2025

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change	
				CURRENT	PROPOSED		
				all supplementals (LIA & PPC excluded)	base rates and Sch 102; all other supplementals at current (LIA & PPC excluded)	AMOUNT	PCT.
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,677,168,497	\$145,301,925	9.5%
Employee Discount				(\$1,031,478)	(\$1,117,866)	(\$86,387)	
Subtotal				\$1,530,835,093	\$1,676,050,631	\$145,215,538	9.5%
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$4,464,043	\$301,773	7.3%
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	\$313,644,612	\$35,410,313	12.7%
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	\$5,868,374	\$722,874	14.0%
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$5,994,054	\$743,300	14.2%
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	\$14,861,453	\$1,863,684	14.3%
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	\$448,213,965	\$48,948,235	12.3%
General Service 201-4,000 kW							
Secondary	85-S	1,263	2,041,005	\$240,607,711	\$268,060,385	\$27,452,674	11.4%
Primary	85-P	176	718,780	\$70,902,116	\$78,935,859	\$8,033,743	11.3%
Schedule 89 > 4 MW							
Primary	89-P	27	1,105,823	\$101,288,511	\$113,679,266	\$12,390,755	12.2%
Subtransmission	89-T/75-T	3	38,613	\$4,076,964	\$4,551,599	\$474,636	11.6%
Schedule 90	90-P	8	3,640,677	\$302,794,016	\$324,717,537	\$21,923,521	7.2%
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	\$14,746,208	\$782,215	5.6%
Traffic Signals	92	0	2,760	\$289,074	\$307,898	\$18,823	6.5%
COS TOTALS		952,615	19,964,492	\$2,969,813,799	\$3,274,095,884	\$304,282,085	10.2%
Direct Access Service 201-4,000 kW							
Secondary	485-S	211	438,351	\$12,653,151	\$13,277,293	\$624,142	4.9%
Primary	485-P	48	278,884	\$6,178,606	\$6,533,680	\$355,074	5.7%
Direct Access Service > 4 MW							
Primary	489-P	16	1,042,401	\$9,337,233	\$10,685,008	\$1,347,776	14.4%
Subtransmission	489-T	3	204,711	\$2,140,977	\$2,047,464	(\$93,514)	-4.4%
New Load Direct Access Service > 10MW							
Primary	689-P	3	515,071	\$7,248,152	\$6,073,651	(\$1,174,502)	-16.2%
DIRECT ACCESS TOTALS		281	2,479,418	37,558,119	38,617,096	\$1,058,977	2.8%
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	\$3,312,712,980	\$305,341,062	10.2%

**TABLE 1-D
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2025**

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change	
				CURRENT	PROPOSED		
				all supplementals (LIA & PPC excluded)	all supplementals; Sch 109 at current (LIA & PPC excluded)	AMOUNT	PCT.
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,678,786,485	\$146,919,914	9.6%
Employee Discount				(\$1,031,478)	(\$1,131,966)	(\$100,488)	
Subtotal				\$1,530,835,093	\$1,677,654,519	\$146,819,426	9.6%
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$4,451,298	\$289,028	6.9%
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	\$309,817,055	\$31,582,756	11.4%
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	\$5,857,841	\$712,341	13.8%
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$5,974,600	\$723,846	13.8%
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	\$14,803,047	\$1,805,278	13.9%
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	\$447,867,521	\$48,601,791	12.2%
General Service 201-4,000 kW							
Secondary	85-S	1,263	2,041,005	\$240,607,711	\$266,635,640	\$26,027,929	10.8%
Primary	85-P	176	718,780	\$70,902,116	\$78,222,112	\$7,319,997	10.3%
Schedule 89 > 4 MW							
Primary	89-P	27	1,105,823	\$101,288,511	\$112,949,599	\$11,661,088	11.5%
Subtransmission	89-T/75-T	3	38,613	\$4,076,964	\$4,521,468	\$444,504	10.9%
Schedule 90	90-P	8	3,640,677	\$302,794,016	\$322,713,174	\$19,919,158	6.6%
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	\$14,707,622	\$743,630	5.3%
Traffic Signals	92	0	2,760	\$289,074	\$304,676	\$15,602	5.4%
COS TOTALS		952,615	19,964,492	\$2,969,813,799	\$3,266,480,172	\$296,666,373	10.0%
Direct Access Service 201-4,000 kW							
Secondary	485-S	211	438,351	\$12,653,151	\$13,348,551	\$695,400	5.5%
Primary	485-P	48	278,884	\$6,178,606	\$6,559,701	\$381,095	6.2%
Direct Access Service > 4 MW							
Primary	489-P	16	1,042,401	\$9,337,233	\$10,683,634	\$1,346,402	14.4%
Subtransmission	489-T	3	204,711	\$2,140,977	\$2,020,942	(\$120,036)	-5.6%
New Load Direct Access Service > 10MW							
Primary	689-P	3	515,071	\$7,248,152	\$6,076,189	(\$1,171,963)	-16.2%
DIRECT ACCESS TOTALS		281	2,479,418	37,558,119	38,689,017	\$1,130,899	
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	\$3,305,169,190	\$297,797,272	9.9%

TABLE 1-E
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT OF RATE REVIEW REVENUE REQUIREMENT ON CONSUMERS' TOTAL ELECTRIC BILLS
2025

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change		
				CURRENT	PROPOSED			
				all supplementals (LIA & PPC excluded)	GRC rate increase (incl. incremental power costs); all other supplementals at current (LIA & PPC excluded)	AMOUNT	PCT.	
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,677,168,497	\$145,301,925	9.5%	
Employee Discount				(\$1,031,478)	(\$1,117,866)	(\$86,387)		
Subtotal				\$1,530,835,093	\$1,676,050,631	\$145,215,538	9.5%	
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$4,464,043	\$301,773	7.3%	
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	\$313,644,612	\$35,410,313	12.7%	
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	\$5,868,374	\$722,874	14.0%	
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$5,994,054	\$743,300	14.2%	
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	\$14,861,453	\$1,863,684	14.3%	
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	\$448,213,965	\$48,948,235	12.3%	
General Service 201-4,000 kW								
Secondary	85-S	1,263	2,041,005	\$240,607,711	\$268,060,385	\$27,452,674	11.4%	
Primary	85-P	176	718,780	\$70,902,116	\$78,935,859	\$8,033,743	11.3%	11.4%
Schedule 89 > 4 MW								
Primary	89-P	27	1,105,823	\$101,288,511	\$113,679,266	\$12,390,755	12.2%	
Subtransmission	89-T/75-T	3	38,613	\$4,076,964	\$4,551,599	\$474,636	11.6%	12.2%
Schedule 90	90-P	8	3,640,677	\$302,794,016	\$324,717,537	\$21,923,521	7.2%	
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	\$14,746,208	\$782,215	5.6%	
Traffic Signals	92	0	2,760	\$289,074	\$307,898	\$18,823	6.5%	
COS TOTALS		952,615	19,964,492	\$2,969,813,799	\$3,274,095,884	\$304,282,085	10.2%	
Direct Access Service 201-4,000 kW								
Secondary	485-S	211	438,351	\$12,653,151	\$13,277,293	\$624,142	4.9%	
Primary	485-P	48	278,884	\$6,178,606	\$6,533,680	\$355,074	5.7%	5.2%
Direct Access Service > 4 MW								
Primary	489-P	16	1,042,401	\$9,337,233	\$10,685,008	\$1,347,776	14.4%	
Subtransmission	489-T	3	204,711	\$2,140,977	\$2,047,464	(\$93,514)	-4.4%	10.9%
New Load Direct Access Service > 10MW								
Primary	689-P	3	515,071	\$7,248,152	\$6,073,651	(\$1,174,502)	-16.2%	-16.2%
DIRECT ACCESS TOTALS		281	2,479,418	37,558,119	38,617,096	\$1,058,977	2.8%	
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	\$3,312,712,980	\$305,341,062	10.2%	

TABLE 1-F
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT OF RATE REVIEW REVENUE REQUIREMENT (USING CURRENT UNIT POWER COSTS)
2025

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change		
				CURRENT	PROPOSED			
				all supplementals (LIA & PPC excluded)	GRC rate increase (excl. incremental power costs); all supplementals at current (LIA & PPC excluded)	AMOUNT	PCT.	
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,676,064,796	\$144,198,224	9.4%	
Employee Discount				(\$1,031,478)	(\$1,115,819)	(\$84,340)		
Subtotal				\$1,530,835,093	\$1,674,948,977	\$144,113,884	9.4%	
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$4,457,994	\$295,725	7.1%	
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	\$314,454,442	\$36,220,142	13.0%	
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	\$5,870,799	\$725,299	14.1%	
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$5,929,073	\$678,319	12.9%	
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	\$14,922,622	\$1,924,853	14.8%	
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	\$449,124,726	\$49,858,996	12.5%	
General Service 201-4,000 kW								
Secondary	85-S	1,263	2,041,005	\$240,607,711	\$269,325,808	\$28,718,097	11.9%	
Primary	85-P	176	718,780	\$70,902,116	\$79,381,503	\$8,479,387	12.0%	11.9%
Schedule 89 > 4 MW								
Primary	89-P	27	1,105,823	\$101,288,511	\$114,398,050	\$13,109,540	12.9%	
Subtransmission	89-T/75-T	3	38,613	\$4,076,964	\$4,576,312	\$499,348	12.2%	12.9%
Schedule 90	90-P	8	3,640,677	\$302,794,016	\$326,610,689	\$23,816,673	7.9%	
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	\$14,802,361	\$838,369	6.0%	
Traffic Signals	92	0	2,760	\$289,074	\$309,526	\$20,452	7.1%	
COS TOTALS		952,615	19,964,492	\$2,969,813,799	\$3,279,112,882	\$309,299,083	10.4%	
Direct Access Service 201-4,000 kW								
Secondary	485-S	211	438,351	\$12,653,151	\$13,277,293	\$624,142	4.9%	
Primary	485-P	48	278,884	\$6,178,606	\$6,533,680	\$355,074	5.7%	5.2%
Direct Access Service > 4 MW								
Primary	489-P	16	1,042,401	\$9,337,233	\$10,685,008	\$1,347,776	14.4%	
Subtransmission	489-T	3	204,711	\$2,140,977	\$2,047,464	(\$93,514)	-4.4%	10.9%
New Load Direct Access Service > 10MW								
Primary	689-P	3	515,071	\$7,248,152	\$6,073,651	(\$1,174,502)	-16.2%	-16.2%
DIRECT ACCESS TOTALS		281	2,479,418	37,558,119	38,617,096	\$1,058,977	2.8%	
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	\$3,317,729,978	\$310,358,060	10.3%	

**TABLE 1-G
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT OF INCREMENTAL POWER COSTS
2025**

Forecast
Sept 24 E25

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change		
				CURRENT	PROPOSED			
				all supplementals (LIA & PPC excluded)	incremental power costs only	AMOUNT	PCT.	
Residential	7	837,946	7,883,579	\$1,531,866,571	\$1,103,701	\$1,103,701	0.1%	
Employee Discount				(\$1,031,478)	(\$2,047)	(\$2,047,06)		
Subtotal				\$1,530,835,093	\$1,101,654	\$1,101,654	0.1%	
Outdoor Area Lighting	15	0	12,601	\$4,162,269	\$6,048	\$6,048	0.1%	
General Service <30 kW	32	96,817	1,527,980	\$278,234,300	(\$809,829)	(\$809,829)	-0.3%	
Opt. Time-of-Day G.S. >30 kW	38	382	26,943	\$5,145,500	(\$2,425)	(\$2,425)	0.0%	
Irrig. & Drain. Pump. < 30 kW	47	2,627	20,962	\$5,250,754	\$64,981	\$64,981	1.2%	
Irrig. & Drain. Pump. > 30 kW	49	1,369	58,816	\$12,997,769	(\$61,169)	(\$61,169)	-0.5%	
General Service 31-200 kW	83	11,797	2,846,128	\$399,265,731	(\$910,761)	(\$910,761)	-0.2%	
General Service 201-4,000 kW								
Secondary	85-S	1,263	2,041,005	\$240,607,711	(\$1,265,423)	(\$1,265,423)	-0.5%	
Primary	85-P	176	718,780	\$70,902,116	(\$445,644)	(\$445,644)	-0.6%	-0.5%
Schedule 89 > 4 MW								
Primary	89-P	27	1,105,823	\$101,288,511	(\$718,785)	(\$718,785)	-0.7%	
Subtransmission	89-T/75-T	3	38,613	\$4,076,964	(\$24,713)	(\$24,713)	-0.6%	-0.7%
Schedule 90	90-P	8	3,640,677	\$302,794,016	(\$1,893,152)	(\$1,893,152)	-0.6%	
Street & Highway Lighting	91/95	201	39,825	\$13,963,992	(\$56,153)	(\$56,153)	-0.4%	
Traffic Signals	92	0	2,760	\$289,074	(\$1,628)	(\$1,628)	-0.6%	
COS TOTALS		952,615	19,964,492	\$2,969,813,799	(\$5,016,998)	(\$5,016,998)	-0.2%	
Direct Access Service 201-4,000 kW								
Secondary	485-S	211	438,351	\$12,653,151	\$0	\$0	0.0%	
Primary	485-P	48	278,884	\$6,178,606	\$0	\$0	0.0%	0.0%
Direct Access Service > 4 MW								
Primary	489-P	16	1,042,401	\$9,337,233	\$0	\$0	0.0%	
Subtransmission	489-T	3	204,711	\$2,140,977	\$0	\$0	0.0%	0.0%
New Load Direct Access Service > 10MW								
Primary	689-P	3	515,071	\$7,248,152	\$0	\$0	0.0%	0.0%
DIRECT ACCESS TOTALS		281	2,479,418	37,558,119	0	\$0	0.0%	
COS AND DA CYCLE TOTALS		952,896	22,443,910	\$3,007,371,918	(\$5,016,998)	(\$5,016,998)	-0.2%	

**PORTLAND GENERAL ELECTRIC
CONSUMER IMPACT OFFSET**

Grouping	Cycle MWH	Revenues at Current Prices (\$000)	2025 Allocated Costs (\$000)	Percent Change	CIO mills/kWh	CIO Revenues
Schedule 7	7,883,579	\$1,531,867	\$1,586,710	3.6%	0.00	\$0
Schedule 15	12,601	\$4,162	\$4,227	1.5%	6.35	\$80
Schedule 32	1,527,980	\$278,234	\$287,070	3.2%	0.00	\$0
Schedule 38	26,943	\$5,145	\$5,631	9.4%	(8.49)	(\$229)
Schedule 47	20,962	\$5,251	\$5,920	12.8%	(9.23)	(\$193)
Schedule 49	58,816	\$12,998	\$11,442	-12.0%	(8.54)	(\$502)
Schedule 83	2,846,128	\$399,266	\$414,897	3.9%	0.00	\$0
Schedule 85	2,759,785	\$330,341.58	\$333,828.53	1.1%	0.00	\$0
Schedule 89/75	1,144,436	\$124,091.84	\$121,152	-2.4%	0.00	\$0
Schedule 90	3,640,677	\$302,794	\$303,373	0.2%	0.25	\$910
Schedules 91 & 95	39,825	\$13,964	\$14,255	2.1%	(2.01)	(\$80)
Schedule 92	2,760	\$289	\$282	-2.5%	0.00	\$0
COS TOTALS	19,964,492					
Sch 485 Energy	717,235				0.00	\$0
Sch 489 Energy	1,247,112				0.00	\$0
Sch 689 Energy	515,071				0.00	\$0
Totals	22,443,910	\$3,008,403	\$3,088,788	2.7%		(\$14)

PORTLAND GENERAL ELECTRIC
2025 GRC Tariff Schedule Prices

	Sch 7	Sch 7 TOD (Window)	Sch 15	Sch 32	Sch 32 (TOU)	Sch 38
Basic Charge						
1-phase Single-Family	\$15.00	\$15.00		\$24.00	\$24.00	\$50.00
1-phase Multi-Family	\$12.00	\$12.00				
3-phase Single-Family	\$15.00	\$15.00		\$33.00	\$33.00	\$60.00
3-phase Multi-Family	\$12.00	\$12.00				
Transmission						
Volumetric						
Block 1	8.90	22.60 (On-Peak)	5.25	7.19	7.19	6.99
Block 2		11.00 (Mid-Peak)				
Block 3		3.90 (Off-Peak)				
Demand						
Block 1						
Block 2						
Distribution						
Volumetric						
Block 1	71.98	183.00 (On-Peak)	70.10	74.50	74.50	95.93
Block 2		89.00 (Mid-Peak)		34.88	34.88	
Block 3		31.40 (Off-Peak)				
Facilities						
Block 1						
Block 2						
Block 3						
Demand						
Block 1						
Block 2						
Energy						
Volumetric						
Block 1	43.94	197.46 (On-Peak)			68.43 (On-Peak)	

Block 2	43.94	89.18 (Mid-Peak)			38.73 (Mid-Peak)	
Block 3	0.00	75.72 (Off-Peak)			22.81 (Off-Peak)	
Flat			30.73	38.73		0.00
On-Peak						45.02
Mid-Peak						
Off-Peak						30.02
Generation Demand						

System Usage						
Volumetric	*(in Dist rate)	*(in Dist rate)	*(in Dist rate)	*(in Dist rate)	*(in Dist rate)	*(in Dist rate)

Tariff Prices in cents/kWh

Basic Charge						
1-phase Single-Family	\$	15.00		\$	24.00	\$ 24.00 \$ 50.00
1-phase Multi-Family	\$	12.00				
3-phase Single-Family	\$	15.00		\$	33.00	\$ 33.00 \$ 60.00
3-phase Multi-Family	\$	12.00				

Transmission						
Volumetric						
Block 1	0.890	2.260 (On-Peak)	0.525	0.719	0.719	0.699
Block 2		1.100 (Mid-Peak)				
Block 3		0.390 (Off-Peak)				
Demand						
Block 1						
Block 2						

Distribution						
Volumetric						
Block 1	7.198	18.300 (On-Peak)	7.01	7.45	7.45	9.593
Block 2		8.900 (Mid-Peak)		3.488	3.488	
Block 3		3.140 (Off-Peak)				
Facilities						
Block 1						
Block 2						
Block 3						
Demand						
Block 1						

Energy

Block 1

Block 1	4.394	19.746 (On-Peak)		6.843 (On-Peak)	
Block 2	4.394	8.918 (Mid-Peak)		3.873 (Mid-Peak)	
Block 3		7.572 (Off-Peak)		2.281 (Off-Peak)	
Flat			3.073	3.873	
On-Peak					4.502
Off-Peak					3.002
Generation Demand					

Volumetric

*(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate)

On-peak

Mid-peak

Off-peak

Sch 47	Sch 49	Sch 83-S	Sch 85-S	Sch 85-P	Sch 89-S	Sch 89-P	Sch 89-T/75-T	>250 MWa Sch 90-P	30-250 MWa Sch 90	>250 MWa Sch 90-T
\$39.00	\$60.00	\$50.00								
\$39.00	\$60.00	\$60.00	\$870.00	\$740.00	\$4,150.00	\$4,110.00	\$5,810.00	\$18,400.00	\$18,400.00	\$18,400.00
7.62	7.08									
		\$3.48	\$3.48	\$3.44	\$3.48	\$3.44	\$3.38	\$3.44	\$3.44	\$3.38
144.60	137.69									
124.60	117.69									
		\$6.24	\$2.84	\$2.81	\$1.20	\$1.19	\$1.18	\$0.98	\$0.98	\$0.98
		\$6.14	\$2.74	\$2.71	\$0.89	\$0.88	\$0.87	\$0.98	\$0.98	\$0.98
		\$0.00	\$0.00	\$0.00	\$0.00			\$0.67	\$0.67	\$0.67
		\$2.11	\$2.11	\$2.09	\$2.11	\$2.09	\$0.13	\$2.09	\$2.09	\$0.13

4.62	4.524									
		3.003	2.902	2.876	4.188	4.149	4.109	3.134	3.623	3.099
		2.003	1.902	1.876	3.188	3.149	3.109	2.384	2.873	2.349
		9.860	11.400	11.270						
*(in Dist rate)	*(in Dist rate)	1.035	0.299	0.296	0.257	0.254	0.251	0.251	0.251	0.251

30-250 MWa Sch 90-T	Sch 91 Sch 95	Sch 92	Sch 485-S Sch 585-S	Sch 485-P Sch 585-P	Sch 489-S Sch 589-S Sch 689-S	Sch 489-P Sch 589-P Sch 689-P	Sch 489-T Sch 589-T Sch 689-T	>250 MWa Sch 490-P Sch 590-P	30-250 MWa Sch 490-P Sch 590-P	>250MWa Sch 490-T Sch 590-T
\$18,400.00			\$870.00	\$740.00	\$4,150.00	\$4,110.00	\$5,810.00	\$18,400.00	\$18,400.00	\$18,400.00
	4.77	5.39								
\$3.38										
	70.58	18.58								
\$0.98			\$2.84	\$2.81	\$1.20	\$1.19	\$1.18	\$0.98	\$0.98	\$0.98
\$0.98			\$2.74	\$2.71	\$0.89	\$0.88	\$0.87	\$0.98	\$0.98	\$0.98
\$0.67			\$0.00	\$0.00	\$0.00			\$0.67	\$0.67	\$0.67
\$0.13			\$2.11	\$2.09	\$2.11	\$2.09	\$0.13	\$2.09	\$2.09	\$0.13

32.90 30.73 33.15
24.94

2.51 *(in Dist rate) *(in Dist rate) 0.66 0.66 0.30 0.30 0.29 0.51 0.51 0.51

\$ 18,400.00 \$ 870.00 \$ 740.00 \$ 4,150.00 \$ 4,110.00 \$ 5,810.00 \$ 18,400.00 \$ 18,400.00 \$ 18,400.00

0.477 0.539

\$ 3.38

7.058 1.858

\$ 0.98	\$ 2.84	\$ 2.81	\$ 1.20	\$ 1.19	\$ 1.18	\$ 0.98	\$ 0.98
\$ 0.98	\$ 2.74	\$ 2.71	\$ 0.89	\$ 0.88	\$ 0.87	\$ 0.98	\$ 0.98
\$ 0.67				\$ 0.88	\$ 0.87	\$ 0.67	\$ 0.67
\$ 0.13	\$ 2.11	\$ 2.09	\$ 2.11	\$ 2.09	\$ 0.13	\$ 2.09	\$ 0.13

3.290
2.494

3.073 3.315

0.251 *(in Dist rate) *(in Dist rate) 0.066 0.066 0.030 0.03 0.029 0.051 0.051 0.051

30-250 MWa

Sch 490-T	Sch 491/495	Sch 492					
Sch 590-T	Sch 591/595	Sch 592	Sch 515	Sch 532	Sch 538	Sch 549	Sch 583

				\$24.00	\$50.00	\$60.00	\$50.00
\$18,400.00				\$33.00	\$60.00	\$60.00	\$60.00

	68.62	16.46	68.14	72.03 32.41	93.52	134.84 114.84	
\$0.98							\$6.24
\$0.98							\$6.14
\$0.67							\$0.00
\$0.13							\$2.11

0.51 *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) 7.91

	\$	24.00	\$	50.00	\$	60.00	\$ 50.00
\$ 18,400.00	\$	33.00	\$	60.00	\$	60.00	\$ 60.00

	6.862	1.646	6.814	7.203	9.352	13.484	
				3.241		11.484	
\$	0.98						6.240
\$	0.98						6.140
\$	0.67						
\$	0.13						2.110

0.051 *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) *(in Dist rate) 0.791

	A	B	C	D	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																													
2		PORTLAND GENERAL ELECTRIC																											
3		2025 GRC Prices																											
4																													
5					Generation	Wheeling					On	Mid	Off							Sch 128	Sch 128	Sch 129	Sch 129		Sch 102	Sch 102	Sch 102		
6					Demand	Demand	Reactive	Fixed	Sch 146	Sch 122a	Sch 122b	Sch 125	Sch 125	Sch 125	Sch 145	Sch 131	Sch 132a	Sch 132b	Sch 143	Block 1	Block 2	Part A	Part B	Sch 139	Block 1	Block 2	Block 3	Sch 105	Sch 109
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	Price	Price
8																													
9		Schedule 7							4.03			54.42			(0.48)	0.0%	0.00								(6.79)			0.00	7.88
10		Schedule 15 Residential							2.95			39.73			(0.35)	0.0%	0.00								(6.79)			(0.40)	5.87
11																													
12																													
13		Schedule 15 Commercial							2.95			39.73			(0.35)	0.0%	0.00									(6.79)		(0.40)	5.87
14		Schedule 32							3.60			47.86			(0.43)	0.0%	0.00									(6.79)		(0.46)	6.92
15		Schedule 38					\$0.50		3.47			53.87	48.87	38.87	(0.41)	0.0%	0.00									(6.79)		(0.52)	7.21
16		Schedule 47					\$0.50		4.02			57.15			(0.48)	0.0%	0.00									(6.79)		(0.50)	8.44
17		Schedule 49					\$0.50		4.24			55.96			(0.50)	0.0%	0.00									(6.79)		(0.72)	7.43
18		Schedule 83-S			\$9.86		\$0.50		3.53			35.87	31.87	25.87	(0.42)	0.0%	0.00									(6.79)		(0.76)	5.33
19		Schedule 85-S			\$11.40		\$0.50		3.45			34.57	30.57	24.57	(0.41)	0.0%	0.00									(6.79)		(0.68)	4.65
20		Schedule 89-S					\$0.50		3.26			48.03	44.03	38.03	(0.38)	0.0%	0.00									(6.79)		(0.49)	1.87
21		Schedule 91							2.95			38.47			(0.35)	0.0%	0.00											(0.68)	5.87
22		Schedule 92							3.15			41.83			(0.38)	0.0%	0.00											(0.60)	4.11
23		Schedule 95							2.95			38.47			(0.35)	0.0%	0.00											(0.68)	5.87
24																													
25																													
26		Schedule 85-P			\$11.27		\$0.50		3.20			34.25	30.25	24.25	(0.38)	0.0%	0.00									(6.79)		(0.68)	5.26
27		Schedule 89-P					\$0.50		3.22			47.57	43.57	37.57	(0.38)	0.0%	0.00									(6.79)		(0.49)	1.85
28		Schedule 90-P																											
29		(30 MWa - 250 MWa)					\$0.50		3.06			44.86		37.36	(0.36)	0.0%	0.00									(6.79)		(0.45)	0.94
30		(GT 250 Mwa)					\$0.50		3.06			44.86		37.36	(0.36)	0.0%	0.00									(6.79)		(0.45)	0.94
31																													
32																													
33		Schedule 89-T					\$0.50		3.28			47.10	43.10	37.10	(0.39)	0.0%	0.00									(6.79)		(0.49)	1.91
34		Schedule 90-T					\$0.50																						
35		(30 MWa - 250 MWa)							3.06							0.0%	0.00									(6.79)		(0.45)	0.95
36		(GT 250 Mwa)							3.06							0.0%	0.00									(6.79)		(0.45)	0.95
37		Schedule 75-T					\$0.50		3.28							0.0%	0.00											(0.49)	1.91
38		Schedule 76R					\$0.50									0.0%													
39																													
40																													
41		Schedule 485-S (Total)					\$0.50									0.0%	0.00									(6.79)		0.00	4.65
42		Schedule 485-S (Sch 129 v2020)																											
43		Schedule 485-S (Sch 129 v2023)																											
44		Schedule 485-S (Sch 129 v2025)																											
45																													
46																													
47		Schedule 485-P (Total)					\$0.50									0.0%	0.00									(6.79)		0.00	5.26
48		Schedule 485-P (Sch 129 v2021)																											
49		Schedule 485-P (Sch 129 v2024)																											
50		Schedule 485-P (Sch 129 v2025)																											
51		Schedule 489-P (Total)					\$0.50									0.0%	0.00									(6.79)		0.00	1.85
52		Schedule 489-P (Sch 129 v2020)																											
53		Schedule 489-P (Sch 129 v2021)																											
54		Schedule 489-P (Sch 129 v2024)																											
55		Schedule 489-P (Sch 129 v2025)																											
56		Schedule 689-P					\$0.50									0.0%	0.00									(6.79)		0.00	1.85
57		Schedule 689-P (Sch 139 v2024)																											
58																													
59																													
60		Schedule 489-T					\$0.50									0.0%	0.00									(6.79)		0.00	1.91

	A	B	C	D	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK
1															
2		PORTLAND GENERAL ELECTRIC													
3		2025 GRC Prices													
4															
5				>1MWa											
6				Sch 109	Sch 110	Sch 112	Sch 118	Sch 123	Sch 126	Sch 135	Sch 136	Sch 137	Sch 138	Sch 150	
7		Grouping		Price	Price	Price		Price	Price	Price	Price	Price	Price	Price	
8															
9		Schedule 7			0.00	0.00	1.88		0.00	0.68	0.29	0.29	0.04	0.53	
10		Schedule 15 Residential		2.83	0.00	0.00	2.36		0.00	0.48	0.22	0.22	0.03	0.40	
11															
12															
13		Schedule 15 Commercial		2.83	0.00	0.00	2.36		0.00	0.48	0.22	0.22	0.03	0.40	
14		Schedule 32		3.46	0.00	0.00	2.36		0.00	0.60	0.27	0.26	0.03	0.50	
15		Schedule 38		3.98	0.00	0.00	2.36		0.00	0.58	0.29	0.27	0.03	0.96	
16		Schedule 47		4.65	0.00	0.00	2.36		0.00	0.68	0.40	0.40	0.04	0.71	
17		Schedule 49		4.10	0.00	0.00	2.36		0.00	0.71	0.35	0.35	0.04	0.65	
18		Schedule 83-S		2.17	0.00	0.00	2.36		0.00	0.84	0.21	0.20	0.04	0.66	
19		Schedule 85-S		1.00	0.00	0.00	2.36		0.00	0.82	0.15	0.17	0.04	0.42	
20		Schedule 89-S		1.87	0.00	0.00	2.36		0.00	0.54	0.06	0.14	0.02	0.13	
21		Schedule 91		3.24	0.00	0.00	2.36		0.00	0.48	0.22	0.22	0.03	0.40	
22		Schedule 92		2.83	0.00	0.00	2.36		0.00	0.51	0.15	0.15	0.03	0.27	
23		Schedule 95		3.24	0.00	0.00	2.36		0.00	0.48	0.22	0.22	0.03	0.40	
24															
25															
26		Schedule 85-P		1.16	0.00	0.00	2.36		0.00	0.43	0.11	0.15	0.03	0.27	
27		Schedule 89-P		1.85	0.00	0.00	2.36		0.00	0.53	0.06	0.14	0.02	0.13	
28		Schedule 90-P													
29		(30 MWa - 250 MWa)		0.94	0.00	0.00	2.36		0.00	0.45	0.12	0.13	0.03	0.22	
30		(GT 250 Mwa)		0.94	0.00	0.00	2.36		0.00	0.45	0.12	0.13	0.03	0.22	
31															
32															
33		Schedule 89-T		1.91	0.00	0.00	2.36		0.00	0.53	0.03	0.12	0.03	0.05	
34		Schedule 90-T													
35		(30 MWa - 250 MWa)		0.95	0.03	0.00	2.36		0.00	0.45	0.12	0.13	0.03	0.22	
36		(GT 250 Mwa)		0.95	0.03	0.00	2.36		0.00	0.45	0.12	0.13	0.03	0.22	
37		Schedule 75-T		1.91	0.03	0.00	2.36		0.00	0.53	0.03	0.12	0.03	0.05	
38		Schedule 76R													
39															
40															
41		Schedule 485-S (Total)		1.00	0.00	0.00	2.36				0.15	0.17		0.42	
42		Schedule 485-S (Sch 129 v2020)													
43		Schedule 485-S (Sch 129 v2023)													
44		Schedule 485-S (Sch 129 v2025)													
45															
46															
47		Schedule 485-P (Total)		1.16	0.00	0.00	2.36				0.11	0.15		0.27	
48		Schedule 485-P (Sch 129 v2021)													
49		Schedule 485-P (Sch 129 v2024)													
50		Schedule 485-P (Sch 129 v2025)													
51		Schedule 489-P (Total)		1.85	0.00	0.00	2.36				0.11	0.14		0.13	
52		Schedule 489-P (Sch 129 v2020)													
53		Schedule 489-P (Sch 129 v2021)													
54		Schedule 489-P (Sch 129 v2024)													
55		Schedule 489-P (Sch 129 v2025)													
56		Schedule 689-P		1.85	0.00	0.00	2.36				0.11	0.14		0.13	
57		Schedule 689-P (Sch 139 v2024)													
58															
59															
60		Schedule 489-T		1.91	0.00	0.00	2.36				0.03	0.12		0.05	

PORTLAND GENERAL ELECTRIC
2025 Price Changes relative to Current Prices

Grouping	Basic Charge BD Singlefamily/ Single-phase	Basic Charge BD Multifamily/ Three-phase	Transmission & Related Volumetric Price	Transmission & Related Demand Price	Distribution Volumetric Block 1 Price	Distribution Volumetric Block 2 Price	Facilities Block 1 Price	Facilities Block 2 Price	Distribution Demand Peak Price	Sys. Usage Implicit & Explicit Price	Energy Block 1 Price	Energy Block 2 Price	Energy Flat Price	Energy On-Peak Price	Energy Mid-Peak Price
Schedule 7	\$2.00	\$2.00	2.12	\$0.00	2.93	2.93	0.00	0.00	0.00	0.61	(44.20)	(44.20)	0.00	0.00	
Schedule 15 Residential	\$0.00	\$0.00	1.31	\$0.00	2.49	2.49	0.00	0.00	0.00	3.03	0.00	0.00	(33.75)	0.00	
Schedule 15 Commercial	\$0.00	\$0.00	1.31	\$0.00	2.49	2.49	0.00	0.00	0.00	3.03	0.00	0.00	(33.75)	0.00	
Schedule 32	\$2.00	\$2.00	1.67	\$0.00	12.78	0.00	0.00	0.00	0.00	0.74	0.00	0.00	(39.85)	0.00	
Schedule 38	\$15.00	\$25.00	1.47	\$0.00	20.20	20.20	0.00	0.00	0.00	(7.43)	0.00	0.00	0.00	(38.10)	
Schedule 47	\$0.00	\$0.00	1.70	\$0.00	30.92	30.92	0.00	0.00	0.00	(12.76)	0.00	0.00	(41.55)	0.00	
Schedule 49	\$10.00	\$10.00	1.38	\$0.00	26.34	26.34	0.00	0.00	0.00	(6.08)	0.00	0.00	(47.31)	0.00	
Schedule 83-S	\$10.00	\$10.00	0.00	\$1.36	0.00	0.00	0.69	0.69	0.60	(0.52)	0.00	0.00	0.00	(25.31)	
Schedule 85-S	\$0.00	\$90.00	0.00	\$1.36	0.00	0.00	(0.26)	(0.26)	0.60	0.42	0.00	0.00	0.00	(24.69)	
Schedule 89-S	\$0.00	\$660.00	0.00	\$1.36	0.00	0.00	(0.31)	(0.31)	0.60	0.40	0.00	0.00	0.00	(35.26)	
Schedule 91	\$0.00	\$0.00	0.64	\$0.00	6.36	6.36	0.00	0.00	0.00	(0.17)	0.00	0.00	(33.75)	0.00	
Schedule 92	\$0.00	\$0.00	1.18	\$0.00	(0.77)	(0.77)	0.00	0.00	0.00	0.30	0.00	0.00	(35.72)	0.00	
Schedule 95	\$0.00	\$0.00	0.64	\$0.00	6.36	6.36	0.00	0.00	0.00	(0.17)	0.00	0.00	(33.75)	0.00	
Schedule 85-P	\$0.00	\$70.00	0.00	\$1.34	0.00	0.00	(0.26)	(0.26)	0.60	0.42	0.00	0.00	0.00	(24.42)	
Schedule 89-P	\$0.00	\$660.00	0.00	\$1.34	0.00	0.00	(0.31)	(0.31)	0.60	0.39	0.00	0.00	0.00	(34.88)	
Schedule 90-P	\$0.00	\$0.00	0.00	\$0.00	0.00	0.00	0.00	0.00	0.00	2.51	0.00	0.00	0.00	0.00	
(30 MWa - 250 MWa)	\$0.00	\$6,200.00	0.00	\$1.34	0.00	0.00	(0.81)	(0.81)	0.60	0.53	0.00	0.00	0.00	(38.53)	
(GT 250 Mwa)	\$0.00	\$6,200.00	0.00	\$1.34	0.00	0.00	(0.81)	(0.81)	0.60	(1.98)	0.00	0.00	0.00	(41.63)	
Schedule 89-T	\$0.00	\$860.00	0.00	\$1.32	0.00	0.00	(0.32)	(0.32)	0.01	0.38	0.00	0.00	0.00	(34.49)	
Schedule 90-T	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.98	\$0.67	\$0.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
(30 MWa - 250 MWa)	\$0.00	\$6,200.00	\$0.00	\$1.32	\$0.00	\$0.00	(\$1.79)	(\$1.48)	(\$0.12)	\$0.28	\$0.00	\$0.00	\$0.00	(\$40.91)	
(GT 250 Mwa)	\$0.00	\$6,200.00	\$0.00	\$1.32	\$0.00	\$0.00	(\$1.79)	(\$1.48)	(\$0.12)	\$0.53	\$0.00	\$0.00	\$0.00	(\$41.16)	
Schedule 75-T	\$0.00	\$860.00	0.00	\$1.32	0.00	0.00	(0.32)	(0.32)	0.01	0.38	0.00	0.00	0.00	(34.49)	
Schedule 76R	\$0.00	\$860.00	0.00	\$1.32	0.00	0.00	(0.32)	(0.32)	0.01	0.00	0.00	0.00	0.00	41.09	
Schedule 485-S (Total)	\$0.00	\$90.00	\$0.00	\$0.00	\$0.00	\$0.00	(0.26)	(0.26)	0.60	0.15	0.00	0.00	0.00	0.00	
Schedule 485-S (Sch 129 v2020)															
Schedule 485-S (Sch 129 v2023)							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Schedule 485-S (Sch 129 v2025)															
Schedule 485-P (Total)	\$0.00	\$70.00	\$0.00	\$0.00	\$0.00	\$0.00	(0.26)	(0.26)	0.60	0.16	0.00	0.00	0.00	0.00	
Schedule 485-P (Sch 129 v2021)															
Schedule 485-P (Sch 129 v2024)															
Schedule 485-P (Sch 129 v2025)															
Schedule 489-P (Total)	\$0.00	\$660.00	\$0.00	\$0.00	\$0.00	\$0.00	(0.31)	(0.31)	0.60	0.12	0.00	0.00	0.00	0.00	
Schedule 489-P (Sch 129 v2020)															
Schedule 489-P (Sch 129 v2021)															
Schedule 489-P (Sch 129 v2024)															
Schedule 489-P (Sch 129 v2025)															
Schedule 689-P	\$0.00	\$660.00	\$0.00	\$0.00	\$0.00	\$0.00	(0.31)	(0.31)	0.60	0.12	0.00	0.00	0.00	0.00	
Schedule 689-P (Sch 139 v2024)															
Schedule 489-T	\$0.00	\$860.00	\$0.00	\$0.00	\$0.00	\$0.00	(0.32)	(0.32)	0.01	0.11	0.00	0.00	0.00	0.00	

Energy Off-Peak Price	Generation Demand Price	Wheeling Demand Price	Reactive Price	Fixed Price	Sch 146 Price	Sch 122a Price	Sch 122b Price	Sch 125 Price	Sch 145 Price	Sch 131 Price	Sch 132a Price	Sch 132b Price	Sch 143 Price	Sch 128 Block 1 Price	Sch 128 Block 2 Price	Sch 129 Price	Sch 129 Part B Price	Sch 139 Price	Sch 102 Block 1 Price	Sch 102 Block 2 Price	Sch 102 Block 3 Price	Sch 105 Price
0.00		0.00	0.00	0.00	0.00	0.00	0.00	54.42	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.39
0.00		0.00	0.00	0.00	0.00	0.00	0.00	39.73	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.16)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	39.73	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.16)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	47.86	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.05)
(38.10)		0.00	0.00	0.00	0.00	0.00	0.00	53.87	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.15
0.00		0.00	0.00	0.00	0.00	0.00	0.00	57.15	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.09)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	55.96	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.05)
(20.31)	\$0.96	0.00	0.00	0.00	0.00	0.00	0.00	35.87	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.01)
(19.69)	\$1.28	0.00	0.00	0.00	0.00	0.00	0.00	34.57	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00
(30.26)		0.00	0.00	0.00	0.00	0.00	0.00	48.03	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.09
0.00		0.00	0.00	0.00	0.00	0.00	0.00	38.47	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.16)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	41.83	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.01)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	38.47	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	(0.16)
(19.42)	\$1.26	0.00	0.00	0.00	0.00	0.00	0.00	34.25	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00
(29.88)		0.00	0.00	0.00	0.00	0.00	0.00	47.57	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.09
(31.03)		0.00	0.00	0.00	3.06	0.00	0.00	44.86	(0.36)				0.00	0.00	0.00	0.00			(6.79)	0.00	0.00	(0.45)
(34.13)		0.00	0.00	0.00	0.00	0.00	0.00	44.86	0.00				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.06
0.00																						
(29.49)		0.00	0.00	0.00	0.00	0.00	0.00	47.10	0.00				0.00	0.00	0.00	0.00			(6.79)	0.00	0.00	0.09
\$0.00		0.00	0.50	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
(\$33.53)		0.00	(0.50)	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00			(6.79)	0.00	0.00	0.06
(\$33.66)		0.00	(0.50)	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00			(6.79)	0.00	0.00	0.06
(29.49)		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	0.00	0.09
31.09		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	0.00	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	0.00			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				0.00	0.00	0.00	7.70			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	0.00	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	0.00	0.00				0.00	0.00	0.00	7.25			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	0.00	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	0.00	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	0.00	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		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00	6.88			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	0.00	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	0.00	0.00				0.00	0.00	0.00	0.00			(6.79)	0.00	0.00	0.00

Sch 109	Sch 109 >1MWA	Sch 110	Sch 112	Sch 118	Sch 123	Sch 126	Sch 135	Sch 136	Sch 137	Sch 138	Sch 150	Sch 151	Sch 152	Sch 153
Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price
0.00	0.00	0.00	0.00	0.00	0.14	(0.80)	0.01	0.17	0.05	0.04	(0.03)	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	(0.01)	0.13	0.04	0.03	(0.03)	0.00	0.00	0.01
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	(0.01)	0.13	0.04	0.03	(0.03)	0.00	0.00	0.01
0.00	0.00	0.00	0.00	0.00	(2.12)	(0.80)	0.01	0.16	0.05	0.03	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.01	0.17	0.04	0.03	0.40	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.02	0.23	0.07	0.04	(0.08)	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.01	0.20	0.06	0.04	(0.10)	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.26)	(0.80)	0.26	0.12	0.03	0.04	0.33	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.25	0.08	0.03	0.04	0.14	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.00	0.00	0.03	0.02	(0.09)	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.02	0.13	0.04	0.03	(0.04)	0.00	0.00	0.01
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	(0.01)	0.09	0.03	0.03	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.02	0.13	0.04	0.03	(0.04)	0.00	0.00	0.01
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	(0.10)	0.05	0.03	0.03	0.03	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	0.00	0.00	0.03	0.02	(0.09)	0.00	0.00	0.00
0.94	0.94	0.00	0.00	2.36	0.00	0.00	0.45	0.12	0.13	0.03	0.22	0.41	0.18	0.01
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	(0.05)	0.07	0.03	0.03	0.01	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.62)	(0.80)	(0.01)	(0.02)	0.02	0.03	(0.14)	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	0.00	0.00	0.00	0.00
0.00	0.00	0.03	0.00	0.00	(0.62)	(0.80)	(0.05)	0.07	0.03	0.03	0.01	0.00	0.00	0.00
0.00	0.00	0.03	0.00	0.00	(0.62)	(0.80)	(0.05)	0.07	0.03	0.03	0.01	0.00	0.00	0.00
0.00	0.00	0.03	0.00	0.00	(0.62)	(0.80)	(0.01)	(0.02)	0.02	0.03	(0.14)	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	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.13)	0.00	0.00	0.08	0.03	0.00	0.14	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	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.13)	0.00	0.00	0.05	0.03	0.00	0.03	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	0.00	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	0.00	0.00	0.00	0.00	0.00
(0.06)	0.00	0.00	0.00	0.00	(0.13)	0.00	0.00	0.05	0.03	0.00	(0.09)	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	(0.13)	0.00	0.00	(0.02)	0.02	0.00	(0.14)	0.00	0.00	0.00

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1																																	
2	PORTLAND GENERAL ELECTRIC																																
3	Revenues at Proposed Prices																																
4																		Explicit/ Sys. Usage															
5																																	
6																																	
7	Grouping																																
8																																	
9	Schedule 7																																
10	Schedule 15 Residential																																
11	Subtotal																																
12																																	
13	Schedule 15 Commercial																																
14	Schedule 32																																
15	Schedule 38																																
16	Schedule 47																																
17	Schedule 49																																
18	Schedule 83-S																																
19	Schedule 85-S																																
20	Schedule 89-S																																
21	Schedule 91																																
22	Schedule 92																																
23	Schedule 95																																
24	Subtotal																																
25																																	
26	Schedule 85-P																																
27	Schedule 89-P																																
28	Schedule 90-P																																
29	(30 MWa - 250 MWa)																																
30	(GT 250 Mw)																																
31	Subtotal																																
32																																	
33	Schedule 89-T																																
34	Schedule 90-T																																
35	(30 MWa - 250 MWa)																																
36	(GT 250 Mw)																																
37	Schedule 75-T																																
38	Schedule 76R																																
39	Subtotal																																
40																																	
41	Schedule 485-S (Total)																																
42	Schedule 485-S (Sch 129 v2020)																																
43	Schedule 485-S (Sch 129 v2023)																																
44	Schedule 485-S (Sch 129 v2025)																																
45	Subtotal																																
46																																	
47	Schedule 485-P (Total)																																
48	Schedule 485-P (Sch 129 v2021)																																
49	Schedule 485-P (Sch 129 v2024)																																
50	Schedule 485-P (Sch 129 v2025)																																
51	Schedule 489-P (Total)																																
52	Schedule 489-P (Sch 129 v2020)																																
53	Schedule 489-P (Sch 129 v2021)																																
54	Schedule 489-P (Sch 129 v2024)																																
55	Schedule 489-P (Sch 129 v2025)																																
56	Schedule 689-P																																
57	Schedule 689-P (Sch 139 v2024)																																
58	Subtotal																																
59																																	
60	Schedule 489-T																																
61	Subtotal																																
62																																	
63	COS Totals																																
64	Market Totals																																
65	Direct Access Totals																																
66	Totals																																

	A	B	C	D	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	
2	PORTLAND GENERAL ELECTRIC																														
3	Revenues at Proposed Prices																														
4																															
5																															
6																															
7	Grouping	Sch 138 Revenues	Sch 150 Revenues	Sch 151 Revenues	Sch 152 Revenues	Sch 153 Revenues	GRC Revenues (Incl. Sch 125)	Base Revenues (Incl. Sch 125, 122a & 146)	Base Revenues + Sch 102	Supplemental Revenues (Incl. Sch 102)	Total Revenues	Total Revenues - Sch 109																			
9	Schedule 7	\$315,343	\$4,178,297	\$28,065,540	\$20,733,812	\$78,836	\$1,554,948,121	\$1,586,718,943	\$1,538,238,812	\$92,067,543	\$1,678,786,485	\$1,616,663,885	1,617,989																		
10	Schedule 15 Residential	\$47	\$632	\$4,121	\$3,063	\$32	\$520,927	\$525,585	\$514,864	\$6,711	\$532,296	\$523,027	(1,618)																		
11	Subtotal	\$315,391	\$4,178,928	\$28,069,661	\$20,736,875	\$78,867	\$1,555,469,048	\$1,587,244,528	\$1,538,753,676	\$92,074,253	\$1,679,318,781	\$1,617,186,912	0																		
13	Schedule 15 Commercial	\$331	\$4,409	\$28,767	\$21,383	\$220	\$3,738,867	\$3,771,382	\$3,771,382	\$147,620	\$3,919,002	\$3,854,377	(11,127)																		
14	Schedule 32	\$45,839	\$763,990	\$5,103,452	\$3,407,394	\$15,280	\$281,565,791	\$287,066,518	\$285,935,095	\$22,750,538	\$309,817,055	\$299,243,796	(3,827,557)																		
15	Schedule 38	\$808	\$25,866	\$101,307	\$67,628	\$269	\$5,308,925	\$5,402,418	\$5,399,073	\$455,422	\$5,857,841	\$5,664,196	(10,534)																		
16	Schedule 47	\$838	\$14,883	\$16,769	\$84,895	\$419	\$5,642,760	\$5,727,026	\$5,619,929	\$247,574	\$5,974,600	\$5,797,683	(19,454)																		
17	Schedule 49	\$2,353	\$38,231	\$41,642	\$195,858	\$1,176	\$13,981,507	\$14,230,888	\$13,936,801	\$572,159	\$14,803,047	\$14,366,042	(58,406)																		
18	Schedule 83-S	\$113,845	\$1,878,445	\$5,606,873	\$4,098,425	\$28,461	\$404,857,642	\$414,904,474	\$414,161,583	\$32,963,047	\$447,867,521	\$432,803,723	(346,444)																		
19	Schedule 85-S	\$81,640	\$857,222	\$2,612,486	\$1,959,364	\$20,410	\$240,276,506	\$247,317,972	\$247,214,685	\$19,317,669	\$266,635,640	\$257,664,629	(1,424,745)																		
20	Schedule 89-S	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
21	Schedule 91	\$296	\$3,946	\$25,745	\$19,136	\$197	\$4,907,988	\$4,937,087	\$4,937,087	\$129,416	\$5,066,503	\$5,008,601	(7,631)																		
22	Schedule 92	\$83	\$745	\$2,429	\$2,208	\$28	\$273,102	\$281,796	\$281,796	\$22,880	\$304,676	\$293,333	(3,221)																		
23	Schedule 95	\$899	\$11,984	\$78,198	\$58,124	\$599	\$9,159,646	\$9,248,031	\$9,248,031	\$393,088	\$9,641,119	\$9,465,248	(30,954)																		
24	Subtotal	\$246,932	\$3,599,719	\$13,617,668	\$9,914,415	\$67,061	\$969,712,734	\$992,887,592	\$990,505,461	\$76,999,413	\$1,069,887,004	\$1,034,161,629	(5,740,074)																		
26	Schedule 85-P	\$21,563	\$194,071	\$625,339	\$524,710	\$7,188	\$70,633,805	\$72,933,902	\$72,924,950	\$5,288,211	\$78,222,112	\$75,728,193	(713,747)																		
27	Schedule 89-P	\$22,116	\$143,757	\$508,678	\$210,106	\$11,058	\$103,992,435	\$107,553,184	\$107,553,184	\$5,396,415	\$112,949,599	\$110,903,827	(729,667)																		
28	Schedule 90-P	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
29	(30 MWa - 250 MWa)	\$16,431	\$120,496	\$224,562	\$98,588	\$5,477	\$48,759,464	\$50,435,460	\$50,435,460	\$1,486,555	\$51,922,015	\$51,407,166	(299,461)																		
30	(GT 250 Mwa)	\$92,789	\$680,452	\$1,268,116	\$556,734	\$30,930	\$253,864,902	\$263,329,377	\$263,329,377	\$7,461,782	\$270,791,159	\$267,883,771	(1,704,901)																		
31	Subtotal	\$152,900	\$1,138,777	\$2,626,695	\$1,390,138	\$54,653	\$477,250,605	\$494,251,923	\$494,242,971	\$19,632,963	\$513,884,886	\$505,922,958	(3,447,776)																		
33	Schedule 89-T	\$1,158	\$1,931	\$20,079	\$4,634	\$386	\$4,209,472	\$4,336,124	\$4,336,124	\$185,344	\$4,521,468	\$4,447,716	(30,132)																		
34	Schedule 90-T	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
35	(30 MWa - 250 MWa)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
36	(GT 250 Mwa)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
37	Schedule 75-T	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
38	Schedule 76R	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
39	Subtotal	\$1,158	\$1,931	\$20,079	\$4,634	\$386	\$4,209,472	\$4,336,124	\$4,336,124	\$185,344	\$4,521,468	\$4,447,716	(30,132)																		
41	Schedule 485-S (Total)	\$0	\$184,107	\$561,089	\$490,953	\$4,384	\$9,049,358	\$9,049,358	\$9,049,358	\$4,299,192	\$13,348,551	\$11,464,673	71,258																		
42	Schedule 485-S (Sch 129 v2020)												0																		
43	Schedule 485-S (Sch 129 v2023)												0																		
44	Schedule 485-S (Sch 129 v2025)												0																		
45	Subtotal	\$0	\$184,107	\$561,089	\$490,953	\$4,384	\$9,049,358	\$9,049,358	\$9,049,358	\$4,299,192	\$13,348,551	\$11,464,673	71,258																		
47	Schedule 485-P (Total)	\$0	\$75,299	\$242,629	\$248,207	\$2,789	\$4,578,000	\$4,578,000	\$4,578,000	\$1,981,702	\$6,559,701	\$5,877,600	26,021																		
48	Schedule 485-P (Sch 129 v2021)												0																		
49	Schedule 485-P (Sch 129 v2024)												0																		
50	Schedule 485-P (Sch 129 v2025)												0																		
51	Schedule 489-P (Total)	\$0	\$135,512	\$479,505	\$364,840	\$10,424	\$5,044,242	\$5,044,242	\$5,044,242	\$5,639,392	\$10,683,634	\$8,755,192	(1,374)																		
52	Schedule 489-P (Sch 129 v2020)												0																		
53	Schedule 489-P (Sch 129 v2021)												0																		
54	Schedule 489-P (Sch 129 v2024)												0																		
55	Schedule 489-P (Sch 129 v2025)												0																		
56	Schedule 689-P	\$0	\$66,959	\$236,933	\$180,275	\$5,151	\$3,289,657	\$3,289,657	\$3,289,657	\$2,786,532	\$6,076,189	\$5,123,309	2,539																		
57	Schedule 689-P (Sch 139 v2024)												0																		
58	Subtotal	\$0	\$277,770	\$959,066	\$793,322	\$18,364	\$12,911,899	\$12,911,899	\$12,911,899	\$10,407,626	\$23,319,525	\$19,756,100	27,186																		
60	Schedule 489-T	\$0	\$10,236	\$106,450	\$57,319	\$2,047	\$940,070	\$940,070	\$940,070	\$1,080,872	\$2,020,942	\$1,629,944	(26,522)																		
61	Subtotal	\$0	\$10,236	\$106,450	\$57,319	\$2,047	\$940,070	\$940,070	\$940,070	\$1,080,872	\$2,020,942	\$1,629,944	(26,522)																		
63	COS Totals	\$716,381	\$8,919,355	\$44,334,103	\$32,046,062	\$200,967	\$3,006,641,859	\$3,078,720,166	\$3,027,838,231	\$188,891,973	\$3,267,612,139	\$3,161,719,215	(7,601,611)																		
64	Market Totals	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0																		
65	Direct Access Totals	\$0	\$472,113	\$1,626,605	\$1,341,594	\$24,794	\$22,901,327	\$22,901,327	\$22,901,327	\$12,794,696	\$38,689,017	\$32,850,718	(2,921,072)																		
66	Totals	\$716,381	\$9,391,468	\$45,960,709	\$33,387,656	\$225,761	\$3,029,543,186	\$3,101,621,493	\$3,050,739,559	\$204,679,663	\$3,306,301,156	\$3,194,569,933	(7,529,690)																		

A	B	E	F	G	H	J	K	M	N	P	R	S	T	V	W	X	Y	Z	AA	AC	AD	AE	
1	PORTLAND GENERAL ELECTRIC																						
2	Current Prices																						
3																							
4																							
5																							
6																							
7	Grouping	Basic Charge BD Singlefamily/ Single-phase	Basic Charge BD Multifamily/ Three-phase	Transmission & Related Volumetric Price	Transmission & Related Demand Price	Distribution Volumetric Block 1 Price	Distribution Volumetric Block 2 Price	Facilities Block 1 Price	Facilities Block 2 Price	Distribution Demand Peak Price	Sys. Usage Implicit & Explicit Price	Energy Block 1 Price	Energy Block 2 Price	Energy Flat Price	Energy On-Peak Price	Energy Mid-Peak Price	Energy Off-Peak Price		Generation Demand Price	Wheeling Demand Price	Reactive Price	Fixed Price	
8																							
9	Schedule 7	\$13.00	\$10.00	6.78	\$0.00	63.83	63.83	\$0.00	\$0.00	\$0.00	4.61	88.14	88.14								\$0.00	\$0.00	0.00
10	Schedule 15 Residential			3.94	\$0.00	52.59	52.59	\$0.00	\$0.00	\$0.00	11.99	0.00	0.00	64.48							\$0.00	\$0.00	N/A
11																							
12																							
13	Schedule 15 Commercial			3.94	\$0.00	52.59	52.59	\$0.00	\$0.00	\$0.00	11.99	0.00	0.00	64.48	0.00		0.00				\$0.00	\$0.00	N/A
14	Schedule 32	\$22.00	\$31.00	5.52	\$0.00	56.84	30.00	\$0.00	\$0.00	\$0.00	4.14	0.00	0.00	78.58	0.00						\$0.00	\$0.00	0.00
15	Schedule 38	\$35.00	\$35.00	5.52	\$0.00	78.80	78.80	\$0.00	\$0.00	\$0.00	4.36	0.00	0.00	0.00	83.12		68.12				\$0.00	\$0.50	0.00
16	Schedule 47	\$39.00	\$39.00	5.92	\$0.00	115.60	95.60	\$0.00	\$0.00	\$0.00	10.84	0.00	0.00	87.75	0.00		0.00				\$0.00	\$0.50	0.00
17	Schedule 49	\$50.00	\$50.00	5.70	\$0.00	113.40	93.40	\$0.00	\$0.00	\$0.00	4.03	0.00	0.00	92.55	0.00		0.00				\$0.00	\$0.50	0.00
18	Schedule 83-S	\$40.00	\$50.00	0.00	\$2.12	0.00	0.00	\$5.55	\$5.45	\$1.51	10.87	0.00	0.00	55.34			40.34		\$8.90	\$0.00	\$0.50	0.00	0.00
19	Schedule 85-S		\$780.00	0.00	\$2.12	0.00	0.00	\$3.10	\$3.00	\$1.51	2.57			53.71			38.71		\$10.12	\$0.00	\$0.50	0.00	0.00
20	Schedule 89-S		\$3,490.00	0.00	\$2.12	0.00	0.00	\$1.51	\$1.20	\$1.51	2.17	0.00	0.00	77.14			62.14			\$0.00	\$0.50	0.00	0.00
21	Schedule 91			4.13	\$0.00	56.99	56.99	\$0.00	\$0.00	\$0.00	7.40	0.00	0.00	64.48	0.00		0.00			\$0.00	\$0.00	0.00	N/A
22	Schedule 92			4.21	\$0.00	16.68	16.68	\$0.00	\$0.00	\$0.00	2.37	0.00	0.00	68.87	0.00		0.00			\$0.00	\$0.00	0.00	0.00
23	Schedule 95			4.13	\$0.00	56.99	56.99	\$0.00	\$0.00	\$0.00	7.40	0.00	0.00	64.48	0.00		0.00			\$0.00	\$0.00	0.00	N/A
24																							
25																							
26	Schedule 85-P		\$670.00	0.00	\$2.10	0.00	0.00	\$3.07	\$2.97	\$1.49	2.54	0.00	0.00		53.18		38.18		\$10.01		\$0.50	0.00	0.00
27	Schedule 89-P		\$3,450.00	0.00	\$2.10	0.00	0.00	\$1.50	\$1.19	\$1.49	2.15	0.00	0.00		76.37		61.37				\$0.50	0.00	0.00
28	Schedule 90-P																						
29	(30 MWa - 250 MWa)		\$12,200.00	0.00	\$2.10	0.00	0.00	\$1.79	\$1.48	\$1.49	1.98				74.76		59.76				\$0.50		
30	(GT 250 Mwa)		\$12,200.00	0.00	\$2.10	0.00	0.00	\$1.79	\$1.48	\$1.49	1.98				72.97		57.97				\$0.50		
31																							
32																							
33	Schedule 89-T		\$4,950.00	0.00	\$2.06	0.00	0.00	\$1.50	\$1.19	\$0.12	2.13	0.00	0.00		75.58		60.58				\$0.00	\$0.50	0.00
34	Schedule 90-T																						
35	(30 MWa - 250 MWa)		\$12,200.00	0.00	\$2.06	0.00	0.00	\$1.79	\$1.48	\$0.12	1.98				73.81		58.47				\$0.50		
36	(GT 250 Mwa)		\$12,200.00	0.00	\$2.06	0.00	0.00	\$1.79	\$1.48	\$0.12	1.98				72.15		57.15				\$0.50		
37	Schedule 75-T		\$4,950.00	0.00	\$2.06	0.00	0.00	\$1.50	\$1.19	\$0.12	2.13	0.00	0.00		75.58		60.58				\$0.50	0.00	
38	Schedule 76R		\$4,950.00	0.00	\$2.06	0.00	0.00	\$1.50	\$1.19	\$0.12											\$0.50		
39																							
40																							
41	Schedule 485-S (Total)		\$780.00	0.00	\$0.00	0.00	0.00	\$3.10	\$3.00	\$1.51	0.51										\$0.00	\$0.50	0.00
42	Schedule 485-S (Sch 129 v2020)																						
43	Schedule 485-S (Sch 129 v2023)																						
44	Schedule 485-S (Sch 129 v2025)																						
45																							
46																							
47	Schedule 485-P (Total)		\$670.00	0.00	\$0.00	0.00	0.00	\$3.07	\$2.97	\$1.49	0.50										\$0.00	\$0.50	0.00
48	Schedule 485-P (Sch 129 v2021)																						
49	Schedule 485-P (Sch 129 v2024)																						
50	Schedule 485-P (Sch 129 v2025)																						
51	Schedule 489-P (Total)		\$3,450.00	0.00	\$0.00	0.00	0.00	\$1.50	\$1.19	\$1.49	0.18										\$0.00	\$0.50	0.00
52	Schedule 489-P (Sch 129 v2020)																						
53	Schedule 489-P (Sch 129 v2021)																						
54	Schedule 489-P (Sch 129 v2024)																						
55	Schedule 489-P (Sch 129 v2025)																						
56	Schedule 689-P		\$3,450.00	0.00	\$0.00	0.00	0.00	\$1.50	\$1.19	\$1.49	0.18										\$0.00	\$0.50	0.00
57	Schedule 689-P (Sch 139 v2024)																						
58																							
59																							
60	Schedule 489-T		\$4,950.00	0.00	\$0.00	0.00	0.00	\$1.50	\$1.19	\$0.12	0.18										\$0.00	\$0.50	0.00
61																							
62																							
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	BH	BI	BJ	BK	BL
1					
2					
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5					
6	Sch 138	Sch 150	Sch 151	Sch 152	Sch 153
7	Price	Price	Price	Price	Price
8					
9	0.00	0.56	3.56	2.63	0.01
10	0.00	0.43	2.61	1.94	0.01
11					
12					
13	0.00	0.43	2.61	1.94	0.01
14	0.00	0.50	3.34	2.23	0.01
15	0.00	0.56	3.76	2.51	0.01
16	0.00	0.79	0.80	4.05	0.02
17	0.00	0.75	0.71	3.33	0.02
18	0.00	0.33	1.97	1.44	0.01
19	0.00	0.28	1.28	0.96	0.01
20	0.00	0.22	0.46	0.19	0.01
21	0.00	0.44	2.61	1.94	0.01
22	0.00	0.27	0.88	0.80	0.01
23	0.00	0.44	2.61	1.94	0.01
24					
25					
26	0.00	0.24	0.87	0.73	0.01
27	0.00	0.22	0.46	0.19	0.01
28					
29	0.00	0.21	0.41	0.18	0.01
30	0.00	0.21	0.41	0.18	0.01
31					
32					
33	0.00	0.19	0.52	0.12	0.01
34					
35	0.00	0.21	0.41	0.18	0.01
36	0.00	0.21	0.41	0.18	0.01
37	0.00	0.19	0.52	0.12	0.01
38				0.12	0.01
39					
40					
41		0.28	1.28	1.12	0.01
42					
43					
44					
45					
46					
47		0.24	0.87	0.89	0.01
48					
49					
50					
51		0.22	0.46	0.35	0.01
52					
53					
54					
55					
56		0.22	0.46	0.35	0.01
57					
58					
59					
60		0.19	0.52	0.28	0.01
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	A	B	C	E	F	G	H	J	K	L	M	N
1												
2		PORTLAND GENERAL ELECTRIC										
3		Revenues at Current Prices										
4												
5				Basic	Basic	Transmission	Transmission	Distribution	Distribution			
6				Charge BD	Charge BD	& Related	& Related	Volumetric	Volumetric	Facilities	Facilities	
7				Single-family/	Multifamily/	Volumetric	Demand	Block 1	Block 2	Block 1	Block 2	
8		Grouping		Single-phase	Three-phase	Price	Price	Price	Price	Price	Price	
9		Schedule 7		\$92,002,314	\$29,782,469	\$53,450,863	\$0	\$503,208,827	\$0	\$0	\$0	
10		Schedule 15 Residential		\$0	\$0	\$6,221	\$0	\$83,040	\$0	\$0	\$0	
11		Subtotal		\$92,002,314	\$29,782,469	\$53,456,885	\$0	\$503,291,866	\$0	\$0	\$0	
12												
13		Schedule 15 Commercial		\$0	\$0	\$43,427	\$0	\$579,647	\$0	\$0	\$0	
14		Schedule 32		\$16,080,262	\$13,357,404	\$8,434,447	\$0	\$76,343,307	\$5,545,592	\$0	\$0	
15		Schedule 38		\$39,060	\$121,380	\$148,728	\$0	\$2,123,143	\$0	\$0	\$0	
16		Schedule 47		\$54,288	\$560,430	\$124,093	\$0	\$520,808	\$1,573,231	\$0	\$0	
17		Schedule 49		\$2,400	\$408,300	\$335,253	\$0	\$1,122,441	\$4,568,957	\$0	\$0	
18		Schedule 83-S		\$428,640	\$6,542,400	\$0	\$18,284,577	\$0	\$0	\$23,570,406	\$43,404,371	
19		Schedule 85-S		\$0	\$11,817,000	\$0	\$11,532,187	\$0	\$0	\$9,393,000	\$12,462,108	
20		Schedule 89-S		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
21		Schedule 91		\$0	\$0	\$40,738	\$0	\$562,149	\$0	\$0	\$0	
22		Schedule 92		\$0	\$0	\$11,620	\$0	\$46,037	\$0	\$0	\$0	
23		Schedule 95		\$0	\$0	\$123,739	\$0	\$1,707,477	\$0	\$0	\$0	
24		Subtotal		\$16,604,650	\$32,806,914	\$9,262,044	\$29,816,765	\$83,005,010	\$11,687,781	\$32,963,406	\$55,866,480	
25												
26		Schedule 85-P		\$0	\$1,415,040	\$0	\$3,053,014	\$0	\$0	\$1,296,768	\$4,148,093	
27		Schedule 89-P		\$0	\$1,107,450	\$0	\$4,291,224	\$0	\$0	\$1,926,000	\$1,150,376	
28		Schedule 90-P										
29		(30 MWa - 250 MWa)		\$0	\$292,800	\$0	\$1,998,184	\$0	\$0	\$171,840	\$1,294,095	
30		(GT 250 Mw)		\$0	\$878,400	\$0	\$9,508,282	\$0	\$0	\$515,520	\$6,678,650	
31		Subtotal		\$0	\$3,693,690	\$0	\$18,506,704	\$0	\$0	\$3,910,128	\$13,271,215	
32												
33		Schedule 89-T		\$0	\$178,200	\$0	\$368,765	\$0	\$0	\$216,000	\$92,468	
34		Schedule 90-T		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
35		(30 MWa - 250 MWa)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
36		(GT 250 Mw)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
37		Schedule 75-T		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
38		Schedule 76R		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
39		Subtotal		\$0	\$178,200	\$0	\$368,765	\$0	\$0	\$216,000	\$92,468	
40												
41		Schedule 485-S (Total)		\$0	\$1,974,960	\$0	\$0	\$0	\$0	\$1,569,840	\$2,903,891	
42		Schedule 485-S (Sch 129 v2020)										
43		Schedule 485-S (Sch 129 v2023)										
44		Schedule 485-S (Sch 129 v2025)										
45		Subtotal		\$0	\$1,974,960	\$0	\$0	\$0	\$0	\$1,569,840	\$2,903,891	
46												
47		Schedule 485-P (Total)		\$0	\$385,920	\$0	\$0	\$0	\$0	\$353,664	\$1,994,693	
48		Schedule 485-P (Sch 129 v2021)										
49		Schedule 485-P (Sch 129 v2024)										
50		Schedule 485-P (Sch 129 v2025)										
51		Schedule 489-P (Total)		\$0	\$662,400	\$0	\$0	\$0	\$0	\$1,152,000	\$1,238,310	
52		Schedule 489-P (Sch 129 v2020)										
53		Schedule 489-P (Sch 129 v2021)										
54		Schedule 489-P (Sch 129 v2024)										
55		Schedule 489-P (Sch 129 v2025)										
56		Schedule 689-P <v2020		\$0	\$124,200	\$0	\$0	\$0	\$0	\$216,000	\$964,292	
57		Schedule 689-P (Sch 129 v2024)										
58		Subtotal		\$0	\$1,172,520	\$0	\$0	\$0	\$0	\$1,721,664	\$4,197,295	
59												
60		Schedule 489-T <v2020		\$0	\$178,200	\$0	\$0	\$0	\$0	\$216,000	\$389,297	
61		Subtotal		\$0	\$178,200	\$0	\$0	\$0	\$0	\$216,000	\$389,297	
62												
63		COS Totals		\$108,606,964	\$66,461,273	\$62,718,929	\$49,036,233	\$586,296,876	\$11,687,781	\$37,089,534	\$69,230,162	
64		Market Totals		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
65		Direct Access Totals		\$0	\$3,325,680	\$0	\$0	\$0	\$0	\$3,507,504	\$7,490,482	
66		Totals		\$108,606,964	\$69,786,953	\$62,718,929	\$49,036,233	\$586,296,876	\$11,687,781	\$40,597,038	\$76,720,644	

	P	R	S	T	V	W	X	Y	AB
1									
2									
3		Explicit/							
4	Distribution	Sys. Usage							
5	Demand	Implicit	Energy	Energy	Energy	Energy	Energy	Energy	Generation
6	Peak	& Explicit	Block 1	Block 2	Flat	On-Peak	Mid-Peak	Off-Peak	Demand
7	Price	Price	Price	Price	Price	Price	Price	Price	Price
8									
9	\$0	\$36,343,298	\$694,858,624	\$0	\$0	\$0		\$0	
10	\$0	\$18,932	\$0	\$0	\$101,814	\$0		\$0	
11	\$0	\$36,362,230	\$694,858,624	\$0	\$101,814	\$0		\$0	
12									
13	\$0	\$132,154	\$0	\$0	\$710,699	\$0		\$0	
14	\$0	\$6,325,835	\$0	\$0	\$120,068,631	\$0		\$0	
15	\$0	\$117,473	\$0	\$0	\$0	\$1,113,140	\$0	\$923,126	
16	\$0	\$227,224	\$0	\$0	\$1,839,385	\$0		\$0	
17	\$0	\$237,029	\$0	\$0	\$5,443,443	\$0		\$0	
18	\$13,023,449	\$30,937,414	\$0	\$0	\$0	\$102,172,472	\$0	\$40,334,361	\$76,760,726
19	\$8,213,964	\$5,245,382	\$0	\$0	\$0	\$70,457,847	\$0	\$28,226,741	\$55,049,875
20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
21	\$0	\$72,994	\$0	\$0	\$636,031	\$0		\$0	
22	\$0	\$6,541	\$0	\$0	\$190,081	\$0		\$0	
23	\$0	\$221,711	\$0	\$0	\$1,931,885	\$0		\$0	
24	\$21,237,413	\$43,523,758	\$0	\$0	\$130,820,155	\$173,743,459	\$0	\$69,484,228	\$131,810,601
25									
26	\$2,166,186	\$1,825,702	\$0	\$0	\$0	\$23,309,941	\$0	\$10,707,911	\$14,552,702
27	\$3,044,725	\$2,377,519	\$0	\$0	\$0	\$48,930,735	\$0	\$28,544,200	
28									
29	\$1,417,759	\$1,084,468	\$0	\$0	\$0	\$23,535,308		\$13,918,091	
30	\$6,746,352	\$6,124,072	\$0	\$0	\$0	\$129,297,357		\$76,592,920	
31	\$13,375,023	\$11,411,761	\$0	\$0	\$0	\$225,073,341	\$0	\$129,763,121	\$14,552,702
32									
33	\$21,481	\$82,246	\$0	\$0	\$0	\$2,121,918	\$0	\$638,403	
34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
37	\$0	\$0	\$0	\$0	\$0	\$0		\$0	
38	\$0	\$0	\$0	\$0	\$0	\$0		\$0	
39	\$21,481	\$82,246	\$0	\$0	\$0	\$2,121,918	\$0	\$638,403	
40									
41	\$1,712,199	\$223,559	\$0	\$0	\$0	\$0		\$0	
42									
43									
44									
45	\$1,712,199	\$223,559	\$0	\$0	\$0	\$0		\$0	
46									
47	\$941,680	\$139,442	\$0	\$0	\$0	\$0		\$0	
48									
49									
50									
51	\$2,485,166	\$187,632	\$0	\$0	\$0	\$0		\$0	
52									
53									
54									
55									
56	\$1,458,126	\$92,713	\$0	\$0	\$0	\$0		\$0	
57									
58	\$4,884,973	\$419,787	\$0	\$0	\$0	\$0		\$0	
59									
60	\$45,276	\$36,848	\$0	\$0	\$0	\$0		\$0	
61	\$45,276	\$36,848	\$0	\$0	\$0	\$0		\$0	
62									
63	\$34,633,917	\$91,379,995	\$694,858,624	\$0	\$130,921,969	\$400,938,717		\$199,885,752	\$146,363,303
64	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0
65	\$6,642,448	\$680,194	\$0	\$0	\$0	\$0		\$0	\$0
66	\$41,276,365	\$92,060,189	\$694,858,624	\$0	\$130,921,969	\$400,938,717		\$199,885,752	\$146,363,303

	AC	AD	AE	AF	AG	AH	AI	AL	AM	AO	AP	AQ	AR	AS	AT	AU	AV
1																	
2																	
3																	
4																	
5	Wheeling																
6	Demand	Reactive	Fixed	Sch 146	Sch 122a	Sch 122b	Sch 125	Sch 145	Sch 131	Sch 132b	Sch 143	Sch 128	Sch 128	Sch 129	Sch 129	Sch 139	Sch 102
7	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Block 1	Block 2	Part A	Part B	Revenues	Block 1
8																	
9	\$0	\$0	\$0	\$31,770,822	\$0	\$0	\$0	(\$3,784,118)	(\$1,854,496)	\$0	\$0	\$0	\$0				(\$48,480,131)
10	\$0	\$0	\$273,850	\$4,658	\$0	\$0	\$0	(\$553)	(\$609)	\$0	\$0	\$0	\$0				(\$10,721)
11	\$0	\$0	\$273,850	\$31,775,480	\$0	\$0	\$0	(\$3,784,670)	(\$1,855,105)	\$0	\$0	\$0	\$0				(\$48,490,852)
12																	
13	\$0	\$0	\$2,008,237	\$32,515	\$0	\$0	\$0	(\$3,858)	(\$4,398)	\$0	\$0	\$0	\$0				\$0
14	\$0	\$0	\$0	\$5,500,726	\$0	\$0	\$0	(\$657,031)	(\$328,327)	\$0	\$0	\$0	\$0				(\$1,131,423)
15	\$0	\$0	\$0	\$93,494	\$0	\$0	\$0	(\$11,047)	(\$6,053)	\$0	\$0	\$0	\$0				(\$3,346)
16	\$0	\$0	\$0	\$84,266	\$0	\$0	\$0	(\$10,062)	(\$6,328)	\$0	\$0	\$0	\$0				(\$107,097)
17	\$0	\$0	\$0	\$249,381	\$0	\$0	\$0	(\$29,408)	(\$15,702)	\$0	\$0	\$0	\$0				(\$294,087)
18	\$0	\$450,591	\$0	\$10,046,833	\$0	\$0	\$0	(\$1,195,374)	(\$470,206)	\$0	\$0	\$0	\$0				(\$742,892)
19	\$0	\$425,727	\$0	\$7,041,466	\$0	\$0	\$0	(\$836,812)	(\$283,068)	\$0	\$0	\$0	\$0				(\$103,286)
20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0
21	\$0	\$0	\$3,557,316	\$29,099	\$0	\$0	\$0	(\$3,452)	(\$6,080)	\$0	\$0	\$0	\$0				\$0
22	\$0	\$0	\$0	\$8,694	\$0	\$0	\$0	(\$1,049)	(\$339)	\$0	\$0	\$0	\$0				\$0
23	\$0	\$0	\$4,431,378	\$88,385	\$0	\$0	\$0	(\$10,486)	(\$10,691)	\$0	\$0	\$0	\$0				\$0
24	\$0	\$876,318	\$9,996,931	\$23,174,858	\$0	\$0	\$0	(\$2,758,579)	(\$1,131,194)	\$0	\$0	\$0	\$0				(\$2,382,131)
25																	
26	\$0	\$124,704	\$0	\$2,300,097	\$0	\$0	\$0	(\$273,136)	(\$83,571)	\$0	\$0	\$0	\$0				(\$8,951)
27	\$0	\$229,451	\$0	\$3,560,749	\$0	\$0	\$0	(\$420,213)	(\$121,224)	\$0	\$0	\$0	\$0				\$0
28																	
29	\$0	\$80,893	\$0	\$1,675,997	\$0	\$0	\$0	(\$197,176)	(\$56,551)	\$0	\$0	\$0	\$0				\$0
30	\$0	\$565,854	\$0	\$9,464,475	\$0	\$0	\$0	(\$1,113,468)	(\$305,526)	\$0	\$0	\$0	\$0				\$0
31	\$0	\$1,000,902	\$0	\$17,001,317	\$0	\$0	\$0	(\$2,003,993)	(\$566,873)	\$0	\$0	\$0	\$0				(\$8,951)
32																	
33	\$0	\$15,356	\$0	\$126,652	\$0	\$0	\$0	(\$15,059)	(\$4,890)	\$0	\$0	\$0	\$0				\$0
34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0
35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0
36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0
37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0
38	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				\$0
39	\$0	\$15,356	\$0	\$126,652	\$0	\$0	\$0	(\$15,059)	(\$4,890)	\$0	\$0	\$0	\$0				\$0
40																	
41	\$0	\$60,143	\$0	\$0	\$0	\$0	\$0	\$0	(\$13,155)	\$0	\$0	\$0	\$0	(\$80,269)	\$60,893		\$0
42														\$0			
43														(\$80,269)			
44														\$0			
45	\$0	\$60,143	\$0	\$0	\$0	\$0	\$0	\$0	(\$13,155)	\$0	\$0	\$0	\$0	(\$80,269)	\$60,893	\$0	\$0
46																	
47	\$0	\$65,159	\$0	\$0	\$0	\$0	\$0	\$0	(\$6,714)	\$0	\$0	\$0	\$0	\$342,366	\$0		\$0
48														\$342,366			
49														\$0			
50														\$0			
51	\$0	\$263,729	\$0	\$0	\$0	\$0	\$0	\$0	(\$9,050)	\$0	\$0	\$0	\$0	(\$2,292,771)	\$0		\$0
52														\$0			
53														\$0			
54														(\$2,292,771)			
55														\$0			
56	\$0	\$57,436	\$0	\$0	\$0	\$0	\$0	\$0	(\$7,690)	\$0	\$0	\$0	\$0			\$1,551,393	\$0
57									\$0							\$1,551,393	
58	\$0	\$386,324	\$0	\$0	\$0	\$0	\$0	\$0	(\$23,453)	\$0	\$0	\$0	\$0	(\$1,950,404)	\$0	\$1,551,393	\$0
59									\$0								
60	\$0	\$167,962	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,138)	\$0	\$0	\$0	\$0	\$0		\$0	\$0
61	\$0	\$167,962	\$0	\$0	\$0	\$0	\$0	\$0	(\$2,138)	\$0	\$0	\$0	\$0	\$0		\$0	\$0
62																	
63	\$0	\$1,892,575	\$10,270,781	\$72,078,307	\$0	\$0	\$0	(\$8,562,301)	(\$3,558,061)	\$0	\$0	\$0	\$0	\$0		\$0	(\$50,881,934)
64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0
65	\$0	\$614,429	\$0	\$0	\$0	\$0	\$0	\$0	(\$38,745)	\$0	\$0	\$0	\$0	(\$2,030,674)	\$60,893	\$1,551,393	\$0
66	\$0	\$2,507,004	\$10,270,781	\$72,078,307	\$0	\$0	\$0	(\$8,562,301)	(\$3,596,806)	\$0	\$0	\$0	\$0	(\$2,030,674)	\$60,893	\$1,551,393	(\$50,881,934)

	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ
1																					
2																					
3																					
4																			(new)		
5	Sch 102	Sch 102																			
6	Block 2	Block 3	Sch 105	Sch 109	Sch 109 >1MWa	Sch 110	Sch 112	Sch 118	Sch 123	Sch 126	Sch 135	Sch 136	Sch 137	Sch 138	Sch 150	Sch 151	Sch 152	Sch 153	GRC	Base Revenues	Base Revenues
7	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	Revenues	= GRC + Schs 122 & 146	+ Sch 102
8																					
9	\$0	\$0	(\$3,074,596)	\$62,122,600	\$0	\$0	\$0	\$18,904,054	(\$1,103,701)	\$6,306,863	\$5,281,998	\$946,029	\$1,892,059	\$0	\$4,414,804	\$28,065,540	\$20,733,812	\$78,836	\$1,409,646,195	\$1,441,417,017	\$1,392,936,887
10	\$0	\$0	(\$379)	\$9,269	\$0	\$0	\$0	\$0	\$979	\$1,263	\$774	\$142	\$284	\$0	\$679	\$4,121	\$3,063	\$16	\$483,857	\$488,516	\$477,794
11	\$0	\$0	(\$3,074,975)	\$62,131,869	\$0	\$0	\$0	\$18,904,054	(\$1,102,722)	\$6,308,126	\$5,282,771	\$946,172	\$1,892,343	\$0	\$4,415,483	\$28,069,661	\$20,736,875	\$78,852	\$1,410,130,053	\$1,441,905,533	\$1,393,414,681
12																					
13	\$0	\$0	(\$2,645)	\$64,555	\$69	\$0	\$0	\$26,012	\$6,818	\$8,818	\$5,401	\$992	\$1,984	\$0	\$4,739	\$28,767	\$21,383	\$110	\$3,474,163	\$3,506,678	\$3,506,678
14	\$0	\$0	(\$626,472)	\$10,572,900	\$359	\$0	\$0	\$3,606,032	\$3,239,097	\$1,222,384	\$901,508	\$168,078	\$320,876	\$0	\$763,990	\$5,103,452	\$3,407,394	\$15,280	\$246,155,479	\$251,656,205	\$250,524,782
15	\$0	\$0	(\$18,052)	\$192,883	\$761	\$0	\$0	\$63,587	\$16,586	\$21,555	\$15,358	\$3,233	\$6,197	\$0	\$15,088	\$101,307	\$67,628	\$269	\$4,586,050	\$4,679,544	\$4,676,199
16	\$0	\$0	(\$8,594)	\$176,916	\$0	\$0	\$0	\$49,470	\$12,996	\$16,769	\$13,835	\$3,563	\$6,917	\$0	\$16,560	\$16,769	\$84,895	\$419	\$4,899,460	\$4,983,726	\$4,876,628
17	\$0	\$0	(\$39,407)	\$437,005	\$0	\$0	\$0	\$138,806	\$36,466	\$47,053	\$41,171	\$8,822	\$17,057	\$0	\$44,112	\$41,642	\$195,858	\$1,176	\$12,117,823	\$12,367,204	\$12,073,117
18	\$0	\$0	(\$2,134,596)	\$14,990,963	\$72,836	\$0	\$0	\$6,716,863	\$731,267	\$2,276,903	\$1,650,754	\$256,152	\$483,842	\$0	\$939,222	\$5,606,873	\$4,098,425	\$28,461	\$355,909,407	\$365,956,240	\$365,213,348
19	\$0	\$0	(\$1,387,883)	\$8,828,639	\$142,373	\$0	\$0	\$4,816,771	\$1,177,152	\$1,632,804	\$1,163,373	\$142,870	\$285,741	\$0	\$571,481	\$2,612,486	\$1,959,364	\$20,410	\$212,823,831	\$219,865,297	\$219,762,011
20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	\$0	\$0	(\$5,129)	\$57,902	\$0	\$0	\$0	\$23,279	\$6,116	\$7,891	\$4,537	\$888	\$1,776	\$0	\$4,340	\$25,745	\$19,136	\$99	\$4,869,228	\$4,898,327	\$4,898,327
22	\$0	\$0	(\$1,628)	\$11,344	\$0	\$0	\$0	\$6,514	\$1,711	\$2,208	\$1,435	\$166	\$331	\$0	\$745	\$2,429	\$2,208	\$28	\$254,279	\$262,973	\$262,973
23	\$0	\$0	(\$15,580)	\$175,871	\$0	\$0	\$0	\$70,708	\$18,576	\$23,969	\$13,782	\$2,696	\$5,393	\$0	\$13,183	\$78,198	\$58,124	\$300	\$8,416,191	\$8,504,576	\$8,504,576
24	\$0	\$0	(\$4,239,987)	\$35,508,977	\$216,398	\$0	\$0	\$15,518,040	\$5,246,785	\$5,260,353	\$3,811,154	\$587,461	\$1,130,113	\$0	\$2,373,461	\$13,617,668	\$9,914,415	\$66,552	\$855,505,911	\$876,680,769	\$874,298,638
25																					
26	\$0	\$0	(\$488,771)	\$2,129,831	\$364,089	\$0	\$0	\$1,696,321	\$251,045	\$575,024	\$380,954	\$43,127	\$86,254	\$0	\$172,507	\$625,339	\$524,710	\$7,188	\$62,600,062	\$64,900,158	\$64,891,207
27	\$0	\$0	(\$641,377)	\$64,224	\$1,981,548	\$0	\$0	\$2,609,742	\$21,524	\$884,658	\$586,086	\$66,349	\$121,641	\$0	\$243,281	\$508,678	\$210,106	\$11,058	\$91,601,880	\$95,162,429	\$95,162,429
28																					
29	\$0	\$0	(\$279,333)	\$0	\$514,849	\$0	\$0	\$566,400	\$0	\$438,169	\$273,856	\$27,386	\$54,771	\$0	\$115,019	\$224,562	\$98,588	\$5,477	\$43,793,438	\$45,469,434	\$45,469,434
30	\$0	\$0	(\$1,577,412)	\$0	\$2,907,388	\$0	\$0	\$2,265,600	\$0	\$2,474,373	\$1,546,483	\$154,648	\$309,297	\$0	\$649,523	\$1,268,116	\$556,734	\$30,930	\$236,907,407	\$246,371,882	\$246,371,882
31	\$0	\$0	(\$2,986,893)	\$2,194,055	\$5,767,873	\$0	\$0	\$7,138,063	\$272,568	\$4,372,224	\$2,787,378	\$291,510	\$571,962	\$0	\$1,180,330	\$2,626,695	\$1,390,138	\$54,653	\$434,902,586	\$451,903,904	\$451,894,952
32																					
33	\$0	\$0	(\$22,396)	\$9,158	\$64,593	\$0	\$0	\$91,127	\$2,973	\$30,891	\$20,851	\$1,931	\$3,861	\$0	\$7,337	\$20,079	\$4,634	\$386	\$3,734,836	\$3,861,488	\$3,861,488
34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
39	\$0	\$0	(\$22,396)	\$9,158	\$64,593	\$0	\$0	\$91,127	\$2,973	\$30,891	\$20,851	\$1,931	\$3,861	\$0	\$7,337	\$20,079	\$4,634	\$386	\$3,734,836	\$3,861,488	\$3,861,488
40																					
41	\$0	\$0	\$0	\$1,841,561	\$42,316	\$0	\$0	\$1,034,509	\$51,485	\$0	\$0	\$30,685	\$61,369	\$0	\$122,738	\$561,089	\$490,953	\$4,384	\$8,425,216	\$8,425,216	\$8,425,216
42																					
43																					
44																					
45	\$0	\$0	\$0	\$1,841,561	\$42,316	\$0	\$0	\$1,034,509	\$51,485	\$0	\$0	\$30,685	\$61,369	\$0	\$122,738	\$561,089	\$490,953	\$4,384	\$8,425,216	\$8,425,216	\$8,425,216
46																					
47	\$0	\$0	\$0	\$460,052	\$222,049	\$0	\$0	\$658,167	\$11,370	\$0	\$0	\$16,733	\$33,466	\$0	\$66,932	\$242,629	\$248,207	\$2,789	\$4,222,925	\$4,222,925	\$4,222,925
48																					
49																					
50																					
51	\$0	\$0	\$0	\$0	\$1,928,443	\$0	\$0	\$2,460,067	\$0	\$0	\$0	\$62,544	\$114,664	\$0	\$229,328	\$479,505	\$364,840	\$10,424	\$3,696,467	\$3,696,467	\$3,696,467
52																					
53																					
54																					
55																					
56	\$0	\$0	\$0	\$0	\$952,881	\$0	\$0	\$1,215,567	\$0	\$0	\$0	\$30,904	\$56,658	\$0	\$113,316	\$236,933	\$180,275	\$5,151	\$4,464,159	\$4,464,159	\$4,464,159
57																					
58	\$0	\$0	\$0	\$460,052	\$3,103,373	\$0	\$0	\$4,333,801	\$11,370	\$0	\$0	\$110,181	\$204,788	\$0	\$409,576	\$959,066	\$793,322	\$18,364	\$12,383,551	\$12,383,551	\$12,383,551
59																					
60	\$0	\$0	\$0	\$0	\$390,997	\$0	\$0	\$483,117	\$0	\$0	\$0	\$10,236	\$20,471	\$0	\$38,895	\$106,450	\$57,319	\$2,047	\$1,033,583	\$1,033,583	\$1,033,583
61	\$0	\$0	\$0	\$0	\$390,997	\$0	\$0	\$483,117	\$0	\$0	\$0	\$10,236	\$20,471	\$0	\$38,895	\$106,450	\$57,319	\$2,047	\$1,033,583	\$1,033,583	\$1,033,583
62																					
63	\$0	\$0	(\$10,324,250)	\$99,844,059	\$6,048,865	\$0	\$0	\$41,651,285	\$4,419,604	\$15,971,593	\$11,902,155	\$1,827,073	\$3,598,279	\$0	\$7,976,611	\$44,334,103	\$32,046,062	\$200,443	\$2,702,273,386	\$2,774,351,694	\$2,723,469,759
64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	\$0	\$0	\$0	\$2,301,613	\$3,536,686	\$0	\$0	\$5,851,427	\$62,855	\$0	\$0	\$151,101	\$286,628	\$0	\$571,209	\$1,626,605	\$1,341,594	\$24,794	\$21,842,350	\$21,842,350	\$21,842,350
66	\$0	\$0	(\$10,324,250)	\$102,145,672	\$9,585,551	\$0	\$0	\$47,502,711	\$4,482,458	\$15,971,593	\$11,902,155	\$1,978,174	\$3,884,907	\$0	\$8,547,821	\$45,960,709	\$33,387,656	\$225,237	\$2,724,115,737	\$2,796,194,044	\$2,745,312,109

	BR	BS	BT
1			
2			
3			
4			
5	Supplemental		
6	Revenues	Total	Total Revenues
7	Incl. Sch 102	Revenues	Excl. Sch 109
8			
9	\$90,449,554	\$1,531,866,571	\$1,469,743,971
10	\$8,328	\$496,844	\$487,575
11	\$90,457,882	\$1,532,363,415	\$1,470,231,547
12			
13	\$158,748	\$3,665,425	\$3,600,801
14	\$26,578,095	\$278,234,300	\$267,661,041
15	\$465,956	\$5,145,500	\$4,951,856
16	\$267,028	\$5,250,754	\$5,073,838
17	\$630,565	\$12,997,769	\$12,560,764
18	\$33,309,491	\$399,265,731	\$384,201,932
19	\$20,742,414	\$240,607,711	\$231,636,700
20	\$0	\$0	\$0
21	\$137,047	\$5,035,374	\$4,977,472
22	\$26,102	\$289,074	\$277,731
23	\$424,043	\$8,928,619	\$8,752,748
24	\$82,739,487	\$959,420,256	\$923,694,881
25			
26	\$6,001,958	\$70,902,116	\$68,408,197
27	\$6,126,082	\$101,288,511	\$99,242,739
28			
29	\$1,786,016	\$47,255,450	\$46,740,602
30	\$9,166,684	\$255,538,565	\$252,631,178
31	\$23,080,739	\$474,984,643	\$467,022,715
32			
33	\$215,476	\$4,076,964	\$4,003,212
34	\$0	\$0	\$0
35	\$0	\$0	\$0
36	\$0	\$0	\$0
37	\$0	\$0	\$0
38	\$0	\$0	\$0
39	\$215,476	\$4,076,964	\$4,003,212
40			
41	\$4,227,935	\$12,653,151	\$10,769,273
42			
43			
44			
45	\$4,227,935	\$12,653,151	
46			
47	\$1,955,680	\$6,178,606	
48			
49			
50			
51	\$5,640,766	\$9,337,233	\$7,408,790
52			
53			
54			
55			
56	\$2,783,994	\$7,248,152	\$6,295,271
57			
58	\$10,380,440	\$22,763,991	\$13,704,061
59			
60	\$1,107,394	\$2,140,977	\$1,749,980
61	\$1,107,394	\$2,140,977	\$1,749,980
62			
63	\$196,493,584	\$2,970,845,278	\$2,864,952,354
64	\$0	\$0	\$0
65	\$15,715,769	\$37,558,119	\$15,454,041
66	\$212,209,352	\$3,008,403,396	\$2,880,406,396

PORTLAND GENERAL ELECTRIC
Revenue Changes

Grouping	Basic Charge BD Singlefamily/ Single-phase	Basic Charge BD Multifamily/ Three-phase	Transmission & Related Volumetric Price	Transmission & Related Demand Price	Distribution Volumetric Block 1 Price	Distribution Volumetric Block 2 Price	Facilities Block 1 Price	Facilities Block 2 Price	Distribution Demand Peak Price	Sys. Usage Implicit & Explicit Price	Energy Block 1 Price	Energy Block 2 Price
Schedule 7	\$14,154,202	\$5,956,494	\$16,713,187	\$0	\$23,098,886	\$0	\$0	\$0	\$0	\$4,808,983	(\$348,454,177)	\$0
Schedule 15 Residential	\$0	\$0	\$2,068	\$0	\$3,932	\$0	\$0	\$0	\$0	\$4,784	\$0	\$0
Subtotal	\$14,154,202	\$5,956,494	\$16,715,255	\$0	\$23,102,817	\$0	\$0	\$0	\$0	\$4,813,767	(\$348,454,177)	\$0
Schedule 15 Commercial	\$0	\$0	\$14,439	\$0	\$27,445	\$0	\$0	\$0	\$0	\$33,397	\$0	\$0
Schedule 32	\$1,461,842	\$861,768	\$2,551,726	\$0	\$17,165,156	\$0	\$0	\$0	\$0	\$1,130,705	\$0	\$0
Schedule 38	\$16,740	\$86,700	\$39,607	\$0	\$544,257	\$0	\$0	\$0	\$0	(\$200,190)	\$0	\$0
Schedule 47	\$0	\$0	\$35,635	\$0	\$139,303	\$508,832	\$0	\$0	\$0	(\$267,471)	\$0	\$0
Schedule 49	\$480	\$81,660	\$81,166	\$0	\$260,715	\$1,288,505	\$0	\$0	\$0	(\$357,603)	\$0	\$0
Schedule 83-S	\$107,160	\$1,308,480	\$0	\$11,729,729	\$0	\$0	\$2,930,375	\$5,495,232	\$5,174,880	(\$1,479,987)	\$0	\$0
Schedule 85-S	\$0	\$1,363,500	\$0	\$7,398,007	\$0	\$0	(\$787,800)	(\$1,080,049)	\$3,263,827	\$857,222	\$0	\$0
Schedule 89-S	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 91	\$0	\$0	\$6,313	\$0	\$62,735	\$0	\$0	\$0	\$0	(\$1,677)	\$0	\$0
Schedule 92	\$0	\$0	\$3,257	\$0	(\$2,125)	\$0	\$0	\$0	\$0	\$828	\$0	\$0
Schedule 95	\$0	\$0	\$19,175	\$0	\$190,552	\$0	\$0	\$0	\$0	(\$5,093)	\$0	\$0
Subtotal	\$1,586,222	\$3,702,108	\$2,751,318	\$19,127,736	\$18,388,038	\$1,797,336	\$2,142,575	\$4,415,183	\$8,438,707	(\$289,869)	\$0	\$0
Schedule 85-P	\$0	\$147,840	\$0	\$1,948,114	\$0	\$0	(\$109,824)	(\$363,133)	\$872,290	\$301,888	\$0	\$0
Schedule 89-P	\$0	\$211,860	\$0	\$2,738,209	\$0	\$0	(\$398,040)	(\$299,678)	\$1,226,064	\$431,271	\$0	\$0
Schedule 90-P	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(30 MWa - 250 MWa)	\$0	\$148,800	\$0	\$1,275,032	\$0	\$0	(\$77,760)	(\$708,255)	\$570,910	\$290,287	\$0	\$0
(GT 250 Mwa)	\$0	\$446,400	\$0	\$6,067,189	\$0	\$0	(\$233,280)	(\$3,655,207)	\$2,716,652	\$1,639,272	\$0	\$0
Subtotal	\$0	\$954,900	\$0	\$12,028,544	\$0	\$0	(\$818,904)	(\$5,026,272)	\$5,385,915	\$2,662,717	\$0	\$0
Schedule 89-T	\$0	\$30,960	\$0	\$236,296	\$0	\$0	(\$46,080)	(\$24,865)	\$1,790	\$14,673	\$0	\$0
Schedule 90-T	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(30 MWa - 250 MWa)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(GT 250 Mwa)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 75-T	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 76R	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$30,960	\$0	\$236,296	\$0	\$0	(\$46,080)	(\$24,865)	\$1,790	\$14,673	\$0	\$0
Schedule 485-S (Total)	\$0	\$227,880	\$0	\$0	\$0	\$0	(\$131,664)	(\$251,671)	\$680,344	\$65,753	\$0	\$0
Schedule 485-S (Sch 129 v2023)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$0	\$227,880	\$0	\$0	\$0	\$0	(\$131,664)	(\$251,671)	\$680,344	\$65,753	\$0	\$0
Schedule 485-P (Total)	\$0	\$40,320	\$0	\$0	\$0	\$0	(\$29,952)	(\$174,620)	\$379,200	\$44,621	\$0	\$0
Schedule 485-P (Sch 129 v2021)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 485-P (Sch 129 v2024)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 489-P (Total)	\$0	\$126,720	\$0	\$0	\$0	\$0	(\$238,080)	(\$322,585)	\$1,000,738	\$125,088	\$0	\$0
Schedule 489-P (Sch 129 v2021)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 489-P (Sch 129 v2024)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Schedule 689-P	\$0	\$23,760	\$0	\$0	\$0	\$0	(\$44,640)	(\$251,202)	\$587,165	\$61,808	\$0	\$0
Subtotal	\$0	\$190,800	\$0	\$0	\$0	\$0	(\$312,672)	(\$748,407)	\$1,967,103	\$231,518	\$0	\$0
Schedule 489-T	\$0	\$30,960	\$0	\$0	\$0	\$0	(\$46,080)	(\$104,685)	\$3,773	\$22,518	\$0	\$0
Subtotal	\$0	\$30,960	\$0	\$0	\$0	\$0	(\$46,080)	(\$104,685)	\$3,773	\$22,518	\$0	\$0
COS Totals	\$15,740,424	\$10,644,462	\$19,466,573	\$31,392,576	\$41,490,855	\$1,797,336	\$1,277,591	(\$635,955)	\$13,826,412	\$7,201,289	(\$348,454,177)	\$0
Market Totals	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Direct Access Totals	\$0	\$449,640	\$0	\$0	\$0	\$0	(\$490,416)	(\$1,104,762)	\$2,651,220	\$319,789	\$0	\$0
Totals	\$15,740,424	\$11,094,102	\$19,466,573	\$31,392,576	\$41,490,855	\$1,797,336	\$787,175	(\$1,740,717)	\$16,477,633	\$7,521,078	(\$348,454,177)	\$0

Energy Flat Price	Energy On-Peak Price	Energy Mid-Peak Price	Energy Off-Peak Price	Generation Demand Price	Wheeling Demand Revenues	Reactive Revenues	Fixed Revenues	Sch 146 Revenues	Sch 122a Revenues	Sch 122b Revenues	Sch 125 Revenues	Sch 145 Revenues	Sch 131 Revenues	Sch 132 Revenues	Sch 143 Revenues
\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$429,024,351	\$0	\$1,854,496	\$0	\$0
(\$53,291)	\$0		\$0		\$0	\$0	\$16,843	\$0	\$0	\$0	\$62,734	\$0	\$609	\$0	\$0
(\$53,291)	\$0		\$0		\$0	\$0	\$16,843	\$0	\$0	\$0	\$429,087,085	\$0	\$1,855,105	\$0	\$0
(\$371,993)	\$0		\$0		\$0	\$0	\$123,512	\$0	\$0	\$0	\$437,904	\$0	\$4,398	\$0	\$0
(\$60,889,984)	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$73,129,100	\$0	\$328,327	\$0	\$0
\$0	(\$858,317)	\$492,418	(\$653,579)		\$0	\$0	\$0	\$0	\$0	\$0	\$304,916	\$0	\$6,053	\$0	\$0
(\$870,957)	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$1,197,959	\$0	\$6,328	\$0	\$0
(\$2,782,596)	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$3,291,357	\$0	\$15,702	\$0	\$0
\$0	(\$82,964,955)	\$31,409,284	(\$20,307,161)	\$8,279,809	\$0	\$0	\$0	\$0	\$0	\$0	\$22,942,845	\$0	\$470,206	\$0	\$0
\$0	(\$57,941,176)	\$22,030,310	(\$14,357,647)	\$6,962,830	\$0	\$0	\$0	\$0	\$0	\$0	\$14,910,452	\$0	\$283,068	\$0	\$0
\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
(\$332,910)	\$0		\$0		\$0	\$0	(\$75,169)	\$0	\$0	\$0	\$379,468	\$0	\$6,080	\$0	\$0
(\$98,587)	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$115,451	\$0	\$339	\$0	\$0
(\$1,011,184)	\$0		\$0		\$0	\$0	\$397,405	\$0	\$0	\$0	\$1,152,600	\$0	\$10,691	\$0	\$0
(\$66,358,211)	(\$141,764,448)	\$53,932,012	(\$35,318,388)	\$15,242,639	\$0	\$0	\$445,749	\$0	\$0	\$0	\$117,862,051	\$0	\$1,131,194	\$0	\$0
\$0	(\$18,823,322)	\$6,990,232	(\$5,446,507)	\$1,831,809	\$0	\$0	\$0	\$0	\$0	\$0	\$5,343,070	\$0	\$83,571	\$0	\$0
\$0	(\$39,079,917)	\$15,118,964	(\$13,897,681)		\$0	\$0	\$0	\$0	\$0	\$0	\$11,294,370	\$0	\$121,224	\$0	\$0
\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	(\$12,129,687)	\$0	(\$7,226,880)		\$0	\$0	\$0	\$0	\$0	\$0	\$14,122,444	\$0	\$56,551	\$0	\$0
\$0	(\$73,768,630)	\$0	(\$45,096,722)		\$0	\$0	\$0	\$0	\$0	\$0	\$79,483,686	\$0	\$305,526	\$0	\$0
\$0	(\$143,801,556)	\$22,109,196	(\$71,667,790)	\$1,831,809	\$0	\$0	\$0	\$0	\$0	\$0	\$110,243,569	\$0	\$566,873	\$0	\$0
\$0	(\$1,853,599)	\$799,108	(\$310,771)		\$0	\$0	\$0	\$0	\$0	\$0	\$307,564	\$0	\$4,890	\$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	\$0	\$0	\$0	\$0	\$0
\$0	(\$1,853,599)	\$799,108	(\$310,771)		\$0	\$0	\$0	\$0	\$0	\$0	\$307,564	\$0	\$4,890	\$0	\$0
\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,155	\$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	\$13,155	\$0	\$0
\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,714	\$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	\$0	\$0	\$9,050	\$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	\$0	\$0	\$7,690	\$0	\$0
\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,453	\$0	\$0
\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,138	\$0	\$0
\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,138	\$0	\$0
(\$66,411,502)	(\$287,419,603)	\$76,840,315	(\$107,296,949)	\$17,074,447	\$0	\$0	\$462,591	\$0	\$0	\$0	\$657,500,269	\$0	\$3,558,061	\$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	\$38,745	\$0	\$0
(\$66,411,502)	(\$287,419,603)	\$76,840,315	(\$107,296,949)	\$17,074,447	\$0	\$0	\$462,591	\$0	\$0	\$0	\$657,500,269	\$0	\$3,596,806	\$0	\$0

[illegible]

Removed 131

Sch 137 Revenues	Sch 138 Revenues	Sch 150 Revenues	Sch 151 Revenues	Sch 152 Revenues	Sch 153 Revenues	Revenues Without Supplementals	Revenues With Sch 102	Supplemental Revenues	Total Revenues	Revenues Without Sch 109
\$394,179	\$315,343	(\$236,507)	\$0	\$0	\$0	\$145,301,925	\$145,301,925	\$1,617,989	\$146,919,914	\$146,919,914
\$63	\$47	(\$47)	\$0	\$0	\$16	\$37,070	\$37,070	(\$1,618)	\$35,452	\$35,452
\$394,242	\$315,391	(\$236,555)	\$0	\$0	\$16	\$145,338,995	\$145,338,995	\$1,616,371	\$146,955,366	\$146,955,366
\$441	\$331	(\$331)	\$0	\$0	\$110	\$264,704	\$264,704	(\$11,127)	\$253,576	\$253,576
\$76,399	\$45,839	\$0	\$0	\$0	\$0	\$35,410,313	\$35,410,313	(\$3,827,557)	\$31,582,756	\$31,582,756
\$1,078	\$808	\$10,777	\$0	\$0	\$0	(\$227,447)	(\$227,447)	(\$10,534)	(\$237,981)	(\$237,981)
\$1,467	\$838	(\$1,677)	\$0	\$0	\$0	\$743,300	\$743,300	(\$19,454)	\$723,846	\$723,846
\$3,529	\$2,353	(\$5,882)	\$0	\$0	\$0	\$1,863,684	\$1,863,684	(\$58,406)	\$1,805,278	\$1,805,278
\$85,384	\$113,845	\$939,222	\$0	\$0	\$0	(\$15,374,310)	(\$15,374,310)	(\$346,444)	(\$15,720,754)	(\$15,720,754)
\$61,230	\$81,640	\$285,741	\$0	\$0	\$0	(\$17,380,524)	(\$17,380,524)	(\$1,424,745)	(\$18,805,269)	(\$18,805,269)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$395	\$296	(\$395)	\$0	\$0	\$99	\$38,760	\$38,760	(\$7,631)	\$31,129	\$31,129
\$83	\$83	\$0	\$0	\$0	\$0	\$18,823	\$18,823	(\$3,221)	\$15,602	\$15,602
\$1,198	\$899	(\$1,198)	\$0	\$0	\$300	\$743,455	\$743,455	(\$30,954)	\$712,501	\$712,501
\$231,204	\$246,932	\$1,226,258	\$0	\$0	\$508	\$6,100,758	\$6,100,758	(\$5,740,074)	\$360,684	\$360,684
\$21,563	\$21,563	\$21,563	\$0	\$0	\$0	(\$7,307,545)	(\$7,307,545)	(\$713,747)	(\$8,021,291)	(\$8,021,291)
\$33,175	\$22,116	(\$99,524)	\$0	\$0	\$0	(\$22,654,578)	(\$22,654,578)	(\$729,667)	(\$23,384,245)	(\$23,384,245)
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$16,431	\$16,431	\$5,477	\$0	\$0	\$0	(\$3,735,110)	(\$3,455,777)	(\$299,461)	(\$4,034,571)	(\$4,034,571)
\$92,789	\$92,789	\$30,930	\$0	\$0	\$0	(\$32,400,640)	(\$30,823,227)	(\$1,704,901)	(\$34,105,541)	(\$34,105,541)
\$163,958	\$152,900	(\$41,554)	\$0	\$0	\$0	(\$66,097,873)	(\$64,241,128)	(\$3,447,776)	(\$69,545,649)	(\$69,545,649)
\$772	\$1,158	(\$5,406)	\$0	\$0	\$0	(\$844,924)	(\$844,924)	(\$30,132)	(\$875,056)	(\$875,056)
\$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	\$0	\$0	\$0	\$0	\$0
\$772	\$1,158	(\$5,406)	\$0	\$0	\$0	(\$844,924)	(\$844,924)	(\$30,132)	(\$875,056)	(\$875,056)
\$13,151	\$0	\$61,369	\$0	\$0	\$0	\$624,142	\$624,142	\$71,258	\$695,400	\$695,400
\$0	\$0	\$0	\$0	\$0	\$0	\$33,500	\$33,500	\$0	\$33,500	\$33,500
\$13,151	\$0	\$61,369	\$0	\$0	\$0	\$657,642	\$657,642	\$71,258	\$728,900	\$728,900
\$8,367	\$0	\$8,367	\$0	\$0	\$0	\$355,074	\$355,074	\$26,021	\$381,095	\$381,095
\$0	\$0	\$0	\$0	\$0	\$0	\$95,504	\$95,504	\$0	\$95,504	\$95,504
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$31,272	\$0	(\$93,816)	\$0	\$0	\$0	\$1,347,776	\$1,347,776	(\$1,374)	\$1,346,402	\$1,346,402
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$655,894	\$655,894	\$0	\$655,894	\$655,894
\$15,452	\$0	(\$46,356)	\$0	\$0	\$0	(\$1,174,502)	(\$1,174,502)	\$2,539	(\$1,171,963)	(\$1,171,963)
\$55,091	\$0	(\$131,806)	\$0	\$0	\$0	\$1,279,747	\$1,279,747	\$27,186	\$1,306,933	\$1,306,933
\$4,094	\$0	(\$28,659)	\$0	\$0	\$0	(\$93,514)	(\$93,514)	(\$26,522)	(\$120,036)	(\$120,036)
\$4,094	\$0	(\$28,659)	\$0	\$0	\$0	(\$93,514)	(\$93,514)	(\$26,522)	(\$120,036)	(\$120,036)
\$790,176	\$716,381	\$942,744	\$0	\$0	\$524	\$84,496,956	\$86,353,701	(\$7,601,611)	\$76,895,345	\$76,895,345
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$72,335	\$0	(\$99,096)	\$0	\$0	\$0	\$1,843,876	\$1,843,876	\$71,922	\$1,915,797	\$1,915,797
\$862,512	\$716,381	\$843,647	\$0	\$0	\$524	\$86,340,831	\$88,197,577	(\$7,529,690)	\$78,811,142	\$78,811,142

PORTLAND GENERAL ELECTRIC

Changes in Revenues Resulting from 2025 Price Changes (\$000)

Category	Current	2025 Proposed	Change
COS/VPO	\$2,773,320	\$3,077,602	\$304,282
Direct Access	\$21,842	\$22,901	\$1,059
Adjust for Employee Discount Base Rate Delta		<u>\$14</u>	
Cycle Totals	\$2,795,163	\$3,100,518	\$305,355
Calendar Adjustment	1.00236	1.00236	
Calendar Basis Retail Revenues	\$2,801,768	\$3,107,845	\$306,077
Calendar Basis Sch 146 Revenue	\$72,249		
Calendar Basis excluding Sch 146 Revenue	\$2,729,519	2,698,764	\$30,755

Changes in Total Revenues

Current Table 1	2025 Proposed	Change
\$3,007,371,918	\$3,305,169,190	\$297,797,272
\$3,014,478,794	\$3,312,979,806	\$298,501,012

Reconciliation of Revenues and Revenue Requirement

Revenue Requirement	\$3,035,565
Calendar Revenues	\$3,107,845
Base Rate Difference	\$72,280
Schedule 146	(\$72,249)
Schedule 122a	\$0
Schedule 131	<u>\$0</u>
Total	\$31
FF	\$0
VTOU	\$0
Rate Design	\$32
CIO	(\$14)
Total	\$17
Adjust Delta to Calendar	\$17

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

Schedule	Billing	Units	Current		Price
	Determinant		Price	Revenues	
Schedule 7					
Residential Service					
Monthly Basic Charge					
Single Phase-SFH	7,077,101	bills	\$13.00	\$92,002,314	\$15.00
Single Phase-MFH	2,978,247	bills	\$10.00	\$29,782,469	\$12.00
Three Phase	0	bills	\$0.00	\$0	\$15.00
Transmission & Related Services Charge	7,883,579	MWh	6.78 mills	\$53,450,663	8.90
Distribution Charge	7,883,579	MWh	68.44 mills	\$539,552,124	71.98
Energy Charge					
Block 1 (first 10,000 kWh)	7,883,579	MWh	88.14 mills	\$694,858,624	43.94
Block 2 (over 1,000 kWh)	0	MWh	88.14 mills	\$0	43.94
Schedule 125	7,883,579	MWh	0.00 mills	\$0	54.42
Schedule 122a	7,883,579	MWh	0.00 mills	\$0	0.00
Schedule 131			(0.001) %		0.000
Schedule 146	7,883,579	MWh	4.03 mills	\$31,770,822	4.03
Employee Discount				(\$1,031,478)	
Totals	7,883,579	MWh		\$1,440,385,539	
				Change	
				Percent Change	

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

Schedule	Billing Determinant	Units	Current		Price	
			Price	Revenues		
Schedule 15						
Outdoor Area Lighting						
Transmission & Related Services Charge	12,601	MWh	3.94	mills	\$49,648	5.25
Distribution Charge	12,601	MWh	64.58	mills	\$813,773	70.10
Fixed Charge					\$2,282,087	
Energy Charge	12,601	MWh	64.48	mills	\$812,512	30.73
Schedule 125	12,601	MWh	0.00	mills	\$0	39.73
Schedule 122a	12,601	MWh	0.00	mills	\$0	0.00
Schedule 131			(0.001)	%		0.000
Schedule 146	12,601	MWh	2.95	mills	\$37,173	2.95
Totals	12,601	MWh			\$3,995,193	
				Change		
				Percent Change		

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

Schedule	Billing	Units	Current			Price
	Determinant		Price	Revenues		
Schedule 32						
Small Non-residential Service						
Monthly Basic Charge						
Single Phase	730,921	bills	\$22.00	\$16,080,262	\$24.00	
Three Phase	430,884	bills	\$31.00	\$13,357,404	\$33.00	
Transmission & Related Services Charge	1,527,980	MWh	5.52 mills	\$8,434,447	7.19	
Distribution Charge						
Block 1	1,343,126	MWh	60.98 mills	\$81,903,851	74.50	
Block 2	184,853	MWh	34.14 mills	\$6,310,884	34.88	
Energy Charge	1,527,980	MWh	78.58 mills	\$120,068,631	38.73	
TOU Decrement						
Schedule 125	1,527,980	MWh	0.00 mills	\$0	47.86	
Schedule 122a	1,527,980	MWh	0.00 mills	\$0	0.00	
Schedule 131			(0.001) %		0.000	
Schedule 146	1,527,980	MWh	3.60 mills	\$5,500,726	3.60	
Totals	1,527,980	MWh		\$251,656,205		
				Change		
				Percent Change		

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

Schedule	Billing		Current			Price
	Determinant	Units	Price	Revenues		
Schedule 38						
Large Non-residential Service Time-of-Day						
Monthly Basic Charge						
Single Phase	1,116	bills	\$35.00		\$39,060	\$50.00
Three Phase	3,468	bills	\$35.00		\$121,380	\$60.00
Transmission & Related Services Charge	26,943	MWh	5.52	mills	\$148,728	6.99
Distribution Charge	26,943	MWh	83.16	mills	\$2,240,616	95.93
Reactive Power Charge	0	kVar	\$0.50		\$0	\$0.50
Energy Charge						
On-peak	13,392	5,660 MWh	83.12	mills	\$1,113,140	45.02
Mid-peak		12,304 MWh	0.00	mills	\$0	40.02
Off-peak	13,551	8,979 MWh	68.12	mills	\$923,126	30.02
Schedule 125 On-peak		5,660 MWh	0.00	mills	\$0	53.87
Schedule 125 Mid-peak		12,304 MWh				48.87
Schedule 125 Off-peak		8,979 MWh				38.87
Schedule 122a	26,943	MWh	0.00	mills	\$0	0.00
Schedule 131			(0.001)	%		0.000
Schedule 146	26,943	MWh	3.47	mills	\$93,494	3.47
Totals	26,943	MWh			\$4,679,544	
				Change		
				Percent Change		

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

Schedule	Billing	Units	Current		
	Determinant		Price	Revenues	Price
Schedule 47					
Small Non-residential Irrigation & Pumping Service					
Monthly Basic Charge					
Single Phase	1,392	bills	\$39.00	\$54,288	\$39.00
Three Phase	14,370	bills	\$39.00	\$560,430	\$39.00
Transmission & Related Services Charge	20,962	MWh	5.92 mills	\$124,093	7.62
Distribution Charge					
Block 1	4,505	MWh	126.44 mills	\$569,645	144.60
Block 2	16,456	MWh	106.44 mills	\$1,751,619	124.60
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50
Energy Charge					
Block 1	4,505	MWh	87.75 mills	\$395,337	46.20
Block 2	16,456	MWh	87.75 mills	\$1,444,049	46.20
Schedule 125	20,962	MWh	0.00 mills	\$0	57.15
Schedule 122a	20,962	MWh	0.00 mills	\$0	0.00
Schedule 131			(0.001) %		0.000
Schedule 146	20,962	MWh	4.02 mills	\$84,266	4.02
Totals	20,962	MWh		\$4,983,726	
				Change	
				Percent Change	

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

Schedule	Billing	Units	Current			Price
	Determinant		Price	Revenues		
Schedule 49						
Large Non-residential Irrigation & Pumping Service						
Monthly Basic Charge						
Single Phase	48	bills	\$50.00	\$2,400	\$60.00	
Three Phase	8,166	bills	\$50.00	\$408,300	\$60.00	
Transmission & Related Services Charge	58,816	MWh	5.70	mills	\$335,253	7.08
Distribution Charge						
Block 1	9,898	MWh	117.43	mills	\$1,162,330	137.69
Block 2	48,918	MWh	97.43	mills	\$4,766,097	117.69
Reactive Power Charge	0	kVar	\$0.50		\$0	\$0.50
Energy Charge						
Block 1	9,898	MWh	92.55	mills	\$916,066	45.24
Block 2	48,918	MWh	92.55	mills	\$4,527,377	45.24
Schedule 125	58,816	MWh	0.00	mills	\$0	55.96
Schedule 122a	58,816	MWh	0.00	mills	\$0	0.00
Schedule 131			(0.001)	%		0.000
Schedule 146	58,816	MWh	4.24	mills	\$249,381	4.24
Totals	58,816	MWh			\$12,367,204	
				Change		
				Percent Change		

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

Schedule	Billing		Current		I
	Determinant	Units	Price	Revenues	Price
Schedule 83 Secondary Delivery Voltage 31-200 kW					
Large Non-residential Standard Service					
Monthly Basic Charge					
Single Phase	10,716	bills	\$40.00	\$428,640	\$50.00
Three Phase	130,848	bills	\$50.00	\$6,542,400	\$60.00
Transmission & Related Services Charge					
On-peak	8,624,801	kW	\$2.12	\$18,284,577	\$3.48
Off-peak	97,360	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge					
Block 1 (first 30 kW)	4,246,920	faccap	\$5.55	\$23,570,406	\$6.24
Block 2 (over 30 kW)	7,964,105	faccap	\$5.45	\$43,404,371	\$6.14
Distribution Demand Charge					
On-peak	8,624,801	kW	\$1.51	\$13,023,449	\$2.11
Off-peak	97,360	kW	\$0.00	\$0	\$0.00
System Usage Charge	2,846,128	MWh	10.87 mills	\$30,937,414	10.35
Reactive Power Charge	901,182	kVar	\$0.50	\$450,591	\$0.50
Energy Charge					
On-peak	1,846,268	639,611 MWh	55.34 mills	\$102,172,472	30.03
Mid-peak		1,206,657 MWh	0.00 mills	\$0	26.03
Off-peak	999,860	999,860 MWh	40.34 mills	\$40,334,361	20.03
Generation Demand		8,624,801 kW	8.90 mills	\$76,760,726	9.86
Schedule 125 On-peak		639,611 MWh	0.00 mills	\$0	35.87
Schedule 125 Mid-peak		1,206,657 MWh			31.87
Schedule 125 Off-peak		999,860 MWh			25.87
Schedule 122a		2,846,128 MWh	0.00 mills	\$0	0.00
Schedule 131			(0.001) %		0.000
Schedule 146		2,846,128 MWh	3.53 mills	\$10,046,833	3.53
Totals	2,846,128	MWh		\$365,956,240	
				Change	
				Percent Change	

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

<u>Schedule</u>		<u>Billing Determinant</u>	<u>Units</u>	<u>Price</u>	<u>Current Revenues</u>	<u>Price</u>	<u>I</u>
Schedule 85 Secondary Delivery Voltage 201-4,000 kW Large Non-residential Standard Service							
Monthly Basic Charge							
Single Phase		0	bills	\$780.00	\$0	\$870.00	
Three Phase		15,150	bills	\$780.00	\$11,817,000	\$870.00	
Transmission & Related Services Charge							
On-peak		5,439,711	kW	\$2.12	\$11,532,187	\$3.48	
Off-peak		55,823	kW	\$0.00	\$0	\$0.00	
Distribution Facilities Charge							
Block 1 (first 200 kW)		3,030,000	faccap	\$3.10	\$9,393,000	\$2.84	
Block 2 (over 200 kW)		4,154,036	faccap	\$3.00	\$12,462,108	\$2.74	
Distribution Demand Charge							
On-peak		5,439,711	kW	\$1.51	\$8,213,964	\$2.11	
Off-peak		55,823	kW	\$0.00	\$0	\$0.00	
System Usage Charge		2,041,005	MWh	2.57 mills	\$5,245,382	2.99	
Reactive Power Charge		851,454	kVar	\$0.50	\$425,727	\$0.50	
Energy Charge							
On-peak	1,311,820	431,312	MWh	53.71 mills	\$70,457,847	29.02	
Mid-peak		880,508	MWh	0.00 mills	\$0	25.02	
Off-peak	729,185	729,185	MWh	38.71 mills	\$28,226,741	19.02	
Generation Demand		5,439,711	kW	10.12 mills	\$55,049,875	11.40	
Schedule 125 On-peak		431,312	MWh	0.00 mills	\$0	34.57	
Schedule 125 Mid-peak		880,508	MWh			30.57	
Schedule 125 Off-peak		729,185	MWh			24.57	
Schedule 122a		2,041,005	MWh	0.00 mills	\$0	0.00	
Schedule 131				(0.001) %		0.000	
Schedule 146		2,041,005	MWh	3.45 mills	\$7,041,466	3.45	
Totals		2,041,005	MWh		\$219,865,297		
					Change		
					Percent Change		

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

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Price</u>	<u>Current Revenues</u>	<u>Price</u>	<u>I</u>
Schedule 85 Primary Delivery Voltage 201-4,000 kW Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	0	bills	\$670.00	\$0		\$740.00
Three Phase	2,112	bills	\$670.00	\$1,415,040		\$740.00
Transmission & Related Services Charge						
On-peak	1,453,816	kW	\$2.10	\$3,053,014		\$3.44
Off-peak						
Distribution Facilities Charge						
Block 1 (first 200 kW)	422,400	faccap	\$3.07	\$1,296,768		\$2.81
Block 2 (over 200 kW)	1,396,664	faccap	\$2.97	\$4,148,093		\$2.71
Distribution Demand Charge						
On-peak	1,453,816	kW	\$1.49	\$2,166,186		\$2.09
System Usage Charge	718,780	MWh	2.54 mills	\$1,825,702		2.96
Reactive Power Charge	249,409	kVar	\$0.50	\$124,704		\$0.50
Energy Charge						
On-peak	438,322	156,002	MWh	53.18 mills	\$23,309,941	28.76
Mid-peak		282,320	MWh	0.00 mills	\$0	24.76
Off-peak	280,459	280,459	MWh	38.18 mills	\$10,707,911	18.76
Generation Demand		1,453,816	kW	10.01 mills	\$14,552,702	11.27
Schedule 125 On-peak		156,002	MWh	0.00 mills	\$0	34.25
Schedule 125 Mid-peak		282,320	MWh			30.25
Schedule 125 Off-peak		280,459	MWh			24.25
Schedule 122a		718,780	MWh	0.00 mills	\$0	0.00
Schedule 131			(0.001) %			0.000
Schedule 146		718,780	MWh	3.20 mills	\$2,300,097	3.20
Totals		718,780	MWh		\$64,900,158	
					Change	
					Percent Change	

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

Schedule	Billing Determinant	Units	Current			
			Price	Revenues	Price	
Schedule 89 Secondary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service						
Monthly Basic Charge	0	bills	\$3,490.00		\$0	\$4,150.00
Transmission & Related Services Charge						
On-peak	0	kW	\$2.12		\$0	\$3.48
Off-peak	0	kW	\$0.00		\$0	\$0.00
Distribution Facilities Charge						
First 1,000 kW	0	faccap	\$1.51		\$0	\$1.20
Over 4,000 kW	0	faccap	\$1.20		\$0	\$0.00
Distribution Demand Charge						
On-peak	0	kW	\$1.51		\$0	\$2.11
System Usage Charge						
	0	MWh	2.17	mills	\$0	2.57
Reactive Power Charge						
	0	kVar	\$0.50		\$0	\$0.50
Energy Charge						
On-peak	0	MWh	77.14	mills	\$0	41.88
Mid-peak	0	MWh	0.00	mills	\$0	37.88
Off-peak	0	MWh	62.14	mills	\$0	31.88
Schedule 125 On-peak	0	MWh	0.00	mills	\$0	48.03
Schedule 125 Mid-peak		MWh				44.03
Schedule 125 Off-peak		MWh				38.03
Schedule 122a	0	MWh	0.00	mills	\$0	0.00
Schedule 131			(0.001)	%		0.000
Schedule 146	0	MWh	3.26	mills	\$0	3.26
Totals	0	MWh			\$0	
			Change Percent Change			

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

Schedule		Billing	Units	Current		
		Determinant		Price	Revenues	Price
Schedule 89 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service						
Monthly Basic Charge		321	bills	\$3,450.00	\$1,107,450	\$4,110.00
Transmission & Related Services Charge						
On-peak		2,043,440	kW	\$2.10	\$4,291,224	\$3.44
Off-peak		19,724	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge						
First 4,000 kW		1,284,000	faccap	\$1.50	\$1,926,000	\$1.19
Over 4,000 kW		966,703	faccap	\$1.19	\$1,150,376	\$0.88
Distribution Demand Charge						
On-peak		2,043,440	kW	\$1.49	\$3,044,725	\$2.09
Off-peak		19,724	kW	\$0.00	\$0	\$0.00
System Usage Charge		1,105,823	MWh	2.15 mills	\$2,377,519	2.54
Reactive Power Charge		458,901	kVar	\$0.50	\$229,451	\$0.50
Energy Charge						
On-peak	640,706	237,426	MWh	76.37 mills	\$48,930,735	41.49
Mid-peak		403,280	MWh	0.00 mills	\$0	37.49
Off-peak	465,117	465,117	MWh	61.37 mills	\$28,544,200	31.49
Schedule 125 On-peak		237,426	MWh	0.00 mills	\$0	47.57
Schedule 125 Mid-peak		403,280	MWh			43.57
Schedule 125 Off-peak		465,117	MWh			37.57
Schedule 122a		1,105,823	MWh	0.00 mills	\$0	0.00
Schedule 131				(0.001) %		0.000
Schedule 146		1,105,823	MWh	3.22 mills	\$3,560,749	3.22
Totals		1,105,823	MWh		\$95,162,429	
				Change Percent Change		

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

Schedule	Billing	Units	Current			Price
	Determinant		Price	Revenues		
Schedule 90-P 30-250 MWa						
Large Non-residential Standard Service						
Monthly Basic Charge	96	bills	\$12,200.00	\$1,171,200	\$18,400.00	
Transmission & Related Services Charge						
On-peak	5,479,269	kW	\$2.10	\$11,506,466	\$3.44	
Off-peak	4,941	kW	\$0.00	\$0	\$0.00	
Distribution Facilities Charge						
First 4,000 kW	384,000	faccap	\$1.79	\$687,360	\$0.98	
Over 4,000 kW	5,386,990	faccap	\$1.48	\$7,972,745	\$0.67	
Distribution Demand Charge						
On-peak	5,479,269	kW	\$1.49	\$8,164,111	\$2.09	
Off-peak	4,941	kW	\$0.00	\$0	\$0.00	
System Usage Charge						
Sch 90 (30-250 Mwa)	547,711	MWh	1.98 mills	\$1,084,468	2.51	
Sch 90 (>250 Mwa)	3,092,966		1.98 mills	\$6,124,072	2.51	
Reactive Power Charge	1,293,494	kVar	\$0.50	\$646,747	\$0.50	
Energy Charge						
Sch 90 (30-250 Mwa)						
On-peak	314,812	MWh	74.76 mills	\$23,535,308	36.23	
Off-peak	232,900	MWh	59.76 mills	\$13,918,091	28.73	
Sch 90 (>250 Mwa)						
On-peak	1,771,816	MWh	72.97 mills	\$129,297,357	31.34	
Off-peak	1,321,149	MWh	57.97 mills	\$76,592,920	23.8400	
Schedule 125						
Sch 90 (30-250 Mwa) On-peak	314,812	MWh	0.00 mills	\$0	44.86	
Sch 90 (30-250 Mwa) Off-peak	232,900	MWh			37.36	
Sch 90 (>250 Mwa) On-peak	1,771,816	MWh	0.00 mills	\$0	44.86	
Sch 90 (>250 Mwa) Off-peak	1,321,149	MWh			37.36	
Schedule 122a						
Sch 90 (30-250 Mwa)	547,711	MWh	0.00 mills	\$0	0.00	
Sch 90 (>250 Mwa)	3,092,966	MWh	0.00 mills	\$0	0.00	
Schedule 131						
Sch 90 (30-250 Mwa)	547,711		0.000 %		0.000	
Sch 90 (>250 Mwa)	3,092,966					
Schedule 146						
Sch 90 (30-250 Mwa)	547,711	MWh	3.06 mills	\$1,675,997	3.06	
Sch 90 (>250 Mwa)	3,092,966	MWh	3.06 mills	\$9,464,475	3.06	
Totals	3,640,677	MWh		\$291,841,316		
				Change		
				Percent Change		

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

Schedule		Billing	Units	Current		
		Determinant		Price	Revenues	Price
Schedule 89 Subtransmission Delivery Voltage Large Non-residential Standard Service						
Monthly Basic Charge		36	bills	\$4,950.00	\$178,200	\$5,810.00
Transmission & Related Services Charge						
On-peak		179,012	kW	\$2.06	\$368,765	\$3.38
Off-peak		1,255	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge						
First 1,000 kW		144,000	faccap	\$1.50	\$216,000	\$1.18
Over 4,000 kW		77,704	faccap	\$1.19	\$92,468	\$0.87
Distribution Demand Charge						
On-peak		179,012	kW	\$0.12	\$21,481	\$0.13
Off-peak		1,255	kW	\$0.00	\$0	\$0.00
System Usage Charge		38,613	MWh	2.13 mills	\$82,246	2.51
Reactive Power Charge		30,711	kVar	\$0.50	\$15,356	\$0.50
Energy Charge						
On-peak	28,075	6,530	MWh	75.58 mills	\$2,121,918	41.09
Mid-peak		21,545	MWh	0.00 mills	\$0	37.09
Off-peak	10,538	10,538	MWh	60.58 mills	\$638,403	31.09
Schedule 125 On-peak		6,530	MWh	0.00 mills	\$0	47.10
Schedule 125 On-peak		21,545	MWh			43.10
Schedule 125 On-peak		10,538	MWh			37.10
Schedule 122a		38,613	MWh	0.00 mills	\$0	0.00
Schedule 131		38,613	MWh	(0.001) %		0.00
Schedule 146		38,613	MWh	3.28 mills	\$126,652	3.28
Totals		38,613	MWh		\$3,861,488	
				Change		
				Percent Change		

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

Schedule	Billing Determinant	Units	Current		Price
			Price	Revenues	
Schedule 75 Subtransmission Delivery Voltage Partial Requirements Service					
Monthly Basic Charge	0	bills	\$4,950.00	\$0	\$5,810.00
Transmission & Related Services Charge					
On-peak	0	kW	\$2.06	\$0	\$3.38
Off-peak	0	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge					
First 1,000 kW	0	faccap	\$1.50	\$0	\$1.18
1,001 to 4,000 kW	0	faccap	\$1.19	\$0	\$1.18
Over 4,000 kW	0	faccap	\$0.00	\$0	\$0.87
Distribution Demand Charge					
On-peak	0	kW	\$0.12	\$0	\$0.13
Off-peak	0	kW	\$0.00	\$0	\$0.00
System Usage Charge	0	MWh	2.13 mills	\$0	2.51
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50
Energy Charge (Schedule 75 only)					
On-peak	0	MWh	75.58 mills	\$0	41.09
Off-peak	0	MWh	60.58 mills	\$0	31.09
Schedule 125	0	MWh	0.00 mills	\$0	0.00
Schedule 122a	0	MWh	0.00 mills	\$0	0.00
Schedule 131			(0.001) %		0.000
Schedule 146	0	MWh	3.28 mills	\$0	3.28
Totals	0	MWh		\$0	
Change Percent Change					
Total Subtransmission	38,613	MWh		\$3,861,488	
Change Percent Change					

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

Schedule	Billing	Units	Current			Price
	Determinant		Price	Revenues	Price	
Schedule 91/95						
Street & Highway Lighting						
Transmission & Related Services Charge	39,825	MWh	4.13	mills	\$164,477	4.77
Distribution Charge	39,825	MWh	64.39	mills	\$2,564,332	70.58
Fixed Charge					\$7,988,694	
Energy Charge	39,825	MWh	64.48	mills	\$2,567,916	30.73
Schedule 125	39,825	MWh	0.00	mills	\$0	NA
Schedule 122a	39,825	MWh	0.00	mills	\$0	0.00
Schedule 131			(0.001)	%		0.000
Schedule 146	39,825	MWh	2.95	mills	\$117,484	2.95
Totals	39,825	MWh			\$13,402,903	
					Change	
					Percent Change	
Schedule 92						
Traffic Signals						
Transmission & Related Services Charge	2,760	MWh	4.21	mills	\$11,620	5.39
Volumetric Distribution Charge	2,760	MWh	19.05	mills	\$52,578	18.58
Energy Charge	2,760	MWh	68.87	mills	\$190,081	33.15
Schedule 125	2,760	MWh	0.00	mills	\$0	41.83
Schedule 122a	2,760	MWh	0.00	mills	\$0	0.00
Schedule 131			(0.001)	%		0.000
Schedule 146	2,760	MWh	3.15	mills	\$8,694	3.15
Totals	2,760	MWh			\$262,973	
					Change	
					Percent Change	
System COS Totals	19,964,492	MWh			\$2,773,320,215	
					System COS Change	
					System COS Percent Change	

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

<u>Schedule</u>	<u>Billing Determinant</u>	<u>Units</u>	<u>Current Price</u>	<u>Revenues</u>	<u>Price</u>	<u>I</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
Daily Transmission Charges						
Daily Distribution Charges						
Totals	0	MWh		\$0		
				Change		
Schedule 485 Secondary (201-4,000 kW) Large Non-residential Optional Service (Direct Access)						
Monthly Basic Charge						
Single Phase	0	bills	\$0.00	\$0		\$870.00
Three Phase	2,532	bills	\$780.00	\$1,974,960		\$870.00
Transmission & Related Services Charge						
On-peak		kW		\$0		
Off-peak		kW		\$0		
Distribution Facilities Charge						
Block 1 (first 200 kW)	506,400	faccap	\$3.10	\$1,569,840		\$2.84
Block 2 (over 200 kW)	967,964	faccap	\$3.00	\$2,903,891		\$2.74
Distribution Demand Charge						
On-peak	1,133,907	kW	\$1.51	\$1,712,199		\$2.11
Off-peak	4,614	kW	\$0.00	\$0		\$0.00
System Usage Charge	438,351	MWh	0.51 mills	\$223,559		0.66
Reactive Power Charge	120,286	kVar	\$0.50	\$60,143		\$0.50
Energy Charge (not applicable)		MWh		mills	\$0	
Schedule 129						
Part A - Energy						
Schedule 485-S (Sch 129 v2020)	0	MWh	19.60 mills	\$0		0.00
Schedule 485-S (Sch 129 v2023)	4,351	MWh	(18.45) mills	(\$80,269)		(10.75)
Schedule 485-S (Sch 129 v2025)	0	MWh	0.00 mills	\$0		0.00
Part B - Demand						
Schedule 485-S (Sch 129 v2020)	0	kW	\$0.00	\$0		\$0.00
Schedule 485-S (Sch 129 v2023)	11,778	kW	\$5.17	\$60,893		\$5.17
Schedule 485-S (Sch 129 v2025)	0	kW	\$0.00	\$0		\$0.00
Schedule 131			(0.001) %			0
Totals	438,351	MWh		\$8,425,216		
				Change		
Schedule 485 Primary (201 to 4,000 kW) Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	576	bills	\$670.00	\$385,920		\$740.00
Transmission & Related Services Charge						
On-peak	632,000	kW		\$0		
Off-peak	1,106	kW		\$0		
Distribution Facilities Charge						

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

Schedule	Billing		Current		I
	Determinant	Units	Price	Revenues	Price
Block 1 (first 200 kW)	115,200	faccap	\$3.07	\$353,664	\$2.81
Block 2 (over 200 kW)	671,614	faccap	\$2.97	\$1,994,693	\$2.71
Distribution Demand Charge					
On-peak	632,000	kW	\$1.49	\$941,680	\$2.09
Off-peak	1,106	kW	\$0.00	\$0	\$0.00
System Usage Charge	278,884	MWh	0.50 mills	\$139,442	0.66
Reactive Power Charge	130,319	kVar	\$0.50	\$65,159	\$0.50
Energy Charge (not applicable)					
Schedule 129					
Part A - Energy					
Schedule 485-P (Sch 129 v2021)	13,173	MWh	\$25.99 mills	\$342,366	33.24
Schedule 485-P (Sch 129 v2024)	0	MWh	\$0.00 mills	\$0	0.00
Schedule 485-P (Sch 129 v2025)	0	MWh	\$0.00 mills	\$0	0.00
Part B - Demand					
Schedule 485-P (Sch 129 v2021)	0	kW	\$0.00	\$0	\$0.00
Schedule 485-P (Sch 129 v2024)	0	kW	\$0.00	\$0	\$0.00
Schedule 485-P (Sch 129 v2025)	0	kW	\$0.00	\$0	\$0.00
Schedule 131			(0.001) %		0
Totals	278,884	MWh		\$4,222,925	
				Change	

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

Schedule	Billing	Units	Current			Price
	Determinant		Price	Revenues		
Schedule 489 Primary (GT 4,000 kW)						
Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	192	bills	\$3,450.00		\$662,400	\$4,110.00
Transmission & Related Services Charge						
On-peak	1,667,897	kW			\$0	
Off-peak	2,733	kW			\$0	
Distribution Facilities Charge						
First 1,000 kW	768,000	faccap	\$1.50		\$1,152,000	\$1.19
Over 4,000 kW	1,040,597	faccap	\$1.19		\$1,238,310	\$0.88
Distribution Demand Charge						
On-peak	1,667,897	kW	\$1.49		\$2,485,166	\$2.09
Off-peak	2,733	kW	\$0.00		\$0	\$0.00
System Usage Charge	1,042,401	MWh	0.18	mills	\$187,632	0.30
Reactive Power Charge	527,458	kVar	\$0.50		\$263,729	\$0.50
Energy Charge (not applicable)				mills		
Schedule 129						
Part A - Energy						
Schedule 489-P (Sch 129 v2020)	0	MWh	16.82	mills	\$0	0.00
Schedule 489-P (Sch 129 v2021)	18,499	MWh	0.00	mills	\$0	0.00
Schedule 489-P (Sch 129 v2024)	95,334	MWh	(24.05)	mills	(\$2,292,771)	(17.17)
Schedule 489-P (Sch 129 v2025)	0	MWh	0.00	mills	\$0	0.00
Part B - Demand						
Schedule 489-P (Sch 129 v2020)	0	kW	\$0.00		\$0	\$0.00
Schedule 489-P (Sch 129 v2021)	0	kW	\$0.00		\$0	\$0.00
Schedule 489-P (Sch 129 v2024)	0	kW	\$0.00		\$0	\$0.00
Schedule 489-P (Sch 129 v2025)	0	kW	\$0.00		\$0	\$0.00
Schedule 131			(0.001)	%		\$0
Totals	1,042,401	MWh			\$3,696,467	
				Change		
Schedule 689 Primary (GT 4,000 kW)						
Large Non-residential Standard Service (Direct Access)						
Monthly Basic Charge	36	bills	\$3,450.00		\$124,200	\$4,110.00
Transmission & Related Services Charge						
On-peak	978,608	kW			\$0	
Off-peak	908	kW			\$0	
Distribution Facilities Charge						
First 1,000 kW	144,000	faccap	\$1.50		\$216,000	\$1.19
Over 4,000 kW	810,329	faccap	\$1.19		\$964,292	\$0.88
Distribution Demand Charge						
On-peak	978,608	kW	\$1.49		\$1,458,126	\$2.09
Off-peak	908	kW	\$0.00		\$0	\$0.00
System Usage Charge	515,071	MWh	0.18	mills	\$92,713	0.30
Reactive Power Charge	114,871	kVar	\$0.50		\$57,436	\$0.50
Energy Charge (not applicable)				mills		
Schedule 131			(0.001)	%		
Schedule 139	257,535	MWh	6.02		\$1,551,393	0.00

	<u>Proposed</u>
	<u>Revenues</u>

	\$106,156,516
	\$35,738,963
	\$0
mills	\$70,163,850
mills	\$567,459,993
mills	\$346,404,447
mills	\$0
mills	\$429,024,351
mills	\$0
%	-
mills	\$31,770,822
	(\$1,117,866)
	\$1,585,601,077
	\$145,215,538
	10.08%

<u>Proposed</u>	
	<u>Revenues</u>

mills	\$66,155
mills	\$883,330
	\$2,422,442
mills	\$387,229
mills	\$500,638
mills	\$0
%	\$0
mills	\$37,173
	\$4,296,967
	\$301,773
	7.55%

Proposed
Revenues

	\$17,542,104
	\$14,219,172
mills	\$10,986,173
mills	\$100,062,920
mills	\$6,447,676
mills	\$59,178,647
mills	\$73,129,100
mills	\$0
%	\$0
mills	\$5,500,726
	\$287,066,518
	\$35,410,313
	14.07%

	<u>Proposed</u>
	<u>Revenues</u>

	\$55,800
	\$208,080
mills	\$188,335
mills	\$2,584,684
	\$0
mills	\$254,823
mills	\$492,418
mills	\$269,547
mills	\$304,916
mills	\$601,311
mills	\$349,010
mills	\$0
%	\$0
mills	\$93,494
	\$5,402,418
	\$722,874
	15.45%

Proposed
Revenues

	\$54,288
	\$560,430
mills	\$159,728
mills	\$651,461
mills	\$2,050,467
	\$0
mills	\$208,143
mills	\$760,285
mills	\$1,197,959
mills	\$0
%	\$0
mills	\$84,266
	\$5,727,026
	\$743,300
	14.91%

	<u>Proposed</u>
	<u>Revenues</u>

	\$2,880
	\$489,960
mills	\$416,419
mills	\$1,362,865
mills	\$5,757,180
	\$0
mills	\$447,789
mills	\$2,213,058
mills	\$3,291,357
mills	\$0
%	\$0
mills	\$249,381
	\$14,230,888
	\$1,863,684
	15.07%

Proposed
Revenues

	\$535,800
	\$7,850,880
	\$30,014,306
	\$0
	\$26,500,781
	\$48,899,604
	\$18,198,329
	\$0
mills	\$29,457,427
	\$450,591
mills	\$19,207,517
mills	\$31,409,284
mills	\$20,027,200
	\$85,040,534
mills	\$22,942,845
mills	\$38,456,161
mills	\$25,866,384
mills	\$0
%	\$0
mills	\$10,046,833
	\$414,904,474
	\$48,948,235
	13.38%

Proposed
Revenues

	\$0
	\$13,180,500
	\$18,930,194
	\$0
	\$8,605,200
	\$11,382,059
	\$11,477,790
	\$0
mills	\$6,102,604
	\$425,727
mills	\$12,516,671
mills	\$22,030,310
mills	\$13,869,093
	\$62,012,706
mills	\$14,910,452
mills	\$26,917,130
mills	\$17,916,069
mills	\$0
%	\$0
mills	\$7,041,466
	\$247,317,972
	\$27,452,674
	12.49%

Proposed
Revenues

	\$0
	\$1,562,880
	\$5,001,128
	\$1,186,944
	\$3,784,960
	\$3,038,476
mills	\$2,127,589
	\$124,704
mills	\$4,486,619
mills	\$6,990,232
mills	\$5,261,404
	\$16,384,510
mills	\$5,343,070
	\$8,540,166
	\$6,801,122
mills	\$0
%	\$0
mills	\$2,300,097
	\$72,933,902
	\$8,033,743
	12.38%

Proposed
Revenues

\$0

\$0
\$0

\$0
\$0

\$0

mills	\$0
	\$0

mills	\$0
mills	\$0
mills	\$0

mills	\$0
mills	\$0
mills	\$0

mills	\$0
%	\$0
mills	\$0

\$0

\$0

Proposed
Revenues

	\$1,319,310
	\$7,029,433
	\$0
	\$1,527,960
	\$850,699
	\$4,270,789
	\$0
mills	\$2,808,790
	\$229,451
mills	\$9,850,818
mills	\$15,118,964
mills	\$14,646,519
mills	\$11,294,370
mills	\$17,570,906
mills	\$17,474,427
mills	\$0
%	\$0
mills	\$3,560,749
	\$107,553,184
	\$12,390,755
	13.02%

Proposed
Revenues

	\$1,766,400
	\$18,848,687
	\$0
	\$376,320
	\$3,609,283
	\$11,451,673
	\$0
mills	\$1,374,755
mills	\$7,763,344
	\$646,747
mills	\$11,405,621
mills	\$6,691,211
mills	\$55,528,727
mills	\$31,496,198
mills	\$14,122,444
	\$8,701,136
mills	\$79,483,686
	\$49,358,135
mills	\$0
mills	\$0
%	\$0
mills	\$1,675,997
mills	\$9,464,475
	\$313,764,837
	\$21,923,521
	7.51%

Proposed
<u>Revenues</u>

	\$209,160
	\$605,061
	\$0
	\$169,920
	\$67,602
	\$23,272
	\$0
mills	\$96,919
	\$15,356
mills	\$268,319
mills	\$799,108
mills	\$327,632
mills	\$307,564
mills	\$928,594
mills	\$390,966
mills	\$0
%	\$0
mills	\$126,652
	\$4,336,124
	\$474,636
	12.29%

Proposed
Revenues

	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
mills	\$0
	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
%	\$0
mills	\$0
	\$0
	\$0
	\$4,336,124
	\$474,636
	12.29%

<u>Proposed</u>	
	<u>Revenues</u>

mills	\$189,965
mills	\$2,810,849
	\$8,310,931
mills	\$1,223,822
mills	\$1,532,068
mills	\$0
%	\$0
mills	\$117,484
	\$14,185,118
	\$782,215
	5.84%

mills	\$14,876
mills	\$51,281
mills	\$91,494
mills	\$115,451
mills	\$0
%	\$0
mills	\$8,694
	\$281,796
	\$18,823
	7.16%

	\$3,077,602,300
	\$304,282,085
	10.97%

	<u>Proposed</u>
	<u>Revenues</u>

mills	\$0
-------	-----

\$0

\$0

\$0
\$2,202,840

\$0
\$0

\$1,438,176
\$2,652,220

\$2,392,543
\$0

mills	\$289,312
-------	-----------

\$60,143

mills	\$0
-------	-----

mills	\$0
mills	(\$46,769)
mills	\$0

\$0
\$60,893
\$0
\$0

\$9,049,358

\$624,142

\$426,240

\$0
\$0

Proposed	
Revenues	
	\$323,712
	\$1,820,073
	\$1,320,881
	\$0
mills	\$184,064
	\$65,159
mills	\$437,871
mills	\$0
mills	\$0
	\$0
	\$0
	\$0
	\$0
	\$4,578,000
	\$355,074

	<u>Proposed</u>
	<u>Revenues</u>

	\$789,120
	\$0
	\$0
	\$913,920
	\$915,725
	\$3,485,904
	\$0
mills	\$312,720
	\$263,729
mills	
mills	\$0
mills	\$0
mills	(\$1,636,876)
mills	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$5,044,242
	\$1,347,776
	\$147,960
	\$0
	\$0
	\$171,360
	\$713,090
	\$2,045,291
	\$0
mills	\$154,521
	\$57,436
mills	
	\$0
	\$0

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

Schedule	Billing	Units	Current		Price
	Determinant		Price	Revenues	
Schedule 7					
Residential Service					
Monthly Basic Charge					
Single Phase	7,077,101	bills	\$13.00	\$92,002,314	\$15.00
Three Phase	2,978,247	bills	\$10.00	\$29,782,469	\$12.00
Transmission & Related Services Charge	7,883,579	MWh	6.78 mills	\$53,450,663	8.90
TOU Decrement Transmission					
Distribution Charge	7,883,579	MWh	68.44 mills	\$539,552,124	71.98
TOU Decrement Distribution					
Energy Charge					
Block 1 (first 10,000 kWh)	7,883,579	MWh	88.14 mills	\$694,858,624	43.94
Block 2 (over 1,000 kWh)	0	MWh	88.14 mills	\$0	43.94
Schedule 122	7,883,579	MWh	0.00 mills	\$0	0.00
Schedule 125	7,883,579	MWh	0.00 mills	\$0	54.42
Schedule 145	7,883,579	MWh	(0.48) mills	(\$3,784,118)	(0.48)
Schedule 146	7,883,579	MWh	4.03 mills	\$31,770,822	4.03
Schedule 102					
1,000 and under	7,139,931	MWh	(6.79) mills	(\$48,480,131)	(6.79)
Over 1,000	0	MWh	(6.79) mills	\$0	0.00
Schedule 105	7,883,579	MWh	(0.39) mills	(\$3,074,596)	0.00
Schedule 109	7,883,579	MWh	7.88 mills	\$62,122,600	7.88
Schedule 109 >1MWa	0	MWh	0.00 mills	\$0	0.00
Schedule 110	7,883,579	MWh	0.00 mills	\$0	0.00
Schedule 118	10,055,348		1.88 mills	\$18,904,054	1.88
Schedule 123	7,883,579	MWh	(0.14) mills	(\$1,103,701)	0.00
Schedule 126	7,883,579	MWh	0.80 mills	\$6,306,863	0.00
Schedule 135	7,883,579	MWh	0.67 mills	\$5,281,998	0.68
Schedule 136	7,883,579	MWh	0.12 mills	\$946,029	0.29
Schedule 137	7,883,579	MWh	0.24 mills	\$1,892,059	0.29
Schedule 138	7,883,579	MWh	0.00 mills	\$0	0.04
Schedule 143	7,883,579	MWh	0.00 mills	\$0	0.00
Schedule 150	7,883,579	MWh	0.56 mills	\$4,414,804	0.53
Schedule 151	7,883,579	MWh	3.56 mills	\$28,065,540	3.56
Schedule 152	7,883,579	MWh	2.63 mills	\$20,733,812	2.63
Schedule 153	7,883,579	MWh	0.01 mills	\$78,836	0.01
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Employee Discount				(\$1,031,478)	
Totals	7,883,579	MWh		\$1,532,689,589	
				Change	
				Percent Change	

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

Schedule	Billing Determinant	Units	Current		Price
			Price	Revenues	
Schedule 15					
Outdoor Area Lighting					
Transmission & Related Services Charge	12,601	MWh	3.94	mills	\$49,648 x 5.25
Distribution Charge	12,601	MWh	64.58	mills	\$813,773 x 70.10
Fixed Charge					\$2,282,087
Energy Charge	12,601	MWh	64.48	mills	\$812,512 30.73
Schedule 122	12,601	MWh	0.00	mills	\$0 0.00
Schedule 125	12,601	MWh	0.00	mills	\$0 39.73
Schedule 145	12,601	MWh	(0.35)	mills	(\$4,410) (0.35)
Schedule 146	12,601	MWh	2.95	mills	\$37,173 2.95
Schedule 102	1,579	MWh	(6.79)	mills	(\$10,721) (6.79)
Schedule 105	12,601	MWh	(0.24)	mills	(\$3,024) (0.40)
Schedule 109	12,577	MWh	5.87	mills	\$73,824 5.87
Schedule 109 >1MWa	24	MWh	2.83	mills	\$69 2.83
Schedule 110	12,577	MWh	0.00	mills	\$0 0.00
Schedule 118	11,022	MWh	2.36	mills	\$26,012 2.36
Schedule 123	12,577	MWh	0.62	mills	\$7,797 0.00
Schedule 126	12,601	MWh	0.80	mills	\$10,081 0.00
Schedule 135	12,601	MWh	0.49	mills	\$6,174 0.48
Schedule 136	12,601	MWh	0.09	mills	\$1,134 0.22
Schedule 137	12,601	MWh	0.18	mills	\$2,268 0.22
Schedule 138	12,601	MWh	0.00	mills	\$0 0.03
Schedule 143	12,601	MWh	0.00	mills	\$0 0.00
Schedule 150	12,601	MWh	0.43	mills	\$5,418 0.40
Schedule 151	12,601	MWh	2.61	mills	\$32,889 2.61
Schedule 152	12,601	MWh	1.94	mills	\$24,446 1.94
Schedule 153	12,601	MWh	0.01	mills	\$126 0.02
Schedule 112	0	MWh	0.00	mills	\$0 0.00
Totals	12,601	MWh			\$4,167,276
Change					
Percent Change					

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

Schedule	Billing	Units	Current		Price
	Determinant		Price	Revenues	
Schedule 32					
Small Non-residential Service					
Monthly Basic Charge					
Single Phase	730,921	bills	\$22.00	\$16,080,262	\$24.00
Three Phase	430,884	bills	\$31.00	\$13,357,404	\$33.00
Transmission & Related Services Charge	1,527,980	MWh	5.52 mills	\$8,434,447	7.19
Distribution Charge					
Block 1	1,343,126	MWh	60.98 mills	\$81,903,851	74.50
Block 2	184,853	MWh	34.14 mills	\$6,310,884	34.88
Energy Charge	1,527,980	MWh	78.58 mills	\$120,068,631	38.73
TOU Decrement					
Schedule 122	1,527,980	MWh	0.00 mills	\$0	0.00
Schedule 125	1,527,980	MWh	0.00 mills	\$0	47.86
Schedule 145	1,527,980	MWh	(0.43) mills	(\$657,031)	(0.43)
Schedule 146	1,527,980	MWh	3.60 mills	\$5,500,726	3.60
Schedule 102	166,631	MWh	(6.79) mills	(\$1,131,423)	(6.79)
Schedule 105	1,527,980	MWh	(0.41) mills	(\$626,472)	(0.46)
Schedule 109	1,527,876	MWh	6.92 mills	\$10,572,900	6.92
Schedule 109 >1MWa	104	MWh	3.46 mills	\$359	3.46
Schedule 110	1,527,876	MWh	0.00 mills	\$0	0.00
Schedule 118	1,527,980	MWh	2.36 mills	\$3,606,032	2.36
Schedule 123	1,527,876	MWh	2.12 mills	\$3,239,097	0.00
Schedule 126	1,527,980	MWh	0.80 mills	\$1,222,384	0.00
Schedule 135	1,527,980	MWh	0.59 mills	\$901,508	0.60
Schedule 136	1,527,980	MWh	0.11 mills	\$168,078	0.27
Schedule 137	1,527,980	MWh	0.21 mills	\$320,876	0.26
Schedule 138	1,527,980	MWh	0.00 mills	\$0	0.03
Schedule 143	1,527,980	MWh	0.00 mills	\$0	0.00
Schedule 150	1,527,980	MWh	0.50 mills	\$763,990	0.50
Schedule 151	1,527,980	MWh	3.34 mills	\$5,103,452	3.34
Schedule 152	1,527,980	MWh	2.23 mills	\$3,407,394	2.23
Schedule 153	1,527,980	MWh	0.01 mills	\$15,280	0.01
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Totals	1,527,980	MWh		\$278,562,627	
Change					
Percent Change					

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

Schedule		Billing	Units	Current		Price
		Determinant		Price	Revenues	
Schedule 38						
Large Non-residential Service Time-of-Day						
Monthly Basic Charge						
Single Phase		1,116	bills	\$35.00	\$39,060	\$50.00
Three Phase		3,468	bills	\$35.00	\$121,380	\$60.00
Transmission & Related Services Charge		26,943	MWh	5.52 mills	\$148,728	6.99
Distribution Charge		26,943	MWh	83.16 mills	\$2,240,616	95.93
Reactive Power Charge		0	kVar	\$0.50	\$0	\$0.50
Energy Charge						
On-peak	13,392	5,660	MWh	83.12 mills	\$1,113,140	45.02
Mid-peak		12,304		0.00 mills	\$0	40.02
Off-peak	13,551	8,979	MWh	68.12 mills	\$923,126	30.02
Schedule 122		26,943	MWh	0.00 mills	\$0	0.00
Schedule 125 On-peak		5,660	MWh	0.00 mills	\$0	53.87
Schedule 125 Mid-peak		12,304	MWh			48.87
Schedule 125 Off-peak		8,979	MWh			38.87
Schedule 145		26,943	MWh	(0.41) mills	(\$11,047)	(0.41)
Schedule 146		26,943	MWh	3.47 mills	\$93,494	3.47
Schedule 102		493	MWh	(6.79) mills	(\$3,346)	(6.79)
Schedule 105		26,943	MWh	(0.67) mills	(\$18,052)	(0.52)
Schedule 109		26,752	MWh	7.21 mills	\$192,883	7.21
Schedule 109 >1MWa		191	MWh	3.98 mills	\$761	3.98
Schedule 110		26,752	MWh	0.00 mills	\$0	0.00
Schedule 118		26,943	MWh	2.36 mills	\$63,587	2.36
Schedule 123		26,752	MWh	0.62 mills	\$16,586	0.00
Schedule 126		26,943	MWh	0.80 mills	\$21,555	0.00
Schedule 135		26,943	MWh	0.57 mills	\$15,358	0.58
Schedule 136		26,943	MWh	0.12 mills	\$3,233	0.29
Schedule 137		26,943	MWh	0.23 mills	\$6,197	0.27
Schedule 138		26,943	MWh	0.00 mills	\$0	0.03
Schedule 143		26,943	MWh	0.00 mills	\$0	0.00
Schedule 150		26,943	MWh	0.56 mills	\$15,088	0.96
Schedule 151		26,943	MWh	3.76 mills	\$101,307	3.76
Schedule 152		26,943	MWh	2.51 mills	\$67,628	2.51
Schedule 153		26,943	MWh	0.01 mills	\$269	0.01
Schedule 112		0	MWh	0.00 mills	\$0	0.00
Totals		14,639	MWh		\$5,151,553	

Change
Percent Change

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

Schedule	Billing	Units	Current		
	Determinant		Price	Revenues	Price
Schedule 47					
Small Non-residential Irrigation & Pumping Service					
Monthly Basic Charge					
Single Phase	1,392	bills	\$39.00	\$54,288	\$39.00
Three Phase	14,370	bills	\$39.00	\$560,430	\$39.00
Transmission & Related Services Charge	20,962	MWh	5.92 mills	\$124,093	7.62
Distribution Charge					
Block 1	4,505	MWh	126.44 mills	\$569,645	144.60
Block 2	16,456	MWh	106.44 mills	\$1,751,619	124.60
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50
Energy Charge					
Block 1	4,505	MWh	87.75 mills	\$395,337	46.20
Block 2	16,456	MWh	87.75 mills	\$1,444,049	46.20
Schedule 122	20,962	MWh	0.00 mills	\$0	0.00
Schedule 125	20,962	MWh	0.00 mills	\$0	57.15
Schedule 145	20,962	MWh	(0.48) mills	(\$10,062)	(0.48)
Schedule 146	20,962	MWh	4.02 mills	\$84,266	4.02
Schedule 102	15,773	MWh	(6.79) mills	(\$107,097)	(6.79)
Schedule 105	20,962	MWh	(0.41) mills	(\$8,594)	(0.50)
Schedule 109	20,962	MWh	8.44 mills	\$176,916	8.44
Schedule 109 >1MWa	0	MWh	4.65 mills	\$0	4.65
Schedule 110	20,962	MWh	0.00 mills	\$0	0.00
Schedule 118	20,962	MWh	2.36 mills	\$49,470	2.36
Schedule 123	20,962	MWh	0.62 mills	\$12,996	0.00
Schedule 126	20,962	MWh	0.80 mills	\$16,769	0.00
Schedule 135	20,962	MWh	0.66 mills	\$13,835	0.68
Schedule 136	20,962	MWh	0.17 mills	\$3,563	0.40
Schedule 137	20,962	MWh	0.33 mills	\$6,917	0.40
Schedule 138	20,962	MWh	0.00 mills	\$0	0.04
Schedule 143	20,962	MWh	0.00 mills	\$0	0.00
Schedule 150	20,962	MWh	0.79 mills	\$16,560	0.71
Schedule 151	20,962	MWh	0.80 mills	\$16,769	0.80
Schedule 152	20,962	MWh	4.05 mills	\$84,895	4.05
Schedule 153	20,962	MWh	0.02 mills	\$419	0.02
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Totals	20,962	MWh		\$5,257,082	

Change
Percent Change

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

Schedule	Billing	Units	Current		Price
	Determinant		Price	Revenues	
Schedule 49					
Large Non-residential Irrigation & Pumping Service					
Monthly Basic Charge					
Single Phase	48	bills	\$50.00	\$2,400	\$60.00
Three Phase	8,166	bills	\$50.00	\$408,300	\$60.00
Transmission & Related Services Charge	58,816	MWh	5.70	mills	\$335,253
					7.08
Distribution Charge					
Block 1	9,898	MWh	117.43	mills	\$1,162,330
Block 2	48,918	MWh	97.43	mills	\$4,766,097
Reactive Power Charge	0	kVar	\$0.50		\$0
Energy Charge					\$0.50
Block 1	9,898	MWh	92.55	mills	\$916,066
Block 2	48,918	MWh	92.55	mills	\$4,527,377
Schedule 122	58,816	MWh	0.00	mills	\$0
Schedule 125	58,816	MWh	0.00	mills	\$0
Schedule 145	58,816	MWh	(0.50)	mills	(\$29,408)
Schedule 146	58,816	MWh	4.24	mills	\$249,381
Schedule 102	43,312	MWh	(6.79)	mills	(\$294,087)
Schedule 105	58,816	MWh	(0.67)	mills	(\$39,407)
Schedule 109	58,816	MWh	7.43	mills	\$437,005
Schedule 109 >1MWa	0	MWh	4.10	mills	\$0
Schedule 110	58,816	MWh	0.00	mills	\$0
Schedule 118	58,816	MWh	2.36	mills	\$138,806
Schedule 123	58,816	MWh	0.62	mills	\$36,466
Schedule 126	58,816	MWh	0.80	mills	\$47,053
Schedule 135	58,816	MWh	0.70	mills	\$41,171
Schedule 136	58,816	MWh	0.15	mills	\$8,822
Schedule 137	58,816	MWh	0.29	mills	\$17,057
Schedule 138	58,816	MWh	0.00	mills	\$0
Schedule 143	58,816	MWh	0.00	mills	\$0
Schedule 150	58,816	MWh	0.75	mills	\$44,112
Schedule 151	58,816	MWh	0.71	mills	\$41,642
Schedule 152	58,816	MWh	3.33	mills	\$195,858
Schedule 153	58,816	MWh	0.02	mills	\$1,176
Schedule 112	0	MWh	0.00	mills	\$0
Totals	58,816	MWh			\$13,013,471
				Change	
				Percent Change	

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

Schedule	Billing		Current			
	Determinant	Units	Price	Revenues	Price	
Schedule 83 Secondary Delivery Voltage 31-200 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase	10,716	bills	\$40.00	\$428,640	\$50.00	
Three Phase	130,848	bills	\$50.00	\$6,542,400	\$60.00	
Transmission & Related Services Charge						
On-peak	8,624,801	kW	\$2.12	\$18,284,577	\$3.48	
Off-peak	97,360	kW	\$0.00	\$0	\$0.00	
Distribution Facilities Charge						
Block 1 (first 30 kW)	4,246,920	faccap	\$5.55	\$23,570,406	\$6.24	
Block 2 (over 30 kW)	7,964,105	faccap	\$5.45	\$43,404,371	\$6.14	
Distribution Demand Charge						
On-peak	8,624,801	kW	\$1.51	\$13,023,449	\$2.11	
Off-peak	97,360	kW	\$0.00	\$0	\$0.00	
System Usage Charge	2,846,128	MWh	10.87 mills	\$30,937,414	10.35	
Reactive Power Charge	901,182	kVar	\$0.50	\$450,591	\$0.50	
Energy Charge						
On-peak	1,846,268	639,611	MWh	55.34 mills	\$102,172,472	30.03
Mid-peak		1,206,657	MWh	0.00 mills	\$0	26.03
Off-peak	999,860	999,860	MWh	40.34 mills	\$40,334,361	20.03
Schedule 122		2,846,128	MWh	0.00 mills	\$0	0.00
Schedule 125 On-peak		639,611	MWh	0.00 mills	\$0	35.87
Schedule 125 On-peak		1,206,657	MWh			31.87
Schedule 125 On-peak		999,860	MWh			25.87
Schedule 145		2,846,128	MWh	(0.42) mills	(\$1,195,374)	(0.42)
Schedule 146		2,846,128	MWh	3.53 mills	\$10,046,833	3.53
Schedule 102		109,410	MWh	(6.79) mills	(\$742,892)	(6.79)
Schedule 105		2,846,128	MWh	(0.75) mills	(\$2,134,596)	(0.76)
Schedule 109		2,812,563	MWh	5.33 mills	\$14,990,963	5.33
Schedule 109 >1MWa		33,565	MWh	2.17 mills	\$72,836	2.17
Schedule 110		2,812,563	MWh	0.00 mills	\$0	0.00
Schedule 118		2,846,128	MWh	2.36 mills	\$6,716,863	2.36
Schedule 123		2,812,563	MWh	0.26 mills	\$731,267	0.00
Schedule 126		2,846,128	MWh	0.80 mills	\$2,276,903	0.00
Schedule 135		2,846,128	MWh	0.58 mills	\$1,650,754	0.84
Schedule 136		2,846,128	MWh	0.09 mills	\$256,152	0.21
Schedule 137		2,846,128	MWh	0.17 mills	\$483,842	0.20
Schedule 138		2,846,128	MWh	0.00 mills	\$0	0.04
Schedule 143		2,846,128	MWh	0.00 mills	\$0	0.00
Schedule 150		2,846,128	MWh	0.33 mills	\$939,222	0.66
Schedule 151		2,846,128	MWh	1.97 mills	\$5,606,873	1.97
Schedule 152		2,846,128	MWh	1.44 mills	\$4,098,425	1.44
Schedule 153		2,846,128	MWh	0.01 mills	\$28,461	0.01
Schedule 112		0	MWh	0.00 mills	\$0	0.00
Totals	2,846,128	MWh		\$322,975,211		
Change						
Percent Change						

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

Schedule	Billing		Current		
	Determinant	Units	Price	Revenues	Price
Schedule 85 Secondary Delivery Voltage 201-4,000 kW Large Non-residential Standard Service					
Monthly Basic Charge					
Single Phase	0	bills	\$780.00	\$0	\$870.00
Three Phase	15,150	bills	\$780.00	\$11,817,000	\$870.00
Transmission & Related Services Charge					
On-peak	5,439,711	kW	\$2.12	\$11,532,187	\$3.48
Off-peak	55,823	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge					
Block 1 (first 200 kW)	3,030,000	faccap	\$3.10	\$9,393,000	\$2.84
Block 2 (over 200 kW)	4,154,036	faccap	\$3.00	\$12,462,108	\$2.74
Distribution Demand Charge					
On-peak	5,439,711	kW	\$1.51	\$8,213,964	\$2.11
Off-peak	55,823	kW	\$0.00	\$0	\$0.00
System Usage Charge	2,041,005	MWh	2.57 mills	\$5,245,382	2.99
Reactive Power Charge	851,454	kVar	\$0.50	\$425,727	\$0.50
Energy Charge					
On-peak	1,311,820	431,312	53.71 mills	\$70,457,847	29.02
Mid-peak		880,508	0.00 mills	\$0	25.02
Off-peak	729,185	729,185	38.71 mills	\$28,226,741	19.02
Schedule 122		2,041,005	0.00 mills	\$0	0.00
Schedule 125 On-peak		431,312	0.00 mills	\$0	34.57
Schedule 125 Mid-peak		880,508			30.57
Schedule 125 Off-peak		729,185			24.57
Schedule 145		2,041,005	(0.41) mills	(\$836,812)	(0.41)
Schedule 146		2,041,005	3.45 mills	\$7,041,466	3.45
Schedule 102		15,212	(6.79) mills	(\$103,286)	(6.79)
Schedule 105		2,041,005	(0.68) mills	(\$1,387,883)	(0.68)
Schedule 109		1,898,632	4.65 mills	\$8,828,639	4.65
Schedule 109 >1MWa		142,373	1.00 mills	\$142,373	1.00
Schedule 110		1,898,632	0.00 mills	\$0	0.00
Schedule 118		2,041,005	2.36 mills	\$4,816,771	2.36
Schedule 123		1,898,632	0.62 mills	\$1,177,152	0.00
Schedule 126		2,041,005	0.80 mills	\$1,632,804	0.00
Schedule 135		2,041,005	0.57 mills	\$1,163,373	0.82
Schedule 136		2,041,005	0.07 mills	\$142,870	0.15
Schedule 137		2,041,005	0.14 mills	\$285,741	0.17
Schedule 138		2,041,005	0.00 mills	\$0	0.04
Schedule 143		2,041,005	0.00 mills	\$0	0.00
Schedule 150		2,041,005	0.28 mills	\$571,481	0.42
Schedule 151		2,041,005	1.28 mills	\$2,612,486	1.28
Schedule 152		2,041,005	0.96 mills	\$1,959,364	0.96
Schedule 153		2,041,005	0.01 mills	\$20,410	0.01
Schedule 112		0	0.00 mills	\$0	0.00
Totals	2,041,005	MWh		\$185,840,904	
				Change	
				Percent Change	

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

Schedule		Billing Determinant	Units	Current		Price
				Price	Revenues	
Schedule 85 Primary Delivery Voltage 201-4,000 kW						
Large Non-residential Standard Service						
Monthly Basic Charge						
Single Phase		0	bills	\$670.00	\$0	\$740.00
Three Phase		2,112	bills	\$670.00	\$1,415,040	\$740.00
Transmission & Related Services Charge						
On-peak		1,453,816	kW	\$2.10	\$3,053,014	\$3.44
Off-peak		24,623	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge						
Block 1 (first 200 kW)		422,400	faccap	\$3.07	\$1,296,768	\$2.81
Block 2 (over 200 kW)		1,396,664	faccap	\$2.97	\$4,148,093	\$2.71
Distribution Demand Charge						
On-peak		1,453,816	kW	\$1.49	\$2,166,186	\$2.09
Off-peak		24,623	kW	\$0.00	\$0	\$0.00
System Usage Charge		718,780	MWh	2.54 mills	\$1,825,702	2.96
Reactive Power Charge		249,409	kVar	\$0.50	\$124,704	\$0.50
Energy Charge						
On-peak	438,322	156,002	MWh	53.18 mills	\$23,309,941	28.76
Mid-peak		282,320	MWh	0.00 mills	\$0	24.76
Off-peak	280,459	280,459	MWh	38.18 mills	\$10,707,911	18.76
Schedule 122		718,780	MWh	0.00 mills	\$0	0.00
Schedule 125 On-peak		156,002	MWh	0.00 mills	\$0	34.25
Schedule 125 Mid-peak		282,320	MWh			30.25
Schedule 125 Off-peak		280,459	MWh			24.25
Schedule 145		718,780	MWh	(0.38) mills	(\$273,136)	(0.38)
Schedule 146		718,780	MWh	3.20 mills	\$2,300,097	3.20
Schedule 102		1,318	MWh	(6.79) mills	(\$8,951)	(6.79)
Schedule 105		718,780	MWh	(0.68) mills	(\$488,771)	(0.68)
Schedule 109		404,911	MWh	5.26 mills	\$2,129,831	5.26
Schedule 109 >1MWa		313,869	MWh	1.16 mills	\$364,089	1.16
Schedule 110		404,911	MWh	0.00 mills	\$0	0.00
Schedule 118		718,780	MWh	2.36 mills	\$1,696,321	2.36
Schedule 123		404,911	MWh	0.62 mills	\$251,045	0.00
Schedule 126		718,780	MWh	0.80 mills	\$575,024	0.00
Schedule 135		718,780	MWh	0.53 mills	\$380,954	0.43
Schedule 136		718,780	MWh	0.06 mills	\$43,127	0.11
Schedule 137		718,780	MWh	0.12 mills	\$86,254	0.15
Schedule 138		718,780	MWh	0.00 mills	\$0	0.03
Schedule 143		718,780	MWh	0.00 mills	\$0	0.00
Schedule 150		718,780	MWh	0.24 mills	\$172,507	0.27
Schedule 151		718,780	MWh	0.87 mills	\$625,339	0.87
Schedule 152		718,780	MWh	0.73 mills	\$524,710	0.73
Schedule 153		718,780	MWh	0.01 mills	\$7,188	0.01
Schedule 112		0	MWh	0.00 mills	\$0	0.00
Totals		436,461	MWh		\$56,432,985	
				Change		
				Percent Change		

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

Schedule	Billing	Units	Current		Price
	Determinant		Price	Revenues	
Schedule 89 Secondary Delivery Voltage GT 4,000 kW					
Large Non-residential Standard Service					
Monthly Basic Charge	0	bills	\$3,490.00	\$0	\$4,150.00
Transmission & Related Services Charge					
On-peak	0	kW	\$2.12	\$0	\$3.48
Off-peak	0	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge					
First 1,000 kW	0	faccap	\$1.51	\$0	\$1.20
Over 4,000 kW	0	faccap	\$1.20	\$0	\$0.89
	0	faccap	\$0.00	\$0	\$0.00
Distribution Demand Charge					
On-peak	0	kW	\$1.51	\$0	\$2.11
Off-peak	0	kW	\$0.00	\$0	\$0.00
System Usage Charge	0	MWh	2.17 mills	\$0	2.57
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50
Energy Charge					
On-peak	0	MWh	77.14 mills	\$0	41.88
Mid-peak	0	MWh	0.00	\$0	37.88
Off-peak	0	MWh	62.14 mills	\$0	31.88
Schedule 122	0	MWh	0.00 mills	\$0	0.00
Schedule 125 On-peak	0	MWh	0.00 mills	\$0	48.03
Schedule 125 Mid-peak	0	MWh			44.03
Schedule 125 Off-peak	0	MWh			38.03
Schedule 145	0	MWh	(0.38) mills	\$0	(0.38)
Schedule 146	0	MWh	3.26 mills	\$0	3.26
Schedule 102	0	MWh	(6.79) mills	\$0	(6.79)
Schedule 105	0	MWh	(0.58) mills	\$0	(0.49)
Schedule 109	0	MWh	1.87 mills	\$0	1.87
Schedule 109 >1MWa	0	MWh	1.87 mills	\$0	1.87
Schedule 110	0	MWh	0.00 mills	\$0	0.00
Schedule 118	0	MWh	2.36 mills	\$0	2.36
Schedule 123	0	MWh	0.62 mills	\$0	0.00
Schedule 126	0	MWh	0.80 mills	\$0	0.00
Schedule 135	0	MWh	0.54 mills	\$0	0.54
Schedule 136	0	MWh	0.06 mills	\$0	0.06
Schedule 137	0	MWh	0.11 mills	\$0	0.14
Schedule 138	0	MWh	0.00 mills	\$0	0.02
Schedule 143	0	MWh	0.00 mills	\$0	0.00
Schedule 150	0	MWh	0.22 mills	\$0	0.13
Schedule 151	0	MWh	0.46 mills	\$0	0.46
Schedule 152	0	MWh	0.19 mills	\$0	0.19
Schedule 153	0	MWh	0.01 mills	\$0	0.01
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Totals	0	MWh		\$0	
Change					
Percent Change					

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

Schedule	Billing Determinant	Units	Current			Price	
			Price	Revenues			
Schedule 89 Primary Delivery Voltage GT 4,000 kW Large Non-residential Standard Service							
Monthly Basic Charge	321	bills	\$3,450.00		\$1,107,450	\$4,110.00	
Transmission & Related Services Charge							
On-peak	2,043,440	kW	\$2.10		\$4,291,224	\$3.44	
Off-peak	19,724	kW	\$0.00		\$0	\$0.00	
Distribution Facilities Charge							
First 1,000 kW	1,284,000	faccap	\$1.50		\$1,926,000	\$1.19	
Over 4,000 kW	966,703	faccap	\$1.19		\$1,150,376	\$0.88	
Distribution Demand Charge							
On-peak	2,043,440	kW	\$1.49		\$3,044,725	\$2.09	
Off-peak	19,724	kW	\$0.00		\$0	\$0.00	
System Usage Charge	1,105,823	MWh	2.15	mills	\$2,377,519	2.54	
Reactive Power Charge	458,901	kVar	\$0.50		\$229,451	\$0.50	
Energy Charge							
On-peak	640,706	237,426	MWh	76.37	mills	\$48,930,735	41.49
Mid-peak		403,280	MWh	0.00	mills	\$0	37.49
Off-peak	465,117	465,117	MWh	61.37	mills	\$28,544,200	31.49
Schedule 122	1,105,823	MWh	0.00	mills	\$0	0.00	
Schedule 125 On-peak	237,426	MWh	0.00	mills	\$0	47.57	
Schedule 125 Mid-peak	403,280	MWh				43.57	
Schedule 125 Off-peak	465,117	MWh				37.57	
Schedule 145	1,105,823	MWh	(0.38)	mills	(\$420,213)	(0.38)	
Schedule 146	1,105,823	MWh	3.22	mills	\$3,560,749	3.22	
Schedule 102	0	MWh	(6.79)	mills	\$0	(6.79)	
Schedule 105	1,105,823	MWh	(0.58)	mills	(\$641,377)	(0.49)	
Schedule 109	34,716	MWh	1.85	mills	\$64,224	1.85	
Schedule 109 >1MWa	1,071,107	MWh	1.85	mills	\$1,981,548	1.85	
Schedule 110	34,716	MWh	0.00	mills	\$0	0.00	
Schedule 118	1,105,823	MWh	2.36	mills	\$2,609,742	2.36	
Schedule 123	34,716	MWh	0.62	mills	\$21,524	0.00	
Schedule 126	1,105,823	MWh	0.80	mills	\$884,658	0.00	
Schedule 135	1,105,823	MWh	0.53	mills	\$586,086	0.53	
Schedule 136	1,105,823	MWh	0.06	mills	\$66,349	0.06	
Schedule 137	1,105,823	MWh	0.11	mills	\$121,641	0.14	
Schedule 138	1,105,823	MWh	0.00	mills	\$0	0.02	
Schedule 143	1,105,823	MWh	0.00	mills	\$0	0.00	
Schedule 150	1,105,823	MWh	0.22	mills	\$243,281	0.13	
Schedule 151	1,105,823	MWh	0.46	mills	\$508,678	0.46	
Schedule 152	1,105,823	MWh	0.19	mills	\$210,106	0.19	
Schedule 153	1,105,823	MWh	0.01	mills	\$11,058	0.01	
Schedule 112	0	MWh	0.00	mills	\$0	0.00	
Totals	702,543	MWh			\$101,409,735		
Change							
Percent Change							

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

Schedule	Billing	Units	Current		Price	
	Determinant		Price	Revenues		
Schedule 90-P						
Large Non-residential Standard Service						
Monthly Basic Charge	96	bills	\$12,200.00	\$1,171,200.00	\$18,400.00	
Transmission & Related Services Charge						
On-peak	5,479,269	kW	\$2.10	\$11,506,465.70	\$3.44	
Off-peak	4,941	kW	\$0.00	\$0.00	\$0.00	
Distribution Facilities Charge						
First 4,000 kW	384,000	faccap	\$1.79	\$687,360.00	\$0.98	
Over 4,000 kW	5,386,990	faccap	\$1.48	\$7,972,744.82	\$0.67	
Distribution Demand Charge						
On-peak	5,479,269	kW	\$1.49	\$8,164,111.38	\$2.09	
Off-peak	4,941	kW	\$0.00	\$0.00	0	
Reactive Power Charge	1,293,494	kVar	\$0.50	\$646,746.76	\$0.50	
Sch 90 (30-250 MWa)						
System Usage Charge	547,711	MWh	1.98	mills	\$1,084,468.35	2.51
Energy Charge						
On-peak	314,812	MWh	74.76	mills	\$23,535,308.24	36.23
Off-peak	232,900	MWh	59.76	mills	\$13,918,090.85	28.73
Schedule 122	547,711	MWh	0.00	mills	\$0.00	0.00
Schedule 125 On-peak	314,812	MWh	0.00	mills	\$0.00	44.86
Schedule 125 Off-peak	232,900	MWh				37.36
Schedule 145	547,711	MWh	(0.36)	mills	(\$197,176.06)	(0.36)
Schedule 146	547,711	MWh	3.06	mills	\$1,675,996.54	3.06
Schedule 102	0	MWh	(6.79)	mills	\$0.00	(6.79)
Schedule 105	547,711	MWh	(0.51)	mills	(\$279,332.76)	(0.45)
Schedule 109	0	MWh	0.94	mills	\$0.00	0.94
Schedule 109 >1MWa	547,711	MWh	0.94	mills	\$514,848.61	0.94
Schedule 110	0	MWh	0.00	mills	\$0.00	0.00
Schedule 118	240,000	MWh	2.36	mills	\$566,400.00	2.36
Schedule 123	0	MWh	0.62	mills	\$0.00	0.00
Schedule 126	547,711	MWh	0.80	mills	\$438,169.03	0.00
Schedule 135	547,711	MWh	0.50	mills	\$273,855.64	0.45
Schedule 136	547,711	MWh	0.05	mills	\$27,385.56	0.12
Schedule 137	547,711	MWh	0.10	mills	\$54,771.13	0.13
Schedule 138	547,711	MWh	0.00	mills	\$0.00	0.03
Schedule 143	547,711	MWh	0.00	mills	\$0.00	0.00
Schedule 150	547,711	MWh	0.21	mills	\$115,019.37	0.22
Schedule 151	547,711	MWh	0.41	mills	\$224,561.63	0.41
Schedule 152	547,711	MWh	0.18	mills	\$98,588.03	0.18
Schedule 153	547,711	MWh	0.01	mills	\$5,477.11	0.01
Schedule 112	0	MWh	0.00	mills	\$0.00	0.00
Sch 90 (>250 MWa)						
System Usage Charge	3,092,966	MWh	1.98	mills	\$6,124,072	2.51
Energy Charge						
On-peak	1,771,816	MWh	72.97	mills	\$129,297,357	31.34
Off-peak	1,321,149	MWh	57.97	mills	\$76,592,920	23.84
Schedule 122	3,092,966	MWh	0.00	mills	\$0	0.00
Schedule 125 On-peak	1,771,816	MWh	0.00	mills	\$0	44.86
Schedule 125 Off-peak	1,321,149	MWh				37.36
Schedule 145	3,092,966	MWh	(0.36)	mills	(\$1,113,468)	(0.36)
Schedule 146	3,092,966	MWh	3.06	mills	\$9,464,475	3.06
Schedule 102	0	MWh	(6.79)	mills	\$0	(6.79)
Schedule 105	3,092,966	MWh	(0.51)	mills	(\$1,577,412)	(0.45)
Schedule 109	0	MWh	0.94	mills	\$0	0.94
Schedule 109 >1MWa	3,092,966	MWh	0.94	mills	\$2,907,388	0.94
Schedule 110	0	MWh	0.00	mills	\$0	0.00
Schedule 118	960,000	MWh	2.36	mills	\$2,265,600	2.36
Schedule 123	0	MWh	0.62	mills	\$0	0.00
Schedule 126	3,092,966	MWh	0.80	mills	\$2,474,373	0.00
Schedule 135	3,092,966	MWh	0.50	mills	\$1,546,483	0.45
Schedule 136	3,092,966	MWh	0.05	mills	\$154,648	0.12

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

Schedule	Billing Determinant	Units	Current		Price
			Price	Revenues	
Schedule 137	3,092,966	MWh	0.10 mills	\$309,297	0.13
Schedule 138	3,092,966	MWh	0.00 mills	\$0	0.03
Schedule 143	3,092,966	MWh	0.00 mills	\$0	0.00
Schedule 150	3,092,966	MWh	0.21 mills	\$649,523	0.22
Schedule 151	3,092,966	MWh	0.41 mills	\$1,268,116	0.41
Schedule 152	3,092,966	MWh	0.18 mills	\$556,734	0.18
Schedule 153	3,092,966	MWh	0.01 mills	\$30,930	0.01
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Totals	3,640,677	MWh		\$303,156,093	
				Change	
				Percent Change	

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

Schedule	Billing		Current			
	Determinant	Units	Price	Revenues	Price	
Schedule 89 Subtransmission Delivery Voltage						
Large Non-residential Standard Service						
Monthly Basic Charge	36	bills	\$4,950.00	\$178,200	\$5,810.00	
Transmission & Related Services Charge						
On-peak	179,012	kW	\$2.06	\$368,765	\$3.38	
Off-peak	1,255	kW	\$0.00	\$0	\$0.00	
Distribution Facilities Charge						
First 1,000 kW	144,000	faccap	\$1.50	\$216,000	\$1.18	
Over 4,000 kW	77,704	faccap	\$1.19	\$92,468	\$0.87	
Distribution Demand Charge						
On-peak	179,012	kW	\$0.12	\$21,481	\$0.13	
Off-peak	1,255	kW	\$0.00	\$0	\$0.00	
System Usage Charge	38,613	MWh	2.13 mills	\$82,246	2.51	
Reactive Power Charge	30,711	kVar	\$0.50	\$15,356	\$0.50	
Energy Charge						
On-peak	28,075	6,530	MWh	75.58 mills	\$2,121,918	41.09
Mid-peak		21,545	MWh	0.00 mills	\$0	37.09
Off-peak	10,538	10,538	MWh	60.58 mills	\$638,403	31.09
Schedule 122		38,613	MWh	0.00 mills	\$0	0.00
Schedule 125 On-peak		6,530	MWh	0.00 mills	\$0	47.10
Schedule 125 Mid-peak		21,545	MWh			43.10
Schedule 125 Off-peak		10,538	MWh			37.10
Schedule 145		38,613	MWh	(0.39) mills	(\$15,059)	(0.39)
Schedule 146		38,613	MWh	3.28 mills	\$126,652	3.28
Schedule 102		0	MWh	0.00 mills	\$0	0.00
Schedule 105		38,613	MWh	(0.58) mills	(\$22,396)	(0.49)
Schedule 109		4,795	MWh	1.91 mills	\$9,158	1.91
Schedule 109 >1MWa		33,819	MWh	1.91 mills	\$64,593	1.91
Schedule 110		4,795	MWh	0.00 mills	\$0	0.00
Schedule 118		38,613	MWh	2.36 mills	\$91,127	2.36
Schedule 123		4,795	MWh	0.62 mills	\$2,973	0.00
Schedule 126		38,613	MWh	0.80 mills	\$30,891	0.00
Schedule 135		38,613	MWh	0.54 mills	\$20,851	0.53
Schedule 136		38,613	MWh	0.05 mills	\$1,931	0.03
Schedule 137		38,613	MWh	0.10 mills	\$3,861	0.12
Schedule 138		38,613	MWh	0.00 mills	\$0	0.03
Schedule 143		38,613	MWh	0.00 mills	\$0	0.00
Schedule 150		38,613	MWh	0.19 mills	\$7,337	0.05
Schedule 151		38,613	MWh	0.52 mills	\$20,079	0.52
Schedule 152		38,613	MWh	0.12 mills	\$4,634	0.12
Schedule 153		38,613	MWh	0.01 mills	\$386	0.01
Schedule 112		0	MWh	0.00 mills	\$0	0.00
Totals	17,068	MWh		\$4,081,854		
Change						
Percent Change						

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

Schedule	Billing	Units	Current		Price
	Determinant		Price	Revenues	
Schedule 75 Subtransmission Delivery Voltage					
Partial Requirements Service					
Monthly Basic Charge	0	bills	\$4,950.00	\$0	\$5,810.00
Transmission & Related Services Charge					
On-peak	0	kW	\$2.06	\$0	\$3.38
Off-peak	0	kW	\$0.00	\$0	\$0.00
Distribution Facilities Charge					
First 1,000 kW	0	faccap	\$1.50	\$0	\$1.18
Over 4,000 kW	0	faccap	\$1.19	\$0	\$0.87
Distribution Demand Charge					
On-peak	0	kW	\$0.12	\$0	\$0.13
Off-peak	0	kW	\$0.00	\$0	\$0.00
System Usage Charge	0	MWh	2.13 mills	\$0	2.51
Reactive Power Charge	0	kVar	\$0.50	\$0	\$0.50
Energy Charge (Schedule 75 only)					
On-peak	0	MWh	75.58 mills	\$0	41.09
Off-peak	0	MWh	60.58 mills	\$0	31.09
Schedule 122	0	MWh	0.00 mills	\$0	0.00
Schedule 125	0	MWh	0.00 mills	\$0	0.00
Schedule 145	0	MWh	0.00 mills	\$0	0.00
Schedule 146	0	MWh	3.28 mills	\$0	3.28
Schedule 102	0	MWh	0.00 mills	\$0	0.00
Schedule 105	0	MWh	(0.58) mills	\$0	(0.49)
Schedule 109	0	MWh	1.91 mills	\$0	1.91
Schedule 109 >1MWa	0	MWh	1.91 mills	\$0	1.91
Schedule 110	0	MWh	0.00 mills	\$0	0.03
Schedule 118	0	MWh	2.36 mills	\$0	2.36
Schedule 123	0	MWh	0.62 mills	\$0	0.00
Schedule 126	0	MWh	0.80 mills	\$0	0.00
Schedule 135	0	MWh	0.54 mills	\$0	0.53
Schedule 136	0	MWh	0.05 mills	\$0	0.03
Schedule 137	0	MWh	0.10 mills	\$0	0.12
Schedule 138	0	MWh	0.00 mills	\$0	0.03
Schedule 143	0	MWh	0.00 mills	\$0	0.00
Schedule 150	0	MWh	0.19 mills	\$0	0.05
Schedule 151	0	MWh	0.52 mills	\$0	0.52
Schedule 152	0	MWh	0.12 mills	\$0	0.12
Schedule 153	0	MWh	0.01 mills	\$0	0.01
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Totals	0	MWh		\$0	
			Change		
			Percent Change		
Total Subtransmission	17,068	MWh		\$4,081,854	
			Change		
			Percent Change		

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

Schedule	Billing Determinant	Units	Current		Price	
			Price	Revenues		
Schedule 91/95						
Street & Highway Lighting						
Transmission & Related Services Charge	39,825	MWh	4.13	mills	\$164,477	4.77
Distribution Charge	39,825	MWh	64.39	mills	\$2,564,332	70.58
Fixed Charge					\$7,988,694	
Energy Charge	39,825	MWh	64.48	mills	\$2,567,916	30.73
Schedule 122	39,825	MWh	0.00	mills	\$0	0.00
Schedule 125	39,825	MWh	0.00	mills	\$0	38.47
Schedule 145	39,825	MWh	(0.35)	mills	(\$13,939)	(0.35)
Schedule 146	39,825	MWh	2.95	mills	\$117,484	2.95
Schedule 102	0	MWh	0.00	mills	\$0	0.00
Schedule 105	39,825	MWh	(0.52)	mills	(\$20,709)	(0.68)
Schedule 109	39,825	MWh	5.87	mills	\$233,773	5.87
Schedule 109 >1MWa	0	MWh	3.24	mills	\$0	3.24
Schedule 110	39,825	MWh	0.00	mills	\$0	0.00
Schedule 118	39,825	MWh	2.36	mills	\$93,987	2.36
Schedule 123	39,825	MWh	0.62	mills	\$24,692	0.00
Schedule 126	39,825	MWh	0.80	mills	\$31,860	0.00
Schedule 135	39,825	MWh	0.46	mills	\$18,320	0.48
Schedule 136	39,825	MWh	0.09	mills	\$3,584	0.22
Schedule 137	39,825	MWh	0.18	mills	\$7,169	0.22
Schedule 138	39,825	MWh	0.00	mills	\$0	0.03
Schedule 143	39,825	MWh	0.00	mills	\$0	0.00
Schedule 150	39,825	MWh	0.44	mills	\$17,523	0.40
Schedule 151	39,825	MWh	2.61	mills	\$103,943	2.61
Schedule 152	39,825	MWh	1.94	mills	\$77,261	1.94
Schedule 153	39,825	MWh	0.01	mills	\$398	0.02
Schedule 112	0	MWh	0.00	mills	\$0	0.00
Totals	39,825	MWh			\$13,980,764	
Change						
Percent Change						

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

Schedule	Billing Determinant	Units	Current		Price
			Price	Revenues	
Schedule 92					
Traffic Signals					
Transmission & Related Services Charge	2,760	MWh	4.21 mills	\$11,620	5.39
Volumetric Distribution Charge	2,760	MWh	19.05 mills	\$52,578	18.58
Energy Charge	2,760	MWh	68.87 mills	\$190,081	33.15
Schedule 122	2,760	MWh	0.00 mills	\$0	0.00
Schedule 125	2,760	MWh	0.00 mills	\$0	41.83
Schedule 145	2,760	MWh	(0.38) mills	(\$1,049)	(0.38)
Schedule 146	2,760	MWh	3.15 mills	\$8,694	3.15
Schedule 102	0	MWh	0.00 mills	\$0	0.00
Schedule 105	2,760	MWh	(0.59) mills	(\$1,628)	(0.60)
Schedule 109	2,760	MWh	4.11 mills	\$11,344	4.11
Schedule 109 >1MWa	0	MWh	2.83 mills	\$0	2.83
Schedule 110	2,760	MWh	0.00 mills	\$0	0.00
Schedule 118	2,760	MWh	2.36 mills	\$6,514	2.36
Schedule 123	2,760	MWh	0.62 mills	\$1,711	0.00
Schedule 126	2,760	MWh	0.80 mills	\$2,208	0.00
Schedule 135	2,760	MWh	0.52 mills	\$1,435	0.51
Schedule 136	2,760	MWh	0.06 mills	\$166	0.15
Schedule 137	2,760	MWh	0.12 mills	\$331	0.15
Schedule 138	2,760	MWh	0.00 mills	\$0	0.03
Schedule 143	2,760	MWh	0.00 mills	\$0	0.00
Schedule 150	2,760	MWh	0.27 mills	\$745	0.27
Schedule 151	2,760	MWh	0.88 mills	\$2,429	0.88
Schedule 152	2,760	MWh	0.80 mills	\$2,208	0.80
Schedule 153	2,760	MWh	0.01 mills	\$28	0.01
Schedule 112	0	MWh	0.00 mills	\$0	0.00
Totals	2,760	MWh		\$289,414	
Change					
Percent Change					

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

	Billing		Current	
Schedule	Determinant	Units	Price	Revenues
COS & Partial Requirements Revenue Category				
Basic Charge Revenues				\$175,068,237
Transmission & Related Charges				\$111,755,162
Volumetric Distribution Charges				\$651,958,630
Facilities Charges				\$106,319,696
Distribution Demand Charges				\$34,633,917
System Usage Charges				\$47,676,803
Reactive Power Charges				\$1,892,575
Energy Charges				\$1,426,605,063
Schedule 122				\$0
Schedule 125				\$0
Schedule 145				(\$8,562,301)
Schedule 146				\$72,078,307
Schedule 102				(\$50,881,934)
Schedule 105				(\$10,324,250)
Schedule 109				\$99,844,059
Schedule 109 >1MWa				\$6,048,865
Schedule 110				\$0
Schedule 118				\$41,651,285
Schedule 123				\$4,419,604
Schedule 126				\$15,971,593
Schedule 135				\$11,902,155
Schedule 136				\$1,827,073
Schedule 137				\$3,598,279
Schedule 138				\$0
Schedule 143				\$0
Schedule 150				\$7,976,611
Schedule 151				\$44,334,103
Schedule 152				\$32,046,062
Schedule 153				\$200,443
Schedule 112				\$0
Employee Discount				(\$1,031,478)
COS & Partial Requirements Totals				\$2,827,008,557

Proposed
Revenues

	\$106,156,516
	\$35,738,963
mills	\$70,163,850
	\$0
mills	\$567,459,993
	\$0
mills	\$346,404,447
mills	\$0
mills	\$0
mills	\$429,024,351
mills	(\$3,784,118)
mills	\$31,770,822
mills	(\$48,480,131)
mills	\$0
mills	\$0
mills	\$62,122,600
mills	\$0
mills	\$0
	\$18,904,054
mills	\$0
mills	\$0
mills	\$5,360,833
mills	\$2,286,238
mills	\$2,286,238
mills	\$315,343
mills	\$0
mills	\$4,178,297
mills	\$28,065,540
mills	\$20,733,812
mills	\$78,836
mills	\$0
	(\$1,117,866)
	\$1,677,668,620
	\$144,979,031
	9.46%

Proposed
Revenues

mills	\$66,155
mills	\$883,330
	\$2,422,442
mills	\$387,229
mills	\$0
mills	\$500,638
mills	(\$4,410)
mills	\$37,173
mills	(\$10,721)
mills	(\$5,040)
mills	\$73,824
mills	\$69
mills	\$0
mills	\$26,012
mills	\$0
mills	\$0
mills	\$6,048
mills	\$2,772
mills	\$2,772
mills	\$378
mills	\$0
mills	\$5,040
mills	\$32,889
mills	\$24,446
mills	\$252
mills	\$0
	\$4,451,298
	\$284,021
	6.82%

Proposed
Revenues

	\$17,542,104
	\$14,219,172
mills	\$10,986,173
mills	\$100,062,920
mills	\$6,447,676
mills	\$59,178,647
	(\$13,072)
mills	\$0
mills	\$73,129,100
mills	(\$657,031)
mills	\$5,500,726
mills	(\$1,131,423)
mills	(\$702,871)
mills	\$10,572,900
mills	\$359
mills	\$0
mills	\$3,606,032
mills	\$0
mills	\$0
mills	\$916,788
mills	\$412,554
mills	\$397,275
mills	\$45,839
mills	\$0
mills	\$763,990
mills	\$5,103,452
mills	\$3,407,394
mills	\$15,280
mills	\$0
	\$309,803,983
	\$31,241,356
	11.22%

	<u>Proposed</u>
	<u>Revenues</u>

	\$55,800
	\$208,080
mills	\$188,335
mills	\$2,584,684
	\$0
mills	\$254,823
mills	\$492,418
mills	\$269,547
mills	\$0
mills	\$304,916
mills	\$601,311
mills	\$349,010
mills	(\$11,047)
mills	\$93,494
mills	(\$3,346)
mills	(\$14,011)
mills	\$192,883
mills	\$761
mills	\$0
mills	\$63,587
mills	\$0
mills	\$0
mills	\$15,627
mills	\$7,814
mills	\$7,275
mills	\$808
mills	\$0
mills	\$25,866
mills	\$101,307
mills	\$67,628
mills	\$269
mills	\$0
	\$5,857,841
	\$706,288
	13.71%

	<u>Proposed</u>
	<u>Revenues</u>

	\$54,288
	\$560,430
mills	\$159,728
mills	\$651,461
mills	\$2,050,467
	\$0
mills	\$208,143
mills	\$760,285
mills	\$0
mills	\$1,197,959
mills	(\$10,062)
mills	\$84,266
mills	(\$107,097)
mills	(\$10,481)
mills	\$176,916
mills	\$0
mills	\$0
mills	\$49,470
mills	\$0
mills	\$0
mills	\$14,254
mills	\$8,385
mills	\$8,385
mills	\$838
mills	\$0
mills	\$14,883
mills	\$16,769
mills	\$84,895
mills	\$419
mills	\$0
	\$5,974,600
	\$717,517
	13.65%

Proposed
Revenues

	\$2,880
	\$489,960
mills	\$416,419
mills	\$1,362,865
mills	\$5,757,180
	\$0
mills	\$447,789
mills	\$2,213,058
mills	\$0
mills	\$3,291,357
mills	(\$29,408)
mills	\$249,381
mills	(\$294,087)
mills	(\$42,348)
mills	\$437,005
mills	\$0
mills	\$0
mills	\$138,806
mills	\$0
mills	\$0
mills	\$41,760
mills	\$20,586
mills	\$20,586
mills	\$2,353
mills	\$0
mills	\$38,231
mills	\$41,642
mills	\$195,858
mills	\$1,176
mills	\$0
	\$14,803,047
	\$1,789,575
	13.75%

Proposed
Revenues

	\$535,800
	\$7,850,880
	\$30,014,306
	\$0
	\$26,500,781
	\$48,899,604
	\$18,198,329
	\$0
mills	\$29,457,427
	\$450,591
mills	\$19,207,517
mills	\$31,409,284
mills	\$20,027,200
mills	\$0
mills	\$22,942,845
	\$38,456,161
	\$25,866,384
mills	(\$1,195,374)
mills	\$10,046,833
mills	(\$742,892)
mills	(\$2,163,057)
mills	\$14,990,963
mills	\$72,836
mills	\$0
mills	\$6,716,863
mills	\$0
mills	\$0
mills	\$2,390,748
mills	\$597,687
mills	\$569,226
mills	\$113,845
mills	\$0
mills	\$1,878,445
mills	\$5,606,873
mills	\$4,098,425
mills	\$28,461
mills	\$0
	\$362,826,987
	\$39,851,776
	12.34%

Proposed
Revenues

	\$0
	\$13,180,500
	\$18,930,194
	\$0
	\$8,605,200
	\$11,382,059
	\$11,477,790
	\$0
mills	\$6,102,604
	\$425,727
mills	\$12,516,671
mills	\$22,030,310
mills	\$13,869,093
mills	\$0
mills	\$14,910,452
mills	\$26,917,130
mills	\$17,916,069
mills	(\$836,812)
mills	\$7,041,466
mills	(\$103,286)
mills	(\$1,387,883)
mills	\$8,828,639
mills	\$142,373
mills	\$0
mills	\$4,816,771
mills	\$0
mills	\$0
mills	\$1,673,624
mills	\$306,151
mills	\$346,971
mills	\$81,640
mills	\$0
mills	\$857,222
mills	\$2,612,486
mills	\$1,959,364
mills	\$20,410
mills	\$0
	\$204,622,935
	\$18,782,031
	10.11%

Proposed
Revenues

	\$0
	\$1,562,880
	\$5,001,128
	\$0
	\$1,186,944
	\$3,784,960
	\$3,038,476
	\$0
mills	\$2,127,589
	\$124,704
mills	\$4,486,619
mills	\$6,990,232
mills	\$5,261,404
mills	\$0
mills	\$5,343,070
mills	\$8,540,166
mills	\$6,801,122
mills	(\$273,136)
mills	\$2,300,097
mills	(\$8,951)
mills	(\$488,771)
mills	\$2,129,831
mills	\$364,089
mills	\$0
mills	\$1,696,321
mills	\$0
mills	\$0
mills	\$309,075
mills	\$79,066
mills	\$107,817
mills	\$21,563
mills	\$0
mills	\$194,071
mills	\$625,339
mills	\$524,710
mills	\$7,188
mills	\$0
	\$61,837,602
	\$5,404,617
	9.58%

<u>Proposed</u>
<u>Revenues</u>

	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
mills	\$0
	\$0
mills	\$0
	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
	\$0
	\$0

<u>Proposed</u>	
<u>Revenues</u>	
	\$1,319,310
	\$7,029,433
	\$0
	\$1,527,960
	\$850,699
	\$4,270,789
	\$0
mills	\$2,808,790
	\$229,451
mills	\$9,850,818
mills	\$15,118,964
mills	\$14,646,519
mills	\$0
mills	\$11,294,370
mills	\$17,570,906
mills	\$17,474,427
mills	(\$420,213)
mills	\$3,560,749
mills	\$0
mills	(\$541,853)
mills	\$64,224
mills	\$1,981,548
mills	\$0
mills	\$2,609,742
mills	\$0
mills	\$0
mills	\$586,086
mills	\$66,349
mills	\$154,815
mills	\$22,116
mills	\$0
mills	\$143,757
mills	\$508,678
mills	\$210,106
mills	\$11,058
mills	\$0
	\$112,949,599
	\$11,539,864
	11.38%

Proposed
Revenues

	\$1,766,400.00
	\$18,848,686.68
	\$0.00
	\$376,320.00
	\$3,609,283.13
	\$11,451,673.01
	\$0.00
	\$646,746.76
mills	\$1,374,755.33
mills	\$11,405,620.89
mills	\$6,691,210.68
mills	\$0.00
mills	\$14,122,444.19
	\$8,701,135.78
mills	(\$197,176.06)
mills	\$1,675,996.54
mills	\$0.00
mills	(\$246,470.08)
mills	\$0.00
mills	\$514,848.61
mills	\$0.00
mills	\$566,400.00
mills	\$0.00
mills	\$0.00
mills	\$246,470.08
mills	\$65,725.35
mills	\$71,202.47
mills	\$16,431.34
mills	\$0.00
mills	\$120,496.48
mills	\$224,561.63
mills	\$98,588.03
mills	\$5,477.11
mills	\$0.00
mills	\$7,763,344
mills	\$55,528,727
mills	\$31,496,198
mills	\$0
mills	\$79,483,686
	\$49,358,135
mills	(\$1,113,468)
mills	\$9,464,475
mills	\$0
mills	(\$1,391,835)
mills	\$0
mills	\$2,907,388
mills	\$0
mills	\$2,265,600
mills	\$0
mills	\$0
mills	\$1,391,835
mills	\$371,156

Proposed	
Revenues	
mills	\$402,086
mills	\$92,789
mills	\$0
mills	\$680,452
mills	\$1,268,116
mills	\$556,734
mills	\$30,930
mills	\$0
	\$322,713,174
	\$19,557,081
	6.45%

<u>Proposed</u>	
<u>Revenues</u>	
	\$209,160
	\$605,061
	\$0
	\$169,920
	\$67,602
	\$23,272
	\$0
mills	\$96,919
	\$15,356
mills	\$268,319
	\$799,108
mills	\$327,632
mills	\$0
mills	\$307,564
	\$928,594
	\$390,966
mills	(\$15,059)
mills	\$126,652
mills	\$0
mills	(\$18,921)
mills	\$9,158
mills	\$64,593
mills	\$0
mills	\$91,127
mills	\$0
mills	\$0
mills	\$20,465
mills	\$1,158
mills	\$4,634
mills	\$1,158
mills	\$0
mills	\$1,931
mills	\$20,079
mills	\$4,634
mills	\$386
mills	\$0
	\$4,521,468
	\$439,614
	10.77%

Proposed
Revenues

	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
	\$0
mills	\$0
	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
	\$0
	\$0
	\$4,521,468
	\$439,614
	10.77%

Proposed
Revenues

mills	\$189,965		
mills	\$2,810,849		
	\$8,310,931		
mills	\$1,223,822		
mills	\$0		
mills	\$1,532,068		
mills	(\$13,939)		
mills	\$117,484		
mills	\$0		
mills	(\$27,081)	(0.68)	9,864
mills	\$233,773		29,961
mills	\$0		
mills	\$0		
mills	\$93,987		
mills	\$0		
mills	\$0		
mills	\$19,116		
mills	\$8,762		
mills	\$8,762		
mills	\$1,195		
mills	\$0		
mills	\$15,930		
mills	\$103,943		
mills	\$77,261		
mills	\$797		
mills	\$0		
	\$14,707,622		
	\$726,859		
	5.20%		

Proposed
Revenues

mills	\$14,876
mills	\$51,281
mills	\$91,494
mills	\$0
mills	\$115,451
mills	(\$1,049)
mills	\$8,694
mills	\$0
mills	(\$1,656)
mills	\$11,344
mills	\$0
mills	\$0
mills	\$6,514
mills	\$0
mills	\$0
mills	\$1,408
mills	\$414
mills	\$414
mills	\$83
mills	\$0
mills	\$745
mills	\$2,429
mills	\$2,208
mills	\$28
mills	\$0
	\$304,676
	\$15,263
	5.27%

Proposed

Revenues

mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
mills	\$0
	\$0
	\$0

Proposed	
Revenues	
\$201,453,123	\$0.0
\$162,614,310	\$0.0
\$700,856,076	\$0.0
\$106,961,332	\$0.0
\$48,460,330	(\$0.0)
\$49,731,429	
\$1,892,575	\$0.0
\$693,850,075	\$0.0
\$0	\$0.0
\$877,371,786	\$0.0
(\$8,562,301)	(\$0.0)
\$72,078,307	\$0.0
(\$50,881,934)	\$0.0
(\$7,042,277)	\$0.0
\$99,844,059	\$0.0
\$6,048,865	\$0.0
\$0	\$0.0
\$41,651,285	\$0.0
\$0	\$0.0
\$0	\$0.0
\$12,994,137	\$0.0
\$4,234,816	\$0.0
\$4,388,456	\$0.0
\$716,381	\$0.0
\$0	\$0.0
\$8,919,355	(\$0.0)
\$44,334,103	(\$0.0)
\$32,046,062	\$0.0
\$200,967	(\$0.0)
\$0	\$0.0
(\$1,117,866)	\$0.0
\$3,103,043,451	\$0.0

**PORTLAND GENERAL ELECTRIC
MARGINAL COSTS FOR DISTRIBUTION & CONSUMER SERVICES**

Grouping	DISTRIBUTION SERVICES									
	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)	
			Single-Phase	Three-Phase	Single-Phase	Three-Phase	Single-Phase	Three-Phase	Single-Phase	Three-Phase
SCH 7 Residential	\$1.33	\$15.88	\$40.80	\$40.80	\$52.10	\$52.10	\$116.40	\$154.70	\$21.08	\$47.38
SCH 15 Outdoor Area Lighting										
Residential	\$1.33	\$15.88	\$43.89		\$52.03		\$3.28			
Commercial	\$1.33	\$15.88	\$43.89		\$52.03		\$3.28			
SCH 32 General Service <30 kW	\$1.33	\$15.88	\$50.12	\$50.12	\$78.67	\$21.01	\$232.99	\$317.24	\$43.59	\$61.01
SCH 38 Opt TOD G.S. > 30 kW	\$1.33	\$15.88	\$52.07	\$52.07	\$93.12	\$23.35	\$224.52	\$745.21	\$50.04	\$100.38
SCH 47 Irrig. & Drain. Pump.< 30 kW	\$1.33	\$15.88	\$50.12	\$50.12	\$73.97	\$19.75	\$34.20	\$50.84	\$50.54	\$70.05
SCH 49 Irrig. & Drain. Pump.> 30 kW	\$1.33	\$15.88	\$52.07	\$52.07	\$89.70	\$22.49	\$317.26	\$317.27	\$50.54	\$60.83
SCH 83										
Secondary	\$1.33	\$15.88	\$52.07	\$52.07	\$93.12	\$23.35	\$516.67	\$1,282.21	\$50.54	\$105.82
SCH 85										
Secondary	\$1.33	\$15.88		\$42.18		\$7.37		\$2,893.64		\$113.81
Primary	\$1.33	\$15.88		\$42.18		\$7.37				\$1,795.89
SCH 89										
Secondary	\$1.33	\$15.88		\$104,332.00						\$113.81
Primary	\$1.33	\$15.88		\$104,332.00						\$1,896.75
Subtransmission	\$1.33	N/A		\$93,301.00						\$17,623.44
SCH 90 Primary	\$1.33	\$15.88		\$491,171.00						\$1,896.75
SCH 91 & 95 Street & Highway Light	\$1.33	\$15.88	\$43.89		\$54.88		\$3.28			
SCH 92 Traffic Signals	\$1.33	\$15.88		\$43.89		\$19.25	\$6.33			

Con- sumer Service (Lights)	CONSUMER SERVICES							
	Metering		Billing		Other		Uncollectibles	
	By Consumer Type (\$ per Cons/Light)		By Consumer Type (\$ per Cons/Light)		By Consumer Type (\$ per Cons/Light)		By Consumer Type Percent	
	Single- Phase	Three- Phase	Single- Phase	Three- Phase	Single- Phase	Three- Phase	Single- Phase	Three- Phase
	\$0.25	\$0.25	\$22.59	\$22.59	\$37.16	\$37.16	88.83%	0.00%
\$1.53			\$1.79		\$0.83		0.16%	
\$1.53			\$1.38		\$0.83		0.20%	
	\$0.50	\$0.50	\$20.75	\$20.75	\$72.23	\$72.23	3.99%	2.77%
	\$1.99	\$1.99	\$20.41	\$20.41	\$453.23	\$453.23	0.00%	0.00%
	\$0.68	\$0.68	\$18.38	\$18.38	\$81.49	\$81.49	0.01%	0.06%
	\$0.77	\$0.77	\$24.96	\$24.96	\$422.68	\$422.68	0.00%	0.24%
	\$1.55	\$1.55	\$30.19	\$30.19	\$651.31	\$651.31	0.24%	2.87%
	\$2.80	\$2.80	\$36.47	\$36.47	\$2,380.21	\$2,380.21		0.56%
	\$2.80	\$2.80	\$36.47	\$36.47	\$2,380.21	\$2,380.21		0.08%
	N/A	\$0.15	N/A	\$18.65	N/A	\$17,382.70		0.00%
	N/A	\$0.15	N/A	\$18.65	N/A	\$17,382.70		0.00%
	N/A	\$0.15		\$18.65	N/A	\$17,382.70		0.00%
		\$0.15		\$20.14		\$80,922.59		0.00%
\$1.53			\$149.74		\$0.83		0.00%	
			\$142.95		\$0.83			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	\$1.33	\$15.88	\$40.80	\$52.10	\$116.40	\$21.08	\$60.00
Three-phase	\$1.33	\$15.88	\$40.80	\$52.10	\$154.70	\$47.38	\$60.00
Schedule 15 Residential	\$1.33	\$15.88	\$43.89	\$52.03	\$3.28	N/A	\$2.62
Schedule 15 Commercial	\$1.33	\$15.88	\$43.89	\$52.03	\$3.28	N/A	\$2.21
Schedule 32 General Service							
Single-phase	\$1.33	\$15.88	\$50.12	\$78.67	\$232.99	\$43.59	\$93.48
Three-phase	\$1.33	\$15.88	\$50.12	\$21.01	\$317.24	\$61.01	\$93.48
Schedule 38 TOU							
Single-phase	\$1.33	\$15.88	\$52.07	\$93.12	\$224.52	\$50.04	\$475.63
Three-phase	\$1.33	\$15.88	\$52.07	\$23.35	\$745.21	\$100.38	\$475.63
Schedule 47 Irrigation							
Single-phase	\$1.33	\$15.88	\$50.12	\$73.97	\$34.20	\$50.54	\$100.55
Three-phase	\$1.33	\$15.88	\$50.12	\$19.75	\$50.84	\$70.05	\$100.55
Schedule 49 Irrigation							
Single-phase	\$1.33	\$15.88	\$52.07	\$89.70	\$317.26	\$50.54	\$448.41
Three-phase	\$1.33	\$15.88	\$52.07	\$22.49	\$317.27	\$60.83	\$448.41
Schedule 83 Secondary General Service							
Single-phase	\$1.33	\$15.88	\$52.07	\$93.12	\$516.67	\$50.54	\$683.05
Three-phase	\$1.33	\$15.88	\$52.07	\$23.35	\$1,282.21	\$105.82	\$683.05
Schedule 85 Secondary General Service	\$1.33	\$15.88	\$42.18	\$7.37	\$2,893.64	\$113.81	\$2,419.48
Schedule 85 Primary General Service	\$1.33	\$15.88	\$42.18	\$7.37	\$0.00	\$1,795.89	\$2,419.48
Schedule 89 Secondary	\$1.33	\$15.88	\$104,332	N/A	\$0.00	\$113.81	\$17,401.50
Schedule 89 Primary	\$1.33	\$15.88	\$104,332	N/A	\$0.00	\$1,896.75	\$17,401.50
Schedule 89 Subtransmission	\$1.33	N/A	\$93,301	N/A	N/A	\$17,623.44	\$17,401.50
Schedule 90 Primary	\$1.33	\$15.88	\$491,171.00	N/A	\$0.00	\$1,896.75	\$80,942.88
Schedules 91 & 95 Streetlighting	\$1.33	\$15.88	\$43.89	\$54.88	\$3.28	N/A	\$150.57
Schedules 92 Traffic Signals	\$1.33	\$15.88	\$43.89	\$19.25	\$6.33	N/A	\$143.78

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF GENERATION REVENUE REQUIREMENT TO COS CUSTOMERS
2025**

Schedules	COS Calendar Energy	Marginal Energy Costs (\$000)	Marginal Energy Allocation	Marginal Capacity Costs (\$000)	Marginal Capacity Allocation	Marginal Energy & Capacity Costs (\$000)	Energy & Capacity Allocation Percent	Allocation of Load Following Adjs. (\$000)	Allocated Fixed Generation Costs (\$000)	Cycle Fixed Generation Costs (\$000)
Schedule 7	7,904,773	\$601,760	40.0%	\$471,702	51.58%	\$1,073,462	44.35%	\$6,372	\$347,312	\$346,381
Schedule 15	12,601	\$830	0.1%	\$419	0.05%	\$1,249	0.05%	\$0	\$397	\$397
Schedule 32	1,527,693	\$115,870	7.7%	\$66,578	7.28%	\$182,448	7.54%	\$1,227	\$59,174	\$59,185
Schedule 38	26,939	\$2,067	0.1%	\$1,065	0.12%	\$3,132	0.13%	\$22	\$1,017	\$1,017
Schedule 47	21,230	\$1,803	0.1%	\$1,225	0.13%	\$3,028	0.13%	\$19	\$981	\$968
Schedule 49	58,568	\$4,937	0.3%	\$3,241	0.35%	\$8,178	0.34%	\$52	\$2,650	\$2,661
Schedule 83	2,847,136	\$216,220	14.4%	\$118,943	13.01%	\$335,163	13.85%	\$2,290	\$108,740	\$108,702
Schedule 85	2,765,116	\$208,170	13.8%	\$101,145	11.06%	\$309,315	12.78%	\$2,204	\$100,445	\$100,252
Schedule 89/75	1,148,574	\$84,291	5.6%	\$35,849	3.92%	\$120,140	4.96%	\$3,000	\$41,157	\$41,009
Schedule 90	3,655,705.407	\$266,998	17.7%	\$112,977	12.36%	\$379,976	15.70%	(\$15,187)	\$105,497	\$105,063
Schedule 91/95	39,825	\$2,624	0.2%	\$1,199	0.13%	\$3,823	0.16%	\$0	\$1,214	\$1,214
Schedule 92	2,760	\$205	0.0%	\$83	0.01%	\$288	0.01%	\$0	\$92	\$92
TOTAL	20,010,920	\$1,505,775	100.0%	\$914,426	100.0%	\$2,420,201	100.00%	\$0	\$768,675	\$766,940
4-Hour Battery				\$229.70			TARGET		\$768,675	
Projected Peak Load				3,981						
Marginal Capacity Costs (\$000)				\$914,426						

Load Following/Integration Allocation

Schedule	Calendar MWh	Generation Allocation	Adjusted Allocation	Load follow Allocation	Load follow Price	Transfer Payment	Cycle MWh
Sch 7	7,904,773	40.0%	52.29%	\$6,372,301	0.81	\$6,372,301	7,883,579
Sch 15	12,601			\$0	0.00	\$0	12,601
Sch 32	1,527,693	7.7%	10.07%	\$1,227,001	0.80	\$1,227,001	1,527,980
Sch 38	26,939	0.1%	0.18%	\$21,891	0.81	\$21,891	26,943
Sch 47	21,230	0.1%	0.16%	\$19,094	0.90	\$19,094	20,962
Sch 49	58,568	0.3%	0.43%	\$52,276	0.89	\$52,276	58,816
Sch 83	2,847,136	14.4%	18.79%	\$2,289,647	0.80	\$2,289,647	2,846,128
Sch 85	2,765,116	13.8%	18.09%	\$2,204,401	0.80	\$2,204,401	2,759,785
Sch 89/75	1,148,574	5.6%		\$3,000,000	2.61	\$3,000,000	1,144,436
Schedule 90-P 30-250 Mwa	550,059			\$0	0.00	\$0	547,711
Schedule 90-P >250 Mwa	3,105,646			(\$15,186,611)	(4.89)	(\$15,186,611)	3,092,966
Sch 91/95	39,825			\$0	0.00	\$0	39,825
Sch 92	2,760			\$0	0.00	\$0	2,760
Totals	20,010,920	76.43%	100.00%	(\$0)		(\$0)	19,964,492

Load Following Allocation:

MWh	3,105,646
Price (mills/kWh)	4.8900
Allocation	\$15,186,611
Schedule 89 Allocation	\$3,000,000
Remaining Allocation	\$12,186,611

Load following price development

2.39

2.12 multiplier

1.21

Cycle
Revenues
\$6,355,216
\$0
\$1,227,231
\$21,894
\$18,853
\$52,498
\$2,288,836
\$2,200,151
\$2,989,191
\$0
(\$15,124,602)
\$0
\$0
\$29,268

Fixed and NVPC Prices

Schedule	Calendar MWh	Generation Allocation	Generation Fixed	NVPC	Fixed mills/kWh	Fixed Revenues	NVPC mills/kWh	Fixed + NVPC mills/kWh	Calendar NVPC Revenues	Calendar Total Revenues
Sch 7	7,904,773	44.35%	\$340,939,988	\$430,189,637	43.13	\$340,932,848	54.42	97.55	\$430,177,732	\$771,110,580
Sch 15	12,601	0.05%	\$396,810	\$500,685	31.49	\$396,805	39.73	71.22	\$500,638	\$897,443
Sch 32	1,527,693	7.54%	\$57,947,071	\$73,116,179	37.93	\$57,945,393	47.86	85.79	\$73,115,384	\$131,060,777
Sch 38	26,939	0.13%	\$994,691	\$1,255,077	36.92	\$994,591	46.59	83.51	\$1,255,093	\$2,249,684
Sch 47	21,230	0.13%	\$961,620	\$1,213,348	45.30	\$961,711	57.15	102.45	\$1,213,285	\$2,174,996
Sch 49	58,568	0.34%	\$2,597,280	\$3,277,184	44.35	\$2,597,479	55.96	100.31	\$3,277,450	\$5,874,929
Sch 83	2,847,136	13.85%	\$106,450,403	\$134,316,483	37.39	\$106,454,430	47.18	84.57	\$134,327,895	\$240,782,325
Sch 85-S	2,043,363	9.47%	\$72,795,682	\$91,851,789	35.63	\$72,805,026	44.95	80.58	\$91,849,170	\$164,654,197
Sch 85-P	721,753	3.31%	\$25,445,247	\$32,106,182	35.25	\$25,441,790	44.48	79.73	\$32,103,569	\$57,545,359
Sch 89-S	0	0.00%	\$0	\$0	33.60	\$0	42.39	75.99	\$0	\$0
Sch 89-P	1,109,869	4.80%	\$36,884,833	\$46,540,369	33.23	\$36,880,939	41.93	75.16	\$46,536,797	\$83,417,736
Sch 89-T/75-T	38,706	0.17%	\$1,272,443	\$1,605,537	32.87	\$1,272,251	41.48	74.35	\$1,605,506	\$2,877,757
Sch 90-P	3,655,705	15.70%	\$120,683,321	\$152,275,227	33.01	\$120,674,836	41.65	74.66	\$152,260,130	\$272,934,966
Sch 91/95	39,825	0.16%	\$1,214,073	\$1,531,887	30.49	\$1,214,264	38.47	68.96	\$1,532,068	\$2,746,332
Sch 92	2,760	0.01%	\$91,504	\$115,457	33.15	\$91,494	41.83	74.98	\$115,451	\$206,945
Totals	20,010,920	100.00%	\$768,674,964	\$969,895,043	38.41	\$768,663,858	48.47			

UE 416 Compliance

NVPC mills/kWh	NVPC Incr. mills/kWh	2025 Incremental NVPC Revenues
54.28	0.14	\$1,106,668
39.25	0.48	\$6,048
48.39	(0.53)	-\$809,677
46.68	(0.09)	-\$2,425
54.05	3.10	\$65,812
57.00	(1.04)	-\$60,910
47.50	(0.32)	-\$911,084
45.57	(0.62)	-\$1,266,885
45.10	(0.62)	-\$447,487
43.05	(0.66)	\$0
42.58	(0.65)	-\$721,415
42.12	(0.64)	-\$24,772
42.17	(0.52)	-\$1,900,967
39.88	(1.41)	-\$56,153
42.42	(0.59)	-\$1,628
\$ 974,895,041		-\$5,024,873

Category	Rev. Req.	Percent	Agg. Lighting	30.66
Fixed	\$768,675	44.21%		
Variable	\$969,895	55.79%		
Total	\$1,738,570	100.00%		

Busbar Loads

Sch 85-S	2,174,220
Sch 85-P	759,984
Sch 89-S	0
Sch 89-P	1,168,659
Sch 89-T	40,316
Totals	4,143,179

2024 Sch 122 Price
(NVPC bene.)
mills/kWh

5.35
3.92
4.65
4.40
4.31
4.29
4.04
4.34
3.91
3.98
3.94
4.13
3.78
3.92
4.18

**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	1,600.2	\$87.34	\$139,759	47.91%	\$66,702
Schedule 15	1.5	\$87.34	\$130	0.04%	\$62
Schedule 32	249.4	\$87.34	\$21,782	7.47%	\$10,396
Schedule 38	4.3	\$87.34	\$373	0.13%	\$178
Schedule 47	3.6	\$87.34	\$314	0.11%	\$150
Schedule 49	9.4	\$87.34	\$817	0.28%	\$390
Schedule 83	458.7	\$87.34	\$40,067	13.73%	\$19,123
Schedule 85	403.8	\$87.34	\$35,265	12.09%	\$16,831
Schedule 89	149.0	\$87.34	\$13,010	4.46%	\$6,209
Schedule 90-P	455.8	\$87.34	\$39,809	13.65%	\$18,999
Schedules 91/95	4.3	\$87.34	\$373	0.13%	\$178
Schedule 92	0.3	\$87.34	\$29	0.01%	\$14
Totals	3,340.1		\$291,728		
Target				100.00%	\$139,231
Unit Marginal Cost \$/kW		\$87.34			

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF ANCILLARY SERVICE REVENUE REQUIREMENT
2025**

Schedules	Production Allocation Percent	Class Revenue Requirement
Schedule 7	44.35%	\$3,465
Schedule 15	0.05%	\$4
Schedule 32	7.54%	\$589
Schedule 38	0.13%	\$10
Schedule 47	0.13%	\$10
Schedule 49	0.34%	\$26
Schedule 83	13.85%	\$1,082
Schedule 85	12.78%	\$999
Schedule 89	4.96%	\$388
Schedule 90-P	15.70%	\$1,227
Schedules 91/95	0.16%	\$12
Schedule 92	0.01%	\$1
TOTAL	100.00%	\$7,813
	TARGET	\$7,813

ALLOCATION OF TRANSITION ADJUSTMENT

Schedules	Cycle Energy	Percent	Allocations (\$000)	mills/kWh
Schedule 7	7,883,579	35.1%	\$416	0.05
Schedule 15	12,601	0.1%	\$1	0.05
Schedule 32	1,527,980	6.8%	\$81	0.05
Schedule 38	26,943	0.1%	\$1	0.05
Schedule 47	20,962	0.1%	\$1	0.05
Schedule 49	58,816	0.3%	\$3	0.05
Schedule 83	2,846,128	12.7%	\$150	0.05
Schedule 85-S	2,479,356	11.0%	\$131	0.05
Schedule 89-S	0	0.0%	\$0	0.05
Schedule 85-P	997,664	4.4%	\$53	0.05
Schedule 89-P	2,663,295	11.9%	\$141	0.05
Schedule 89-T/75-T	243,324	1.1%	\$13	0.05
Schedule 90-P	3,640,677	16.2%	\$192	0.05
Schedules 91/95	39,825	0.2%	\$2	0.05
Schedule 92	2,760	0.0%	\$0	0.05
TOTAL	22,443,910	100.00%	\$1,185	0.05
		TARGET	\$1,185	

PORTLAND GENERAL ELECTRIC

2025 Projection of Schedule 485/489 Loads & Schedule 129 Revenues

Vintage	Schedules & Vintages	Meter MWa	Cycle Meter MWH	Demand kW	Schedule 129 Part A mills/kWh	Schedule 129 Part B \$/kW	Schedule 129 Revenues (\$000)
2021	Schedule 485-S						\$0
2021	Schedule 485-P	1.5	13,173		33.24		\$438
2021	Schedule 489-S						\$0
2021	Schedule 489-P						\$0
2021	Schedule 489-T						\$0
2021	Schedule 490						\$0
2021	Schedule 491/492/495						\$0
2022	Schedule 485-S						\$0
2022	Schedule 485-P						\$0
2022	Schedule 489-S						\$0
2022	Schedule 489-P						\$0
2022	Schedule 489-T						\$0
2022	Schedule 490						\$0
2022	Schedule 491/492/495						\$0
2023	Schedule 485-S	0.5	4,351	11,778	(10.75)	5.17	\$14
2023	Schedule 485-P						\$0
2023	Schedule 489-S						\$0
2023	Schedule 489-P						\$0
2023	Schedule 489-T						\$0
2023	Schedule 490						\$0
2023	Schedule 491/492/495						\$0
2024	Schedule 485-S						\$0
2024	Schedule 485-P						\$0
2024	Schedule 489-S						\$0
2024	Schedule 489-P	10.9	95,334		(\$17.17)		(\$1,637)
2024	Schedule 489-T						\$0
2024	Schedule 490						\$0
2024	Schedule 491/492/495						\$0
2025	Schedule 485-S						\$0
2025	Schedule 485-P						\$0

2025	Schedule 489-S	\$0
2025	Schedule 489-P	\$0
2025	Schedule 489-T	\$0
2025	Schedule 490	\$0
2025	Schedule 491/492/495	\$0

Total	12.9	112,857	11,778	(\$1,185)
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Schedules & Vintages	Meter MWa	Cycle Meter MWH	Schedule 139 mills/kWh	Schedule 139 Revenues (\$000)
Schedule 689-S	0	0	7.48	\$0
Schedule 689-P V2019	0.0	0	7.40	\$0
Schedule 689-T	0.0	0	7.34	\$0
Total				\$0

Schedule 485	\$452
Schedule 489	(\$1,637)
Schedule 490	\$0
Schedule 491/492/495	\$0
Schedule 689	\$0

Schedule 129 Transition Adjustments

Vintage	Schedule	Total								
		Fixed Gen Current	Sch 122 Current	Sch 146 Current	Sch 135 Current	Sch 138 Not included	Fixed Gen. Current	Fixed Gen. Proposed	Sch 122 Proposed	Sch 146 Proposed
2021	Schedule 85-S Fixed Generation	28.22	0.00	3.45	0.57	0.00	32.24	35.63	0.00	3.45
2021	Schedule 85-P Fixed Generation	27.93	0.00	3.20	0.53	0.00	31.66	35.25	0.00	3.20
2021	Schedule 89-S Fixed Generation	26.66	0.00	3.26	0.54	0.00	30.46	33.60	0.00	3.26
2021	Schedule 89-P Fixed Generation	26.37	0.00	3.22	0.53	0.00	30.12	33.23	0.00	3.22
2021	Schedule 89-T Fixed Generation	26.08	0.00	3.28	0.54	0.00	29.90	32.87	0.00	3.28
2021	Schedule 90 Fixed Generation	26.11	0.00	3.06	0.50	0.00	29.67	33.01	0.00	3.06
2021	Schedule 91/92/95 Fixed Generat	24.69	0.00	2.95	0.46	0.00	28.10	30.49	0.00	2.95
2022	Schedule 85-S Fixed Generation	28.22	0.00	3.45	0.57	0.00	32.24	35.63	0.00	3.45
2022	Schedule 85-P Fixed Generation	27.93	0.00	3.20	0.53	0.00	31.66	35.25	0.00	3.20
2022	Schedule 89-S Fixed Generation	26.66	0.00	3.26	0.54	0.00	30.46	33.60	0.00	3.26
2022	Schedule 89-P Fixed Generation	26.37	0.00	3.22	0.53	0.00	30.12	33.23	0.00	3.22
2022	Schedule 89-T Fixed Generation	26.08	0.00	3.28	0.54	0.00	29.90	32.87	0.00	3.28
2022	Schedule 90 Fixed Generation	26.11	0.00	3.06	0.50	0.00	29.67	33.01	0.00	3.06
2022	Schedule 91/92/95 Fixed Generat	24.69	0.00	2.95	0.46	0.00	28.10	30.49	0.00	2.95
2023	Schedule 85-S Fixed Generation	28.22	0.00	3.45	0.57	0.00	32.24	35.63	0.00	3.45
2023	Schedule 85-P Fixed Generation	27.93	0.00	3.20	0.53	0.00	31.66	35.25	0.00	3.20
2023	Schedule 89-S Fixed Generation	26.66	0.00	3.26	0.54	0.00	30.46	33.60	0.00	3.26
2023	Schedule 89-P Fixed Generation	26.37	0.00	3.22	0.53	0.00	30.12	33.23	0.00	3.22
2023	Schedule 89-T Fixed Generation	26.08	0.00	3.28	0.54	0.00	29.90	32.87	0.00	3.28
2023	Schedule 90 Fixed Generation	26.11	0.00	3.06	0.50	0.00	29.67	33.01	0.00	3.06
2023	Schedule 91/92/95 Fixed Generat	24.69	0.00	2.95	0.46	0.00	28.10	30.49	0.00	2.95
2024	Schedule 85-S Fixed Generation	28.22	0.00	3.45	0.57	0.00	32.24	35.63	0.00	3.45
2024	Schedule 85-P Fixed Generation	27.93	0.00	3.20	0.53	0.00	31.66	35.25	0.00	3.20
2024	Schedule 89-S Fixed Generation	26.66	0.00	3.26	0.54	0.00	30.46	33.60	0.00	3.26
2024	Schedule 89-P Fixed Generation	26.37	0.00	3.22	0.53	0.00	30.12	33.23	0.00	3.22
2024	Schedule 89-T Fixed Generation	26.08	0.00	3.28	0.54	0.00	29.90	32.87	0.00	3.28
2024	Schedule 90 Fixed Generation	26.11	0.00	3.06	0.50	0.00	29.67	33.01	0.00	3.06
2024	Schedule 91/92/95 Fixed Generat	24.69	0.00	2.95	0.46	0.00	28.10	30.49	0.00	2.95
2025	Schedule 85-S Fixed Generation	28.22	0.00	3.45	0.57	0.00	32.24	35.63	0.00	3.45
2025	Schedule 85-P Fixed Generation	27.93	0.00	3.20	0.53	0.00	31.66	35.25	0.00	3.20

2025	Schedule 89-S Fixed Generation	26.66	0.00	3.26	0.54	0.00	30.46	33.60	0.00	3.26
2025	Schedule 89-P Fixed Generation	26.37	0.00	3.22	0.53	0.00	30.12	33.23	0.00	3.22
2025	Schedule 89-T Fixed Generation	26.08	0.00	3.28	0.54	0.00	29.90	32.87	0.00	3.28
2025	Schedule 90 Fixed Generation	26.11	0.00	3.06	0.50	0.00	29.67	33.01	0.00	3.06
2025	<u>Schedule 91/92/95 Fixed Generat</u>	<u>24.69</u>	<u>0.00</u>	<u>2.95</u>	<u>0.46</u>	<u>0.00</u>	<u>28.10</u>	<u>30.49</u>	<u>0.00</u>	<u>2.95</u>

Sch 135	Sch 138	Total Fixed Gen.	Schedule 129	Current	Sch 129 Part A Effective	Sch 129
Proposed	Proposed	Proposed	Increment	Schedule 129 5yr	GRC 5yr	Part B
0.82	0.04	39.94	7.70	26.19	33.89	0.00
0.43	0.03	38.91	7.25	25.99	33.24	0.00
0.54	0.02	37.42	6.96	23.28	30.24	
0.53	0.02	37.00	6.88	23.07	29.95	
0.53	0.03	36.71	6.81	23.55	30.36	
0.45	0.03	36.55	6.88	22.38	29.26	
0.48	0.03	33.95	5.85	21.79	27.64	
0.82	0.04	39.94	7.70	9.95	17.65	0.00
0.43	0.03	38.91	7.25	9.70	16.95	0.00
0.54	0.02	37.42	6.96	7.02	13.98	
0.53	0.02	37.00	6.88	7.12	14.00	
0.53	0.03	36.71	6.81	7.14	13.95	
0.45	0.03	36.55	6.88	6.58	13.46	
0.48	0.03	33.95	5.85	7.29	13.14	
0.82	0.04	39.94	7.70	(18.45)	(10.75)	5.17
0.43	0.03	38.91	7.25	(16.77)	(9.52)	5.15
0.54	0.02	37.42	6.96	(6.29)	0.67	
0.53	0.02	37.00	6.88	(6.51)	0.37	
0.53	0.03	36.71	6.81	(6.93)	(0.12)	
0.45	0.03	36.55	6.88	(7.34)	(0.46)	
0.48	0.03	33.95	5.85	(7.06)	(1.21)	
0.82	0.04	39.94	7.70	(46.69)	(38.99)	10.12
0.43	0.03	38.91	7.25	(42.69)	(35.44)	10.01
0.54	0.02	37.42	6.96	(24.31)	(17.35)	
0.53	0.02	37.00	6.88	(24.05)	(17.17)	
0.53	0.03	36.71	6.81	(25.39)	(18.58)	
0.45	0.03	36.55	6.88	(24.17)	(17.29)	
0.48	0.03	33.95	5.85	(21.01)	(15.16)	
0.82	0.04	39.94	7.70	0.00	N/A	\$9.86
0.43	0.03	38.91	7.25	0.00	N/A	\$11.27

0.54	0.02	37.42	6.96	0.00	N/A
0.53	0.02	37.00	6.88	0.00	N/A
0.53	0.03	36.71	6.81	0.00	N/A
0.45	0.03	36.55	6.88	0.00	N/A
0.48	0.03	33.95	5.85	0.00	N/A

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2025**

Grouping		Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7 Residential						
CUSTOMER	Meters					
	Single-Phase Customers	837,946	Customers	\$21.08	\$17,663.895	\$22,947.32
	Three-Phase Customers	0	Customers	\$47.38	\$0.000	\$0.00
	Transformer & Service					
	Single-Phase Customers	837,946	Customers	\$116.40	\$97,536.876	\$126,710.99
	Three-Phase Customers	0	Customers	\$154.70	\$0.000	\$0.00
FACILITIES	Feeder Backbone					
	Single-Phase Customers	2,029,948	kW, rateclass peak	\$40.80	\$82,821.878	\$107,594.61
	Three-Phase Customers	0	kW, rateclass peak	\$40.80	\$0.000	\$0.00
	Feeder Local Facilities					
	Single-Phase Customers	3,351,783	Design Demand	\$52.10	\$174,627.894	\$226,860.59
	Three-Phase Customers	0	Design Demand	\$52.10	\$0.000	\$0.00
DEMAND	Subtransmission	2,069,674	kW, rateclass peak	\$1.33	\$2,752.666	\$3,576.01
	Substation	2,029,948	kW, rateclass peak	\$15.88	\$32,235.574	\$41,877.51
SUBTOTAL					\$407,638.784	\$529,567.0262
Schedule 15 Residential Outdoor Area Lighting						
CUSTOMER	Customer Service	6,747	Lights	\$1.53	\$10.318	\$13
	Transformer & Service	6,747	Lights	\$3.28	\$22.130	\$29
FACILITIES	Feeder Backbone	397	kW, rateclass peak	\$43.89	\$17.424	\$23
	Feeder Local Facilities	397	Design Demand	\$52.03	\$20.656	\$27
DEMAND	Subtransmission	405	kW, rateclass peak	\$1.33	\$0.539	\$1
	Substation	397	kW, rateclass peak	\$15.88	\$6.304	\$8
FIXED	Luminaires & Poles					\$304
SUBTOTAL					\$77.371	\$404
Schedule 15 Commercial Outdoor Area Lighting						
CUSTOMER	Customer Service	14,336	Lights	\$1.53	\$21.923	\$28
	Transformer & Service	14,336	Lights	\$3.28	\$47.022	\$61
FACILITIES	Feeder Backbone	2,774	kW, rateclass peak	\$43.89	\$121.751	\$158
	Feeder Local Facilities	2,774	Design Demand	\$52.03	\$144.331	\$188
DEMAND	Subtransmission	2,828	kW, rateclass peak	\$1.33	\$3.761	\$5
	Substation	2,774	kW, rateclass peak	\$15.88	\$44.051	\$57
FIXED	Luminaires & Poles					\$2,119
SUBTOTAL					\$382.839	\$2,616
Schedule 15 Outdoor Area Lighting						
CUSTOMER	Customer Service					\$42
	Transformer & Service					\$90
FACILITIES	Feeder Backbone					\$181
	Feeder Local Facilities					\$214
DEMAND	Subtransmission					\$6
	Substation					\$65
FIXED	Luminaires & Poles					\$2,422
SUBTOTAL						\$3,020

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2025**

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	60,910	Customers	\$43.59	\$2,655.071	\$3,449
	Three-Phase Customers	35,907	Customers	\$61.01	\$2,190.686	\$2,846
	Transformer & Service					
	Single-Phase Customers	60,910	Customers	\$232.99	\$14,191.440	\$18,436
	Three-Phase Customers	35,907	Customers	\$317.24	\$11,391.137	\$14,798
FACILITIES	Feeder Backbone					
	Single-Phase Customers	130,321	kW, rateclass peak	\$50.12	\$6,531.686	\$8,485
	Three-Phase Customers	188,063	kW, rateclass peak	\$50.12	\$9,425.720	\$12,245
	Feeder Local Facilities					
	Single-Phase Customers	274,095	Design Demand	\$78.67	\$21,563.054	\$28,013
	Three-Phase Customers	398,568	Design Demand	\$21.01	\$8,373.914	\$10,879
DEMAND	Subtransmission	324,615	kW, rateclass peak	\$1.33	\$431.738	\$561
	Substation	318,384	kW, rateclass peak	\$15.88	\$5,055.938	\$6,568
SUBTOTAL					\$81,810.383	\$106,281
Schedule 38 General Service						
CUSTOMER	Meters					
	Single-Phase Customers	93	Customers	\$50.04	\$4.654	\$6
	Three-Phase Customers	289	Customers	\$100.38	\$29.010	\$38
	Transformer & Service					
	Single-Phase Customers	93	Customers	\$224.52	\$20.880	\$27
	Three-Phase Customers	289	Customers	\$745.21	\$215.366	\$280
FACILITIES	Feeder Backbone					
	Single-Phase Customers	713	kW, rateclass peak	\$52.07	\$37.135	\$48
	Three-Phase Customers	7,356	kW, rateclass peak	\$52.07	\$383.018	\$498
	Feeder Local Facilities					
	Single-Phase Customers	3,915	Design Demand	\$93.12	\$364.565	\$474
	Three-Phase Customers	29,362	Design Demand	\$23.35	\$685.603	\$891
DEMAND	Subtransmission	8,227	kW, rateclass peak	\$1.33	\$10.942	\$14
	Substation	8,069	kW, rateclass peak	\$15.88	\$128.136	\$166
SUBTOTAL					\$1,879.308	\$2,441
Schedule 47 Irrigation & Drainage Service - < 30 kW						
CUSTOMER	Meters					
	Single-Phase Customers	232	Customers	\$50.54	\$11.725	\$15
	Three-Phase Customers	2,395	Customers	\$70.05	\$167.770	\$218
	Transformer & Service					
	Single-Phase Customers	232	Customers	\$34.20	\$7.934	\$10
	Three-Phase Customers	2,395	Customers	\$50.84	\$121.762	\$158
FACILITIES	Feeder Backbone					
	Single-Phase Customers	735	kW, rateclass peak	\$50.12	\$36.861	\$48
	Three-Phase Customers	11,286	kW, rateclass peak	\$50.12	\$565.632	\$735
	Feeder Local Facilities					
	Single-Phase Customers	2,413	Design Demand	\$73.97	\$178.490	\$232
	Three-Phase Customers	37,602	Design Demand	\$19.75	\$742.640	\$965
DEMAND	Subtransmission	12,256	kW, rateclass peak	\$1.33	\$16.300	\$21
	Substation	12,021	kW, rateclass peak	\$15.88	\$190.893	\$248
SUBTOTAL					\$2,040.007	\$2,650

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2025**

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	8 Customers	\$50.54	\$0.404	\$1
	Three-Phase Customers	1,361 Customers	\$60.83	\$82.790	\$108
	Transformer & Service				
	Single-Phase Customers	8 Customers	\$317.26	\$2.538	\$3
	Three-Phase Customers	1,361 Customers	\$317.27	\$431.804	\$561
FACILITIES	Feeder Backbone				
	Single-Phase Customers	204 kW, rateclass peak	\$52.07	\$10.615	\$14
	Three-Phase Customers	34,683 kW, rateclass peak	\$52.07	\$1,805.951	\$2,346
	Feeder Local Facilities				
	Single-Phase Customers	295 Design Demand	\$89.70	\$26.462	\$34
	Three-Phase Customers	75,808 Design Demand	\$22.49	\$1,704.922	\$2,215
DEMAND	Subtransmission	35,570 kW, rateclass peak	\$1.33	\$47.308	\$61
	Substation	34,887 kW, rateclass peak	\$15.88	\$554.006	\$720
SUBTOTAL				\$4,666.800	\$6,063
Schedule 83 General Service (31-200 kW)					
CUSTOMER	Meters				
	Single-Phase Customers	893 Customers	\$50.54	\$45.132	\$59
	Three-Phase Customers	10,904 Customers	\$105.82	\$1,153.861	\$1,499
	Transformer & Service				
	Single-Phase Customers	893 Customers	\$516.67	\$461.386	\$599
	Three-Phase Customers	10,904 Customers	\$1,282.21	\$13,981.218	\$18,163
FACILITIES	Feeder Backbone				
	Single-Phase Customers	28,513 kW, rateclass peak	\$52.07	\$1,484.687	\$1,929
	Three-Phase Customers	563,939 kW, rateclass peak	\$52.07	\$29,364.289	\$38,147
	Feeder Local Facilities				
	Single-Phase Customers	48,936 Design Demand	\$93.12	\$4,556.920	\$5,920
	Three-Phase Customers	968,275 Design Demand	\$23.35	\$22,609.221	\$29,372
DEMAND	Subtransmission	604,046 kW, rateclass peak	\$1.33	\$803.381	\$1,044
	Substation	592,452 kW, rateclass peak	\$15.88	\$9,408.138	\$12,222
SUBTOTAL				\$83,868.234	\$108,954
Schedule 85 General Service (201-4,000 kW)					
CUSTOMER	Meters				
	Secondary Customers	1,474 Customers	\$113.81	\$167.699	\$218
	Primary Customers	224 Customers	\$1,795.89	\$402.279	\$523
	Transformer & Service				
	Secondary Customers	1,474 Customers	\$2,893.64	\$4,263.779	\$5,539
	Primary Customers	224 Customers	\$0.00	\$0.000	\$0
FACILITIES	Feeder Backbone	611,581 kW, rateclass peak	\$42.18	\$25,796.487	\$33,512
	Feeder Local Facilities	938,718 Design Demand	\$7.37	\$6,918.352	\$8,988
DEMAND	Subtransmission	623,550 kW, rateclass peak	\$1.33	\$829.322	\$1,077
	Substation	611,581 kW, rateclass peak	\$15.88	\$9,711.906	\$12,617
SUBTOTAL				\$48,089.823	\$62,474

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2025**

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	0	Customers	\$113.81	\$0.000	\$0	
	Primary Meters	46	Customers	\$1,896.75	\$86.776	\$113	
	Substation Meters	6	Customers	\$17,623.44	\$105.741	\$137	
	Transformer & Service						
	Secondary Customers	0	Customers	\$0.00	\$0.000	\$0	
	Primary Customers	46	Customers	\$0.00	\$0.000	\$0	
FACILITIES	Feeder Backbone						
	Secondary Customers	0	Customers	\$104,332.00	\$0.000	\$0	
	Primary Customers	46	Customers	\$104,332.00	\$4,773.189	\$6,201	
	Subtransmission 115 kV Feeder	6	Customers	\$93,301.00	\$559.806	\$727	
DEMAND	Subtransmission	442,825	kW, rateclass peak	\$1.33	\$588.957	\$765	\$407,333
	Substation (Sec. & Prim. Only)	398,323	kW, rateclass peak	\$15.88	\$6,325.369	\$8,217	\$42,401
							\$364,932
SUBTOTAL					\$12,439.838	\$16,161	
Schedule 90 Primary Voltage Service							
CUSTOMER	Meters						
	Primary Meters	8	Customers	\$1,896.75	\$15.174	\$20	
FACILITIES	Feeder Backbone						
	Primary Customers	8	Customers	\$491,171.00	\$3,929.368	\$5,105	
DEMAND	Subtransmission	509,291	kW, rateclass peak	\$1.33	\$677.357	\$880	
	Substation (Sec. & Prim. Only)	499,516	kW, rateclass peak	\$15.88	\$7,932.314	\$10,305	
SUBTOTAL					\$12,554.213	\$16,309	
Schedules 91 & 95 Streetlighting & Highway Lighting							
CUSTOMER	Customer Service	151,172	Lights	\$1.53	\$231.177	\$300	
	Transformer & Service	151,172	Lights	\$3.28	\$495.844	\$644	
FACILITIES	Feeder Backbone	10,022	kW, rateclass peak	\$43.89	\$439.866	\$571	
	Feeder Local Facilities	10,022	Design Demand	\$54.88	\$550.007	\$715	
DEMAND	Subtransmission	10,218	kW, rateclass peak	\$1.33	\$13.590	\$18	
	Substation	10,022	kW, rateclass peak	\$15.88	\$159.149	\$207	
FIXED	Luminaires & Poles					\$8,311	
SUBTOTAL					\$1,889.634	\$10,766	

PORTLAND GENERAL ELECTRIC
ALLOCATION OF DISTRIBUTION REVENUE REQUIREMENT
2025

Grouping		Usages	Units & Basis	Marginal Unit Cost	Marginal Cost Revenues	Class Revenue Requirement
Schedule 92 Traffic Signals						
CUSTOMER	Transformer & Service	1,248	Intersections	\$6.33	\$7.900	\$10
FACILITIES	Feeder Backbone	322	kW, rateclass peak	\$43.89	\$14.133	\$18
	Feeder Local Facilities	322	Design Demand	\$19.25	\$6.199	\$8
DEMAND	Subtransmission	328	kW, rateclass peak	\$1.33	\$0.436	\$1
	Substation	322	kW, rateclass peak	\$15.88	\$5.113	\$7
SUBTOTAL					\$33.781	\$44
Summary						
CUSTOMER	Meters	952,695	Customers		\$24,783	\$32,195
	Transformer & Service		Customers		\$143,199	\$186,031
	Customer Service	172,255	Lights		\$263	\$342
FACILITIES	Feeder Backbone	3,620,857	kW, rateclass peak		\$168,119	\$218,405
	Feeder Local Facilities	6,143,285	Design Demand		\$243,073	\$315,779
DEMAND	Subtransmission	4,643,833	kW, rateclass peak		\$6,176	\$8,024
	Substation	4,518,696	kW rateclass peak		\$71,757	\$93,220
FIXED	Luminaires & Poles					\$10,733
TOTALS					\$657,371	\$864,730
					TARGET	\$864,730
					EQUAL PERCENT	129.9%

\$541,753	\$542,023	\$711,031
56,393.38	\$56,393.00	74,014.00
485,359.56	\$485,630.00	637,017.00

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF TROJAN DECOMMISSIONING COSTS
2025**

Schedules	Cycle Generation Revenues (000s)	Allocation Percent	Class Revenue Requirement
Schedule 7	\$775,417	44.41%	\$840
Schedule 15	\$897	0.05%	\$0.972
Schedule 32	\$132,315	7.58%	\$143
Schedule 38	\$2,272	0.13%	\$2
Schedule 47	\$2,166	0.12%	\$2
Schedule 49	\$5,952	0.34%	\$6
Schedule 83	\$157,931	9.05%	\$171
Schedule 85-S	\$130,788	7.49%	\$142
Schedule 89-S	\$0	0.00%	\$0
Schedule 85-P	\$52,628	3.01%	\$57
Schedule 89-P	\$207,075	11.86%	\$224
Schedule 89-T	\$18,919	1.08%	\$20
Schedule 90-P	\$256,712	14.70%	\$278
Schedule 91/95	\$2,746	0.16%	\$3
Schedule 92	\$207	0.01%	\$0
TOTAL	\$1,746,025		\$1,891
		TARGET	\$1,891

PORTLAND GENERAL ELECTRIC
ALLOCATION OF FRANCHISE FEES
2025

Schedules	Distribution Allocations	Transmission Allocations	Generation Allocations	Schedule 129/139 Allocations	Subtotal Allocations	Distribution Fran. Fee Allocations	Transmission Fran. Fee Allocations	Generation Fran. Fee Allocations	Schedule 129/139 Fran. Fee Allocations	Total Fran. Fee Allocations
Schedule 7	\$669,009	\$70,167	\$775,417		\$1,514,593	\$17,637	\$1,850	\$20,443		\$39,930
Schedule 15	\$3,118	\$66	\$897		\$4,081	\$82	\$2	\$24		\$108
Schedule 32	\$130,959	\$10,985	\$132,315		\$274,258	\$3,453	\$290	\$3,488		\$7,230
Schedule 38	\$2,934	\$188	\$2,272		\$5,394	\$77	\$5	\$60		\$142
Schedule 47	\$3,359	\$160	\$2,166		\$5,685	\$89	\$4	\$57		\$150
Schedule 49	\$7,741	\$416	\$5,952		\$14,109	\$204	\$11	\$157		\$372
Schedule 83	\$131,130	\$20,205	\$242,970		\$394,305	\$3,457	\$533	\$6,406		\$10,395
Schedule 85	\$73,801	\$17,829	\$223,971	\$452	\$316,053	\$1,946	\$470	\$5,905	(\$9)	\$8,311
Schedule 89	\$19,193	\$7,740	\$88,981	(\$1,637)	\$114,278	\$506	\$204	\$2,346	(\$22)	\$3,034
Schedule 90	\$17,965	\$19,083	\$256,712		\$293,760	\$474	\$503	\$6,768		\$7,745
Schedules 91/95	\$10,836	\$190	\$2,746		\$13,773	\$286	\$5	\$72		\$363
Schedule 92	\$44	\$15	\$207		\$266	\$1	\$0	\$5		\$7
TOTALS	\$1,070,088	\$147,044	\$1,734,608	(\$1,185)	\$2,950,554	\$28,211	\$3,877	\$45,730	(\$31)	\$77,787

Franchise Fee Revenue Requirement

\$77,787

Schedules	Distribution MWh	Distribution mills/kWh	Transmission MWh	Transmission mills/kWh	Generation MWh	Generation mills/kWh	Schedule 129/139 MWh	Schedule 129/139 mills/kWh	Total COS mills/kWh	Total DA mills/kWh	Difference COS/DA mills/kWh
Schedule 7	7,883,579	2.2372	7,883,579	0.2346	7,883,579	2.5931	0.0		5.065		
Schedule 15	12,601	6.52	12,601	0.14	12,601	1.88	0		8.54	6.52	2.02
Schedule 32	1,527,980	2.26	1,527,980	0.19	1,527,980	2.28	0		4.73	2.26	2.47
Schedule 38	26,943	2.87	26,943	0.18	26,943	2.22	0		5.28	2.87	2.41
Schedule 47	20,962	4.22	20,962	0.20	20,962	2.72	0		7.15		
Schedule 49	58,816	3.47	58,816	0.19	58,816	2.67	0		6.32	3.47	2.85
Schedule 83	2,846,128	1.21	2,846,128	0.19	2,846,128	2.25	0		3.65	1.21	2.44
Schedule 85-S	2,479,356	0.56	2,041,005	0.17	2,041,005	2.15	438,351	(0.01)	2.88	0.5488	2.33
Schedule 89-S	0	0.18	0	0.18	0	2.07	0	(0.01)	2.43	0.16	2.27
Schedule 85-P	997,664	0.56	718,780	0.17	718,780	2.12	278,884	(0.01)	2.85	0.54	2.30
Schedule 89-P	2,663,295	0.17	1,105,823	0.18	1,105,823	2.05	1,557,472	(0.01)	2.40	0.16	2.24
Schedule 89-T/75-T	243,324	0.17	38,613	0.18	38,613	2.03	204,711	(0.01)	2.38	0.16	2.22
Schedule 90-P	3,640,677	0.13	3,640,677	0.14	3,640,677	1.86			2.13	0.13	2.00
Schedule 90-T	0	0.13	0	0.14	0	1.86			2.13	0.13	2.00
Schedule 91/95	39,825	7.17	39,825	0.13	39,825	1.82	0		9.12	7.17	1.94
Schedule 92	2,760	0.42	2,760	0.14	2,760	1.98	0		2.54	0.42	2.12
TOTALS	22,443,910		19,964,492		19,964,492		2,479,418				

Voltage Differentials

Sch 85 Secondary/PrimaryDelta	1.107%	0.01	0.00	0.02
Secondary/PrimaryDelta	1.107%	0.00	0.00	0.02
Secondary/Subtransmission Delta	2.243%	0.00	0.00	0.05
Prim/Subtransmission Delta	1.136%	0.00		

Revenues

Schedules	MWh	Fran. Fee mills/kWh	Fran. Fee Revenues
Schedule 7	7,883,579	5.06	\$39,929.8
Schedule 15	12,601	8.54	\$107.6
Schedule 32	1,527,980	4.73	\$7,230.4
Schedule 38	26,943	5.28	\$142.2
Schedule 47	20,962	7.15	\$149.9
Schedule 49	58,816	6.32	\$372.0
Schedule 83	2,846,128	3.65	\$10,395.2
Schedule 85-S	2,041,005	2.88	\$5,873.7
Schedule 485-S	438,351	0.55	\$240.5
Schedule 89-S	0	2.43	\$0.0
Schedule 489-S	0	0.16	\$0.0
Schedule 85-P	718,780	2.85	\$2,045.7
Schedule 485-P	278,884	0.54	\$151.3
Schedule 89-P	1,105,823	2.40	\$2,657.51
Schedule 489-P	1,557,472	0.16	\$251.76
Schedule 89-T/75-T	38,613	2.38	\$91.7
Schedule 489-T	204,711	0.16	\$32.7
Schedule 90-P	3,640,677	2.13	\$7,744.5
Schedule 90-T	0	2.13	\$0.0
Schedule 91/95	39,825	9.12	\$363.1
Schedule 92	2,760	2.54	\$7.012
TOTALS	22,443,910		\$77,786.61

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF METERING REVENUE REQUIREMENT
2025**

Grouping	Customers	Marginal Unit Cost \$ per Customer	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7				
Single Phase	837,946	\$0.25	\$209.486	\$1,793
Three Phase	0	\$0.25	\$0.000	\$0
Schedule 15				
Residential	4,044	\$0.00	\$0.000	\$0
Commercial	5,210	\$0.00	\$0.000	\$0
Schedule 32				
Single Phase	60,910	\$0.50	\$30.455	\$261
Three Phase	35,907	\$0.50	\$17.954	\$154
Schedule 38				
Single Phase	93	\$1.99	\$0.185	\$2
Three Phase	289	\$1.99	\$0.575	\$5
Schedule 47				
Single Phase	232	\$0.68	\$0.158	\$1
Three Phase	2,395	\$0.68	\$1.629	\$14
Schedule 49				
Single Phase	8	\$0.77	\$0.006	\$0
Three Phase	1,361	\$0.77	\$1.048	\$9
Schedule 83				
Single Phase	893	\$1.55	\$1.384	\$12
Three Phase	10,904	\$1.55	\$16.901	\$145
Schedule 85				
Secondary	1,474	\$2.80	\$4.126	\$35
Primary	224	\$2.80	\$0.627	\$5
Schedule 89				
Secondary	0	\$0.15	\$0.000	\$0
Primary	46	\$0.15	\$0.007	\$0
Subtransmission	6	\$0.15	\$0.001	\$0
Schedule 90-P	2	\$0.15	\$0.000	\$0
Schedules 91/95	201	\$0.00	\$0.000	\$0
Schedule 92	0	\$0.00	\$0.000	\$0
TOTAL	962,144		\$284.542	\$2,436.074
			TARGET	\$2,436
EQUAL PERCENT				856.14%

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF BILLING REVENUE REQUIREMENT
2025**

Grouping	Customers	Marginal Unit Cost \$ per Customer	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7				
Single Phase	837,946	\$22.59	\$18,929	\$42,244
Three Phase	0	\$22.59	\$0	\$0
Schedule 15				
Residential	4,044	\$1.79	\$7	\$16
Commercial	5,210	\$1.38	\$7	\$16
Schedule 32				
Single Phase	60,910	\$20.75	\$1,264	\$2,821
Three Phase	35,907	\$20.75	\$745	\$1,663
Schedule 38				
Single Phase	93	\$20.41	\$2	\$4
Three Phase	289	\$20.41	\$6	\$13
Schedule 47				
Single Phase	232	\$18.38	\$4	\$10
Three Phase	2,395	\$18.38	\$44	\$98
Schedule 49				
Single Phase	8	\$24.96	\$0	\$0
Three Phase	1,361	\$24.96	\$34	\$76
Schedule 83				
Single Phase	893	\$30.19	\$27	\$60
Three Phase	10,904	\$30.19	\$329	\$735
Schedule 85				
Secondary	1,474	\$36.47	\$54	\$120
Primary	224	\$36.47	\$8	\$18
Schedule 89				
Secondary	0	\$18.65	\$0	\$0
Primary	46	\$18.65	\$1	\$2
Subtransmission	6	\$18.65	\$0	\$0
Schedule 90-P	2	\$20.14	\$0	\$0
Schedules 91/95	201	\$149.74	\$30	\$67
Schedule 92	0	\$142.95	\$0	\$0
TOTAL	962,144		\$21,492	\$47,964
			TARGET	\$47,964
		EQUAL PERCENT		223%

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF CONSUMER REVENUE REQUIREMENT
2025**

Grouping	Customers	Marginal Unit Cost \$ per Customer	Marginal Cost Revenues	Class Revenue Requirement
Schedule 7				
Single Phase	837,946	\$37.16	\$31,138	\$83,789
Three Phase	0	\$37.16	\$0	\$0
Schedule 15				
Residential	4,044	\$0.83	\$3	\$9
Commercial	5,210	\$0.83	\$4	\$12
Schedule 32				
Single Phase	60,910	\$72.23	\$4,400	\$11,839
Three Phase	35,907	\$72.23	\$2,594	\$6,979
Schedule 38				
Single Phase	93	\$453.23	\$42	\$113
Three Phase	289	\$453.23	\$131	\$352
Schedule 47				
Single Phase	232	\$81.49	\$19	\$51
Three Phase	2,395	\$81.49	\$195	\$525
Schedule 49				
Single Phase	8	\$422.68	\$3	\$9
Three Phase	1,361	\$422.68	\$575	\$1,548
Schedule 83				
Single Phase	893	\$651.31	\$582	\$1,565
Three Phase	10,904	\$651.31	\$7,102	\$19,110
Schedule 85				
Secondary	1,474	\$2,380.21	\$3,507	\$9,438
Primary	224	\$2,380.21	\$533	\$1,435
Schedule 89				
Secondary	0	\$17,382.70	\$0	\$0
Primary	46	\$17,382.70	\$795	\$2,140
Subtransmission	6	\$17,382.70	\$104	\$281
Schedule 90-P	8	\$80,922.59	\$647	\$1,742
Schedule 91/95	201	\$0.83	\$0	\$0
Schedule 92	16	\$0.83	\$0	\$0
TOTAL	962,166		\$52,375.723	\$140,937.519
		TARGET		\$140,937.519
		EQUAL PERCENT		\$2.691

**PORTLAND GENERAL ELECTRIC
ALLOCATION OF UNCOLLECTIBLES
2025**

Grouping	Marginal Cost Allocation Percent	Class Revenue Requirement
Schedule 7		
Single Phase	88.83%	\$10,775
Three Phase	0.00%	\$0
Schedule 15		
Residential	0.16%	\$19
Commercial	0.20%	\$25
Schedule 32		
Single Phase	3.99%	\$484
Three Phase	2.77%	\$336
Schedule 38		
Single Phase	0.00%	\$0
Three Phase	0.00%	\$0
Schedule 47		
Single Phase	0.01%	\$1
Three Phase	0.06%	\$7
Schedule 49		
Single Phase	0.00%	\$0
Three Phase	0.24%	\$29
Schedule 83		
Single Phase	0.24%	\$29
Three Phase	2.87%	\$349
Schedule 85		
Secondary	0.56%	\$67
Primary	0.08%	\$10
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%	\$12,130
TARGET		\$12,130

Source: 2019-2019 Write-Offs

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

Initial Cost Allocations

Cost Category	Sch 89	Sch 90	Totals
Transmission	\$6,209	\$18,999	\$25,209
Ancillary	\$388	\$1,227	\$1,614
Subtransmission	\$765	\$880	\$1,645
Substations	<u>\$8,217</u>	<u>\$10,305</u>	<u>\$18,522</u>
Totals	\$15,580	\$31,411	\$46,991

Billing Demand

Cost Category	Sch 89	Sch 90	Totals
Transmission	2,222,452	5,479,269	7,701,721
Ancillary	2,222,452	5,479,269	7,701,721
Subtransmission	5,246,258	5,479,269	10,725,528
Substations	4,689,945	5,479,269	10,169,214

Reallocation of Costs

Cost Category	Sch 89	Sch 90	Totals
Transmission	\$7,274	\$17,934	\$25,209
Ancillary	\$466	\$1,149	\$1,614
Subtransmission	\$805	\$840	\$1,645
Substations	<u>\$8,542</u>	<u>\$9,980</u>	<u>\$18,522</u>
Totals	\$17,087	\$29,903	\$46,991

**PORTLAND GENERAL ELECTRIC
RATE DESIGN INPUT
SUMMARY - ALLOCATION OF 2025 COSTS TO RATE SCHEDULES (\$000)**

Grouping	Net Variable Power Costs	Energy-Based Charges					Trans. & Related Charges			Distribution Demand & Facilities Charges				
		Power Supply	Franchise Fees	Trojan	Sch 129	Subtotal	Transmission	Ancillary Services	Subtotal	Substation	Subtrans.	Feeder Backbone	Feeder Facilities	Subtotal
Schedule 7	\$429,036	\$346,381	\$39,930	\$840	\$416	\$41,186	\$66,702	\$3,465	\$70,167	\$41,878	\$3,576	\$107,595	\$226,861	\$379,909
Schedule 15	\$501	\$397	\$108	\$1	\$1	\$109	\$62	\$4	\$66	\$65	\$6	\$181	\$214	\$466
Schedule 32	\$73,130	\$59,185	\$7,230	\$143	\$81	\$7,454	\$10,396	\$589	\$10,985	\$6,568	\$561	\$20,730	\$38,891	\$66,751
Schedule 38	\$1,255	\$1,017	\$142	\$2	\$1	\$146	\$178	\$10	\$188	\$166	\$14	\$546	\$1,364	\$2,091
Schedule 47	\$1,198	\$968	\$150	\$2	\$1	\$153	\$150	\$10	\$160	\$248	\$21	\$783	\$1,197	\$2,249
Schedule 49	\$3,291	\$2,661	\$372	\$6	\$3	\$382	\$390	\$26	\$416	\$720	\$61	\$2,360	\$2,249	\$5,390
Schedule 83 Secondary	\$134,269	\$108,702	\$10,395	\$171	\$150	\$10,717	\$19,123	\$1,082	\$20,205	\$12,222	\$1,044	\$40,076	\$35,292	\$88,634
Schedule 85 Secondary Primary Class Total	\$123,719	\$100,252	\$6,114 \$2,197	\$142 \$57	\$131 \$53	\$6,387 \$2,307	\$16,831	\$999	\$17,829	\$12,617	\$1,077	\$33,512	\$8,988	\$56,194
Schedule 89 Secondary Primary Subtransmission Class Total	\$47,972	\$41,009	\$0 \$2,909 \$124	\$0 \$224 \$20	\$0 \$141 \$13	\$0 \$3,274 \$158	\$7,274	\$466	\$7,740	\$8,542	\$805	\$0 \$6,201 \$727	\$0 \$6,201 \$727	\$0 \$6,201 \$727 \$9,347
Schedule 90-P	\$151,649	\$105,063	\$7,745	\$278	\$192	\$8,215	\$17,934	\$1,149	\$19,083	\$9,980	\$840	\$5,105		\$15,925
Schedules 91 & 95	\$1,532	\$1,214	\$363	\$3	\$2	\$368	\$178	\$12	\$190	\$207	\$18	\$571	\$715	\$1,510
Schedules 92	\$115	\$92	\$7	\$0	\$0	\$7	\$14	\$1	\$15	\$7	\$1	\$18	\$8	\$34
Totals	\$967,668	\$766,940	\$77,787	\$1,891	\$1,185	\$80,863	\$139,231	\$7,813	\$147,044	\$93,220	\$8,024	\$218,405	\$315,779	\$635,428

PORTLAND GENERAL ELECTRIC
RATE DESIGN INPUTS (CONTINUED)
SUMMARY - ALLOCATION OF 2025 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	\$149,658.305	\$0.000	\$10,775.051	\$0.000	\$1,793.494	\$0.000	\$42,244.290	\$0.000	\$83,789.222	\$0.000	\$288,260.361	\$0.000		\$288,260	\$1,554,939
Schedule 15	\$131.721		\$43.372		\$0.000		\$32.200		\$20.668		\$227.962	\$0.000	\$2,422.442	\$2,650	\$4,189
Schedule 32	\$21,885.446	\$17,644.262	\$483.682	\$335.536	\$260.737	\$153.707	\$2,820.611	\$1,662.774	\$11,838.683	\$6,979.002	\$37,289.160	\$26,775.281		\$64,064	\$281,569
Schedule 38	\$33.172	\$317.470	\$0.015	\$0.079	\$1.584	\$4.924	\$4.236	\$13.164	\$113.422	\$352.463	\$152.429	\$688.100		\$841	\$5,538
Schedule 47	\$25.540	\$376.133	\$0.717	\$6.874	\$1.351	\$13.943	\$9.516	\$98.240	\$50.873	\$525.178	\$87.997	\$1,020.367		\$1,108	\$5,836
Schedule 49	\$3.822	\$668.514	\$0.000	\$29.130	\$0.053	\$8.972	\$0.446	\$75.812	\$9.099	\$1,547.984	\$13.420	\$2,330.412		\$2,344	\$14,484
Schedule 83 Secondary	\$658.023	\$19,662.111	\$29.029	\$348.713	\$11.850	\$144.698	\$60.166	\$734.657	\$1,565.077	\$19,110.418	\$2,324.145	\$40,000.597		\$42,325	\$404,850
Schedule 85 Secondary		\$5,756.970		\$67.353		\$35.323		\$119.928		\$9,437.610	\$0.000	\$15,417.184		\$15,417	\$21,804
Primary		\$522.605		\$10.158		\$5.370		\$18.231		\$1,434.696	\$0.000	\$1,991.060		\$1,991	\$4,298
															\$297,994
Schedule 89 Secondary		\$0.000		\$0.000		\$0.000		\$0.000		\$0.000	\$0.000	\$0.000		\$0	
Primary		\$112.732		\$0.000		\$0.059		\$1.904		\$2,139.956	\$0.000	\$2,254.651		\$2,255	\$11,730
Subtransmission		\$137.369		\$0.000		\$0.008		\$0.250		\$280.650	\$0.000	\$418.276		\$418	\$1,303
															\$106,069
Schedule 90-P		\$19.713		\$0.000		\$0.003		\$0.090		\$1,742.033	\$0.000	\$1,761.838		\$1,762	\$301,697
Schedules 91 & 95	\$944.480			\$0.073		\$0.000	\$67.169		\$0.449		\$1,012.098	\$0.073	\$8,310.931	\$9,323	\$14,138
Schedule 92		\$10.263		\$0.000		\$0.000		\$0.000		\$0.036	\$0.000	\$10.298		\$10	\$273
Totals	\$173,340.508	\$45,228.140	\$11,331.867	\$797.917	\$2,069.070	\$367.005	\$45,238.634	\$2,725.050	\$97,387.494	\$43,550.025	\$329,367.572	\$92,668.137	\$10,733.373	\$432,769	\$3,030,711

Reconcile to Ratespread (\$0)

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		
		Amount	Unit	Rate	Unit	
SCHEDULE 7						
Residential						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase	\$288,260	837,946	Customers	\$28.67	per cust. per mo.	
Three-Phase	\$0	0	Customers	\$0.00	per cust. per mo.	
Trans. & Rel. Serv. Charge	\$70,167	7,883,579	MWh	8.90	mills/kWh	
Distribution Charge	\$379,909	7,883,579	MWh	48.19	mills/kWh	
Franchise Fees & Other	\$41,186	7,883,579	MWh	5.22	mills/kWh	
Energy Charge	\$346,381	7,883,579	MWh	43.94	mills/kWh	
NVPC Charge	<u>\$429,036</u>	7,883,579	MWh	54.42	mills/kWh	
Subtotal	\$1,554,939					
Pricing						
Functional Costs						
Basic Charge						
Single-Phase-SFH		589,758		\$15.00		
Single-Phase-MFH		248,187		\$12.00		
Three-Phase		0	Customers	\$15.00	per cust. per mo.	
Trans. & Rel. Serv. Charge		7,883,579	MWh	8.90	mills/kWh	
Distribution Charge		7,883,579	MWh	66.76	mills/kWh	
System Usage Charge Calculation						
Franchise Fees & Other		7,883,579	MWh	5.22	mills/kWh	
Cust Impact Offset		7,883,579	MWh	<u>0.00</u>	mills/kWh	
System Usage Charge		7,883,579	MWh	5.22	mills/kWh	
Energy Charge						
Block 1 (First 1,000 kWh)		7,883,579	MWh	43.94	mills/kWh	
Block 2 (Over 1,000 kWh)		0	MWh	43.94	mills/kWh	
NVPC Charge		7,883,579		54.42	mills/kWh	
Subtotal					w/ CIO	
					w/o CIO	
SCHEDULE 15						
Outdoor Area Lighting						
Allocations						
Functional Costs						
Basic Charge	\$228	9,254	Customers	\$2.05	per cust. per mo.	
Trans. & Rel. Serv. Charge	\$66	12,601	MWh	5.25	mills/kWh	
Distribution Charge	\$466	12,601	MWh	36.99	mills/kWh	
Franchise Fees & Other	\$109	12,601	MWh	8.67	mills/kWh	
Energy Charge	\$397	12,601	MWh	31.49	mills/kWh	
NVPC Charge	\$501	12,601	MWh	39.73	mills/kWh	
Fixed Charges	<u>\$2,422</u>	12,601	MWh			
Subtotal	\$4,189					
Pricing						
Functional Costs						
Trans. & Rel. Serv. Charge		12,601	MWh	5.25	mills/kWh	
Distribution Charge		12,601	MWh	55.08	mills/kWh	
System Usage Charge Calc						
Franchise Fees & Other		12,601	MWh	8.67	mills/kWh	
Cust Impact Offset		12,601	MWh	<u>6.35</u>	mills/kWh	
System Usage Charge		12,601	MWh	15.02	mills/kWh	
Energy Charge		12,601	MWh	30.73	mills/kWh	
NVPC Charge		12,601	MWh	39.73	mills/kWh	
Fixed Charges		12,601	MWh			
Subtotal					w/ CIO	
					w/o CIO	

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		
		Amount	Unit	Rate	Unit	
SCHEDULE 32						
General Service <30 kW						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase	\$37,289	60,910	Customers	\$51.02	per cust. per mo.	
Three-Phase	\$26,775	35,907	Customers	\$62.14	per cust. per mo.	
Trans. & Rel. Serv. Charge	\$10,985	1,527,980	MWh	7.19	mills/kWh	
Distribution Charge	\$66,751	1,527,980	MWh	43.69	mills/kWh	
Franchise Fees & Other	\$7,454	1,527,980	MWh	4.88	mills/kWh	
Energy Charge	\$59,185	1,527,980	MWh	38.73	mills/kWh	
NVPC Charge	\$73,130	1,527,980	MWh	47.86	mills/kWh	
Subtotal	\$281,569					
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		60,910	Customers	\$24.00	per cust. per mo.	
Three-Phase		35,907	Customers	\$33.00	per cust. per mo.	
Trans. & Rel. Serv. Charge		1,527,980	MWh	7.19	mills/kWh	
Distribution Charge						
First 5 MWh		1,343,126	MWh	69.62	mills/kWh	
Over 5 MWh		184,853	MWh	30.00	mills/kWh	
System Usage Charge Calc						
Franchise Fees & Other		1,527,980	MWh	4.88	mills/kWh	
Cust Impact Offset		1,527,980	MWh	0.00	mills/kWh	
System Usage Charge		1,527,980	MWh	4.88	mills/kWh	
Energy Charge		1,527,980	MWh	38.73	mills/kWh	
NVPC Charge		1,527,980	MWh	47.86	mills/kWh	
Subtotal					w/ CIO	
					w/o CIO	
SCHEDULE 38						
Time-of-Day G.S. >30 kW						
Allocations						
Functional Costs						
Basic						
Single-Phase	\$152,429,219	93	Customers	\$136.59	per cust. per mo.	
Three-Phase	\$688	289	Customers	\$198.41	per cust. per mo.	
Trans. & Rel. Serv. Charge	\$188	26,943	MWh	6.99	per cust. per mo.	
Distribution Charges	\$2,091	26,943	MWh	77.60	per cust. per mo.	
Franchise Fees & Other	\$146	26,943	MWh	5.42	mills/kWh	
Energy Charge	\$1,016,746	26,943	MWh	37.74	mills/kWh	
NVPC Charge	\$1,255,279	26,943	MWh	46.59	mills/kWh	
Subtotal	\$5,538					
Pricing						
Functional Costs						
Basic						
Single-Phase		93	Customers	\$50.00	per cust. per mo.	
Three-Phase		289	Customers	\$60.00	per cust. per mo.	
Trans. & Rel. Serv. Charge		26,943	MWh	6.99	mills/kWh	
Distribution Charges		26,943	MWh	99.00	mills/kWh	
System Usage Charge						
Franchise Fees & Other		26,943	MWh	5.42	mills/kWh	
Cust Impact Offset		26,943	MWh	(8.49)	mills/kWh	
System Usage Charge		26,943	MWh	(3.07)	mills/kWh	
Energy Charge Calc						
On-Peak (special)		5,660	MWh	45.02	mills/kWh	
Mid-Peak		12,304	MWh	40.02	mills/kWh	
Off-Peak		8,979	MWh	30.02	mills/kWh	
NVPC Charge Calc						
On-Peak (special)		5,660	MWh	53.87	mills/kWh	
Mid-Peak		12,304	MWh	48.87	mills/kWh	
Off-Peak		8,979	MWh	38.87	mills/kWh	
Reactive Demand Charge		0	kVar	0.50	kVar	
Subtotal					w/ CIO	
					w/o CIO	

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		
		Amount	Unit	Rate	Unit	
SCHEDULE 47						
Irrig. & Drain. Pump. - < 30 kW						
Allocations						
Functional Costs						
Basic Charge						
Single-Phase	\$88	232	Customers	\$63.22	per cust. per sun	
Three-Phase	\$1,020	2,395	Customers	\$71.01	per cust. per sun	
Trans. & Rel. Serv. Charge	\$160	20,962	MWh	7.62	mills/kWh	
Distribution Charges	\$2,249	20,962	MWh	107.27	mills/kWh	
Franchise Fees & Other	\$153	20,962	MWh	7.31	mills/kWh	
Energy Charge	\$968	20,962	MWh	46.20	mills/kWh	
NVPC Charge	\$1,198	20,962	MWh	57.15	mills/kWh	
Subtotal	\$5,836.196					
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		232	Customers	\$39.00	per cust. per sun	
Three-Phase		2,395	Customers	\$39.00	per cust. per sun	
Trans. & Rel. Serv. Charge		20,962	MWh	7.62	mills/kWh	
Distribution Charge Calc						
First 50 kWh per kW		4,505	MWh	146.52	mills/kWh	
Over 50 kWh per kW		16,456	MWh	126.52	mills/kWh	
System Usage Charge Calc						
Franchise Fees & Other		20,962	MWh	7.31	mills/kWh	
Cust Impact Offset		20,962	MWh	(9.23)	mills/kWh	
System Usage Charge		20,962	MWh	(1.92)	mills/kWh	
Energy Charge		20,962	MWh	46.20	mills/kWh	
NVPC Charge		20,962	MWh	57.15	mills/kWh	
Reactive Demand Charge		0	kVar	\$0.50	kVar	
Subtotal with Consumer Impact Offset					w/ CIO	
					w/o CIO	
SCHEDULE 49						
Irrig. & Drain. Pump. - > 30 kW						
Allocations						
Functional Costs						
Basic						
Single-Phase	\$13	8	Customers	\$279.58	per cust. per sun	
Three-Phase	\$2,330	1,361	Customers	\$285.38	per cust. per sun	
Trans. & Rel. Serv. Charge	\$416	58,816	MWh	7.08	mills/kWh	
Distribution Charges	\$5,390	58,816	MWh	91.65	mills/kWh	
Franchise Fees & Other	\$382	58,816	MWh	6.49	mills/kWh	
Energy Charge	\$2,661	58,816	MWh	45.24	mills/kWh	
NVPC Charge	\$3,291	58,816	MWh	55.96	mills/kWh	
Subtotal	\$11,193					
Pricing						
Functional Costs						
Basic Charge						
Single-Phase		8	Customers	\$60.00	per cust. per sun	
Three-Phase		1,361	Customers	\$60.00	per cust. per sun	
Trans. & Rel. Serv. Charge		58,816	MWh	7.08	mills/kWh	
Distribution Charge Calc						
First 50 kWh per kW		9,898	MWh	139.74	mills/kWh	
Over 50 kWh per kW		48,918	MWh	119.74	mills/kWh	
System Usage Charge Calc						
Franchise Fees & Other		58,816	MWh	6.49	mills/kWh	
Cust Impact Offset		58,816	MWh	(8.54)	mills/kWh	
System Usage Charge		58,816	MWh	(2.05)	mills/kWh	
Energy Charge		58,816	MWh	45.24	mills/kWh	
NVPC Charge		58,816	MWh	55.96	mills/kWh	
Reactive Demand Charge		0	kVar	0.50	kVar	
Subtotal with Consumer Impact Offset					w/ CIO	
					w/o CIO	

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate	
		Amount	Unit	Rate	Unit
SCHEDULE 83					
General Service 31-200 kW					
Allocations					
Functional Costs					
Basic Charge					
Single-Phase Secondary	\$2,324	893	Customers	\$216.89	per cust, per mo.
Three-Phase Secondary	\$40,001	10,904	Customers	\$305.70	per cust, per mo.
Transmission & Related Service Charge	\$20,205	8,722,161	kW demand	\$2.32	per kW demand
Distribution Charges					
Feeder Backbone	\$40,076	12,211,025	kW faccap	\$3.28	per kW faccap
Feeder Local Facilities	\$35,292	12,211,025	kW faccap	\$2.89	per kW faccap
Subtransmission Charge	\$1,044	8,722,161	kW demand	\$0.12	per kW demand
Substation Charge	\$12,222	8,722,161	kW demand	\$1.40	per kW demand
Secondary Franchise Fees & Other	\$10,717	2,846,128	MWh	3.77	mills/kWh
Secondary COS Energy Charge	\$108,702	2,846,128	MWh	38.19	mills/kWh
NVPC Charge	<u>\$134,269</u>	2,846,128	MWh	47.18	mills/kWh
Subtotal	\$404,850				
Pricing					
Functional Costs					
Basic Charge					
Secondary Single-Phase		893	Customers	\$50.00	per cust, per mo.
Secondary Three-Phase		10,904	Customers	\$60.00	per cust, per mo.
Trans. & Rel. Serv. Charge					
Peak (On-Peak and Mid-Peak)		8,624,801	kW demand	\$3.48	per kW demand
Off-peak		97,360	kW demand	\$0.00	per kW demand
Distribution Charges					
Secondary Facilities Charge					
First 30 kW		4,246,920	kW faccap	\$6.24	<= 30 kW faccap
Over 30 kW		7,964,105	kW faccap	\$6.14	> 30 kW faccap
Secondary Demand Charge					
Peak (On-Peak and Mid-Peak)		8,624,801	kW demand	\$2.11	per kW demand
Off-peak			kW demand	\$0.00	per kW demand
Secondary System Usage Charge Calc					
Franchise Fees & Other		2,846,128	MWh	3.77	mills/kWh
Cust Impact Offset		2,846,128	MWh	0.00	mills/kWh
Rate Design		2,846,128	MWh	6.58	mills/kWh
System Usage Charge		2,846,128	MWh	10.35	mills/kWh
COS Energy Charge					
On-peak		639,611	MWh	30.03	mills/kWh
Mid-peak		1,206,657	MWh	26.03	mills/kWh
Off-peak		999,860	MWh	20.03	mills/kWh
NVPC Charge					
On-peak		639,611	MWh	35.87	mills/kWh
Mid-peak		1,206,657	MWh	31.87	mills/kWh
Off-peak		999,860	MWh	25.87	mills/kWh
Generation Demand Charge (On Peak and Mid-Peak)		8,624,801	kW demand	9.86	per kW demand
Reactive Demand Charge		901,182	kVar	\$0.50	kVar
Subtotal					w/ CIO
					w/o CIO

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated	Billing Determinants		Rate	
	Inputs (\$000)	Amount	Unit	Rate	Unit
SCHEDULE 85					
General Service 201-4,000 kW					
Allocations					
Functional Costs					
Basic Charge					
Secondary	\$15,417	1,474	Customers	\$871.91	per cust, per mo.
Primary	\$1,991	224	Customers	\$740.72	per cust, per mo.
Transmission & Related Service Charge	\$17,829	6,893,527	kW on-peak	\$2.59	per kW demand
Distribution Charges					
Feeder Backbone	\$33,512	11,264,278	kW faccap	\$2.98	per kW faccap
Feeder Local Facilities	\$8,988	11,264,278	kW faccap	\$0.80	per kW faccap
Subtransmission Charge	\$1,077	8,659,434	kW on-peak	\$0.12	per kW on-peak
Substation Charge	\$12,617	8,659,434	kW on-peak	\$1.46	per kW on-peak
Secondary Franchise Fees & Other	\$6,387	2,479,356	MWh	2.58	mills/kWh
Primary Franchise Fees & Other	\$2,307	997,664	MWh	2.31	mills/kWh
COS Energy Charge	\$100,252	2,759,785	MWh	36.33	mills/kWh
NVPC Charge	\$123,719	2,759,785	MWh	44.83	mills/kWh
Subtotal	\$324,096				
Pricing					
Functional Costs					
Basic Charge					
Secondary		1,474	Customers	\$870.00	per cust, per mo.
Primary		224	Customers	\$740.00	per cust, per mo.
Secondary Trans. & Rel. Serv. Charge		5,439,711	kW on-peak	\$3.48	per kW demand
Primary Trans. & Rel. Serv. Charge		1,453,816	kW on-peak	\$3.44	per kW demand
Distribution Charges					
Secondary Facilities Charge					
First 200 kW		3,536,400	kW faccap	\$2.84	per kW faccap
Over 200 kW		5,122,000	kW faccap	\$2.74	per kW faccap
Primary Facilities Charge					
First 200 kW		537,600	kW faccap	\$2.81	per kW faccap
Over 200 kW		2,068,278	kW faccap	\$2.71	per kW faccap
Secondary Demand Charge		6,573,618	kW on-peak	\$2.11	per kW demand
Primary Demand Charge		2,085,817	kW on-peak	\$2.09	per kW demand
Secondary System Usage Charge Calc					
COS Franchise Fees & Other		2,041,005	MWh	2.99	mills/kWh
Cust Impact Offset		2,041,005	MWh	0.00	mills/kWh
COS System Usage Charge		2,041,005	MWh	2.99	mills/kWh
DA Franchise Fees & Other		438,351	MWh	0.66	mills/kWh
Cust Impact Offset		438,351	MWh	0.00	mills/kWh
DA System Usage Charge		438,351	MWh	0.66	mills/kWh
Primary System Usage Charge Calc					
COS Franchise Fees & Other		718,780	MWh	2.96	mills/kWh
Cust Impact Offset		718,780	MWh	0.00	mills/kWh
COS System Usage Charge		718,780	MWh	2.96	mills/kWh
DA Franchise Fees & Other		278,884	MWh	0.66	mills/kWh
Cust Impact Offset		278,884	MWh	0.00	mills/kWh
DA System Usage Charge		278,884	MWh	0.66	mills/kWh
Secondary COS Energy Charge					
On-peak		431,312	MWh	29.02	mills/kWh
Mid-peak		880,508	MWh	25.02	mills/kWh
Off-peak		729,185	MWh	19.02	mills/kWh
Secondary NVPC Charge					
On-peak		431,312	MWh	34.57	mills/kWh
Mid-peak		880,508	MWh	30.57	mills/kWh
Off-peak		729,185	MWh	24.57	mills/kWh
Generation Demand Charge		5,439,711	kW on-peak	11.40	per kW demand
Primary COS Energy Charge					
On-peak		156,002	MWh	28.76	mills/kWh
Mid-peak		282,320	MWh	24.76	mills/kWh
Off-peak		280,459	MWh	18.76	mills/kWh
Primary NVPC Charge					
On-peak		156,002	MWh	34.25	mills/kWh
Mid-peak		282,320	MWh	30.25	mills/kWh
Off-peak		280,459	MWh	24.25	mills/kWh
Generation Demand Charge		1,453,816	kW on-peak	11.27	per kW demand
Reactive Demand Charge		1,351,467	kVar	0.50	kVar
Subtotal					

w/o CIO

**PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025**

Schedule	Allocated	Billing Determinants		Rate		o
	Inputs (\$000)	Amount	Unit	Rate	Unit	
SCHEDULE 89 GT 4,000 kW						
General Service						
Allocations						
Functional Costs						
Secondary Basic Charge	\$0	0	Customers	\$4,152.29	per cust, per mo.	
Primary Basic Charge	\$2,255	46	Customers	\$4,106.83	per cust, per mo.	
Subtransmission Basic Charge	\$418	6	Customers	\$5,809.39	per cust, per mo.	
Transmission & Related Service Charge	\$7,740	2,222,452	kW on-peak	\$3.48	per kW on-peak	
Distribution Charges						
Feeder Backbone	\$6,928	5,912,632	kW faccap	\$1.17	per kW faccap	
Feeder Local Facilities						
Subtransmission Demand Charge	\$805	5,246,258	kW on-peak	\$0.15	per kW on-peak	
Substation Demand Charge	\$8,542	4,689,945	kW on-peak	\$1.82	per kW on-peak	
Secondary Franchise Fees & Other	\$0	0	MWh	1.24	mills/kWh	
Primary Franchise Fees & Other	\$3,274	2,663,295	MWh	1.23	mills/kWh	
Subtransmission Franchise Fees & Othi	\$158	243,324	MWh	0.65	mills/kWh	
Energy Charge	\$41,009	1,144,436	MWh	35.83	mills/kWh	
NVPC Charge	<u>\$47,972</u>	1,144,436	MWh	41.92	mills/kWh	
Subtotal	\$119,102					
Pricing						
Functional Costs						
Secondary Basic Charge		0	Customers	\$4,150.00	per cust, per mo.	
Primary Basic Charge		46	Customers	\$4,110.00	per cust, per mo.	
Subtransmission Basic Charge		6	Customers	\$5,810.00	per cust, per mo.	
Secondary Trans. & Rel. Serv. Charge		0	kW on-peak	\$3.48	per kW on-peak	
Primary Trans. & Rel. Serv. Charge		2,043,440	kW on-peak	\$3.44	per kW on-peak	
Subtransmission Trans. & Rel. Serv. Charge		179,012	kW on-peak	\$3.38	per kW on-peak	
Distribution Charges						
Secondary Facilities Charge						
First 1,000 kW		0	kW faccap	\$1.20	per kW faccap	
Greater than 4,000 kW		0	kW faccap	\$0.89	per kW faccap	
Primary Facilities Charge						
First 4,000 kW		2,196,000	kW faccap	\$1.19	per kW faccap	
Greater than 4,000 kW		2,817,629	kW faccap	\$0.88	per kW faccap	
Subtransmission Facilities Charge						
First 4,000 kW		288,000	kW faccap	\$1.18	per kW faccap	
Greater than 4,000 kW		404,844	kW faccap	\$0.87	per kW faccap	
Secondary Demand Charge		0	kW on-peak	\$2.11	per kW on-peak	
Primary Demand Charge		4,689,945	kW on-peak	\$2.09	per kW on-peak	
Subtransmission Demand Charge		556,314	kW on-peak	\$0.13	per kW on-peak	
Secondary System Usage Charge Calc						
COS Franchise Fees & Other		0	MWh	2.57	mills/kWh	
Cust Impact Offset		0	MWh	<u>0.00</u>	mills/kWh	
COS System Usage Charge		0	MWh	2.57	mills/kWh	
DA Franchise Fees & Other		0	MWh	0.30	mills/kWh	
Cust Impact Offset		0	MWh	<u>0.00</u>	mills/kWh	
DA System Usage Charge		0	MWh	0.30	mills/kWh	
Primary System Usage Charge Calc						
COS Franchise Fees & Other		1,105,823	MWh	2.54	mills/kWh	
Cust Impact Offset		1,105,823	MWh	<u>0.00</u>	mills/kWh	
COS System Usage Charge		1,105,823	MWh	2.54	mills/kWh	
DA Franchise Fees & Other		1,557,472	MWh	0.30	mills/kWh	
Cust Impact Offset		1,557,472	MWh	<u>0.00</u>	mills/kWh	
DA System Usage Charge		1,557,472	MWh	0.30	mills/kWh	
Subtransmission System Usage Charge Calc						
COS Franchise Fees & Other		38,613	MWh	2.51	mills/kWh	
Cust Impact Offset		38,613	MWh	<u>0.00</u>	mills/kWh	
COS System Usage Charge		38,613	MWh	2.51	mills/kWh	
DA Franchise Fees & Other		204,711	MWh	0.29	mills/kWh	
Cust Impact Offset		204,711	MWh	<u>0.00</u>	mills/kWh	
DA System Usage Charge		204,711	MWh	0.29	mills/kWh	
Secondary Energy Charge						
On-peak		0	MWh	41.88	mills/kWh	
Mid-peak		0	MWh	37.88	mills/kWh	
Off-peak		0	MWh	31.88	mills/kWh	
Secondary NVPC Charge						
On-peak		0		48.03	mills/kWh	
Mid-peak		0		44.03	mills/kWh	
Off-peak		0		38.03	mills/kWh	
Primary Energy Charge						
On-peak		237,426	MWh	41.49	mills/kWh	
Mid-peak		403,280	MWh	37.49	mills/kWh	
Off-peak		465,117	MWh	31.49	mills/kWh	
Primary NVPC Charge						
On-peak		237,426		47.57	mills/kWh	
Mid-peak		403,280		43.57	mills/kWh	
Off-peak		465,117		37.57	mills/kWh	
Subtransmission Energy Charge						

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		o
		Amount	Unit	Rate	Unit	
On-peak		6,530	MWh	41.09	mills/kWh	
Mid-peak		21,545	MWh	37.09	mills/kWh	
Off-peak		10,538	MWh	31.09	mills/kWh	
Subtransmission NVPC Charge						
On-peak		6,530		47.10	mills/kWh	
Mid-peak		21,545		43.10	mills/kWh	
Off-peak		10,538		37.10	mills/kWh	
Reactive Demand Charge		1,467,866	kVar	0.50	kVar	
Subtotal					w/ CIO	
					w/o CIO	

PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate		
		Amount	Unit	Rate	Unit	
SCHEDULE 90						
Primary Voltage Service						
Allocations						
Functional Costs						
Primary Basic Charge	\$1,762	8	Customers	\$18,352.48	per cust, per mo.	
Subtransmission Basic Charge		0	Customers	\$18,352.48	per cust, per mo.	
Transmission & Related Service Charge	\$19,083	5,479,269	kW on-peak	\$3.48	per kW on-peak	
Distribution Charges						
Feeder Backbone	\$5,105	5,770,990	kW faccap	\$0.88	per kW faccap	
Subtransmission Demand Charge	\$840	5,479,269	kW on-peak	\$0.15	per kW on-peak	
Substation Demand Charge	\$9,980	5,479,269	kW on-peak	\$1.82	per kW on-peak	
Primary Franchise Fees & Other	\$8,215	3,640,677	MWh	2.26	mills/kWh	
Subtransmission Franchise Fees & Other		0	MWh	2.29	mills/kWh	
Energy Charge	\$105,063.017	3,640,677	MWh	28.86	mills/kWh	
NVPC Charge	<u>\$151,649,229</u>	3,640,677	MWh	41.65	mills/kWh	
Subtotal	\$301,696.832					
Pricing						
Functional Costs						
Primary Basic Charge		8	Customers	\$18,400.00	per cust, per mo.	
Subtransmission Basic Charge		0	Customers	\$18,400.00	per cust, per mo.	
Primary Trans. & Rel. Serv. Charge		5,479,269	kW on-peak	\$3.44	per kW on-peak	
Subtransmission Trans & Rel Serv. Charge		0	kW on-peak	\$3.38	per kW on-peak	
Distribution Charges						
Primary Facilities Charge						
First 4,000 kW		384,000	kW faccap	\$0.98	per kW faccap	
Over 4,000 kW		5,386,990	kW faccap	\$0.67	per kW faccap	
Subtransmission Facilities Charge						
First 4,000 kW		384,000	kW faccap	\$0.98	per kW faccap	
Over 4,000 kW		5,386,990	kW faccap	\$0.67	per kW faccap	
Primary Demand Charge		5,479,269	kW on-peak	\$2.09	per kW on-peak	
Subtransmission Demand Charge		0	kW on-peak	\$0.13	per kW on-peak	
Primary System Usage Charge Calc >250MWa						
COS Franchise Fees & Other		3,092,966	MWh	2.26	mills/kWh	
Cust Impact Offset		3,092,966	MWh	<u>0.25</u>	mills/kWh	
COS System Usage Charge		3,092,966	MWh	2.51	mills/kWh	
Primary System Usage Charge Calc 30-250 Mwa						
COS Franchise Fees & Other		547,711	MWh	2.26	mills/kWh	
Cust Impact Offset		547,711	MWh	<u>0.25</u>	mills/kWh	
COS System Usage Charge		547,711	MWh	2.51	mills/kWh	
Subtransmission System Usage Charge Calc >250MWa						
COS Franchise Fees & Other		0	MWh	2.26		
Cust Impact Offset		0	MWh	<u>0.25</u>		
COS System Usage Charge		0	MWh	2.51	mills/kWh	
Subtransmission System Usage Charge Calc 30-250MWa						
COS Franchise Fees & Other		0	MWh	2.26		
Cust Impact Offset		0	MWh	<u>0.25</u>		
COS System Usage Charge		0	MWh	2.51	mills/kWh	
Primary Energy Charge 30-250MWa						
On-peak		314,812	MWh	36.23	mills/kWh	
Off-peak		232,900	MWh	28.73	mills/kWh	
Primary NVPC Charge 30-250MWa						
On-peak		314,812	MWh	44.86		
Off-peak		232,900	MWh	37.36		
Primary Energy Charge >250Mwa						
On-peak		1,771,816	MWh	31.34	mills/kWh	
Off-peak		1,321,149	MWh	23.84	mills/kWh	
Primary NVPC Charge >250Mwa						
On-peak		1,771,816		44.86		
Off-peak		1,321,149		37.36		
Subtransmission Energy Charge 30-250MWa						
On-peak		0	MWh	32.90	mills/kWh	
Off-peak		0	MWh	24.94	mills/kWh	
Subtransmission NVPC Charge 30-250MWa						
On-peak		0		47.10		
Off-peak		0		39.14		
Subtransmission Energy Charge >250MWa						
On-peak		0	MWh	30.99	mills/kWh	
Off-peak		0	MWh	23.49	mills/kWh	
Subtransmission NVPC Charge >250MWa						
On-peak		0		44.36		
Off-peak		0		36.86		
Reactive Demand Charge		1,293,494	kVar	\$0.50	kVar w/CIO	
					w/o CIO	

2025

Reactive	<u>\$2,507.004</u>	<u>\$2,507.004</u>	<u>\$0</u>
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**PORTLAND GENERAL ELECTRIC
RATE DESIGN
2025**

Schedule	Allocated Inputs (\$000)	Billing Determinants		Rate	
		Amount	Unit	Rate	Unit
Subtotal	\$3,030,728.068	\$3,030,728.067	(\$0)		

Note: figures are before employee discount and Schedule 129

**Annual
Revenue**
(\$000)

\$288,287
\$0
\$70,164
\$379,910
\$41,152
\$346,404
\$429,024
\$1,554,941

\$106,156.516
\$35,738.963
\$0.000
\$70,163.850
\$526,307.712

\$41,152.281
\$0.000
\$41,152.281

\$346,404.447
\$0.000
\$429,024.351

\$1,554,948.121
\$1,554,948.121

\$227.648
\$66.155
\$466.111
\$109.251
\$396.805
\$500.638
\$2,422.442
\$4,189.051

\$66.155
\$694.063

\$109.251
\$80.016
\$189.267
\$387.229
\$500.638
\$2,422.442
\$4,259.794

\$4,179.777

**Annual
Revenue
(\$000)**

\$37,291.589
\$26,775.132
\$10,986.173
\$66,757.425
\$7,456.540
\$59,178.647
\$73,129.100
\$281,574.607

\$17,542.104
\$14,219.172
\$10,986.173

\$93,508.463
\$5,545.592

\$7,456.540
\$0.000
\$7,456.540
\$59,178.647
\$73,129.100
\$281,565.791

\$281,565.791

\$152.434
\$688.086
\$188.335
\$2,090.811
\$146.033
\$1,016.845
\$1,255.295
\$5,537.839

\$55.800
\$208.080
\$188.335
\$2,667.400

\$146.033
-\$228.750
-\$82.716

\$254.823
\$492.418
\$269.547

C
\$304.916
\$601.311
\$349.010
\$0.000
\$5,308.925

\$5,537.675

**Annual
Revenue**
(\$000)

\$88.002
\$1,020.414
\$159.728
\$2,248.557
\$153.230
\$968.428
\$1,197.959
\$5,836.317

\$54.288
\$560.430
\$159.728

\$660.111
\$2,082.063

\$153.230
-\$193.476
-\$40.246
\$968.428
\$1,197.959
\$0.000
\$5,642.760

\$5,836.236

\$13.420
\$2,330.413
\$416.419
\$5,390.508
\$381.717
\$2,660.847
\$3,291.357
\$14,484.681

\$2.880
\$489.960
\$416.419

\$1,383.156
\$5,857.462

\$381.717
-\$502.291
-\$120.573
\$2,660.847
\$3,291.357
\$0.000
\$13,981.507

\$14,483.798

**Annual
Revenue**
(\$000)

\$2,324.193
\$40,000.234
\$20,235.413

\$40,052.161
\$35,289.862
\$1,046.659
\$12,211.025
\$10,729.903
\$108,693.637
\$134,280.330
\$404,863.417

\$535.800
\$7,850.880

\$30,014.306
\$0.000

\$26,500.781
\$48,899.604

\$18,198.329
\$0.000

\$10,729.903
\$0.000
\$18,727.524
\$29,457.427

\$19,207.517
\$31,409.284
\$20,027.200

\$22,942.845
\$38,456.161
\$25,866.384
\$85,040.534
\$450.591
\$404,857.642

\$404,857.642

**Annual
Revenue
(\$000)**

\$15,417.113
\$1,991.055
\$17,854.236

\$33,567.549
\$9,011.422
\$1,039.132
\$12,642.774
\$6,396.738
\$2,304.605
\$100,262.983
\$123,721.154
\$324,208.761

\$15,383.340
\$1,989.120
\$18,930.194
\$5,001.128

\$10,043.376
\$14,034.279

\$1,510.656
\$5,605.034
\$13,870.333
\$4,359.357

\$6,102.604
\$0.000
\$6,102.604
\$289.312
\$0.000
\$289.312

\$2,127.589
\$0.000
\$2,127.589
\$184.064
\$0.000
\$184.064

\$12,516.671
\$22,030.310
\$13,869.093

\$14,910.452
\$26,917.130
\$17,916.069
\$62,012.706

\$4,486.619
\$6,990.232
\$5,261.404

\$5,343.070
\$8,540.166
\$6,801.122
\$16,384.510
\$675.733
\$324,085.674
\$324,085.674

**Annual
Revenue**
(\$000)

\$0.000
\$2,254.650
\$418.276
\$7,734.132

\$6,917.779
\$0.000
\$786.939
\$8,535.699
\$0.000
\$3,275.853
\$158.161
\$41,005.143
\$47,974.759
\$119,061.391

\$0.000
\$2,256.390
\$418.320
\$0.000
\$7,029.433
\$605.061

\$0.000
\$0.000

\$2,613.240
\$2,479.513

\$339.840
\$352.214

\$0.000
\$9,801.984
\$72.321

\$0.000
\$0.000
\$0.000
\$0.000
\$0.000
\$0.000

\$2,808.790
\$0.000
\$2,808.790
\$467.242
\$0.000
\$467.242

\$96.919
\$0.000
\$96.919
\$59.366
\$0.000
\$59.366

\$0.000
\$0.000
\$0.000

\$0.000
\$0.000
\$0.000

\$9,850.818
\$15,118.964
\$14,646.519

\$11,294.370
\$17,570.906
\$17,474.427

Annual Revenue (\$000)
\$268.319
\$799.108
\$327.632
\$307.564
\$928.594
\$390.966
<u>\$733.933</u>
\$119,112.752
\$119,112.752

**Annual
Revenue**
(\$000)

\$1,761.838
\$0.000
\$19,067.857

\$5,078.471
\$821.890
\$9,972.270
\$8,227.930
\$0.000
\$105,069.937
\$151,634.195
\$301,634.389

\$1,766.400
\$0.000
\$18,848.687
\$0.000

\$376.320
\$3,609.283

\$376.320
\$3,609.283
\$11,451.673
\$0.000

\$6,990.102
\$773.241
\$7,763.344

\$1,237.828
\$136.928
\$1,374.755

\$0.000
\$0.000
\$0.000

\$0.000
\$0.000
\$0.000

\$11,405.621
\$6,691.211

\$14,122.444
\$8,701.136

\$55,528.727
\$31,496.198

\$79,483.686
\$49,358.135

\$0.000
\$0.000

\$0.000
\$0.000

\$646.747
\$306,609.969

\$305,699.799

**Annual
Revenue**
(\$000)

\$1,012.099
\$189.965
\$1,510.164
\$367.983
\$1,214.264
\$1,532.068
\$8,310.931
\$14,137.475

\$189.965
\$2,522.914

\$367.983
-\$80.048
\$287.935
\$1,223.822
\$1,532.068
\$8,310.931
\$14,067.635

\$14,147.683

\$10.299
\$14.876
\$33.617
\$7.369
\$91.494
\$115.451
\$273.106

\$14.876
\$43.912

\$7.369
\$0.000
\$7.369
\$91.494
\$115.451
\$273.102

\$273.102

Annual
Revenue
(\$000)

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	\$64,856.868	18,692,296	kW	\$3.47	per kW demand		\$64,862
Secondary		14,064,512	kW	\$3.48	per kW demand		\$48,945
Primary		4,448,772	kW	\$3.44	per kW demand		\$15,304
Subtransmission		179,012	kW	\$3.38	per kW demand		\$605
Total Schedule 83/85/89/90 Transmission Reven	\$64,857						\$64,853
Distribution Demand Pricing for Schedules 83, 85, 89, 90							
Distribution Demand Pricing (subtransmission)	\$3,766	28,009,763	kW	\$0.13	per kW demand		\$3,766
Secondary		15,198,418	kW	\$0.13	per kW demand		\$2,044
Primary		6,775,761	kW	\$0.13	per kW demand		\$911
Subtransmission		556,314	kW	\$0.13	per kW demand		\$75
							\$3,029
Distribution Demand Pricing (substations)	\$43,361	21,974,180	kW	\$1.97	per kW demand		\$43,361
Secondary		15,198,418	kW	\$1.98	per kW demand		\$30,085
Primary		6,775,761	kW	\$1.96	per kW demand		\$13,277
							\$43,361
Distribution Demand Prices							
Secondary		15,198,418		\$2.11			\$32,069
Primary		6,775,761		\$2.09			\$14,161
Subtransmission		556,314		\$0.13			\$72
	\$47,127						\$46,302
Secondary/Primary Transmission Delta				\$0.0400			
Secondary/Subtransmission Transmission Delta				\$0.1000			
Secondary/Primary 115 kV Delta				\$0.00			
Secondary/Subtransmission kV Delta				\$0.00			
Secondary/Primary Substation Delta				\$0.02			
Schedule 85 Price Differential (Generation)							
	Total	Energy	Demand	BD			
Schedule 85 Price Differentials							
Schedule 85 Energy Allocations	\$65,164	2,759,785	MWh	23.61	mills/kWh		\$65,164
Schedule 85 Secondary Energy		2,041,005	MWh	23.68	mills/kWh		\$48,331
Schedule 85 Primary Energy		718,780	MWh	23.42	mills/kWh		\$16,834
Schedule 85 NVPC Allocations	\$80,417	2,759,785	MWh	29.14	mills/kWh		\$80,417
Schedule 85 Secondary NVPC		2,041,005	MWh	29.21	mills/kWh		\$59,618
Schedule 85 Primary NVPC		718,780	MWh	28.95	mills/kWh		\$20,809
Total Energy				52.75			
Energy Secondary/Primary Delta				0.26	mills/kWh		
NVPC Secondary/Primary Delta				0.32	mills/kWh		
Schedule 85 Secondary Energy Pricing							
On-peak		431,312	MWh	29.02	mills/kWh		\$12,517
Mid-peak		880,508	MWh	25.02	mills/kWh		\$22,030
Off-peak		729,185	MWh	19.02	mills/kWh		\$13,869
Schedule 85 Primary Energy Pricing							
On-peak		156,002	MWh	28.76	mills/kWh		\$4,487
Mid-peak		282,320	MWh	24.76	mills/kWh		\$6,990
Off-peak		280,459	MWh	18.76	mills/kWh		\$5,261
Schedule 85 Secondary NVPC Pricing							
On-peak		431,312	MWh	34.57	mills/kWh		\$14,910
Mid-peak		880,508	MWh	30.57	mills/kWh		\$26,917
Off-peak		729,185	MWh	24.57	mills/kWh		\$17,916
Schedule 85 Primary NVPC Pricing							
On-peak		156,002	MWh	34.25	mills/kWh		\$5,343
Mid-peak		282,320	MWh	30.25	mills/kWh		\$8,540
Off-peak		280,459	MWh	24.25	mills/kWh		\$6,801
Schedule 85 Generation Demand Price							
	35%						
	Total	Energy					
Schedule 85 Generation Demand Energy Allocati	\$78,390	6,893,527	kW	\$11.37	per kW demand		\$78,389.73
Schedule 85 Secondary Generation Demand Pricing		5,439,711	kW	\$11.40	per kW demand		\$62,012.71
Schedule 85 Primary Generation Demand Pricing		1,453,816	kW	\$11.27	per kW demand		\$16,384.51
Secondary/Primary Delta				0.13			
Total Schedule 85 Energy Revenues	\$223,971						\$145,582

Schedule 85 Facility Charges	\$42,500				
Under-recovery of other charges	(\$11,297)				
Total Facilities Revenues to Recover	\$31,204				
Schedule 85 Secondary Facilities		11,264,278	kW faccap	\$2.77 per kW faccap	\$31,204
First 200		3,536,400	kW faccap	\$2.84 per kW faccap	\$10,043
Over 200		5,122,000	kW faccap	\$2.74 per kW faccap	\$14,034
Schedule 85 Primary Facilities					
First 200		537,600	kW faccap	\$2.81 per kW faccap	\$1,511
Over 200		2,068,278	kW faccap	\$2.71 per kW faccap	\$5,605
Secondary/Primary Facilities Delta					\$31,193

Line Loss \$0.03

Economies of Scale Blocking, Rate Continuum \$0.10

Schedule 89 and Sch 90 Price Differentials

						CHECKS
Schedule 89 Energy Allocations	\$41,009	1,144,436 MWh	35.83	mills/kWh	\$41,009	\$41,011
Schedule 89 Secondary Energy		MWh	36.24	mills/kWh	\$0	\$0
Schedule 89 Primary Energy		1,105,823 MWh	35.85	mills/kWh	\$39,644	\$39,616
Schedule 89 Subtransmission Energy		38,613 MWh	35.45	mills/kWh	\$1,369	\$1,395
Schedule 89 NVPC Allocations	\$47,972	1,144,436 MWh	41.92	mills/kWh	\$47,972	\$47,967
Schedule 89 Secondary NVPC		MWh	42.32	mills/kWh	\$0	\$0
Schedule 89 Primary NVPC		1,105,823 MWh	41.93	mills/kWh	\$46,367	\$46,340
Schedule 89 Subtransmission NVPC		38,613 MWh	41.53	mills/kWh	\$1,604	\$1,627

Total Schedule 89 Energy Revenues \$88,981 77.75 \$136,956

Energy Secondary/Primary Delta	0.39
Energy Primary/Subtransmission Delta	0.40
NVPC Secondary/Primary Delta	0.46
NVPC Primary/Subtransmission Delta	0.47

					Load Distribution	Mid-C Price (\$/MWh)
Schedule 89 Secondary Energy Pricing						
On-peak	0 MWh	41.88	mills/kWh	\$0	89.91	75.30
Mid-peak	0 MWh	37.88	mills/kWh	\$0	81.91	60.66
Off-peak	0 MWh	31.88	mills/kWh	\$0	69.91	51.76
Schedule 89 Primary Energy Pricing						
On-peak	237,426 MWh	41.49	mills/kWh	\$9,851	89.06	75.30
Mid-peak	403,280 MWh	37.49	mills/kWh	\$15,119	81.06	60.66
Off-peak	465,117 MWh	31.49	mills/kWh	\$14,647	69.06	51.76
Schedule 89 Subtransmission Energy Pricing						
On-peak	6,530 MWh	41.09	mills/kWh	\$268	88.19	75.30
Mid-peak	21,545 MWh	37.09	mills/kWh	\$799	80.19	60.66
Off-peak	10,538 MWh	31.09	mills/kWh	\$328	68.19	51.76
Schedule 89 Secondary NVPC Pricing						
On-peak	0 MWh	48.03	mills/kWh	\$0		
Mid-peak	0 MWh	44.03	mills/kWh	\$0		
Off-peak	0 MWh	38.03	mills/kWh	\$0		
Schedule 89 Primary NVPC Pricing						
On-peak	237,426 MWh	47.57	mills/kWh	\$11,294		
Mid-peak	403,280 MWh	43.57	mills/kWh	\$17,571		
Off-peak	465,117 MWh	37.57	mills/kWh	\$17,474		
Schedule 89 Subtransmission NVPC Pricing						

On-peak		6,530 MWh	47.10 mills/kWh	\$308
Mid-peak		21,545 MWh	43.10 mills/kWh	\$929
Off-peak		10,538 MWh	37.10 mills/kWh	\$391
Total Schedule 89 Energy Revenues	\$88,981			\$88,978

Schedule 90 Primary Energy Pricing				
On-peak			31.34	44.86
Off-peak			23.84	37.36
Schedule 90 Subtransmission Energy Pricing				
On-peak			30.99	44.36
Off-peak			23.49	36.86

Schedule 89 Facilities Blocking at 4,000 kW

Schedule 89 Facility Charges	\$6,928	This includes 89-T Subtransmission Feeder Costs			
Under-recovery of other charges	(\$1,154)				
Total Facilities Revenues to Recover	\$5,774				
Secondary		5,706,473	kW faccap	\$1.01 per kW faccap	\$5,764
First 4,000		0	kW faccap	\$1.20 per kW faccap	\$0
Over 4,000		0	kW faccap	\$0.89 per kW faccap	\$0
Primary					
First 4,000		2,196,000	kW faccap	\$1.19 per kW faccap	\$2,613
Over 4,000		2,817,629	kW faccap	\$0.88 per kW faccap	\$2,480
Subtransmission					
First 4,000		288,000	kW faccap	\$1.18 per kW faccap	\$340
Over 4,000		404,844	kW faccap	\$0.87 per kW faccap	\$352
					\$5,785
Secondary/Primary Facilities Delta	Blocking			\$0.010	
Primary/Subtransmission Facilities Delta				\$0.020	
Blocking	\$0.31			\$0.31	

Demand and Energy Loss Differentials for Selected Schedules

Schedule 85: Secondary/Primary	Losses		
Embedded energy loss differentials	1.107%		
Peak demand loss differential	1.130%		
Schedule 89	Sec/Prim	Prim/Subtrans	
Embedded energy loss differentials	1.107%	1.136%	
Peak demand loss differentials	1.130%	1.820%	

Marginal Cost (\$)	Marginal Cost (%)	Designed Price (mills/kWh)	Price Differentials	Adj Price ifferentials	Adj Price ifferentials
11.77	19.4%	65.63			
19.35	32.0%	52.87	13.0	8	4
13.68	22.6%	45.12	8.0	12	6
Marginal Cost (\$)	Marginal Cost (%)	Designed Price (mills/kWh)	Price Differentials	Adj Price ifferentials	Adj Price ifferentials
4.26	7.0%	65.63			
6.21	10.3%	52.87	13.0	8	4
5.26	8.7%	45.12	8.0	12	6
100.0%					

Marginal Cost (\$)	Marginal Cost (%)	Designed Price (mills/kWh)	Price Differentials	Adj Price ifferentials	Adj Price ifferentials
-	0.0%		0.0	8	4
-	0.0%		0.0	12	6
-	0.0%				
Marginal Cost (\$)	Marginal Cost (%)	Designed Price (mills/kWh)	Price Differentials	Adj Price ifferentials	Adj Price ifferentials
15.62	26.0%	97.45			
21.38	35.6%	78.50	19.0	8	4
21.04	35.0%	66.98	12.0	12	6
Marginal Cost (\$)	Marginal Cost (%)	Designed Price (mills/kWh)	Price Differentials	Adj Price ifferentials	Adj Price ifferentials
0.43	0.7%	97.45			
1.14	1.9%	78.50	19.0	8	4
0.48	0.8%	66.98	12.0	12	6
100.0%					

Average Revenue per Customer from Schedule 7 Standard Customer

	Std Price	Units	Revenue
Energy	98.36	mills/kWh	\$76.72
Transmission	8.90	mills/kWh	\$6.94
Distribution	71.98	mills/kWh	\$56.14
Total	179.24		\$139.80

Average Monthly Use (kWh) 780

Schedule 7 TOD Prices Design

	Res Std Rate Monthly kWh per Window	Initial Price mills/kWh	Generation Adjustments mills/kWh	Final Price mills/kWh	Revenue (\$)	Initial Price mills/kWh
Onpeak	119	155.94	41.52	197.46	23.50	22.60
Midpeak	236	107.10	-17.92	89.18	21.05	11.00
Offpeak	425	77.39	-1.67	75.72	32.18	3.90
Revenue from TOD Price Option >>>					76.73	
Revenue from Standard Price Plan >>>					76.72	

Usage and Cost Allocation Inputs

	Onpeak	Midpeak	Offpeak
Portion of unmet load hours from	38.8%	37.4%	23.8%
Residential Usage (Load Research)	15.3%	30.2%	54.4%

Distribution c

Onpeak
Midpeak
Offpeak

Onpeak
Midpeak
Offpeak

Schedule 7 TOD Tariff Prices (cents/kWh)

	Energy	Transmission	Distribution	Combined
Onpeak	19.746	2.580	20.880	43.206
Midpeak	8.918	0.930	7.600	17.448
Offpeak	7.572	0.390	3.140	11.102

Transmission			Distribution				
Adjustments	Final Price	Revenue	Initial Price	Adjustments	Final Price	Revenue	Comb. Price
mills/kWh	mills/kWh	(\$)	mills/kWh	mills/kWh	mills/kWh	(\$)	mills/kWh
3.20	25.80	3.07	183.00	25.80	208.80	24.85	432.06
-1.70	9.30	2.19	89.00	-13.00	76.00	17.94	174.48
0.00	3.90	1.66	31.40	0.00	31.40	13.35	111.02
		6.92				56.13	
		6.94				56.14	

of System Costs

Desgined Gen.	Actual Gen.	Desgined Trans.	Actual Trans.	Desgined Dist.	Actual Dist.
24.2%	30.6%	38.8%	44.2%	38.8%	44.3%
32.9%	27.4%	37.4%	31.6%	37.4%	31.9%
42.9%	41.9%	23.8%	23.9%	23.8%	23.8%

Marginal Cost of Gen.	
Capacity	Energy
38%	62%
38.8%	15.3%
37.4%	30.2%
23.8%	54.4%

omb. Price Combined cents/kWh revenue (\$)	
43.206	51.42
17.448	41.18
11.102	47.18
	139.78
	139.80

2025 Schedule 32 COS Energy Prices

Energy	Energy Prices mills/kWh	Monthly kWh	Revenues
Schedule 32	38.73	1,315	\$50.93

Schedule 32 TOU Tariff Prices (cents/kWh)

Peaks	Energy
Onpeak	6.843
Midpeak	3.873
Offpeak	2.281

2025 Schedule 32 TOU Energy Prices

Peaks	Energy Prices mills/kWh	Monthly kWh	Revenues	Energy Prices mills/kWh
On-peak	68.43	263	\$18.00	68.43
Mid-peak	38.73	561	\$21.74	38.73
Off-peak	22.81	491	\$11.19	22.81
Total		1,315	\$50.93	
On/Off Ratio	3.00			

Peaks	2019-2021 Average kWh Percentages
On-peak	20.0%
Mid-peak	42.7%
Off-peak	37.3%

2025 Sch 32 TOU Forecast

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Customers	262	262	262	262	262	262	262	263	263	263	263
Energy (MWh)											
First 5 MWh	784	752	751	734	789	783	767	759	772	731	733
Over 5 MWh	272	181	165	180	231	262	283	269	266	209	194
Peak Energy (MWh)											
On-peak Energy	216	191	188	188	170	175	175	172	173	157	190
Mid-peak Energy	399	353	346	346	428	439	441	432	436	395	350
Off-peak Energy	440	389	382	381	421	432	434	425	429	389	386

Energy Revenues at Standard Tariff

Energy	MWh	Price	Revenues
Schedule 32	11,908	38.73	\$461,180

Energy Revenues at TOU Pricing

Peaks	MWh	Price	Revenues
On-peak Energy	2,208	68.43	\$151,117
Mid-peak Energy	4,758	38.73	\$184,287
Off-peak Energy	4,941	22.81	\$112,703
Totals	11,908		\$448,108
TOU Decrement			(\$13,072)
Schedule 32 Energy (MWh)			1,527,980
Std Tariff Adder (mills/kWh)	0.01		0.00
Schedule 32 Revenues			\$0

Dec	Total
263	3,149
786	9,141
253	2,767
213	2,208
392	4,758
433	4,941

System Usage Charge Summary

Schedules	Total mills/kWh
Schedule 7	5.22
Schedule 15	15.02
Schedule 515	13.06
Schedule 32	4.88
Schedule 532	2.41
Schedule 38	(3.07)
Schedule 538	(5.48)
Schedule 47	(1.92)
Schedule 49	(2.05)
Schedule 549	(4.90)
Schedule 83	10.35
Schedule 583	7.91
Schedule 85-S	2.99
Schedule 485-S	0.66
Schedule 585-S	0.66
Schedule 89-S GT 4 MW	2.57
Schedule 489-S GT 4 MW	0.30
Schedule 589-S GT 4 MW	0.30
Schedule 85-P	2.96
Schedule 485-P	0.66
Schedule 585-P	0.66
Schedule 89-P GT 4 MW	2.54
Schedule 489-P GT 4 MW	0.30
Schedule 589-P GT 4 MW	0.30
Schedule 689-P GT 4 MW	0.30
Schedule 89-T	2.51
Schedule 489-T	0.29
Schedule 589-T	0.29
Schedule 90-P >250MWa	2.51
Schedule 90-P 30-250 Mwa	2.51
Schedule 90-T >250MWa	2.51
Schedule 90-T 30-250 Mwa	2.51
Schedule 490 P	0.51
Schedule 490T	0.51
Schedule 590 P	0.51
Schedule 590 T	0.51
Schedules 91/95	7.23
Schedule 591/595	5.27
Schedule 92	2.67
Schedule 592	0.55

PORTLAND GENERAL ELECTRIC
Calculation of 2025 Wheeling Charge

Nonresidential Schedules	12 CP	Applicable MWh	aMW	LF	Wheeling Energy Price												
Schedule 15	249.4	13,408	1.5														
Schedule 32	4.3	1,625,526	185.6														
Schedule 38	3.6	28,664	3.3														
Schedule 47	9.4	22,589	2.6														
Schedule 49	458.7	62,318	7.1														
Schedule 83	403.8	3,029,467	345.8														
Schedule 85	149.0	2,934,204	335.0														
Schedule 89	455.8	1,208,975	138.0														
Schedule 90	4.3	3,849,348	439.4														
Schedule 91/95	0.3	42,375	4.8														
Schedule 92	0.0	2,937	0.3														
Totals	1,738.5	12,819,813	1,463.4	84.18%	3.19 mills/kWh												
Hours	Jan 744	Feb 672	Mar 744	Apr 720	May 744	Jun 720	Jul 744	Aug 744	Sep 720	Oct 744	Nov 720	Dec 744	8,760				
Calculation of Wheeling for Schedules 485, 489, 490, 491, 492, and 495																	
BPA PTP	1.960 kW-month BPA PTP rate+ Scheduling, System Control and Dispatch Rate PTP										PTP	\$1.65					
Hours	730 average hours per 12 months										SSC&D	\$0.32					
											Total	\$1.964 p/kW					

Daily Schedule 76 Prices

Schedule 76 ERP Daily Distribution Demand Charge

	Secondary	Primary	Subtransmission
Annual	\$25.32	\$25.08	\$1.56
Monthly	\$2.11	\$2.09	\$0.13
Daily	0.082	0.081	0.005 (annual charge / (313-5))

Schedule 76 ERP Daily Transmission Demand Charge

	Secondary	Primary	Subtransmission
Annual	\$41.76	\$41.28	\$40.56
Monthly	\$3.48	\$3.44	\$3.38
Daily	0.136	0.134	0.132 (annual charge / (313-5))

Daily charges are for on-peak hours only

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

Schedule 91 & 95 Categories	MWH	2025 GRC Price	2024 Price	Delta Price	Delta Revenues	Percent Change of Energy Bill *
Functional Costs						
Trans. & Rel. Serv. Charge	39,825	4.77	4.13	0.64	\$25	0.48%
Distribution Charge	39,825	63.35	56.99	6.36	\$253	4.78%
Franchise Fees & Other	39,825	9.24	11.05	(1.81)	(\$72)	-1.36%
CIO	39,825	(2.01)	(3.65)	1.64	\$65	1.23%
COS Energy Charge	39,825	30.73	64.48	(33.75)	(\$1,344)	-25.38%
Schedule 125	39,825	38.47	0.00	38.47	\$1,532	28.92%
Schedule 122	39,825	0.00	0.00	0.00	\$0	0.00%
Subtotal		144.55	133.00	11.55	\$460	8.68%

Schedule 15 Categories	MWH	2025 GRC Price	2024 Price	Delta Price	Delta Revenues	Percent Change of Energy Bill*
Functional Costs						
Trans. & Rel. Serv. Charge	12,601	5.25	3.94	1.31	\$17	0.98%
Distribution Charge	12,601	55.08	52.59	2.49	\$31	1.87%
Franchise Fees & Other	12,601	8.67	0.47	8.20	\$103	6.17%
CIO	12,601	6.35	11.52	(5.17)	(\$65)	-3.89%
COS Energy Charge	12,601	30.73	64.48	(33.75)	(\$425)	-25.38%
Schedule 125	12,601	38.47	0.00	38.47	\$485	28.92%
Schedule 122	12,601	0.00	0.00	0.00	\$0	0.00%
Subtotal		144.55	133.00	11.55	\$146	8.68%

Schedule 15 T&D prices	12,601	69.00	\$869	\$6.35	\$80,016	
Schedule 91 T&D prices	39,825	77.36	\$3,081	(\$2.01)	(\$80,048)	
	52,426		\$3,950	\$75.35	(\$32)	
Schedule 15 Generation Price	12,601	31.49	\$397	(\$0.76)	\$30.73	
Schedule 91 Generation Price	39,825	30.49	\$1,214	\$0.24	\$30.73	
	52,426		\$1,611	\$30.73		

Lighting Fixed Revenues	Proposed 2025 Revs	Current 2024 Revs	Delta Revenues	
Schedule 91	\$3,482,147	\$3,557,316	-\$75,169	-2%
Schedule 95	\$4,828,783	\$4,431,378	\$397,405	9%
Schedule 15	\$2,422,442	\$2,282,087	\$140,355	6%

PORTLAND GENERAL ELECTRIC

Proposed Schedule 123, Summary of Sales Normalization Adjustment Components

Schedule	Fixed Charge Energy Rate mills/kWh	Monthly Fixed Charge Per Customer	Monthly Secondary Fixed Charge Per Customer
7	118.90	\$93.22	\$67.12
32, 532	110.04	\$144.72	
38/538	134.51	\$790.61	

Schedule 7 Tariff Category	Price mills/kWh	2025 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	8.90	7,883,579	\$70,163,850	\$83.73	\$6.98
Distribution	66.76	7,883,579	\$526,307,712	\$628.09	\$52.34
Trojan Decommissioning	0.11	7,883,579	\$867,194	\$1.03	\$0.09
CIO	0.00	7,883,579	\$0	\$0.00	\$0.00
Fixed Generation	43.13	7,883,579	\$340,018,748	\$405.78	\$33.81
Totals	118.90		\$937,357,504	\$1,118.64	\$93.22
Secondary Fixed Charge (72%)		72%			\$67.12
Number of 2025 Customers	837,946				
Revenues per customer	\$1,118.64				
Monthly Revenues per customer	\$93.22				
Annual kWh per Customer	9,408				

Schedule 32 Tariff Category	Price mills/kWh	2025 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	7.19	1,527,980	\$10,986,173	\$113.47	\$9.46
Distribution Block 1	69.62	1,343,126	\$93,508,463	\$965.83	\$80.49
Distribution Block 2	30.00	184,853	\$5,545,592	\$57.28	\$4.77
Trojan Decommissioning	0.09	1,527,980	\$137,518	\$1.42	\$0.12
CIO	0.00	1,527,980	\$0	\$0.00	\$0.00
Fixed Generation	37.93	1,527,980	\$57,956,263	\$598.62	\$49.88
Totals	110.04		\$168,134,010	\$1,736.62	\$144.72
Number of 2025 Customers	96,817				
Revenues per customer	\$1,736.62				
Monthly Revenues per customer	\$144.72				
Annual kWh per Customer	15,782				

Schedule 38 Tariff Category	Price mills/kWh	2025 MWH	Revenues	Per Cust. Revenues	Monthly Revenues
Transmission & Ancillary	6.99	26,943	\$188,335	\$493.02	\$41.09
Distribution Block 1	99.00	26,943	\$2,667,400	\$6,982.72	\$581.89
Distribution Block 2	0.00	0	\$0	\$0.00	\$0.00
Trojan Decommissioning	0.09	26,943	\$2,425	\$6.35	\$0.53
CIO	(8.49)	26,943	(\$228,750)	(\$598.82)	(\$49.90)
Fixed Generation	36.92	26,943	\$994,752	\$2,604.06	\$217.01
Totals	134.51		\$3,624,162	\$9,487.33	\$790.61

Number of 2025 Customers	382
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Revenues per customer	\$9,487.33
Monthly Revenues per customer	\$790.61
Annual kWh per Customer	70,533

Proposed Line Extension Allowances

Schedule	LEA	Notes:
Sch 32	\$0.3425	Four times annual Basic & Distribution revenues
Sch 38, 83	\$0.1461	Four times annual Basic & Distribution revenues
Sch 85 & 89 Secondary	\$0.0860	Four times annual Basic & Distribution revenues
Sch 85 & 89 Primary	\$0.0389	Four times annual Basic & Distribution revenues
Sch 15, 91 & 95	\$0.1841	Optional Schedule: Three times annual Distribution revenues
Sch 92	\$0.0477	Optional Schedule: Three times annual Distribution revenues
Sch 47 & 49	\$0.1390	Optional Schedule: One times annual Distribution revenues

Schedule	Basic Charge Revenues	Distribution Revenues	Subtotal Revenues	MWh	Cents/kWh	Multiplier
Sch 15	0	\$694,063	\$694,063	12,601	\$0.0551	3
Sch 32	\$31,761,276	\$99,054,055	\$130,815,331	1,527,980	\$0.0856	4
Sch 38	\$263,880	\$2,667,400	\$2,931,280	26,943	\$0.1088	4
Sch 47	\$614,718	\$2,742,174	\$3,356,892	20,962	\$0.1601	1
Sch 49	\$492,840	\$7,240,618	\$7,733,458	58,816	\$0.1315	1
Sch 83	\$8,386,680	\$93,598,714	\$101,985,394	2,846,128	\$0.0358	4
Sch 85-S	\$15,383,340	\$37,947,989	\$53,331,329	2,479,356	\$0.0215	4
Sch 85-P	\$1,989,120	\$11,475,047	\$13,464,167	997,664	\$0.0135	4
Sch 89-S	\$0	\$0	\$0	0	#DIV/0!	4
Sch 89-P	\$2,256,390	\$14,894,737	\$17,151,127	2,148,224	\$0.0080	4
Sch 91	\$0	\$624,884	\$624,884	9,864	\$0.0634	3
Sch 92	\$0	\$43,912	\$43,912	2,760	\$0.0159	3
Sch 95	\$0	\$1,898,029	\$1,898,029	29,961	\$0.0634	3

Comparison of Proposed and Current LEAs

	Proposed	Current
Schedule	LEA	LEA
Sch 15	\$ 0.1841	\$ 0.0850
Sch 32	\$ 0.3425	\$ 0.2564
Sch 38	\$ 0.1461	\$ 0.1050
Sch 47	\$ 0.1390	\$ 0.0980
Sch 49	\$ 0.1390	\$ 0.0980
Sch 83	\$ 0.1461	\$ 0.1050
Sch 85-S	\$ 0.0860	\$ 0.0778
Sch 85-P	\$ 0.0389	\$ 0.0429
Sch 89-S	\$ 0.0860	\$ 0.0778
Sch 89-P	\$ 0.0389	\$ 0.0429
Sch 91	\$ 0.1841	\$ 0.1529
Sch 92	\$ 0.0477	\$ 0.0424
Sch 95	\$ 0.1841	\$ 0.1529

LEA @ Multiplier
times cents/kWh

\$0.1652

\$0.3425

\$0.4352

\$0.1601

\$0.1315

\$0.1433

\$0.0860

\$0.0540

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\$0.0319

\$0.1901

\$0.0477

\$0.1901

Lighting Additional O&M

	No. of Lights	Intersections
Schedule 15R	6,747	
Schedule 15C	14,336	
Schedule 91 & 95	151,172	
Schedule 92		1,248
Lights	172,255	
Intersections		1,248

Lighting Services Test Period O&M (2025 Budget forecast)

Lighting O&M	\$263,418
O&M per light	\$1.53

Design Demand per Rate Schedule

Grouping	Design	Average Customers	Design Demand	
Schedule 7 1-phase	4.0	837,946	3,351,783	
Schedule 7 3-phase	4.0	0	0	
Schedule 32 1-phase	4.5	60,910	274,095	
Schedule 32 3-phase	11.1	35,907	398,568	
Schedule 38 1-phase	42.1	93	3,915	
Schedule 38 3 phase	101.6	289	29,362	
Schedule 47 1-phase	10.4	232	2,413	
Schedule 47 3 phase	15.7	2,395	37,602	
Schedule 49 1-phase	36.9	8	295	
Schedule 49 3 phase	55.7	1,361	75,808	1.72
Schedule 83 1-phase	54.8	893	48,936	12,211,025
Schedule 83 3 phase	88.8	10,904	968,275	587,237
Schedule 85	553.0	1,698	938,718	11,619,302
				12,206,539
Commercial LTE 30 kW	Design	NCP		
1-phase	4.5	2.1		
3-phase	11.4	5.2		
Commercial 31-200 kW				
1-phase	53.5	29.6		
3-phase	85.5	48.3		
Sch 32 1-phase	10,907			
Schedule 7 per customer	9,697			
Ratio	1.12			

Contribution to 2025 System Peak by COS Rate Schedule

Schedule	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Schedule 7	1,724.0	1,675.0	1,410.0	1,195.0	1,340.0	1,706.0	1,942.0	2,013.0	1,563.0	1,153.0	1,556.0
Schedule 15	3.4	3.5	2.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Schedule 32	247.5	239.4	234.7	225.1	241.1	270.3	292.4	290.0	269.3	215.9	223.7
Schedule 38	4.8	4.3	5.0	4.4	3.4	3.9	4.6	4.1	4.3	4.4	4.5
Schedule 47	1.0	1.0	1.3	1.4	4.5	6.0	8.8	8.7	6.2	2.0	1.1
Schedule 49	2.1	2.5	2.4	2.7	9.9	19.2	24.9	23.8	18.1	3.6	1.6
Schedule 83	434.6	440.2	447.9	418.6	456.6	484.1	527.5	528.1	499.6	439.3	401.3
Schedule 85	377.4	396.9	402.9	418.9	387.5	398.5	439.9	440.2	428.2	406.6	375.3
Schedule 89	131.9	142.2	148.9	147.9	149.7	150.4	149.9	154.3	158.9	159.3	152.3
Schedule 90	402.9	423.5	428.5	428.7	456.4	479.8	476.2	518.4	513.9	480.8	436.8
Schedule 91/95	9.7	10.0	6.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	9.6
Schedule 92	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
System Total	3,339.5	3,338.9	3,090.8	2,850.4	3,049.4	3,518.5	3,866.6	3,981.0	3,461.7	2,865.2	3,165.8

Dec	12-CP	4-CP	12-CP Percent	4-CP Percent
1,925.0	1,600.2	1,901.0	47.9%	51.6%
3.4	1.5	1.7	0.0%	0.0%
243.4	249.4	268.3	7.5%	7.3%
3.7	4.3	4.3	0.1%	0.1%
1.3	3.6	4.9	0.1%	0.1%
1.4	9.4	13.1	0.3%	0.4%
427.2	458.7	479.4	13.7%	13.0%
373.1	403.8	407.6	12.1%	11.1%
141.8	149.0	144.5	4.5%	3.9%
423.6	455.8	455.3	13.6%	12.4%
9.6	4.3	4.8	0.1%	0.1%
0.3	0.3	0.3	0.0%	0.0%
3,553.9	3,340.1	3,685.2	100.0%	100.0%

Determination of 2025 Class Non-coincident Peaks (115 kV)

Grouping	Load Factor	MWH	Load Factor times Hrs/Year	Class Peak (MW)	
Schedule 7	45.43%	8,236,773	3,980	2,069.7	2,069,674
Schedule 15	46.36%	13,130	4,061	3.2	3,233
Schedule 32	55.98%	1,591,856	4,904	324.6	324,615
Schedule 38	38.95%	28,071	3,412	8.2	8,227
Schedule 47	20.60%	22,121	1,805	12.3	12,256
Schedule 49	19.59%	61,028	1,716	35.6	35,570
Schedule 83	56.07%	2,966,716	4,911	604.0	604,046
Schedule 85	66.27%	3,619,649	5,805	623.6	623,550
Schedule 89	77.48%	3,005,536	6,787	442.8	442,825
Schedule 90	84.48%	3,768,776.376	7,400	509.3	509,291
Schedules 91 & 95	46.36%	41,498	4,061	10.2	10,218
Schedule 92	100.00%	2,876	8,760	0.3	328
Totals		23,358,030.014		4,644	

Determination of 2025 Class Non-coincident Peaks (Primary)

Grouping	Load Factor	MWH	Load Factor times Hrs/Year	Class Peak (MW)	
Schedule 7	45.43%	8,078,673.544	3,980	2,029.9	2,029,948
Schedule 15	46.36%	12,878.215	4,061	3.2	3,171
Schedule 32	55.98%	1,561,301.371	4,904	318.4	318,384
Schedule 38	38.95%	27,531.743	3,412	8.1	8,069
Schedule 47	20.60%	21,696.877	1,805	12.0	12,021
Schedule 49	19.59%	59,856.191	1,716	34.9	34,887
Schedule 83	56.07%	2,909,771.888	4,911	592.5	592,452
Schedule 85	66.27%	3,550,171.991	5,805	611.6	611,581
Schedule 89	77.48%	2,703,493.599	6,787	398.3	398,323
Schedule 90	84.48%	3,696,437.102	7,400	499.5	499,516
Schedules 91 & 95	46.36%	40,701.129	4,061	10.0	10,022
Schedule 92	100.00%	2,820.719	8,760	0.3	322
Totals		22,665,334		4,519	

Schedule Rate Class Peak per Customer

Grouping	Class Peak (MW)	Average Accounts	Peak (kW)
Schedule 7	2,029.9	837,946	2.40
Schedule 32	318.4	96,817	3.30
Schedule 38	8.1	382	21.10
Schedule 47	12.0	2,627	4.60
Schedule 49	34.9	1,369	25.50
Schedule 83	592.5	11,797	50.20
Schedule 85	611.6	1,698	360.30
Schedule 89	398.3	52	7,697.10

Schedule 7 1-phase	Customer BD		NCP	NCP
Schedule 7 3-phase	10,055,348		2,029.9	2.4
	0		-	-
	10,055,348		2,029.95	
Scheddule 15R	Energy		NCP	
Scheddule 15C	1,579		0.3970	
	11,022		2.7740	
	12,601		3.2	

Schedule 32 1-phase	Customer BI Energy/cust			NCP	
Schedule 32 3-phase	730,921	11,216	683,167	130.3	2.1
	430,884	27,456	985,863	188.1	5.2
	1,161,805		1,669,030	318.38	
Schedule 38 1-phase	1,116	31,236	2,905	0.7	7.7
Schedule 38 3-phase	3,468	103,677	29,963	7.4	25.5
	4,584		32,868	8.07	
Schedule 47 1-phase	Energy/cust		NCP	NCP	
Schedule 47 3-phase	2,784	5,098	1,183	0.7	3.2
	28,740	7,578	18,149	11.3	4.7
	31,524		19,332	12.02	
Schedule 49 1-phase	Energy/cust		NCP	NCP	
Schedule 49 3-phase	96	47,291	378	0.2	25.5
	16,332	47,293	64,366	34.7	25.5
	16,428		64,744	34.89	
Schedule 83 1-phase	Energy/cust		NCP	NCP	
Schedule 83 3-phase	10,716	159,246	142,207	28.5	31.9
	130,848	257,940	2,812,578	563.9	51.7
	141,564		2,954,784	592.45	

Employee Discount			
	2024	2025 Proposed	
Customers	3,071	3,071	
Total Consumption	37,616	37,616	\$ (2,047.06)
Customer Charge	\$13.00	\$15.00	
Sch 118 Charge	1.88	1.88	
Table 1 Volumetric Charge Block 1	167.39	183.27	
Table 1 Volumetric Charge Block 2	167.39	183.27	
Table 2 Volumetric Charge Block 1	160.60	176.48	
Table 2 Volumetric Charge Block 2	167.39	183.27	
Table 3 Volumetric Charge Block 1	168.18	184.03	
Table 3 Volumetric Charge Block 2	174.97	190.82	
Annual Customer Charges	\$479,076	\$552,780	
Sch 118 Charges'	\$5,773	\$5,773	
Discount	15% (\$72,727)	(\$83,783)	
Annual Volumetric Charges			
Block 1 MWH	27,982	27,982	
Block 2 MWH	9,634	9,634	
Table 1			
Table 1 Block 1 Revenue	\$4,683,907	\$5,128,261	
Table 1 Block 2 Revenue	\$1,612,635	\$1,765,623	
Volumetric Revenue	\$6,296,542	\$6,893,884	
Table 1 Volumetric Discount	(\$944,481)	(\$1,034,083)	
Table 2			
Block 1 Revenue	\$4,493,909	\$4,938,263	
Block 2 Revenue	\$1,612,635	\$1,765,623	
Volumetric Revenue	\$6,106,544	\$6,703,887	
Discount	(\$915,962)	(\$1,005,583)	
Table 3			
Block 1 Revenue	\$4,706,013	\$5,149,527	
Block 2 Revenue	\$1,685,661	\$1,838,360	
Volumetric Revenue	\$6,391,674	\$6,987,887	
Discount	(\$958,751)	(\$1,048,183)	
Table 1	(\$1,017,209)	(\$1,117,866)	
Table 2	(\$988,709)	(\$1,089,366)	
Table 3	(\$1,031,478)	(\$1,131,966)	
Table 4	(\$1,031,478)	(\$1,131,966)	
Block 1			
Transmission	6.78	8.90	
Distribution	63.83	66.76	
Generation	88.14	43.94	
System Usage	4.61	5.22	
Schedule 125	0.00	54.42	
Schedule 143	0.00	0.00	
Schedule 145	(0.48)	(0.48)	
Schedule 102	(6.79)	(6.79)	
Schedule 105	(0.39)	0.00	
Schedule 109	7.88	7.88	
Sch 109 > 1MWa	0.00	0.00	
Schedule 110	0.00	0.00	
Schedule 144	0.00	0.00	
Schedule 146	4.03	4.03	
Schedule 122a	0.00	0.00	
Schedule 122b	0.00	0.00	
Schedule 123	(0.14)	0.00	
Schedule 126	0.80	0.00	
Schedule 135	0.67	0.68	
Schedule 136	0.12	0.29	
Schedule 137	0.24	0.29	
Schedule 138	0.00	0.04	
Schedule 150	0.56	0.53	
Schedule 151	3.56	3.56	
Schedule 152	2.63	2.63	
Schedule 153	0.01	0.01	
Block 1 Total	168.18	184.03	(less Schs 109)
Block 2			
Transmission	6.78	8.90	
Distribution	63.83	66.76	
Generation	88.14	43.94	
System Usage	4.61	5.22	
Schedule 125	0.00	54.42	
Schedule 143	0.00	0.00	
Schedule 145	(0.48)	(0.48)	
Schedule 102	0.00	0.00	
Schedule 105	(0.39)	0.00	
Schedule 109	7.88	7.88	
Schedule 109 > 1MWa	0.00	0.00	
Schedule 110	0.00	0.00	
Schedule 112	0.00	0.00	
Schedule 146	4.03	4.03	
Schedule 122a	0.00	0.00	
Schedule 122b	0.00	0.00	
Schedule 123	(0.14)	0.00	
Schedule 126	0.80	0.00	
Schedule 135	0.67	0.68	
Schedule 136	0.12	0.29	
Schedule 137	0.24	0.29	
Schedule 138	0.00	0.04	
Schedule 150	0.56	0.53	
Schedule 151	3.56	3.56	
Schedule 152	2.63	2.63	
Schedule 153	0.01	0.01	
Block 2 Total	174.97	190.82	(less Schs 109)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI		
1				Sept 24 D25 Forecast																																
2	PORTLAND GENERAL ELECTRIC 2024 Cycle Billing Determinants																																			
3																																				
4																																				
5																																				
6				Basic Charge BD Single-family/ Single-phase	Basic Charge BD Multifamily/ Three-phase	Transmission & Related Volumetric MWh	Transmission & Related Demand kW		Distribution Volumetric Block 1 MWh	Distribution Volumetric Block 2 MWh		Facilities Block 1 kW	Facilities Block 2 kW		Distribution Demand Peak kW		Sys. Usage Implicit & Explicit MWh		Energy Block 1 MWh	Energy Block 2 MWh		Energy Flat MWh	Energy On-Peak MWh	Energy Mid-Peak MWh	Energy Off-Peak MWh	Energy On-Peak MWh	Energy Off-Peak MWh	FOR CURRENT REV	Generation Demand kW	Wheeling Demand kW	Reactive kVar	Fixed MWh	Sch 146 MWh	Sch 122a MWh	Sch 122b MWh	Sch 125 MWh
7	Grouping																																			
8																																				
9	Schedule 7			7,077,101	2,978,247	7,883,579			7,883,579							7,883,579		7,883,579	0																	
10	Schedule 15 Residential			48,528		1,579			1,579							1,579						1,579									1,579	7,883,579	7,883,579	7,883,579	7,883,579	7,883,579
11																																				
12																																				
13	Schedule 15 Commercial			62,520		11,022			11,022							11,022						11,022									11,022	11,022	11,022	11,022	11,022	
14	Schedule 32			730,921	430,884	1,527,980			1,343,126	184,853						1,527,980						1,527,980									1,527,980	1,527,980	1,527,980	1,527,980	1,527,980	
15	Schedule 38			1,116	3,468	26,943			26,943							26,943							5,660	12,304	8,979	13,392	13,551				0	26,943	26,943	26,943	26,943	
16	Schedule 47			1,392	14,370	20,962			4,505	16,456						20,962						20,962								0	20,962	20,962	20,962	20,962	20,962	
17	Schedule 49			48	8,166	58,816			9,898	48,918						58,816						58,816								0	58,816	58,816	58,816	58,816	58,816	
18	Schedule 83-S			10,716	130,848		8,624,801					4,246,920	7,964,105	8,624,801	2,846,128							639,611	1,206,657	999,860	1,846,268	999,860	8,624,801		901,182		2,846,128	2,846,128	2,846,128	2,846,128	2,846,128	
19	Schedule 85-S			0	15,150		5,439,711					3,030,000	4,154,036	5,439,711	2,041,005							431,312	880,508	729,185	1,311,820	729,185	5,439,711		851,454		2,041,005	2,041,005	2,041,005	2,041,005	2,041,005	
20	Schedule 89-S			0	0		0					0	0		0		0					0						0		0	0	0	0	0	0	
21	Schedule 91			2,388	0	9,864			9,864							9,864						9,864								9,864	9,864	9,864	9,864	9,864	9,864	
22	Schedule 92			192	0	2,760			2,760							2,760						2,760								2,760	2,760	2,760	2,760	2,760	2,760	
23	Schedule 95			24	0	29,961			29,961							29,961						29,961								29,961	29,961	29,961	29,961	29,961	29,961	
24																																				
25																																				
26	Schedule 85-P				2,112		1,453,816					422,400	1,396,664	1,453,816	718,780							156,002	282,320	280,459	438,322	280,459	1,453,816		249,409		718,780	718,780	718,780	718,780	718,780	
27	Schedule 89-P				321		2,043,440					1,284,000	966,703	2,043,440	1,105,823							237,426	403,280	465,117	640,706	465,117		458,901		1,105,823	1,105,823	1,105,823	1,105,823	1,105,823		
28	Schedule 90-P																																			
29	(30 MWa - 250 MWa)				24		951,516					96,000	874,389	951,516	547,711							314,812							161,785	547,711	547,711	547,711	547,711	547,711		
30	(GT 250 Mw)				72		4,527,753					288,000	4,512,601	4,527,753	3,092,966							1,771,816							1,131,708	3,092,966	3,092,966	3,092,966	3,092,966	3,092,966		
31																																				
32																																				
33	Schedule 89-T				36		179,012					144,000	77,704	179,012	38,613							6,530	21,545	10,538	28,075	10,538			30,711		38,613	38,613	38,613	38,613		
34	Schedule 90-T																																			
35	(30 MWa - 250 MWa)																																			
36	(GT 250 Mw)																																			
37	Schedule 75-T																																			
38	Schedule 76R																																			
39																																				
40																																				
41	Schedule 485-S (Total)				2,532		1,133,907					506,400	967,964	1,133,907	438,351							271,502			166,849			1,133,907		120,286		438,351				
42	Schedule 485-S (Sch 129 v2020)																																			
43	Schedule 485-S (Sch 129 v2023)				12		11,778					2,400	13,029	11,778	4,351							2,602		1,749			11,778		38		4,351					
44	Schedule 485-S (Sch 129 v2025)																																			
45																																				
46																																				
47	Schedule 485-P (Total)				576		632,000					115,200	671,614	632,000	278,884							168,924		109,960			632,000		130,319		278,884					
48	Schedule 485-P (Sch 129 v2021)				12		31,409					2,400	37,665	31,409	13,173							7,256		5,918			31,409		2,401		13,173					
49	Schedule 485-P (Sch 129 v2024)																																			
50	Schedule 485-P (Sch 129 v2025)																																			
51	Schedule 489-P (Total)				192		1,667,897					768,000	1,040,597	1,667,897	1,042,401							607,964		434,438			1,667,897		527,458		1,042,401					
52	Schedule 489-P (Sch 129 v2020)																																			
53	Schedule 489-P (Sch 129 v2021)				12		36,150					48,000	5,722	36,150	18,499							10,698		7,801			36,150		11		18,499					
54	Schedule 489-P (Sch 129 v2024)				12		146,735					48,000	104,437	146,735	95,334							55,929		39,405			146,735		24,767		95,334					
55	Schedule 489-P (Sch 129 v2025)																																			
56	Schedule 689-P				36		978,608					144,000	810,329	978,608	515,071							294,188		220,883			978,608		114,871		515,071					
57	Schedule 689-P (Sch 139 v2024)																																			
58																																				
59																																				
60	Schedule 489-T				36		377,302					144,000	327,140	377,302	204,711								119,904		84,807			377,302		335,925		204,711				
61																																				
62						</																														

1	A	B	C	D	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AA	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM
2	PORTLAND GENERAL ELECTRIC																																
3	2024 Cycle Billing Determinants																																
4																																	
5																			>1MWa														
6					Sch 145	Sch 131	h 132	Sch 143	Sch 128	Sch 128	Sch 129	Sch 129			Sch 102		Sch 105	Sch 109	Sch 109	Sch 110	Sch 112	Sch 118	Sch 123	Sch 126	Sch 135	Sch 136	Sch 137	Sch 138	Sch 150	Sch 151	Sch 152	Sch 153	Calendar
7	Grouping				MWh	MWh	hWh	MWh	MWh	MWh	Part A	Part B	kW	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	Bill/MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	
8																																	
9	Schedule 7				7,883,579	7,883,579		7,883,579							7,139,931		7,883,579	7,883,579	0	7,883,579		10,055,348	7,883,579	7,883,579	7,883,579	7,883,579	7,883,579	7,883,579	7,883,579	7,883,579	7,883,579	7,904,773	
10	Schedule 15 Residential				1,579	1,579		1,579							1,579		1,579	1,579	0	1,579			1,579	1,579	1,579	1,579	1,579	1,579	1,579	1,579	1,579	1,579	
11																																	
12																																	
13	Schedule 15 Commercial				11,022	11,022		11,022									11,022	10,998	24	10,998		11,022	10,998	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	
14	Schedule 32				1,527,980	1,527,980		1,527,980									1,527,980	1,527,876	104	1,527,876		1,527,980	1,527,876	1,527,980	1,527,980	1,527,980	1,527,980	1,527,980	1,527,980	1,527,980	1,527,980	1,527,693	
15	Schedule 38				26,943	26,943		26,943									26,943	26,752	191	26,752		26,943	26,752	26,943	26,943	26,943	26,943	26,943	26,943	26,943	26,943	26,939	
16	Schedule 47				20,962	20,962		20,962									20,962	20,962	0	20,962		20,962	20,962	20,962	20,962	20,962	20,962	20,962	20,962	20,962	20,962	21,230	
17	Schedule 49				58,816	58,816		58,816									58,816	58,816	0	58,816		58,816	58,816	58,816	58,816	58,816	58,816	58,816	58,816	58,816	58,816	58,568	
18	Schedule 83-S				2,846,128	2,846,128		2,846,128									2,846,128	2,812,563	33,565	2,812,563		2,846,128	2,812,563	2,846,128	2,846,128	2,846,128	2,846,128	2,846,128	2,846,128	2,846,128	2,846,128	2,847,136	
19	Schedule 85-S				2,041,005	2,041,005		2,041,005									2,041,005	1,898,632	142,373	1,898,632		2,041,005	1,898,632	2,041,005	2,041,005	2,041,005	2,041,005	2,041,005	2,041,005	2,041,005	2,041,005	2,043,363	
20	Schedule 89-S				0	0		0									0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
21	Schedule 91				9,864	9,864		9,864									9,864	9,864	0	9,864		9,864	9,864	9,864	9,864	9,864	9,864	9,864	9,864	9,864	9,864	9,864	
22	Schedule 92				2,760	2,760		2,760									2,760	2,760	0	2,760		2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	2,760	
23	Schedule 95				29,961	29,961		29,961									29,961	29,961	0	29,961		29,961	29,961	29,961	29,961	29,961	29,961	29,961	29,961	29,961	29,961	29,961	
24																																	
25																																	
26	Schedule 85-P				718,780	718,780		718,780									718,780	404,911	313,869	404,911		718,780	404,911	718,780	718,780	718,780	718,780	718,780	718,780	718,780	718,780	721,753	
27	Schedule 89-P				1,105,823	1,105,823		1,105,823									1,105,823	34,716	1,071,107	34,716		1,105,823	34,716	1,105,823	1,105,823	1,105,823	1,105,823	1,105,823	1,105,823	1,105,823	1,105,823	1,109,869	
28	Schedule 90-P																																
29	(30 MWa - 250 MWa)				547,711	547,711		547,711									547,711	0	547,711	0		240,000	0	547,711	547,711	547,711	547,711	547,711	547,711	547,711	547,711	550,059	
30	(GT 250 Mw)				3,092,966	3,092,966		3,092,966									3,092,966	0	3,092,966	0		960,000	0	3,092,966	3,092,966	3,092,966	3,092,966	3,092,966	3,092,966	3,092,966	3,092,966	3,105,646	
31																																	
32																																	
33	Schedule 89-T				38,613	38,613		38,613									38,613	4,795	33,819	4,795		38,613	4,795	38,613	38,613	38,613	38,613	38,613	38,613	38,613	38,613	38,706	
34	Schedule 90-T																																
35	(30 MWa - 250 MWa)																																
36	(GT 250 Mw)																																
37	Schedule 75-T																																
38	Schedule 76R																																
39																																	
40																																	
41	Schedule 485-S (Total)					438,351		438,351									438,351	396,035	42,316	396,035		438,351	396,035			438,351	438,351		438,351	438,351	438,351	439,052	
42	Schedule 485-S (Sch 129 v2020)																																
43	Schedule 485-S (Sch 129 v2023)					4,351		4,351				4,351	11,778																				
44	Schedule 485-S (Sch 129 v2025)																																
45																																	
46																																	
47	Schedule 485-P (Total)					278,884		278,884									278,884	87,462	191,422	87,462		278,884	87,462			278,884	278,884		278,884	278,884	280,228		
48	Schedule 485-P (Sch 129 v2021)					13,173		13,173				13,173																					
49	Schedule 485-P (Sch 129 v2024)																																
50	Schedule 485-P (Sch 129 v2025)																																
51	Schedule 489-P (Total)					1,042,401		1,042,401									1,042,401	0	1,042,401	0		1,042,401	0			1,042,401	1,042,401		1,042,401	1,042,401	1,042,401	1,046,705	
52	Schedule 489-P (Sch 129 v2020)																																
53	Schedule 489-P (Sch 129 v2021)					18,499		18,499				18,499																					
54	Schedule 489-P (Sch 129 v2024)					95,334		95,334				95,334																					
55	Schedule 489-P (Sch 129 v2025)																																
56	Schedule 689-P					515,071		515,071									515,071	0	515,071	0		515,071	0			515,071	515,071		515,071	515,071	515,071	517,130	
57	Schedule 689-P (Sch 139 v2024)											515,071																					
58																																	
59																																	
60	Schedule 489-T					204,711		204,711									204,711	0	204,711	0		204,711	0			204,711	204,711		204,711	204,711	204,711	205,648	
61																																	
62																																	
63	COS Totals				19,964,492	19,964,492	0	19,964,492	0	0	0	0	0	0	7,493,657		19,964,492	14,728,763	5,235,729	14,728,763	0	19,694,005	14,728,763	19,964,492	19,964,492	19,964,492	19,964,492	19,964,492	19,964,492	19,964,492	20,010,920		
64	Market Totals				0	0	0	0	0	0	0																						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
121				Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122				Calendar Energy (MWh)	486	393	576	645	1,542	1,914	3,216	3,547	1,777	812	436	577	15,921	
123																		
124				Schedule 47														
125				Customers - Single Phase	0	0	0	0	69	69	69	69	69	69	0	0	414	
126				Customers - Three Phase	0	0	0	0	520	520	520	520	520	520	0	0	3,120	
127				Energy (MWh)														
128				First 50 kWh per kW	42	31	45	48	80	110	154	156	174	101	62	54	1,058	
129				Over 50 kWh per kW	79	56	77	78	214	396	729	1,113	779	315	180	113	4,131	
130				Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
131				Calendar Energy (MWh)	200	143	214	227	515	609	975	1,107	555	280	231	253	5,308	
132																		
133				Schedule 49 RPA														
134				Customers - Single Phase	0	0	0	0	6	6	6	6	6	6	0	0	36	
135				Customers - Three Phase	0	0	0	0	1,035	1,035	1,035	1,035	1,035	1,035	0	0	6,210	
136				Energy (MWh)														
137				First 50 kWh per kW	148	111	171	261	603	945	1,215	1,301	1,448	780	281	193	7,458	
138				Over 50 kWh per kW	257	374	437	644	1,625	3,864	7,313	9,947	7,443	2,935	676	340	35,854	
139				Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
140				Calendar Energy (MWh)	667	786	1,064	1,627	3,899	5,789	9,416	9,808	5,184	2,496	911	807	42,455	
141																		
142				Schedule 49														
143				Customers - Single Phase	0	0	0	0	2	2	2	2	2	2	0	0	12	
144				Customers - Three Phase	0	0	0	0	326	326	326	326	326	326	0	0	1,956	
145				Energy (MWh)														
146				First 50 kWh per kW	74	60	89	105	178	290	375	372	427	251	125	93	2,440	
147				Over 50 kWh per kW	346	433	272	318	524	1,853	2,540	2,986	2,574	698	289	232	13,065	
148				Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
149				Calendar Energy (MWh)	691	797	632	760	1,230	2,581	3,218	2,928	1,749	638	395	493	16,112	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
150																		
151		Schedule 83S RPA																
152		Customers - Single Phase			129	129	129	129	129	129	129	129	129	129	129	129	1,548	
153		Customers - Three Phase			546	546	546	546	546	546	546	546	546	546	546	546	6,552	
154		Energy (MWh)																
155		On-Peak			3,913	3,516	3,300	2,955	2,899	2,931	3,171	3,318	3,483	3,026	3,048	3,610	39,169	
156		Off-Peak			7,440	6,528	6,183	5,421	5,339	5,198	5,456	5,661	5,925	5,215	5,344	6,530	70,241	
157		Mid-Peak			7,381	6,634	6,225	5,575	5,469	5,530	5,982	6,259	6,571	5,709	5,749	6,810	73,894	
158		Facility Capacity (kW)																
159		First 30 kW			20,250	20,250	20,250	20,250	20,250	20,250	20,250	20,250	20,250	20,250	20,250	20,250	243,000	
160		Over 30 kW			60,125	51,304	47,143	39,604	38,560	38,353	42,432	45,127	48,307	39,600	40,422	52,470	543,448	
161		Demand (kW)																
162		On-peak			56,582	50,123	47,856	42,360	41,749	41,398	44,319	46,329	48,812	42,484	43,058	51,696	556,566	
163		Off-Peak Increment			828	987	482	393	258	461	454	369	157	266	279	247	5,182	
164		Reactive Demand (kVar)			3,571	2,856	2,922	3,048	3,199	3,388	3,348	2,985	3,152	3,410	3,564	3,375	38,818	
165		Calendar Energy (MWh)			18,082	15,594	16,047	14,070	14,430	13,776	15,581	15,536	14,901	14,240	14,179	16,692	183,126	
166																		
167		Schedule 85S RPA																
168		Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	
169		Customers - Three Phase			16	16	16	16	16	16	16	16	16	16	16	16	192	
170		Energy (MWh)																
171		On-Peak			478	440	429	365	352	367	501	508	458	466	370	452	5,183	
172		Off-Peak			976	896	874	730	693	704	932	917	777	880	739	911	10,028	
173		Mid-Peak			975	898	875	745	718	749	1,023	1,037	934	950	755	923	10,581	
174		Facility Capacity (kW)																
175		First 200 kW			3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,200	38,400	
176		Over 200 kW			5,415	4,719	4,523	3,322	3,050	3,255	5,509	5,530	4,491	4,944	3,412	4,905	53,074	
177		Demand (kW)																
178		On-peak			6,571	6,012	5,856	4,949	4,698	4,915	6,601	6,644	5,865	6,216	4,995	6,140	69,462	
179		Off-Peak Increment			5	34	40	29	73	12	47	20	6	52	47	366		
180		Reactive Demand (kVar)			0	0	0	0	0	0	0	0	0	0	0	0	0	
181		Calendar Energy (MWh)			2,344	2,088	2,225	1,855	1,855	1,835	2,619	2,510	2,023	2,344	1,869	2,250	25,817	
182																		
183		Schedule 89S RPA																
184		Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	
185		Customers - Three Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	
186		Energy (MWh)																
187		On-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
188		Off-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
189		Mid-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
190		Facility Capacity (kW)																
191		First 1,000 kW			0	0	0	0	0	0	0	0	0	0	0	0	0	
192		Over 1,001-4,000 kW			0	0	0	0	0	0	0	0	0	0	0	0	0	
193		Over 4,000 kW			0	0	0	0	0	0	0	0	0	0	0	0	0	
194		Demand (kW)																
195		On-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
196		Off-Peak Increment			0	0	0	0	0	0	0	0	0	0	0	0	0	
197		Reactive Demand (kVar)			0	0	0	0	0	0	0	0	0	0	0	0	0	
198		Calendar Energy (MWh)			0	0	0	0	0	0	0	0	0	0	0	0	0	
199																		
200		Schedule 83S																
201		Customers - Single Phase			764	764	764	764	764	764	764	764	764	764	764	764	9,168	
202		Customers - Three Phase			10,358	10,358	10,358	10,358	10,358	10,358	10,358	10,358	10,358	10,358	10,358	10,358	124,296	
203		Energy (MWh)																
204		On-Peak			52,978	50,177	48,927	46,411	46,146	48,945	51,501	54,323	54,006	48,171	46,383	52,475	600,442	
205		Off-Peak			87,799	80,432	77,497	73,136	70,527	73,414	77,569	81,956	80,146	72,024	72,065	83,055	929,620	
206		Mid-Peak			99,945	94,662	92,303	87,556	87,057	92,336	97,159	102,483	101,884	90,878	87,503	98,996	1,132,763	
207		Facility Capacity (kW)																
208		First 30 kW			333,660	333,660	333,660	333,660	333,660	333,660	333,660	333,660	333,660	333,660	333,660	333,660	4,003,920	
209		Over 30 kW			699,135	632,847	604,766	554,893	540,421	587,467	636,950	690,721	679,029	571,927	549,952	672,549	7,420,657	
210		Demand (kW)																
211		On-peak			728,019	680,297	661,537	626,664	614,782	649,260	686,608	725,866	718,445	641,967	624,040	710,749	8,068,234	
212		Off-peak Increment			9,691	10,065	8,768	8,016	9,561	8,688	6,685	5,835	4,905	4,881	7,112	7,971	92,178	
213		Reactive Demand (kVar)			76,514	72,724	69,306	70,864	70,583	76,866	79,357	68,571	69,691	69,589	61,962	76,339	862,364	
214		Calendar Energy (MWh)			232,350	210,633	223,443	208,870	214,462	216,524	241,267	243,429	220,102	215,471	206,502	230,957	2,664,010	
215																		
216		Schedule 85S																
217		Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	
218		Customers - Three Phase			1,245	1,246	1,246	1,246	1,246	1,247	1,247	1,247	1,247	1,247	1,247	1,247	14,958	
219		Energy (MWh)																
220		On-Peak			35,640	34,610	34,491	33,326	33,408	35,568	36,915	38,929	38,359	35,169	33,767	35,947	426,129	
221		Off-Peak			63,046	60,021	58,999	57,098	55,898	58,711	62,112	63,986	62,837	57,684	57,063	61,702	719,156	
222		Mid-Peak			72,758	70,654	70,411	68,034	68,202	72,611	75,361	79,473	78,308	71,796	68,933	73,384	869,927	
223		Facility Capacity (kW)																
224		First 200 kW			249,000	249,200	249,200	249,200	249,200	249,400	249,400	249,400	249,400	249,400	249,400	249,400	2,991,600	
225		Over 200 kW			354,574	333,046	328,265	308,386	305,186	338,013	364,314	391,986	382,056	329,716	312,764	352,655	4,100,962	
226		Demand (kW)																
227		On-peak			456,303	440,227	436,064	421,324	418,584	443,290	465,817	486,977	480,581	439,760	425,131	456,191	5,370,249	
228		Off-peak Increment			5,391	4,851	5,317	5,236	5,435	6,059	3,789	4,101	2,720	3,361	4,885	4,311	55,457	
229		Reactive Demand (kVar)			70,680	65,969	65,801	65,323	66,078	72,984	75,594	82,279	78,424	72,460	66,881	68,979	851,454	
230		Calendar Energy (MWh)			165,553	154,545	167,562	159,854	165,842	168,219	185,895	186,018	167,591	168,133	159,990	168,344	2,017,546	
231																		
232		Schedule 89S																
233		Customers - Single Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	
234		Customers - Three Phase			0	0	0	0	0	0	0	0	0	0	0	0	0	
235		Energy (MWh)																
236		On-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
237		Off-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
238		Mid-Peak			0	0	0	0	0	0	0	0	0	0	0	0	0	
239		Facility Capacity (kW)																
240		First 1,000 kW			0	0	0	0	0	0	0	0	0	0	0	0	0	
241		1,001-4,000 kW			0	0	0	0	0	0	0	0	0	0	0	0	0	
242		Over 4,000 kW																

[illegible]

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
402	Total PGE (Annual)																	w/o Sch 15 cd
403	Customers			954,585	955,106	955,693	956,230	960,724	961,307	961,853	962,588	963,354	964,312	961,107	961,785	11,518,644	11,407,596	
404	Energy (MWh)			1,946,414	1,772,628	1,680,837	1,551,671	1,475,306	1,523,717	1,611,972	1,734,375	1,685,424	1,513,584	1,574,200	1,894,363	19,964,492		
405	Facility Capacity (kW)			2,537,733	2,440,566	2,401,036	2,326,721	2,314,876	2,398,444	2,488,055	2,585,778	2,591,325	2,416,192	2,382,007	2,574,789	29,457,522		
406	Demand (kW)			1,985,724	1,919,854	1,874,908	1,828,377	1,829,676	1,921,558	1,990,894	2,091,812	2,102,063	1,941,806	1,903,900	2,033,202	23,423,775		
407	Reactive Demand (kVar)			310,360	300,495	294,829	299,873	301,374	322,393	331,409	335,679	337,502	324,742	305,532	320,963	3,785,151		
408	Calendar Energy (MWh)			1,833,954	1,643,233	1,703,751	1,537,731	1,532,722	1,526,498	1,731,764	1,759,391	1,561,196	1,591,546	1,666,198	1,922,939	20,010,920		
409																		
410																		
411																		
412	Total (VP)																	
413	Customers			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
414	Energy (MWh)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
415	Facility Capacity (kW)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
416	Demand (kW)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
417	Reactive Demand (kVar)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
418	Calendar Energy (MWh)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
419																		
420																		
421	Total Direct Access																	
422	Customers			280	280	280	280	280	280	280	280	280	280	280	280	3,360		
423	Energy (MWh)			192,024	183,248	182,331	185,519	187,864	193,986	201,776	204,708	206,262	202,598	197,881	202,039	2,340,238		
424	Facility Capacity (kW)			418,539	397,006	389,612	392,865	406,583	417,323	438,897	442,053	445,912	433,373	423,944	432,479	5,038,585		
425	Demand (kW)			376,448	356,544	354,760	360,445	367,047	379,551	398,111	402,767	405,779	396,422	385,984	395,459	4,579,316		
426	Reactive Demand (kVar)			105,939	100,201	102,791	102,473	101,810	105,027	120,999	108,054	108,108	107,489	104,192	105,494	1,272,577		
427	Calendar Energy (MWh)			189,927	171,823	192,832	189,946	200,349	192,690	211,505	211,485	201,012	209,174	189,095	195,658	2,355,496		
428																		
429	Total PGE & Direct Access																	
430	Customers			954,865	955,386	955,973	956,510	961,004	961,587	962,133	962,868	963,634	964,592	961,387	962,065	11,522,004		
431	Energy (MWh)			2,138,438	1,955,875	1,863,169	1,737,191	1,663,170	1,717,703	1,813,749	1,939,083	1,891,686	1,716,182	1,772,081	2,096,402	22,304,730		
432	Facility Capacity (kW)			2,956,272	2,837,572	2,790,648	2,719,587	2,721,459	2,815,767	2,926,952	3,027,831	3,037,237	2,849,564	2,805,951	3,007,268	34,496,107		
433	Demand (kW)			2,362,172	2,276,398	2,229,668	2,188,823	2,196,723	2,301,109	2,389,005	2,494,579	2,507,841	2,338,228	2,289,884	2,428,661	28,003,090		
434	Reactive Demand (kVar)			416,299	400,696	397,620	402,346	403,184	427,420	452,408	443,733	445,610	432,231	409,724	426,457	5,057,727		
435	Calendar Energy (MWh)			2,023,881	1,815,056	1,896,583	1,727,677	1,733,071	1,719,188	1,943,268	1,970,876	1,762,207	1,800,720	1,855,293	2,118,598	22,366,417		

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1																		
2																		
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5	Schedule				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
6																		
7	Schedule 485S RPA (v2020)																	
8	Customers - Single Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Customers - Three Phase				205	205	205	205	205	205	205	205	205	205	205	205	2,460	
10	Energy (MWh)																	
11	On-Peak				22,980	20,244	20,701	20,215	20,352	21,788	23,403	24,053	23,801	22,482	21,119	22,666	263,806	
12	Off-Peak				14,290	12,781	12,882	12,420	12,483	13,350	13,976	14,329	14,407	13,745	13,079	14,226	161,967	
13	Facility Capacity (kW)																	
14	First 200 kW				41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	41,000	492,000	
15	Over 200 kW				83,552	72,436	73,150	68,046	68,973	76,597	84,082	87,167	87,069	80,568	73,848	82,266	937,755	
16	Demand (kW)																	
17	On-peak				96,317	85,385	86,833	83,853	84,223	90,496	96,852	99,339	99,001	93,861	88,402	95,350	1,099,913	
18	Off-peak increment				214	640	405	427	659	483	206	308	310	227	307	368	4,555	
19	Reactive Demand (kVar)				9,538	8,284	8,335	9,029	9,567	10,635	11,733	11,837	11,676	10,563	9,498	9,553	120,248	
20	Calendar Energy (MWh)				36,097	30,878	34,475	32,979	34,624	35,333	39,746	39,195	35,855	37,031	34,034	36,223	426,471	
21																		
22	Schedule 485S < v2020																	
23	Customers - Single Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
24	Customers - Three Phase				5	5	5	5	5	5	5	5	5	5	5	5	60	
25	Energy (MWh)																	
26	On-Peak				466	437	430	403	404	420	459	396	405	408	399	466	5,094	
27	Off-Peak				290	282	254	227	233	255	267	251	275	256	241	304	3,133	
28	Facility Capacity (kW)																	
29	First 200 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	
30	Over 200 kW				1,682	1,550	1,425	1,234	1,259	1,394	1,575	1,295	1,411	1,356	1,268	1,733	17,179	
31	Demand (kW)																	
32	On-peak				2,047	1,917	1,838	1,705	1,708	1,827	1,965	1,752	1,841	1,798	1,731	2,086	22,215	
33	Off-peak increment				0	30	13	0	16	0	0	0	0	0	0	0	59	
34	Reactive Demand (kVar)				0	0	0	0	0	0	0	0	0	0	0	0	0	
35	Calendar Energy (MWh)				730	672	698	635	670	681	774	660	634	678	641	759	8,233	
36																		
37	Schedule 485S v2019																	
38	Customers - Single Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
39	Customers - Three Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
40	Energy (MWh)																	
41	On-Peak				0	0	0	0	0	0	0	0	0	0	0	0	0	
42	Off-Peak				0	0	0	0	0	0	0	0	0	0	0	0	0	
43	Facility Capacity (kW)																	
44	First 200 kW				0	0	0	0	0	0	0	0	0	0	0	0	0	
45	Over 200 kW				0	0	0	0	0	0	0	0	0	0	0	0	0	
46	Demand (kW)																	
47	On-peak				0	0	0	0	0	0	0	0	0	0	0	0	0	
48	Off-peak increment				0	0	0	0	0	0	0	0	0	0	0	0	0	
49	Reactive Demand (kVar)				0	0	0	0	0	0	0	0	0	0	0	0	0	
50	Calendar Energy (MWh)				0	0	0	0	0	0	0	0	0	0	0	0	0	
51																		
52	Schedule 485S v2020																	
53	Customers - Single Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
54	Customers - Three Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
55	Energy (MWh)																	
56	On-Peak				0	0	0	0	0	0	0	0	0	0	0	0	0	
57	Off-Peak				0	0	0	0	0	0	0	0	0	0	0	0	0	
58	Facility Capacity (kW)																	
59	First 200 kW				0	0	0	0	0	0	0	0	0	0	0	0	0	
60	Over 200 kW				0	0	0	0	0	0	0	0	0	0	0	0	0	
61	Demand (kW)																	
62	On-peak				0	0	0	0	0	0	0	0	0	0	0	0	0	
63	Off-peak increment				0	0	0	0	0	0	0	0	0	0	0	0	0	
64	Reactive Demand (kVar)				0	0	0	0	0	0	0	0	0	0	0	0	0	
65	Calendar Energy (MWh)				0	0	0	0	0	0	0	0	0	0	0	0	0	
66																		
67	Schedule 485S v2021																	
68	Customers - Single Phase				0	0	0	0	0	0	0	0	0	0	0	0	0	
69	Customers - Three Phase				1	1	1	1	1	1	1	1	1	1	1	1	12	
70	Energy (MWh)																	
71	On-Peak				203	198	182	197	183	209	217	272	299	230	208	205	2,602	
72	Off-Peak				150	141	136	136	123	135	143	166	185	155	138	141	1,749	
73	Facility Capacity (kW)																	
74	First 200 kW				200	200	200	200	200	200	200	200	200	200	200	200	2,400	
75	Over 200 kW				1,051	1,003	928	983	883	1,019	1,076	1,352	1,514	1,164	1,029	1,028	13,029	
76	Demand (kW)																	
77	On-peak				955	918	861	903	826	931	974	1,185	1,308	1,041	938	937	11,778	
78	Off-peak increment				0	0	0	0	0	0	0	0	0	0	0	0	0	
79	Reactive Demand (kVar)				0	0	0	0	0	0	0	0	31	7	0	0	38	
80	Calendar Energy (MWh)				341	317	325	336	321	347	384	446	451	393	347	341	4,349	

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179			Off-peak increment	11,073	11,073	11,073	11,073	11,073	11,073	11,073	11,073	11,073	11,073	11,073	11,073	132,873	
180			Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
181			Calendar Energy (MWh)	201	201	201	201	201	201	201	201	201	201	201	201	2,417	
182				7,103	6,701	7,611	7,332	7,640	7,074	7,461	7,396	7,024	7,389	6,766	6,895	86,392	
183			Schedule 485P v2023														
184			Customers - Three Phase	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12	
185			Energy (MWh)														
186			On-Peak	752	750	609	2,123	837	1,116	936	638	877	628	733	699	10,698	
187			Off-Peak	560	528	466	1,506	635	797	720	478	615	475	529	493	7,801	
188			Facility Capacity (kW)														
189			First 200 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	
190			Over 200 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	
191			Demand (kW)	0	0	0	4,936	0	708	78	0	0	0	0	0	5,722	
192			On-peak														
193			Off-peak increment	2,565	2,497	2,100	7,092	2,877	3,737	3,237	2,180	2,915	2,154	2,467	2,329	36,150	
194			Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
195			Calendar Energy (MWh)	0	0	0	11	0	0	0	0	0	0	0	0	11	
196				1,299	1,195	1,141	3,710	1,571	1,882	1,725	1,154	1,466	1,141	1,193	1,146	18,622	
197			Schedule 489P < v2020														
198			Customers - Three Phase														
199			Energy (MWh)	0	0	0	0	0	0	0	0	0	0	0	0	0	
200			On-Peak														
201			Mid-Peak	0	0	0	0	0	0	0	0	0	0	0	0	0	
202			Off-Peak	0	0	0	0	0	0	0	0	0	0	0	0	0	
203			Facility Capacity (kW)														
204			First 1,000 kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
205			Over 1,001-4,000 kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
206			Over 4,000 kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
207			Demand (kW)														
208			On-peak	0	0	0	0	0	0	0	0	0	0	0	0	0	
209			Off-peak increment	0	0	0	0	0	0	0	0	0	0	0	0	0	
210			Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
211			Calendar Energy (MWh)	0	0	0	0	0	0	0	0	0	0	0	0	0	
212																	
213			Schedule 489P v2019														
214			Customers - Three Phase	0	0	0	0	0	0	0	0	0	0	0	0	0	
215			Energy (MWh)														
216			On-Peak	0	0	0	0	0	0	0	0	0	0	0	0	0	
217			Off-Peak	0	0	0	0	0	0	0	0	0	0	0	0	0	
218			Facility Capacity (kW)														
219			First 1,000 kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
220			Over 1,001-4,000 kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
221			Over 4,000 kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
222			Demand (kW)														
223			On-peak	0	0	0	0	0	0	0	0	0	0	0	0	0	
224			Off-peak increment	0	0	0	0	0	0	0	0	0	0	0	0	0	
225			Reactive Demand (kVar)	0	0	0	0	0	0	0	0	0	0	0	0	0	
226			Calendar Energy (MWh)	0	0	0	0	0	0	0	0	0	0	0	0	0	
227																	
228			Schedule 489P v2020														
229			Customers - Three Phase	1	1	1	1	1	1	1	1	1	1	1	1	12	
230			Energy (MWh)														
231			On-Peak	4,247	4,322	4,398	4,473	4,548	4,623	4,698	4,774	4,849	4,924	4,999	5,074	55,929	
232			Mid-Peak	2,992	3,045	3,098	3,151	3,204	3,257	3,310	3,363	3,416	3,469	3,522	3,575	39,405	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
233				Off-Peak														
234				Facility Capacity (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	
235				First 1,000 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	
236				Over 1,001-4,000 kW	9,698	9,698	9,698	8,730	7,636	7,833	8,031	8,228	8,425	8,622	8,820	9,017		
237				Over 4,000 kW														
238				Demand (kW)	11,143	11,340	11,538	11,735	11,932	12,129	12,326	12,524	12,721	12,918	13,115	13,313	146,735	
239				On-peak	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240				Off-peak increment	1,881	1,914	1,947	1,981	2,014	2,047	2,081	2,114	2,147	2,180	2,214	2,247	24,767	
241				Reactive Demand (kVar)	7,175	6,889	7,961	7,799	8,264	7,778	8,337	8,397	8,100	8,653	8,044	8,321	95,717	
242				Calendar Energy (MWh)														
243																		
244				Schedule 489P v2021														
245				Customers - Three Phase	3	3	3	3	3	3	3	3	3	3	3	3	36	
246				Energy (MWh)														
247				On-Peak	21,081	21,732	22,384	23,035	23,686	24,338	24,989	25,641	26,292	26,943	27,004	27,064	294,188	
248				Off-Peak	15,821	16,312	16,802	17,293	17,783	18,273	18,764	19,254	19,745	20,235	20,279	20,322	220,883	
249				Facility Capacity (kW)														
250				First 1,000 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	
251				Over 1,001-4,000 kW	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	
252				Over 4,000 kW	61,904	59,590	59,427	61,366	63,536	65,705	67,874	70,044	72,213	74,382	76,552	77,735	810,329	
253				Demand (kW)														
254				On-peak	70,112	72,281	74,451	76,620	78,790	80,959	83,128	85,298	87,467	89,637	89,834	90,031	978,608	
255				Off-peak increment	64	67	69	71	73	75	77	79	82	84	84	84	908	
256				Reactive Demand (kVar)	8,278	8,523	8,768	9,013	9,257	9,502	9,747	9,992	10,237	10,481	10,518	10,555	114,871	
257				Calendar Energy (MWh)	36,570	35,571	41,615	41,255	44,206	42,057	45,547	46,331	45,116	48,641	44,634	45,585	517,130	
258																		
259				Schedule 489P v2022														
260				Customers - Three Phase	3	3	3	3	3	3	3	3	3	3	3	3	36	
261				Energy (MWh)														
262				On-Peak	10,221	9,888	9,908	9,951	9,913	9,871	9,861	10,394	9,876	10,091	9,956	9,972	119,904	
263				Off-Peak	7,240	6,989	6,996	7,037	6,992	6,970	6,962	7,371	6,998	7,143	7,050	7,058	84,807	
264				Facility Capacity (kW)														
265				First 1,000 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	
266				Over 1,001-4,000 kW	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	
267				Over 4,000 kW	33,479	33,348	33,348	32,577	31,880	32,173	26,253	20,816	20,816	20,816	20,816	20,816	327,140	
268				Demand (kW)														
269				On-peak	31,987	31,192	31,341	31,333	31,461	31,236	31,210	32,403	30,919	31,663	31,233	31,324	377,302	
270				Off-peak increment	295	299	304	297	310	304	294	294	285	296	291	294	3,573	
271				Reactive Demand (kVar)	28,094	27,939	28,274	27,939	28,620	28,202	28,195	28,178	27,156	27,991	27,581	27,758	335,925	
272				Calendar Energy (MWh)	17,304	15,781	17,952	17,379	18,021	16,622	17,513	18,334	16,537	17,768	16,054	16,383	205,648	
273																		
274				Schedule 489P v2024														
275				Customers - Three Phase	1	1	1	1	1	1	1	1	1	1	1	1	12	
276				Energy (MWh)														
277				On-Peak	4,247	4,322	4,398	4,473	4,548	4,623	4,698	4,774	4,849	4,924	4,999	5,074	55,929	
278				Off-Peak	2992.429	3045.378	3098.367	3151.316	3204.305	3257.254	3310.202	3363.192	3416.14	3469.088	3522.078	3575.026	39404.7753	
279				Facility Capacity (kW)														
280				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	
281				Over 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	
282				Over 4,000 kW	9,698	9,698	9,698	8,730	7,636	7,833	8,031	8,228	8,425	8,622	8,820	9,017		
283				Demand (kW)														
284				On-peak	11,143	11,340	11,538	11,735	11,932	12,129	12,326	12,524	12,721	12,918	13,115	13,313	146,735	
285				Off-peak increment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
286				Reactive Demand (kVar)	1,881	1,914	1,947	1,981	2,014	2,047	2,081	2,114	2,147	2,180	2,214	2,247	24,767	
287				Calendar Energy (MWh)	7,175	6,889	7,961	7,799	8,264	7,778	8,337	8,397	8,100	8,653	8,044	8,321	95,717	
288																		
289				Schedule 689P v2020														
290				Customers - Three Phase	3	3	3	3	3	3	3	3	3	3	3	3	36	
291				Energy (MWh)														
292				On-Peak	21,081	21,732	22,384	23,035	23,686	24,338	24,989	25,641	26,292	26,943	27,004	27,064	294,188	
293				Off-Peak	15,821	16,312	16,802	17,293	17,783	18,273	18,764	19,254	19,745	20,235	20,279	20,322	220,883	
294				Facility Capacity (kW)														
295				First 1,000 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	
296				Over 1,001-4,000 kW	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	
297				Over 4,000 kW	61,904	59,590	59,427	61,366	63,536	65,705	67,874	70,044	72,213	74,382	76,552	77,735	810,329	
298				Demand (kW)														
299				On-peak	70,112	72,281	74,451	76,620	78,790	80,959	83,128	85,298	87,467	89,637	89,834	90,031	978,608	
300				Off-peak increment	64	67	69	71	73	75	77	79	82	84	84	84	908	
301				Reactive Demand (kVar)	8,278	8,523	8,768	9,013	9,257	9,502	9,747	9,992	10,237	10,481	10,518	10,555	114,871	
302				Calendar Energy (MWh)	36,570	35,571	41,615	41,255	44,206	42,057	45,547	46,331	45,116	48,641	44,634	45,585	517,130	
303																		
304				Schedule 489T v2000														
305				Customers - Three Phase	3	3	3	3	3	3	3	3	3	3	3	3	36	
306				Energy (MWh)														
307				On-Peak	10,221	9,888	9,908	9,951	9,913	9,871	9,861	10,394	9,876	10,091	9,956	9,972	119,904	
308				Off-Peak	7,240	6,989	6,996	7,037	6,992	6,970	6,962	7,371	6,998	7,143	7,050	7,058	84,807	
309				Facility Capacity (kW)														
310				First 1,000 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	
311				Over 1,001-4,000 kW	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	
312				Over 4,000 kW	33,479	33,348	33,348	32,577	31,880	32,173	26,253	20,816	20,816	20,816	20,816	20,816	327,140	
313				Demand (kW)														
314				On-peak	31,987	31,192	31,341	31,333	31,461	31,236	31,210	32,403	30,919	31,663	31,233	31,324	377,302	
315				Off-peak increment	295	299	304	297	310	304	294	294	285	296	291	294	3,573	
316				Reactive Demand (kVar)	28,094	27,939	28,274	27,939	28,620	28,202	28,195	28,178	27,156	27,991	27,581	27,758	335,925	
317				Calendar Energy (MWh)	17,304	15,781	17,952	17,379	18,021	16,622	17,513	18,334	16,537	17,768	16,054	16,383		

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Average Energy	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Schedule 7	1,196.3	1,139.9	1,007.8	862.1	767.4	794.5	922.5	924.8	775.2	806.1	1,042.4	1,288.5	960.2
Schedule 15	1.9	1.8	1.6	1.4	1.2	1.1	1.1	1.3	1.5	1.7	1.9	2.0	1.5
Schedule 32	204.9	200.5	189.7	178.8	171.8	176.2	192.6	195.0	179.9	168.5	173.9	195.6	185.6
Schedule 38	3.2	3.3	3.3	3.1	3.0	3.0	3.3	3.6	3.5	3.3	3.4	3.2	3.3
Schedule 47	1.0	0.8	1.1	1.3	2.9	3.7	6.0	6.7	3.4	1.6	1.0	1.2	2.6
Schedule 49	1.9	2.5	2.4	3.5	7.3	12.4	18.1	18.2	10.2	4.5	1.9	1.9	7.1
Schedule 83	358.2	358.2	343.0	329.5	327.4	340.3	367.3	370.4	347.3	328.5	325.7	354.2	345.8
Schedule 85	536.1	556.6	530.4	538.2	530.2	556.9	578.2	582.8	576.4	543.4	538.1	546.5	551.1
Schedule 89	423.0	453.5	420.2	434.5	436.4	453.6	437.7	433.1	451.4	445.4	457.8	450.3	441.2
Schedule 90	395.0	416.5	421.0	426.5	433.0	439.1	455.1	477.9	481.1	473.2	433.1	420.1	439.4
Schedule 91	1.5	1.4	1.2	1.1	0.9	0.8	0.9	1.0	1.2	1.3	1.5	1.6	1.2
Schedule 92	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3
Schedule 95	4.6	4.3	3.7	3.2	2.8	2.6	2.7	3.1	3.5	4.0	4.5	4.7	3.64
TOTALS	3,128.1	3,139.8	2,925.8	2,783.3	2,684.5	2,784.4	2,985.7	3,018.0	2,835.1	2,781.9	2,985.6	3,270.1	2,943.0
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	836,446	719,879	703,706	583,381	536,581	537,621	645,052	646,659	524,529	563,641	706,315	900,962	7,904,773
Schedule 15	1,351	1,154	1,095	916	819	728	785	897	1,006	1,187	1,275	1,387	12,601
Schedule 32	143,252	126,604	132,444	120,962	120,112	119,213	134,652	136,337	121,718	117,794	117,856	136,750	1,527,693
Schedule 38	2,263	2,087	2,319	2,064	2,086	2,034	2,289	2,490	2,400	2,331	2,333	2,241	26,939
Schedule 47	686	536	790	872	2,056	2,523	4,191	4,654	2,332	1,092	667	830	21,230
Schedule 49	1,358	1,583	1,696	2,387	5,129	8,370	12,634	12,736	6,933	3,134	1,306	1,300	58,568
Schedule 83-S	250,433	226,227	239,490	222,940	228,891	230,299	256,848	258,965	235,002	229,712	220,682	247,648	2,847,136
Schedule 85-S 201-4,000 kW	204,767	188,294	205,011	195,386	203,011	206,124	229,096	228,400	206,109	208,197	196,629	208,010	2,479,034
Schedule 89-S GT 4 MW	0	0	0	0	0	0	0	0	0	0	0	0	0
Schedule 85-P 201-4,000 kW	171,875	164,922	167,111	170,591	169,460	172,520	177,041	180,970	185,874	173,560	169,765	175,925	2,079,614
Schedule 89-P GT 4 MW	262,619	253,278	260,199	261,379	273,474	275,224	279,971	282,356	284,917	291,119	289,766	294,537	3,308,839
Schedule 90-P	279,126	265,819	297,073	291,615	305,965	300,221	321,528	337,639	328,977	334,351	296,586	296,807	3,655,705
Schedule 89-T	36,680	36,529	36,684	36,090	35,258	35,290	29,623	23,944	24,034	23,873	23,933	23,908	365,846
Schedule 91	1,057	904	857	717	641	570	615	702	787	929	998	1,086	9,864
Schedule 92	296	253	240	201	179	160	172	197	220	260	279	304	2,760
Schedule 95	3,212	2,744	2,604	2,178	1,947	1,732	1,867	2,133	2,391	2,822	3,032	3,299	29,961
TOTALS	2,195,420	1,990,814	2,051,318	1,891,680	1,885,612	1,892,629	2,096,361	2,119,080	1,927,229	1,954,002	2,031,423	2,294,993	24,330,562

Note: Energy includes DA

Busbar Energy (MWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Schedule 7	890,012	765,981	748,771	620,741	570,944	572,050	686,361	688,071	558,120	599,736	751,547	958,660	8,410,994
Schedule 15	1,437	1,228	1,165	975	872	775	835	955	1,070	1,263	1,357	1,476	13,408
Schedule 32	152,426	134,711	140,925	128,709	127,804	126,847	143,275	145,069	129,512	125,337	125,404	145,507	1,625,526
Schedule 38	2,408	2,221	2,468	2,197	2,219	2,165	2,436	2,650	2,553	2,481	2,483	2,384	28,664
Schedule 47	730	570	840	928	2,188	2,685	4,459	4,952	2,482	1,162	709	883	22,589
Schedule 49	1,445	1,685	1,805	2,540	5,457	8,906	13,443	13,552	7,377	3,335	1,390	1,383	62,318
Schedule 83-S	266,470	240,715	254,827	237,217	243,549	245,048	273,296	275,549	250,052	244,423	234,814	263,508	3,029,467
Schedule 85-S 201- 4,000 kW	217,880	200,353	218,139	207,898	216,012	219,324	243,767	243,027	219,309	221,530	209,221	221,331	2,637,791
Schedule 89-S GT 4 MW	0	0	0	0	0	0	0	0	0	0	0	0	0
Schedule 85-P 201-4,000 kW	180,979	173,658	175,963	179,627	178,437	181,658	186,419	190,556	195,720	182,753	178,757	185,244	2,189,772
Schedule 89-P GT 4 MW	276,530	266,694	273,982	275,224	287,960	289,802	294,801	297,312	300,009	306,540	305,115	310,139	3,484,108
Schedule 90-P	293,912	279,899	312,809	307,062	322,172	316,123	338,559	355,524	346,403	352,061	312,296	312,528	3,849,348
Schedule 89-T	38,206	38,049	38,210	37,592	36,726	36,758	30,855	24,940	25,034	24,866	24,929	24,903	381,068
Schedule 91	1,125	961	912	763	682	607	654	747	838	989	1,062	1,156	10,496
Schedule 92	315	269	255	214	191	170	183	209	234	277	297	323	2,937
Schedule 95	3,418	2,920	2,770	2,318	2,072	1,843	1,986	2,270	2,544	3,003	3,226	3,510	31,880
TOTALS	2,327,293	2,109,914	2,173,843	2,004,004	1,997,285	2,004,762	2,221,330	2,245,383	2,041,257	2,069,756	2,152,608	2,432,935	25,780,367
Busbar Energy (MWh) COS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
Schedule 85	240,653	225,544	245,474	233,842	244,019	242,203	265,488	267,596	247,383	245,375	231,172	245,456	2,934,204
Schedule 89	92,300	87,245	94,831	93,799	103,504	99,781	106,293	109,292	107,098	108,478	102,131	104,221	1,208,975
	167,897	156,633	169,786	161,709	167,698	170,055	188,514	188,528	169,613	170,477	161,859	170,595	
	58,884	55,918	61,555	58,669	62,283	58,177	61,637	63,625	63,542	60,762	55,982	60,720	21,230,807

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Twenty Five Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$33.00	cust.	1	\$33.00	
Transmission Charge	7.19	kWh	5,475	\$39.37	
Distribution Charge					
First 5,000 kWh	69.62	kWh	5,000	\$348.10	
Over 5,000 kWh	30.00	kWh	475	\$14.25	
System Usage Charge	4.88	kWh	5,475	\$26.72	
Energy Charges	38.73	kWh	5,475	<u>\$212.05</u>	12.30
Total Charges				\$673.49	
Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$60.00	cust.	1	\$60.00	
Transmission Charge	\$3.48	dem	30	\$104.40	
Distribution Demand Charge	\$2.11	dem	30	\$63.30	
Distribution Facilities Charge					
First 30 kW	\$6.24	fac	30	\$187.20	
Over 30 kW	\$6.14	fac	0	\$0.00	
Generation Demand Charge	9.86	dem	30	\$295.80	
System Usage Charge	10.35	kWh	5,475	\$56.67	
Energy Charges					
On-peak (64%)	30.03	kWh	3,504	\$105.23	
Off-peak (36%)	20.03	kWh	1,971	<u>\$39.48</u>	
Total Charges				\$912.08	16.66
Load Factor	25.00%		Percent Change		35.43%
Demand	30				
Billing Hours	730				

Thirty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$33.00	cust.	1	\$33.00	
Transmission Charge	7.19	kWh	6,570	\$47.24	
Distribution Charge					
First 5,000 kWh	69.62	kWh	5,000	\$348.10	
Over 5,000 kWh	30.00	kWh	1,570	\$47.10	
System Usage Charge	4.88	kWh	6,570	\$32.06	
Energy Charges	38.73	kWh	6,570	<u>\$254.46</u>	11.60
Total Charges				\$761.96	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$60.00	cust.	1	\$60.00	
Transmission Charge	\$3.48	dem	30	\$104.40	
Distribution Demand Charge	\$2.11	dem	30	\$63.30	
Distribution Facilities Charge					
First 30 kW	\$6.24	fac	30	\$187.20	
Over 30 kW	\$6.14	fac	0	\$0.00	
Generation Demand Charge	\$9.86	dem	30	\$295.80	
System Usage Charge	10.35	kWh	6,570	\$68.00	
Energy Charges					
On-peak (64%)	30.03	kWh	4,205	\$126.28	
Off-peak (36%)	20.03	kWh	2,365	<u>\$47.37</u>	
Total Charges				\$952.35	14.50
Load Factor	30.00%		Percent Change		24.99%
Demand	30				
Billing Hours	730				

Forty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$33.00	cust.	1	\$33.00	
Transmission Charge	7.19	kWh	8,760	\$62.98	
Distribution Charge					
First 5,000 kWh	69.62	kWh	5,000	\$348.10	
Over 5,000 kWh	30.00	kWh	3,760	\$112.80	
System Usage Charge	4.88	kWh	8,760	\$42.75	
Energy Charges	38.73	kWh	8,760	<u>\$339.27</u>	10.72
Total Charges				\$938.90	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$60.00	cust.	1	\$60.00	
Transmission Charge	\$3.48	dem	30	\$104.40	
Distribution Demand Charge	\$2.11	dem	30	\$63.30	
Distribution Facilities Charge					
First 30 kW	\$6.24	fac	30	\$187.20	
Over 30 kW	\$6.14	fac	0	\$0.00	
Generation Demand Charge	\$9.86	dem	30	\$295.80	
System Usage Charge	10.35	kWh	8,760	\$90.67	
Energy Charges					
On-peak (64%)	30.03	kWh	5,606	\$168.35	
Off-peak (36%)	20.03	kWh	3,154	<u>\$63.17</u>	
Total Charges				\$1,032.89	11.79
Load Factor	40.00%		Percent Change		10.01%
Demand	30				
Billing Hours	730				

Fifty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$33.00	cust.	1	\$33.00	
Transmission Charge	7.19	kWh	10,950	\$78.73	
Distribution Charge					
First 5,000 kWh	69.62	kWh	5,000	\$348.10	
Over 5,000 kWh	30.00	kWh	5,950	\$178.50	
System Usage Charge	4.88	kWh	10,950	\$53.44	
Energy Charges	38.73	kWh	10,950	<u>\$424.09</u>	10.19
Total Charges				\$1,115.86	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$60.00	cust.	1	\$60.00	
Transmission Charge	\$3.48	dem	30	\$104.40	
Distribution Demand Charge	\$2.11	dem	30	\$63.30	
Distribution Facilities Charge					
First 30 kW	\$6.24	fac	30	\$187.20	
Over 30 kW	\$6.14	fac	0	\$0.00	
Generation Demand Charge	\$9.86	dem	30	\$295.80	
System Usage Charge	10.35	kWh	10,950	\$113.33	
Energy Charges					
On-peak (64%)	30.03	kWh	7,008	\$210.45	
Off-peak (36%)	20.03	kWh	3,942	<u>\$78.96</u>	
Total Charges				\$1,113.44	10.17
Load Factor	50.00%		Percent Change		-0.22%
Demand	30				
Billing Hours	730				

Sixty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$33.00	cust.	1	\$33.00	
Transmission Charge	7.19	kWh	13,140	\$94.48	
Distribution Charge					
First 5,000 kWh	69.62	kWh	5,000	\$348.10	
Over 5,000 kWh	30.00	kWh	8,140	\$244.20	
System Usage Charge	4.88	kWh	13,140	\$64.12	
Energy Charges	38.73	kWh	13,140	<u>\$508.91</u>	9.84
Total Charges				\$1,292.81	

Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$60.00	cust.	1	\$60.00	
Transmission Charge	\$3.48	dem	30	\$104.40	
Distribution Demand Charge	\$2.11	dem	30	\$63.30	
Distribution Facilities Charge					
First 30 kW	\$6.24	fac	30	\$187.20	
Over 30 kW	\$6.14	fac	0	\$0.00	
Generation Demand Charge	\$9.86	dem	30	\$295.80	
System Usage Charge	10.35	kWh	13,140	\$136.00	
Energy Charges					
On-peak (64%)	30.03	kWh	8,410	\$252.55	
Off-peak (36%)	20.03	kWh	4,730	<u>\$94.74</u>	
Total Charges				\$1,193.99	9.09
Load Factor	60.00%		Percent Change		-7.64%
Demand	30				
Billing Hours	730				

Eighty Percent Load Factor

Sch 32	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$33.00	cust.	1	\$33.00	
Transmission Charge	7.19	kWh	17,520	\$125.97	
Distribution Charge					
First 5,000 kWh	69.62	kWh	5,000	\$348.10	
Over 5,000 kWh	30.00	kWh	12,520	\$375.60	
System Usage Charge	4.88	kWh	17,520	\$85.50	
Energy Charges	38.73	kWh	17,520	<u>\$678.55</u>	9.40
Total Charges				\$1,646.72	
Sch 83 Secondary	Prices	Units	BD	Charges	Cents/kWh
Customer Charge	\$60.00	cust.	1	\$60.00	
Transmission Charge	\$3.48	dem	30	\$104.40	
Distribution Demand Charge	\$2.11	dem	30	\$63.30	
Distribution Facilities Charge					
First 30 kW	\$6.24	fac	30	\$187.20	
Over 30 kW	\$6.14	fac	0	\$0.00	
Generation Demand Charge	\$9.86	dem	30	\$295.80	
System Usage Charge	10.35	kWh	17,520	\$181.33	
Energy Charges					
On-peak (64%)	30.03	kWh	11,213	\$336.73	
Off-peak (36%)	20.03	kWh	6,307	<u>\$126.33</u>	
Total Charges				\$1,355.09	7.73
Load Factor	80.00%		Percent Change		-17.71%
Demand	30				
Billing Hours	730				

Proposed Schedule 83 Secondary 25% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$60.00	cust.	1	\$60.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 30 kW	\$6.24	fac	30	\$187.20
Over 30 kW	\$6.14	fac	170	\$1,043.80
Generation Demand Charge	\$9.86	dem	200	\$1,972.00
System Usage Charge	10.35	kWh	36,500	\$377.78
Energy Charge				
On-peak (64%)	30.03	kWh	23,360	\$701.50
Off-peak (36%)	20.03	kWh	13,140	\$263.19
Total Charges				\$5,723.47
Revenue Delta				-2.11%

Proposed Schedule 85 Secondary 25% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$870.00	cust.	1	\$870.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 200 kW	\$2.84	fac	200	\$568.00
Over 200 kW	\$2.74	fac	0	\$0.00
Generation Demand Charge	\$11.27	dem	200	\$2,254.00
System Usage Charge	2.99	kWh	36,500	\$109.14
Energy Charge				
On-peak (64%)	29.02	kWh	23,360	\$677.91
Off-peak (36%)	19.02	kWh	13,140	\$249.92
Total Charges				\$5,846.97

Proposed Schedule 83 Secondary 40% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$60.00	cust.	1	\$60.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 30 kW	\$6.24	fac	30	\$187.20
Over 30 kW	\$6.14	fac	170	\$1,043.80
Generation Demand Charge	\$9.86	dem	200	\$1,972.00
System Usage Charge	10.35	kWh	58,400	\$604.44
Energy Charge				
On-peak (64%)	30.03	kWh	37,376	\$1,122.40
Off-peak (36%)	20.03	kWh	21,024	\$421.11
Total Charges				\$6,528.95
Revenue Delta				0.92%

Proposed Schedule 85 Secondary 40% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$870.00	cust.	1	\$870.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 200 kW	\$2.84	fac	200	\$568.00
Over 200 kW	\$2.74	fac	0	\$0.00
Generation Demand Charge	\$11.27	dem	200	\$2,254.00
System Usage Charge	2.99	kWh	58,400	\$174.62
Energy Charge				
On-peak (64%)	29.02	kWh	37,376	\$1,084.65
Off-peak (36%)	19.02	kWh	21,024	\$399.88
Total Charges				\$6,469.14

Proposed Schedule 83 Secondary 50% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$60.00	cust.	1	\$60.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 30 kW	\$6.24	fac	30	\$187.20
Over 30 kW	\$6.14	fac	170	\$1,043.80
System Usage Charge	10.35	kWh	73,000	\$755.55
Generation Demand Charge	\$9.86	dem	200	\$1,972.00
Energy Charge		kWh		
On-peak (64%)	30.03	kWh	46,720	\$1,403.00
Off-peak (36%)	20.03	kWh	26,280	\$526.39
Total Charges				\$7,065.94
Revenue Delta				2.64%

Proposed Schedule 85 Secondary 50% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$870.00	cust.	1	\$870.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 200 kW	\$2.84	fac	200	\$568.00
Over 200 kW	\$2.74	fac	0	\$0.00
Generation Demand Charge	\$11.27	dem	200	\$2,254.00
System Usage Charge	2.99	kWh	73,000	\$218.27
Energy Charge		kWh		
On-peak (64%)	29.02	kWh	46,720	\$1,355.81
Off-peak (36%)	19.02	kWh	26,280	\$499.85
Total Charges				\$6,883.93

Proposed Schedule 83 Secondary 60% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$60.00	cust.	1	\$60.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 30 kW	\$6.24	fac	30	\$187.20
Over 30 kW	\$6.14	fac	170	\$1,043.80
Generation Demand Charge	\$9.86	dem	200	\$1,972.00
System Usage Charge	10.35	kWh	87,600	\$906.66
Energy Charge		kWh		
On-peak (64%)	30.03	kWh	56,064	\$1,683.60
Off-peak (36%)	20.03	kWh	31,536	\$631.67
Total Charges				\$7,602.93
Revenue Delta				4.17%

Proposed Schedule 85 Secondary 60% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$870.00	cust.	1	\$870.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 200 kW	\$2.84	fac	200	\$568.00
Over 200 kW	\$2.74	fac	0	\$0.00
Generation Demand Charge	\$11.27	dem	200	\$2,254.00
System Usage Charge	2.99	kWh	87,600	\$261.92
Energy Charge		kWh		
On-peak (64%)	29.02	kWh	56,064	\$1,626.98
Off-peak (36%)	19.02	kWh	31,536	\$599.81
Total Charges				\$7,298.72

Proposed Schedule 83 Secondary 80% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$60.00	cust.	1	\$60.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 30 kW	\$6.24	fac	30	\$187.20
Over 30 kW	\$6.14	fac	170	\$1,043.80
Generation Demand Charge	\$9.86	dem	200	\$1,972.00
System Usage Charge	10.35	kWh	116,800	\$1,208.88
Energy Charge		kWh		
On-peak (64%)	30.03	kWh	74,752	\$2,244.80
Off-peak (36%)	20.03	kWh	42,048	\$842.22
Total Charges				\$8,676.90
Revenue Delta				6.75%

Proposed Schedule 85 Secondary 80% Load Factor

	Prices	Units	BD	Charges
Customer Charge	\$870.00	cust.	1	\$870.00
Transmission Charge	\$3.48	dem	200	\$696.00
Distribution Demand Charge	\$2.11	dem	200	\$422.00
Distribution Facilities Charge				
First 200 kW	\$2.84	fac	200	\$568.00
Over 200 kW	\$2.74	fac	0	\$0.00
Generation Demand Charge	\$11.27	dem	200	\$2,254.00
System Usage Charge	2.99	kWh	116,800	\$349.23
Energy Charge		kWh		
On-peak (64%)	29.02	kWh	74,752	\$2,169.30
Off-peak (36%)	19.02	kWh	42,048	\$799.75
Total Charges				\$8,128.29

PORTLAND GENERAL ELECTRIC
2025 LINE LOSS PROJECTIONS

Delivery Voltage	Internal Losses	External Losses	Losses
Secondary	4.20%	2.20%	6.40%
Primary	3.09%	2.20%	5.30%
Subtransmission	1.96%	2.20%	4.16%

Category	MWh	G&T Losses	G&T MWh	115 kV Losses	115 kV MWh	Primary Losses	Primary MWh
Residential	7,906,352	1.0640		1.0420	8,238,419	1.0220	8,080,287
Secondary	6,975,003	1.0640		1.0420	7,267,954	1.0220	7,128,450
Primary	7,331,389	1.0530		1.0309	7,558,149	1.0111	7,413,075
Subtransmission	244,353	1.0416		1.0196	249,135		
Lighting	42,585	1.0640		1.0420	44,374	1.0220	43,522
Totals	22,499,683				23,358,030		22,665,334

For delivery voltage differentiated pricing

Category	Peak Losses
Secondary	7.37%
Primary	6.24%
Subtransmission	4.42%

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

tab:

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RD Input Rpt: PGE Rev Req Calendar	2025
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Ancillary

03_Rate Design 2025 7,830,941

Billing

03_Rate Design 2025 48,082,874

Consumer

03_Rate Design 2025 141,287,748

Distribution

03_Rate Design 2025 957,796,445

Employee Discount

03_Rate Design 2025 1,820,545

Franchise

03_Rate Design 2025 77,979,904

Metering

03_Rate Design 2025 2,442,128

Production

03_Rate Design 2025 1,738,570,007

Transmission

03_Rate Design 2025 139,554,581

Trojan Decomissioning

03_Rate Design 2025 1,895,772

Uncollectibles

03_Rate Design 2025 12,160,111

Base

Production 1688263.031

Transmission **138697.0233**

Distribution 956218.6748

Ancillary 7830.941

Metering 2,442

Billing 48,083

Other Consumer 141,288

Total Regulated 2,982,822

Franchise Fees 76627.00897

Uncollectibles 11949.14168

RD Input Rpt: PGE Rev Req Calendar

Ancillary

03_Rate Design 2025

Billing

03_Rate Design 2025

Consumer

03_Rate Design 2025

Distribution

03_Rate Design 2025

Employee Discount

03_Rate Design 2025

Franchise

03_Rate Design 2025

Metering

03_Rate Design 2025

Production

03_Rate Design 2025

Transmission

03_Rate Design 2025

Trojan Decomissioning

03_Rate Design 2025

Uncollectibles

03_Rate Design 2025

Constable

11421.57741	1699685	1699684608
353.1120204	139050.1	139050135
363.0980777	956581.8	956581773
	7830.941	7830941
	2442.128	2442128.05
	48082.87	48082873.9
	141287.7	141287748
\$12,138	2994960	2994960208

Seaside

38885.4	1738570	1738570007
504.4457	139554.6	139554581
1214.672	957796.4	957796445
0	7830.941	7830941
0	2442.128	2442128.05
0	48082.87	48082873.9
0	141287.7	141287748
40604.52	3035565	3035564724

311.3470028	76938.36	76938356
		0
48.55115055	11997.69	11997692.8

1041.548	77979.9	77979904.5
162.4181	12160.11	12160110.9

Template Rpt: PGE Rev Req Cycle	
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Oregon

Ancillary

03_Rate Design 2025

Billing

03_Rate Design 2025

Consumer

03_Rate Design 2025

Distribution

03_Rate Design 2025

Employee Discount

03_Rate Design 2025

Franchise

03_Rate Design 2025

Metering

03_Rate Design 2025

Production

03_Rate Design 2025

Transmission

03_Rate Design 2025

Trojan Decommissioning

03_Rate Design 2025

Uncollectibles

03_Rate Design 2025

CMN - Rate Code	RD Phase	Billing	Consumer Service	Feeder Backbone	Feeder Local Facilities	Metering	Meters
Schedule 15	N/A						
Schedule 15	Single Phase			43.89	52.03		
Schedule 15 Com	N/A		1.53				
Schedule 15 Com	Single Phase	1.38		43.89	52.03		
Schedule 15 Res	N/A		1.53				
Schedule 15 Res	Single Phase	1.79		43.89	52.03		
Schedule 32	N/A						
Schedule 32	Single Phase	20.75		50.12	78.67	0.50	43.59
Schedule 32	Three Phase	20.75		50.12	21.01	0.50	61.01
Schedule 38	N/A						
Schedule 38	Single Phase	20.41		52.07	93.12	1.99	50.04
Schedule 38	Three Phase	20.41		52.07	23.35	1.99	100.38
Schedule 47	N/A						
Schedule 47	Single Phase	18.38		50.12	73.97	0.68	50.54
Schedule 47	Three Phase	18.38		50.12	19.75	0.68	70.05
Schedule 49	N/A						
Schedule 49	Single Phase	24.96		52.07	89.70	0.77	50.54
Schedule 49	Three Phase	24.96		52.07	22.49	0.77	60.83
Schedule 7	N/A						
Schedule 7	Single Phase	22.59		40.80	52.10	0.25	21.08
Schedule 7	Three Phase	22.59		40.80	52.10	0.25	47.38
Schedule 83-S	N/A						
Schedule 83-S	Single Phase	30.19		52.07	93.12	1.55	50.54
Schedule 83-S	Three Phase	30.19		52.07	23.35	1.55	105.82
Schedule 85	N/A						
Schedule 85	Three Phase			42.18	7.37		
Schedule 85-P	N/A						
Schedule 85-P	Single Phase	36.47				2.80	
Schedule 85-P	Three Phase	36.47		42.18	7.37	2.80	1,795.89
Schedule 85-S	N/A						
Schedule 85-S	Single Phase	36.47				2.80	
Schedule 85-S	Three Phase	36.47		42.18	7.37	2.80	113.81
Schedule 89	N/A						
Schedule 89-P	N/A						
Schedule 89-P	Three Phase	18.65		104,332.00		0.15	1,896.75
Schedule 89-T	N/A						
Schedule 89-T	Three Phase	18.65		93,301.00		0.15	17,623.44

CMN - Rate Code	RD Phase	Billing	Consumer Service	Feeder Backbone	Feeder Local Facilities	Metering	Meters
Schedule 90-P	N/A						
Schedule 90-P	Three Phase	20.14		491,171.00		0.15	1,896.75
Schedule 91	N/A						
Schedule 91/95	N/A		1.53				
Schedule 91/95	Single Phase	149.74		43.89	54.88		
Schedule 92	N/A						
Schedule 92	Single Phase	142.95					
Schedule 92	Three Phase			43.89	19.25		
Schedule 95	N/A						

CMN - Rate Code	RD Phase	Other	Service & Trans.	Substation	Subtransmission	Uncollectibles
Schedule 15	N/A			15.88	1.33	
Schedule 15	Single Phase		3.28			
Schedule 15 Com	N/A			15.88	1.33	
Schedule 15 Com	Single Phase	0.83	3.28	15.88	1.33	0.00
Schedule 15 Res	N/A			15.88	1.33	
Schedule 15 Res	Single Phase	0.83	3.28	15.88	1.33	0.00
Schedule 32	N/A			15.88	1.33	
Schedule 32	Single Phase	72.23	232.99			0.04
Schedule 32	Three Phase	72.23	317.24			0.03
Schedule 38	N/A			15.88	1.33	
Schedule 38	Single Phase	453.23	224.52			0.00
Schedule 38	Three Phase	453.23	745.21			0.00
Schedule 47	N/A			15.88	1.33	
Schedule 47	Single Phase	81.49	34.20			0.00
Schedule 47	Three Phase	81.49	50.84			0.00
Schedule 49	N/A			15.88	1.33	
Schedule 49	Single Phase	422.68	317.26			
Schedule 49	Three Phase	422.68	317.27			0.00
Schedule 7	N/A			15.88	1.33	
Schedule 7	Single Phase	37.16	116.40			0.89
Schedule 7	Three Phase	37.16	154.70			
Schedule 83-S	N/A			15.88	1.33	
Schedule 83-S	Single Phase	651.31	516.67			0.00
Schedule 83-S	Three Phase	651.31	1,282.21			0.03
Schedule 85	N/A			15.88	1.33	
Schedule 85	Three Phase					
Schedule 85-P	N/A			15.88	1.33	
Schedule 85-P	Single Phase	2,380.21				
Schedule 85-P	Three Phase	2,380.21				0.00
Schedule 85-S	N/A			15.88	1.33	
Schedule 85-S	Single Phase	2,380.21				
Schedule 85-S	Three Phase	2,380.21	2,893.64			0.01
Schedule 89	N/A			15.88	1.33	
Schedule 89-P	N/A			15.88	1.33	
Schedule 89-P	Three Phase	17,382.70				
Schedule 89-T	N/A			15.88	1.33	
Schedule 89-T	Three Phase	17,382.70				

CMN - Rate Code	RD Phase	Other	Service & Trans.	Substation	Subtransmission	Uncollectibles
Schedule 90-P	N/A			15.88	1.33	
Schedule 90-P	Three Phase	80,922.59				
Schedule 91	N/A			15.88	1.33	
Schedule 91/95	N/A			15.88	1.33	
Schedule 91/95	Single Phase	0.83	3.28			0.00
Schedule 92	N/A			15.88	1.33	
Schedule 92	Single Phase		6.33			
Schedule 92	Three Phase	0.83				
Schedule 95	N/A			15.88	1.33	

[illegible]

[illegible]

Schedule 15	Luminaires & Poles
Schedule 91/95	Luminaires & Poles
Schedule 15 Com	No. of Lights
Schedule 15 Res	No. of Lights
Schedule 91/95	No. of Lights
Schedule 92	Intersections

CMN - Rate Code	RD - RD Inputs	Dec - 2025
Any	NVPC Revenue Requirement	969,895,043
Schedule 15	Franchise Fees	108
Schedule 32	Franchise Fees	7,149
Schedule 38	Franchise Fees	135
Schedule 47	Franchise Fees	147
Schedule 49	Franchise Fees	370
Schedule 7	Franchise Fees	38,632
Schedule 83-S	Franchise Fees	10,173
Schedule 85-P	Franchise Fees	2,268
Schedule 85-S	Franchise Fees	5,812
Schedule 89-P	Franchise Fees	2,421
Schedule 89-T	Franchise Fees	287
Schedule 90-P	Franchise Fees	7,604
Schedule 91/95	Franchise Fees	355
Schedule 92	Franchise Fees	7
Schedule 15	Load Factor Percentage	46.4%
Schedule 15 Com	Load Factor Percentage	46.4%
Schedule 15 Res	Load Factor Percentage	46.4%
Schedule 32	Load Factor Percentage	56.0%
Schedule 38	Load Factor Percentage	38.9%
Schedule 47	Load Factor Percentage	20.6%
Schedule 49	Load Factor Percentage	19.6%
Schedule 7	Load Factor Percentage	45.4%
Schedule 83-S	Load Factor Percentage	56.1%
Schedule 85	Load Factor Percentage	66.3%
Schedule 85-P	Load Factor Percentage	66.3%
Schedule 85-S	Load Factor Percentage	66.3%
Schedule 89	Load Factor Percentage	77.5%
Schedule 89-P	Load Factor Percentage	77.5%
Schedule 89-T	Load Factor Percentage	77.5%
Schedule 90-P	Load Factor Percentage	84.5%
Schedule 91/95	Load Factor Percentage	46.4%
Schedule 92	Load Factor Percentage	100.0%
Schedule 15	Load Following Allocation MWh	
Schedule 32	Load Following Allocation MWh	
Schedule 38	Load Following Allocation MWh	
Schedule 47	Load Following Allocation MWh	
Schedule 49	Load Following Allocation MWh	
Schedule 7	Load Following Allocation MWh	
Schedule 83-S	Load Following Allocation MWh	
Schedule 85	Load Following Allocation MWh	
Schedule 89	Load Following Allocation MWh	
Schedule 90-P	Load Following Allocation MWh	
Schedule 91/95	Load Following Allocation MWh	
Schedule 92	Load Following Allocation MWh	
Schedule 15	Load Following Allocation Price	4.89
Schedule 32	Load Following Allocation Price	4.89
Schedule 38	Load Following Allocation Price	4.89
Schedule 47	Load Following Allocation Price	4.89

CMN - Rate Code	RD - RD Inputs	Dec - 2025
Schedule 49	Load Following Allocation Price	4.89
Schedule 7	Load Following Allocation Price	4.89
Schedule 83-S	Load Following Allocation Price	4.89
Schedule 85	Load Following Allocation Price	4.89
Schedule 89	Load Following Allocation Price	4.89
Schedule 90-P	Load Following Allocation Price	4.89
Schedule 91/95	Load Following Allocation Price	4.89
Schedule 92	Load Following Allocation Price	4.89
Schedule 15	Marginal Capacity Costs	
Schedule 32	Marginal Capacity Costs	
Schedule 38	Marginal Capacity Costs	
Schedule 47	Marginal Capacity Costs	
Schedule 49	Marginal Capacity Costs	
Schedule 7	Marginal Capacity Costs	
Schedule 83-S	Marginal Capacity Costs	
Schedule 85	Marginal Capacity Costs	
Schedule 89	Marginal Capacity Costs	
Schedule 90-P	Marginal Capacity Costs	
Schedule 91/95	Marginal Capacity Costs	
Schedule 92	Marginal Capacity Costs	
Schedule 7	Marginal Energy Costs	
Schedule 15	Marginal Energy Costs	
Schedule 32	Marginal Energy Costs	
Schedule 38	Marginal Energy Costs	
Schedule 47	Marginal Energy Costs	
Schedule 49	Marginal Energy Costs	
Schedule 83-S	Marginal Energy Costs	
Schedule 85	Marginal Energy Costs	
Schedule 89	Marginal Energy Costs	
Schedule 90-P	Marginal Energy Costs	
Schedule 91/95	Marginal Energy Costs	
Schedule 92	Marginal Energy Costs	
Schedule 15	Marginal Trans Cost	87.3
Schedule 32	Marginal Trans Cost	87.3
Schedule 38	Marginal Trans Cost	87.3
Schedule 47	Marginal Trans Cost	87.3
Schedule 49	Marginal Trans Cost	87.3
Schedule 7	Marginal Trans Cost	87.3
Schedule 83-S	Marginal Trans Cost	87.3
Schedule 85	Marginal Trans Cost	87.3
Schedule 85-P	Marginal Trans Cost	87.3
Schedule 89	Marginal Trans Cost	87.3
Schedule 89-P	Marginal Trans Cost	87.3
Schedule 90-P	Marginal Trans Cost	87.3
Schedule 91/95	Marginal Trans Cost	87.3
Schedule 92	Marginal Trans Cost	87.3
Schedule 38	On/Mid TOU Differential	
Schedule 83-S	On/Mid TOU Differential	
Schedule 85-P	On/Mid TOU Differential	

CMN - Rate Code	RD - RD Inputs	Dec - 2025
Schedule 85-S	On/Mid TOU Differential	
Schedule 89-P	On/Mid TOU Differential	
Schedule 89-S	On/Mid TOU Differential	
Schedule 89-T	On/Mid TOU Differential	
Schedule 38	Mid/Off TOU Differential	
Schedule 83-S	Mid/Off TOU Differential	
Schedule 85-P	Mid/Off TOU Differential	
Schedule 85-S	Mid/Off TOU Differential	
Schedule 89-P	Mid/Off TOU Differential	
Schedule 89-S	Mid/Off TOU Differential	
Schedule 89-T	Mid/Off TOU Differential	
Schedule 15	Peak	3.4
Schedule 32	Peak	261.7
Schedule 38	Peak	3.9
Schedule 47	Peak	1.1
Schedule 49	Peak	1.7
Schedule 7	Peak	1,968.3
Schedule 83-S	Peak	449.7
Schedule 85	Peak	386.9
Schedule 89	Peak	138.8
Schedule 90-P	Peak	461.5
Schedule 91/95	Peak	9.6
Schedule 92	Peak	0.3
Schedule 15	Luminaires & Poles	2,422,442
Schedule 91/95	Luminaires & Poles	8,310,931
Schedule 15 Com	No. of Lights	14,336
Schedule 15 Res	No. of Lights	6,747
Schedule 91/95	No. of Lights	151,172
Schedule 92	Intersections	1,248

CMN - Rate Code	RD - RD Inputs
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Any	NVPC Revenue Requirement				
Schedule 15	Franchise Fees				
Schedule 32	Franchise Fees				
Schedule 38	Franchise Fees	Base	Constable		
Schedule 47	Franchise Fees				
Schedule 49	Franchise Fees	988962.0401	-6462.8	982499.2	982499236.3
Schedule 7	Franchise Fees				
Schedule 83-S	Franchise Fees				
Schedule 85-P	Franchise Fees				
Schedule 85-S	Franchise Fees				
Schedule 89-P	Franchise Fees				
Schedule 89-T	Franchise Fees				
Schedule 90-P	Franchise Fees				
Schedule 91/95	Franchise Fees				
Schedule 92	Franchise Fees				
Schedule 15	Load Factor Percentage				
Schedule 15 Com	Load Factor Percentage				
Schedule 15 Res	Load Factor Percentage				
Schedule 32	Load Factor Percentage				
Schedule 38	Load Factor Percentage				
Schedule 47	Load Factor Percentage				
Schedule 49	Load Factor Percentage				
Schedule 7	Load Factor Percentage				
Schedule 83-S	Load Factor Percentage				
Schedule 85	Load Factor Percentage				
Schedule 85-P	Load Factor Percentage				
Schedule 85-S	Load Factor Percentage				
Schedule 89	Load Factor Percentage				
Schedule 89-P	Load Factor Percentage				
Schedule 89-T	Load Factor Percentage				
Schedule 90-P	Load Factor Percentage				
Schedule 91/95	Load Factor Percentage				
Schedule 92	Load Factor Percentage				
Schedule 15	Load Following Allocation MWh				
Schedule 32	Load Following Allocation MWh				
Schedule 38	Load Following Allocation MWh				
Schedule 47	Load Following Allocation MWh				
Schedule 49	Load Following Allocation MWh				
Schedule 7	Load Following Allocation MWh				
Schedule 83-S	Load Following Allocation MWh				
Schedule 85	Load Following Allocation MWh				
Schedule 89	Load Following Allocation MWh				
Schedule 90-P	Load Following Allocation MWh				
Schedule 91/95	Load Following Allocation MWh				
Schedule 92	Load Following Allocation MWh				
Schedule 15	Load Following Allocation Price				
Schedule 32	Load Following Allocation Price				
Schedule 38	Load Following Allocation Price				
Schedule 47	Load Following Allocation Price				

CMN - Rate Code	RD - RD Inputs
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Schedule 49	Load Following Allocation Price
Schedule 7	Load Following Allocation Price
Schedule 83-S	Load Following Allocation Price
Schedule 85	Load Following Allocation Price
Schedule 89	Load Following Allocation Price
Schedule 90-P	Load Following Allocation Price
Schedule 91/95	Load Following Allocation Price
Schedule 92	Load Following Allocation Price
Schedule 15	Marginal Capacity Costs
Schedule 32	Marginal Capacity Costs
Schedule 38	Marginal Capacity Costs
Schedule 47	Marginal Capacity Costs
Schedule 49	Marginal Capacity Costs
Schedule 7	Marginal Capacity Costs
Schedule 83-S	Marginal Capacity Costs
Schedule 85	Marginal Capacity Costs
Schedule 89	Marginal Capacity Costs
Schedule 90-P	Marginal Capacity Costs
Schedule 91/95	Marginal Capacity Costs
Schedule 92	Marginal Capacity Costs
Schedule 7	Marginal Energy Costs
Schedule 15	Marginal Energy Costs
Schedule 32	Marginal Energy Costs
Schedule 38	Marginal Energy Costs
Schedule 47	Marginal Energy Costs
Schedule 49	Marginal Energy Costs
Schedule 83-S	Marginal Energy Costs
Schedule 85	Marginal Energy Costs
Schedule 89	Marginal Energy Costs
Schedule 90-P	Marginal Energy Costs
Schedule 91/95	Marginal Energy Costs
Schedule 92	Marginal Energy Costs
Schedule 15	Marginal Trans Cost
Schedule 32	Marginal Trans Cost
Schedule 38	Marginal Trans Cost
Schedule 47	Marginal Trans Cost
Schedule 49	Marginal Trans Cost
Schedule 7	Marginal Trans Cost
Schedule 83-S	Marginal Trans Cost
Schedule 85	Marginal Trans Cost
Schedule 85-P	Marginal Trans Cost
Schedule 89	Marginal Trans Cost
Schedule 89-P	Marginal Trans Cost
Schedule 90-P	Marginal Trans Cost
Schedule 91/95	Marginal Trans Cost
Schedule 92	Marginal Trans Cost
Schedule 38	On/Mid TOU Differential
Schedule 83-S	On/Mid TOU Differential
Schedule 85-P	On/Mid TOU Differential

CMN - Rate Code	RD - RD Inputs
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Schedule 85-S	On/Mid TOU Differential
Schedule 89-P	On/Mid TOU Differential
Schedule 89-S	On/Mid TOU Differential
Schedule 89-T	On/Mid TOU Differential
Schedule 38	Mid/Off TOU Differential
Schedule 83-S	Mid/Off TOU Differential
Schedule 85-P	Mid/Off TOU Differential
Schedule 85-S	Mid/Off TOU Differential
Schedule 89-P	Mid/Off TOU Differential
Schedule 89-S	Mid/Off TOU Differential
Schedule 89-T	Mid/Off TOU Differential

Schedule 15	Peak
Schedule 32	Peak
Schedule 38	Peak
Schedule 47	Peak
Schedule 49	Peak
Schedule 7	Peak
Schedule 83-S	Peak
Schedule 85	Peak
Schedule 89	Peak
Schedule 90-P	Peak
Schedule 91/95	Peak
Schedule 92	Peak

Schedule 15	Luminaires & Poles
Schedule 91/95	Luminaires & Poles
Schedule 15 Com	No. of Lights
Schedule 15 Res	No. of Lights
Schedule 91/95	No. of Lights
Schedule 92	Intersections

CMN - Rate Code	RD - RD Inputs
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Any	NVPC Revenue Requirement			
Schedule 15	Franchise Fees			
Schedule 32	Franchise Fees			
Schedule 38	Franchise Fees	Seaside		
Schedule 47	Franchise Fees			
Schedule 49	Franchise Fees	-12604.2	969895	969895042.5
Schedule 7	Franchise Fees			
Schedule 83-S	Franchise Fees			
Schedule 85-P	Franchise Fees			
Schedule 85-S	Franchise Fees			
Schedule 89-P	Franchise Fees			
Schedule 89-T	Franchise Fees			
Schedule 90-P	Franchise Fees			
Schedule 91/95	Franchise Fees			
Schedule 92	Franchise Fees			
Schedule 15	Load Factor Percentage			
Schedule 15 Com	Load Factor Percentage			
Schedule 15 Res	Load Factor Percentage			
Schedule 32	Load Factor Percentage			
Schedule 38	Load Factor Percentage			
Schedule 47	Load Factor Percentage			
Schedule 49	Load Factor Percentage			
Schedule 7	Load Factor Percentage			
Schedule 83-S	Load Factor Percentage			
Schedule 85	Load Factor Percentage			
Schedule 85-P	Load Factor Percentage			
Schedule 85-S	Load Factor Percentage			
Schedule 89	Load Factor Percentage			
Schedule 89-P	Load Factor Percentage			
Schedule 89-T	Load Factor Percentage			
Schedule 90-P	Load Factor Percentage			
Schedule 91/95	Load Factor Percentage			
Schedule 92	Load Factor Percentage			
Schedule 15	Load Following Allocation MWh			
Schedule 32	Load Following Allocation MWh			
Schedule 38	Load Following Allocation MWh			
Schedule 47	Load Following Allocation MWh			
Schedule 49	Load Following Allocation MWh			
Schedule 7	Load Following Allocation MWh			
Schedule 83-S	Load Following Allocation MWh			
Schedule 85	Load Following Allocation MWh			
Schedule 89	Load Following Allocation MWh			
Schedule 90-P	Load Following Allocation MWh			
Schedule 91/95	Load Following Allocation MWh			
Schedule 92	Load Following Allocation MWh			
Schedule 15	Load Following Allocation Price			
Schedule 32	Load Following Allocation Price			
Schedule 38	Load Following Allocation Price			
Schedule 47	Load Following Allocation Price			

CMN - Rate Code	RD - RD Inputs
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Schedule 49	Load Following Allocation Price
Schedule 7	Load Following Allocation Price
Schedule 83-S	Load Following Allocation Price
Schedule 85	Load Following Allocation Price
Schedule 89	Load Following Allocation Price
Schedule 90-P	Load Following Allocation Price
Schedule 91/95	Load Following Allocation Price
Schedule 92	Load Following Allocation Price
Schedule 15	Marginal Capacity Costs
Schedule 32	Marginal Capacity Costs
Schedule 38	Marginal Capacity Costs
Schedule 47	Marginal Capacity Costs
Schedule 49	Marginal Capacity Costs
Schedule 7	Marginal Capacity Costs
Schedule 83-S	Marginal Capacity Costs
Schedule 85	Marginal Capacity Costs
Schedule 89	Marginal Capacity Costs
Schedule 90-P	Marginal Capacity Costs
Schedule 91/95	Marginal Capacity Costs
Schedule 92	Marginal Capacity Costs
Schedule 7	Marginal Energy Costs
Schedule 15	Marginal Energy Costs
Schedule 32	Marginal Energy Costs
Schedule 38	Marginal Energy Costs
Schedule 47	Marginal Energy Costs
Schedule 49	Marginal Energy Costs
Schedule 83-S	Marginal Energy Costs
Schedule 85	Marginal Energy Costs
Schedule 89	Marginal Energy Costs
Schedule 90-P	Marginal Energy Costs
Schedule 91/95	Marginal Energy Costs
Schedule 92	Marginal Energy Costs
Schedule 15	Marginal Trans Cost
Schedule 32	Marginal Trans Cost
Schedule 38	Marginal Trans Cost
Schedule 47	Marginal Trans Cost
Schedule 49	Marginal Trans Cost
Schedule 7	Marginal Trans Cost
Schedule 83-S	Marginal Trans Cost
Schedule 85	Marginal Trans Cost
Schedule 85-P	Marginal Trans Cost
Schedule 89	Marginal Trans Cost
Schedule 89-P	Marginal Trans Cost
Schedule 90-P	Marginal Trans Cost
Schedule 91/95	Marginal Trans Cost
Schedule 92	Marginal Trans Cost
Schedule 38	On/Mid TOU Differential
Schedule 83-S	On/Mid TOU Differential
Schedule 85-P	On/Mid TOU Differential

CMN - Rate Code	RD - RD Inputs
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Schedule 85-S	On/Mid TOU Differential
Schedule 89-P	On/Mid TOU Differential
Schedule 89-S	On/Mid TOU Differential
Schedule 89-T	On/Mid TOU Differential
Schedule 38	Mid/Off TOU Differential
Schedule 83-S	Mid/Off TOU Differential
Schedule 85-P	Mid/Off TOU Differential
Schedule 85-S	Mid/Off TOU Differential
Schedule 89-P	Mid/Off TOU Differential
Schedule 89-S	Mid/Off TOU Differential
Schedule 89-T	Mid/Off TOU Differential

Schedule 15	Peak
Schedule 32	Peak
Schedule 38	Peak
Schedule 47	Peak
Schedule 49	Peak
Schedule 7	Peak
Schedule 83-S	Peak
Schedule 85	Peak
Schedule 89	Peak
Schedule 90-P	Peak
Schedule 91/95	Peak
Schedule 92	Peak

Schedule 15	Luminaires & Poles
Schedule 91/95	Luminaires & Poles
Schedule 15 Com	No. of Lights
Schedule 15 Res	No. of Lights
Schedule 91/95	No. of Lights
Schedule 92	Intersections

[illegible]

CMN - Rate Code	RD - Statistic	Dec - 2025
N/A	12CP	
Schedule 15	12CP	
Schedule 32	12CP	
Schedule 38	12CP	
Schedule 47	12CP	
Schedule 49	12CP	
Schedule 7	12CP	
Schedule 83-S	12CP	
Schedule 85	12CP	
Schedule 89	12CP	
Schedule 90-P	12CP	
Schedule 91/95	12CP	
Schedule 92	12CP	
N/A	12CP Percent	
Schedule 15	12CP Percent	
Schedule 32	12CP Percent	
Schedule 38	12CP Percent	
Schedule 47	12CP Percent	
Schedule 49	12CP Percent	
Schedule 7	12CP Percent	
Schedule 83-S	12CP Percent	
Schedule 85	12CP Percent	
Schedule 89	12CP Percent	
Schedule 90-P	12CP Percent	
Schedule 91/95	12CP Percent	
Schedule 92	12CP Percent	
N/A	4CP	
Schedule 15	4CP	
Schedule 32	4CP	
Schedule 38	4CP	
Schedule 47	4CP	
Schedule 49	4CP	
Schedule 7	4CP	
Schedule 83-S	4CP	
Schedule 85	4CP	
Schedule 89	4CP	
Schedule 90-P	4CP	
Schedule 91/95	4CP	
Schedule 92	4CP	
N/A	4CP Percent	
Schedule 15	4CP Percent	
Schedule 32	4CP Percent	
Schedule 38	4CP Percent	
Schedule 47	4CP Percent	
Schedule 49	4CP Percent	
Schedule 7	4CP Percent	
Schedule 83-S	4CP Percent	
Schedule 85	4CP Percent	
Schedule 89	4CP Percent	
Schedule 90-P	4CP Percent	
Schedule 91/95	4CP Percent	
Schedule 92	4CP Percent	

CMN - Rate Code	RD - Phase	User Specified Scenario List	Design Demand	
Schedule 15 Com	Single Phase	03_Rate Design 2025	2,890.00	2,956.00
Schedule 15 Res	Single Phase	03_Rate Design 2025	404.00	413.00
Schedule 32	Single Phase	03_Rate Design 2025	4.50	4.50
Schedule 32	Three Phase	03_Rate Design 2025	11.10	11.10
Schedule 38	Single Phase	03_Rate Design 2025	42.10	42.10
Schedule 38	Three Phase	03_Rate Design 2025	101.60	101.60
Schedule 47	Single Phase	03_Rate Design 2025	10.40	10.40
Schedule 47	Three Phase	03_Rate Design 2025	15.70	15.70
Schedule 49	Single Phase	03_Rate Design 2025	36.90	36.90
Schedule 49	Three Phase	03_Rate Design 2025	55.70	55.70
Schedule 7	Single Phase	03_Rate Design 2025	4.00	4.00
Schedule 7	Three Phase	03_Rate Design 2025	4.00	4.00
Schedule 83-S	Single Phase	03_Rate Design 2025	55.30	55.30
Schedule 83-S	Three Phase	03_Rate Design 2025	89.40	89.40
Schedule 85	Three Phase	03_Rate Design 2025	565.70	565.70

RD - Votlage	RD - Losses Inputs	Dec - 2025
Primary	External Losses	0.02204
Secondary	External Losses	0.02204
Subtransmission	External Losses	0.02204
Primary	Internal Losses	0.03093
Secondary	Internal Losses	0.04200
Subtransmission	Internal Losses	0.01957
Primary	Peak Losses	0.06240
Secondary	Peak Losses	0.07370
Subtransmission	Peak Losses	0.04420

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 138
Dated September 30, 2024

Request:

Related to PGE's CBIAG, please provide the results of the CBIAG Self Assessments, including April 2023 Baseline, September 2023 Month 6, and May 2024 Month 12, in a protected and anonymous format. CUB notes that ratepayers are paying for the CBIAG, making feedback for PGE from its CBIAG members, relevant to our work as the residential consumer advocate. We are not asking for member identifying information.

Response:

PGE presented full results of the CBIAG Self Assessments in the following presentations, which are available at www.portlandgeneral.com/CBIAG:

- "January 2024": includes results of April 2023 Baseline and September 2023 Month 6 surveys (starting at page 8).
- "July 2024": includes results of May 2024 Month 12 surveys compared to the two prior surveys (starting at page 10).

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 139
Dated September 30, 2024

Request:

On September 17th, 2024, PUC Staff held a UM 2211 workshop for stakeholders to review Staff's initial arrearages and disconnections assessment—which outlined available data for all Oregon IOUs. It was brought to light that PGE does not include those customers actively paying off a Time Payment Arrangement (TPA) in its arrearage data.

- a. Please explain and clarify this seeming difference in its arrearage data reporting compared to other IOUs in Oregon.
- b. Please include how this policy interacts with IQBD arrearage reporting for its Docket No. RE 195, specifically if these data do not include those IQBD customers actively paying off a TPA.

Response:

PGE objects to this request on the basis that the information it seeks new analysis as to other utility programs and is not relevant or reasonably calculated to lead to the discovery of admissible evidence in the current proceeding since CUB is specifically asking about a Staff workshop in a different docket. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. PGE further objects to the assumptions in the question without reference to testimony or exhibits in this docket. It is not PGE's understanding that all Oregon IOUs include TPAs in their arrearage metrics despite the inference in this request.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 140
Dated September 30, 2024

Request:

Please share the number of customers enrolled in a Time Payment Arrangement (TPA) for each month of 2024. Provide these data points for IQBD customers and non- IQBD customers.

Response:

PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 141
Dated September 30, 2024

Request:

Please share the number of customers who successfully completed Time Payment Arrangements (TPAs) in 2024 (even if a customer's TPA began in 2023). Please also share the number of customers who were unsuccessful in completing a TPA in 2024. Provide these data points for IQBD customers and non-IQBD customers.

Response:

PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 142
Dated September 30, 2024

Request:

Please explain the discrepancies in residential customer totals in the Company's monthly data in Docket No. RO 12 and Docket No. RE 188. For example, at least in August 2021, March 2022, April 2022, and December 2022 are off between the two reports by a few thousand. Note that RE 188 reporting has also been reflected in PGE's responses to CUB DR 097 Attachment A.

Response:

PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request.

October 8, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 143
Dated September 30, 2024

Request:

Following up to PGE's response to CUB DR 126(b). *Regarding PGE's re-enrollment process in 2024, the below questions address the number of customers who experienced disconnection after they were removed from IQBD for being over income or for non-response – please provide this information in a labeled chart. Please look at all customers who were flagged for re-enrollment in 2024 and disconnections through the end of September 2024. CUB understands that PGE does not unenroll IQBD customers because they experienced disconnection. CUB is trying to understand if customers experienced a disconnection in the months after they were unenrolled in IQBD from the re-enrollment process, and how many customers experienced this.*

For the group of customers who were enrolled in IQBD and then were unenrolled through the re-enrollment process in the program prior to disconnection:

- (a) how many of the customers in this group were unenrolled in the IQBD program for being over the income threshold during the IQBD re-enrollment process?
- (b) how many of the customers in this group were unenrolled in the IQBD program through a lack of response during the IQBD re-enrollment process?
- (c) how many of the customers in this group then sought to re-enroll in the IQBD program following their reconnection?
- (d) within this group how many were able to then successfully re-enroll in the IQBD program after reconnection?
- (e) within this group how many customers never reconnected to PGE's system after disconnection?

Response:

PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE's IQBD program is a little over two years old so due to the two-year enrollment period, the re-enrollment period for early IQBD participants is still occurring and the requested information is subject to change on a regular basis. Further, the way IQBD enrollment and re-enrollment is currently configured in PGE's billing system does not allow for readily identifiable information

UE 435

PGE's Response to CUB DR 143

October 8, 2024

Page 2

such as what is sought in this data request. It would be unduly burdensome to provide the information requested in the short response time since this type of investigation will require a level of manual processes.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 144
Dated September 30, 2024

Request:

Please explain if and how PGE communicates the annual October 1 changes to Oregon State Median Income (SMI) to its residential customers, particularly its IQBD customers. We would like clarity as well on if customers are made aware that these numbers change annually.

- c. Please explain the extent to which this is communicated, including when and how adjustments are made in PGE's IQBD materials.
- d. Please clarify when PGE begins utilizing these updated SMI numbers in its IQBD program?

Response:

PGE objects to this request on the basis that the information it seeks is not relevant or reasonably calculated to lead to the discovery of admissible evidence in the current proceeding. Without waiving this objection, PGE responds as follows:

- a. In October, information is sent to all residential customers highlighting PGE's IQBD offering. This information reflects the income guidelines effective October 1st of that year. Accounts that are already enrolled in IQBD and qualify for a larger discount as a result of the October 1st SMI updates are move to a higher discount tier during the first week of October and sent a letter or email (based on preference, English/Spanish) to make them aware of the increase in their discount.
- b. PGE's enrollment process is automated and the new income guidelines provided by OHCS are uploaded in advance and become effective October 1st. Any updates or new enrollments on or after October 1st would be based on the updated income guidelines.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 145
Dated September 30, 2024

Request:

How many customers who were unenrolled via PEV or re-enrollment in 2024, due to being over income, reported income that would qualify them for the IQBD under new 2025 Oregon State Median Income numbers?

Response:

PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 146
Dated September 30, 2024

Request:

Is PGE planning to make a GRC filing in 2025? If so, what percent increase does PGE predict it will ask to raise rates? If so, what does PGE believe will be the driver of that rate increase?

Response:

PGE objects to this request on the basis that the information it seeks is not relevant or reasonably calculated to lead to the discovery of admissible evidence in the current proceeding and calls for speculation. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 147
Dated September 30, 2024

Request:

PGE Exhibit 902/Macfarlane-Pleasant/1 shows forecasted loads for 2025. This is similar to UE 294 -- PGE Exhibit 1402/Cody/1 which shows forecasted loads for 2016. (UE 294/1402/1 -- attached)

- a. Does the column label "MWH Sales" reflect the weather normalized load forecasts for 2025 and 2016, respectively?
- b. Do these show that overall weather-normalized PGE's Cost of Service forecasted load has grown from 17,842,764 MWh to 19,958,040 MWh?
- c. Do these show that Schedule 90 weather-normalized forecasted load has grown from 1,498,007 MWh to 3,685,313?

Response:

- a. Yes.
- b. Yes.
- c. Yes.

**TABLE 1
PORTLAND GENERAL ELECTRIC
ESTIMATED EFFECT ON CONSUMERS' TOTAL ELECTRIC BILLS
2016**

CATEGORY	RATE SCHEDULE	CUSTOMERS	MWH SALES	TOTAL ELECTRIC BILLS		Change	
				CURRENT	PROPOSED		
				w/ Sch. 122a, 125	w/ Sch. 122a, 125	AMOUNT	PCT.
Residential	7	748,413	7,620,805	\$913,144,457	\$936,829,142	\$23,684,685	2.6%
Employee Discount				(\$957,297)	(\$980,747)	(\$23,450)	
Subtotal				\$912,187,160	\$935,848,395	\$23,661,235	2.6%
Outdoor Area Lighting	15	0	16,308	\$3,628,230	\$3,457,828	(\$170,401)	-4.7%
General Service <30 kW	32	90,384	1,599,950	\$175,073,183	\$181,832,054	\$6,758,871	3.9%
Opt. Time-of-Day G.S. >30 kW	38	548	39,036	\$5,250,625	\$5,845,141	\$594,515	11.3%
Irrig. & Drain. Pump. < 30 kW	47	3,152	20,845	\$3,692,050	\$3,702,753	\$10,704	0.3%
Irrig. & Drain. Pump. > 30 kW	49	1,349	62,677	\$7,829,234	\$8,804,296	\$975,063	12.5%
General Service 31-200 kW	83	11,029	2,795,179	\$248,442,316	\$256,033,100	\$7,590,784	3.1%
General Service 201-4,000 kW							
Secondary	85-S	1,263	2,464,564	\$194,212,818	\$196,271,320	\$2,058,502	1.1%
Primary	85-P	192	713,162	\$53,271,439	\$53,827,595	\$556,156	1.0%
Schedule 89 > 4 MW							
Primary	89-P	18	851,370	\$55,962,776	\$56,187,831	\$225,055	0.4%
Subtransmission	89-T	5	83,072	\$7,061,664	\$6,718,472	(\$343,192)	-4.9%
Schedule 90	90-P	4	1,498,007	\$91,891,081	\$92,359,227	\$468,147	0.5%
Street & Highway Lighting	91/95	205	74,544	\$14,054,838	\$13,597,939	(\$456,900)	-3.3%
Traffic Signals	92	17	3,243	\$250,708	\$259,009	\$8,302	3.3%
COS TOTALS		856,579	17,842,764	\$1,772,808,122	\$1,814,744,962	\$41,936,841	2.4%
Direct Access Service 201-4,000 kW							
Secondary	485-S	159	438,339	\$8,945,327	\$8,401,715	(\$543,613)	
Primary	485-P	44	273,576	\$5,786,884	\$5,563,536	(\$223,348)	
Direct Access Service > 4 MW							
Secondary	489-S	1	14,393	\$459,617	\$348,435	(\$111,182)	
Primary	489-P	9	533,149	\$6,903,263	\$4,847,336	(\$2,055,927)	
Subtransmission	489-T	3	305,980	\$3,014,567	\$2,555,084	(\$459,483)	
DIRECT ACCESS TOTALS		216	1,565,436	\$25,109,658	\$21,716,106	(\$3,393,553)	
COS AND DA CYCLE TOTALS		856,795	19,408,200	\$1,797,917,780	\$1,836,461,068	\$38,543,288	2.1%

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 148
Dated September 30, 2024

Request:

If these forecasts from UE 294 and UE 435 do not reflect weather normalized load growth on the system, please provide the following:

- a. The weather normalized cost of service load growth in MWh that has occurred between 2016 and expected load in 2025?
- b. The weather normalized load growth in MWh for Schedule 90 that has occurred between 2016 and expected load in 2025?
- c. The weather normalized load growth in MWh for Schedule 89 that has occurred between 2016 and expected load in 2025?

Response:

- a. Actual 2016 cycle cost of service load was 16,937,864 MWh. Weather adjusted cost of service load in 2016 was 17,413,369 MWh. Forecasted 2025 cost of service load is 19,958,040 MWh.
- b. Actual 2016 cycle load for Schedule 90 was 1,478,096 MWh. PGE does not weather normalize Schedule 90 loads. Forecasted 2025 load for schedule 90 is 3,685,313 MWh.
- c. Actual 2016 cycle load for Schedule 89 was 723,425 MWh. Weather adjusted cost of service load for Schedule 89 was 728,500. Forecasted 2025 load for schedule 89 is 1,057,276 MWh.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 149
Dated September 30, 2024

Request:

Does PGE take any actions to identify the costs of load growth, including the cost of energy, capacity, and transmission required to serve that load growth, and assign those costs to customer classes that cause the load growth? If so, please explain how the cost of load growth, including the cost of energy, capacity and transmission is assigned to customer classes that show load growth.

Response:

The Generation Marginal Cost Study calculates the marginal cost of capacity and energy. The marginal cost of transmission is included in the calculation of the marginal cost of energy.

PGE follows marginal cost principles as outlined in NARUC's Electric Utility Cost Allocation Manual¹ and does not assign the costs of load growth by customer class in the generation marginal cost study. PGE allocates costs by customer class based on the 2025 Load Forecast. The 2025 Load Forecast is a single year forecast and does not provide information on which customer class is driving load growth.

¹ NARUC-Electric Utility Cost Allocation Manual, January 1992 edition.
<https://maxxwww.naruc.org/forms/store/ProductFormPublic/electric-utility-cost-allocation-manual-january-1992-edition>

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 150
Dated September 30, 2024

Request:

UE 435 / PGE / 500 Felton / 22 discusses the relationship between the Evergreen Substation and load growth in the Hillsboro area. Is PGE proposing to allocate the costs of the Evergreen Substation to loads that have recently been added to its system in the Hillsboro area?

Response:

No. PGE does not allocate specific costs based on geographic area to specific loads within a specific area or region.

Instead, PGE follows marginal cost principles as outlined in NARUC's Electric Utility Cost Allocation Manual¹ to calculate the incremental or marginal unit cost of service for various categories (e.g., energy, distribution substations, feeders, billing). These unit costs, expressed as costs per customer, costs per kilowatt (kW) of demand, or costs per kilowatt hour (kWh) and the test year Load Forecast are then used to allocate the functional revenue requirements.

¹ NARUC-Electric Utility Cost Allocation Manual, January 1992 edition.
<https://maxxwww.naruc.org/forms/store/ProductFormPublic/electric-utility-cost-allocation-manual-january-1992-edition>

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 151
Dated September 30, 2024

Request:

See UE 435 / PGE / 2000 Macfarlane - Pleasant / 18, PGE's Load Following Credit is based on "the consistent nature of Schedule 90's load" "which means that PGE does not need to operate a Peaker plant or buy energy in the short-term market to serve this customer's load. The load-following credit recognizes this benefit."

- a. While Schedule 90 has consistent load within the year, Schedule 90 also contains a risk of large deviations of load from new Schedule 90 load or from current Schedule 90 load leaving the system. Does PGE's Schedule 90 pricing recognize this risk?
- b. If a Schedule 90 facility stopped taking service, how would this affect PGE's costs and revenues?
- c. If a new Schedule 90 facility requests service from PGE, how does this affect PGE's costs and revenues?
- d. Intel has announced plans for significant layoffs. Does PGE believe that there is a risk that Intel could reduce its consistent load on PGE's system? Has PGE taken actions to manage this risk?
- e. If Intel reduces its consistent load, how would that affect PGE's purchases and sales from the short-term market?
- f. Schedule 90 accounts for all load growth on PGE's system over the last 10 years. Has PGE absorbed this increase in load without utilization of Peaker plants or energy from the short-term market?
- g. How far in advance do Schedule 90 customers forecast their load growth with PGE? Please provide documentation of Schedule 90 forecast load growth.

Response:

PGE objects to this request on the basis that the question calls for speculation in that these requests assume facts not in evidence and are hypotheticals not based on any existing use of the load

following credit in this docket. Furthermore, this request asks for information related to specific customer, non-public information. Without waiving this objection PGE responds as follows: CUB's questions about Schedule 90's long-term load growth and a specific Schedule 90 customer do not appear to address PGE's testimony regarding the Load Following Credit or the benefit that a customer with a significant high load factor brings to the rest of PGE's system. CUB's questions are related to long-term yearly load changes, versus serving load reliably within a given hour or sub hour.

- a. Any risk of large deviations of load from new Schedule 90 load or from current Schedule 90 load leaving the system would be reflected in PGE's test year load forecast, which billing determinants are created from and is used in PGE's rate spread model to create pricing. For more information on how PGE factors in risk from economic conditions and forecast uncertainty when creating the load forecast, please see PGE Exhibit 700.
- b. If a Schedule 90 facility stopped taking service from PGE, revenues would decline in the short-term, which would likely be offset by lower variable costs that are driven by load. However, the next time PGE files for a rate review, PGE would re-run its marginal cost-of service studies, and PGE would allocate costs to the remaining customers in other rate classes, such as the residential class, making this change mostly revenue neutral. In addition, the load following credit is per kWh used and does not change with increases or decreases to Schedule 90 load.
- c. If a new Schedule 90 facility requested service from PGE there would be some associated increases in cost due to the new load, as well as increased associated revenue due to the new load on the system. Fixed costs would be spread across a larger number of customers, which is beneficial to existing customers. In addition, the load following credit is per kWh used and does not change with increases or decreases to Schedule 90 load.
- d. PGE does not comment on conversations with customers, nor will PGE speculate about the status of a particular customer. In addition, the load following credit is per kWh used and does not change with increases or decreases to Schedule 90 load.
- e. PGE objects to this request on the basis that it calls for speculation in that it is unclear what is meant by "short-term market." Without waiving this objection PGE responds as follows: PGE's Power Operations does not plan for specific customer loads and operates to ensure load serving reliability at the aggregate level. For within the month time horizons, PGE Power Operations considers historical loads in PGE's Balancing Authority Area (BAA) to forecast its load to serve. Assuming that this data request is referring to impacts to day-ahead and real-time operations, should the historical BAA load trends reflect a decrease and assuming every other variable stays unchanged, the day-ahead and real-time operations activities may be impacted. In addition, the load following credit is per kWh used and does not change with increases or decreases to Schedule 90 load.
- f. Schedule 90 does not account for all load growth across PGE's system in the last 10 years; load has fluctuated in the various rate classes over that period of time. PGE does not look at specific customers when purchasing power. Rather, total load is considered and because load has fluctuated across all customers, the use of peaker plants or energy from the short-term market cannot be attributed to one rate schedule.
- g. PGE meets regularly with large customers to discuss load growth and update our planning, but these conversations and forecasted load growth are confidential and subject to NDAs executed between PGE and these customers.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 152
Dated September 30, 2024

Request:

How much of PGE's current 5-year capital investment plans are associated with the CHIPS manufacturing plant or other expected Intel expansions?

Response:

PGE objects to this request on the basis that this request asks for information related to a specific customer, non-public information and is not reasonably calculated to lead to the discovery of admissible evidence in this docket.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 153
Dated October 2, 2024

Request:

Refer to /PGE / 2200 Liddle - Kliever / 26. PGE states that rate caps “would limit the available revenue needed to maintain and upgrade the system, potentially compromising service quality and reliability.” Please provide documentation the company relied on to support this statement as it would apply to this proceeding.

Response:

When a rate cap is in a binding condition, it would limit or delay cost recovery of prudently incurred costs, lowering revenue. Cash flow from operations, of which revenue is a main contributor, is one way operating and investment activities are funded. Cash flow from operations is also an input to calculating rating agency ratio metrics, which influences the utility credit rating and cost of debt. Higher cost of debt, and the potential inability to raise capital (debt or equity) efficiently to make investments on customers' behalf could therefore reduce ability to make needed maintenance and upgrades.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 154
Dated October 2, 2024

Request:

Refer to /PGE / 2200 Liddle - Kliever / 26. PGE states “Artificial caps on rates can distort market signals leading to lower priority on energy efficiency.” Please provide documentation the company relied on to support this statement as it would apply to this proceeding.

Response:

In the referenced statement, “artificial caps on rates can distort market signals” is based on the logical conclusion that rate caps change price signals from what they would have otherwise been if not subject to a cap, which are lower prices from the otherwise rate change. Lower retail prices reduce the cost effectiveness of energy efficiency, all else equal.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 155
Dated October 2, 2024

Request:

Refer to /PGE / 2200 Liddle - Kliever / 26. PGE states “Rate caps could delay necessary investments in infrastructure and maintenance, leading to higher costs in the future.” Please provide documentation the company relied on to support this statement as it would apply to this proceeding.

Response:

When a rate cap is in a binding condition, it would limit or delay cost recovery of prudently incurred costs, lowering revenue. Cash flow from operations, of which revenue is a main contributor, is one way operating and investment activities are funded. Cash flow from operations is also an input to calculating rating agency ratio metrics, which influences the utility credit rating and cost of debt. Higher cost of debt, and the potential inability to raise capital (debt or equity) efficiently to make investments on customers' behalf could therefore reduce ability to make needed maintenance and upgrades. The investments PGE is making are prudent and necessary to serve customers safely and reliably, and consistent with legislative and regulatory obligations. Any limit to the ability to make these investments can impact the outcomes we strive to deliver for customers.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 156
Dated October 2, 2024

Request:

Refer to /PGE / 2200 Liddle - Kliever / 26. PGE states “To the extent, as proposed by Staff, rate spread is used to address a single customer class rate cap, a rate cap could be effectuated, but again challenges cost causation principles, increasing uncertainty for non-residential customer prices.”

- a. Please clarify the “cost causation principles” Staff’s proposal challenges.
- b. Please clarify the uncertainty this creates for non-residential customer prices.
- c. Please provide supporting documentation for these statements.

Response:

- a. As understood by PGE, Staff’s proposal would cap one customer class rate increase (residential) and shift the costs to other customer classes (non-residential). The rate design principle challenged by this approach is that customer rates will be materially divorced from the cost causation of the customer class and their share of system costs.
- b. Non-residential customers would face uncertainty under Staff’s proposed use of rate spread for effectuating a rate cap, as described in a above, as the prices from this proceeding would reflect a cross subsidization of the residential customer class. Further, these customers would face uncertainty whether Staff would propose a cap in future proceedings and the amount of that cap further distorting non-residential customers’ share of system costs. Staff has not indicated how the three percent residential cap was set so this arbitrary amount leads to uncertainty in how rates are ultimately spread.
- c. These statements are the logical conclusion from applying cost of service and rate spread principles to a proposed increase that exceeds 3% in PGE’s surrebuttal testimony. The residential customer class current represents over 50% of PGE’s revenues. A 3% rate cap for the residential rate class means a larger percentage increase is given to the nonresidential customer classes than the percentage decrease that is taken from the residential customer class.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 157
Dated October 2, 2024

Request:

Refer to /PGE / 2200 Liddle - Kliever / 26. PGE states that “CUB does not directly address the financial impacts that could occur from adoption of a rate cap in the state of Oregon.”

- a. Please clarify the specific financial impacts in this proceeding that could occur from adoption of a rate cap.
- b. Does the “financial impact” include the impact on customers?
- c. Has PGE addressed the financial impact of large winter rate increases on residential customers?
- d. Please provide documentation the company relied on to support this statement.

Response:

- a. If a rate cap mechanism is imposed in Oregon, while not a comprehensive list, the following financial impacts could possibly occur:
 - PGE anticipates that rating agencies would view a decision to implement a rate cap unfavorably influencing their outlook on PGE (or Oregon utilities subject to the cap) due to the limit on cost recovery for prudently incurred costs and change in the business model and regulatory climate influencing utility credit ratings, in turn increasing the utility cost of debt.
 - Shareholders and analysts may view the decision to implement a rate cap unfavorably influencing their outlook on PGE (or Oregon utilities subject to the cap) due to the limit on cost recovery for prudently incurred costs and change in the business model and regulatory climate, in turn reducing valuation and stock price, impacting PGE's access to capital markets and cost/ability to invest to meet customers' needs.
 - A rate cap would lead to the further leveraging of the utility balance sheet through the deferral of rate increases, affecting credit rating ratio metrics, which could increase the cost of debt.
- b. All of the financial impacts are direct impacts on customers through the cost of debt, and the (in)ability to raise capital (debt or equity) efficiently to make investments on customers' behalf.

- c. PGE objects to the wording of the question in that it assumes facts not in the record and is not related to the PGE testimony cited in CUB's request. The PGE testimony referenced points out that CUB did not directly address the financial impacts of its rate cap proposal. Without waiving said objection, PGE responds as follows:

The ways in which PGE has addressed winter rate increases in business practices and in this proceeding specifically are:

1. Through the offering of Equal Pay to our residential customers, customers can smooth rate increases as well as seasonal variation in bills due to usage.
2. The supplemental for wildfire Schedule 151 was moved away from January 1 to non-winter months.
3. Further in this rate review proceeding, PGE offered "[a]s an alternative to a January 1, 2025 rate effective date, PGE is open to the Commission allowing PGE the full recovery of its approved 2025 test year revenue requirement to be spread from April 1, 2025 to December 31, 2025. This will result in a decrease in base rates to the annualized 2025 revenue requirement come January 1, 2026."

- d. PGE/2200, Liddle-Kliever/22.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 158
Dated October 2, 2024

Request:

Refer to PGE / 2200 Liddle - Kliever / 32. PGE states that capital spending “targets are carefully set based on several key factors” including “customer demand and load growth.”

- a. Please list the capital spend targets based on Schedule 90 customer demand and load growth.
- b. What is the total data center load in Washington County?
- c. What is the total Schedule 90 load in Washington County?
- d. What are the capital spend targets regarding the CHIPs act?

Response:

- a. PGE objects as this request requires new analysis, PGE does not isolate capital spending targets by customer pricing schedules.
- b. PGE objects as this request requires new analysis, does not forecast load for every customer on an individual basis. Notwithstanding this objection, the aggregation of data center load for customers with individual customer forecasts in Washington county in the 2025 test year is 2,241,826 MWh.
- c. Total Schedule 90 load in Washington County forecasted for the 2025 test year is 3,640,667.
- d. See PGE’s response to CUB Data Request No. 152.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 159
Dated October 2, 2024

Request:

Refer to PGE / 2100 Ferchland - Liddle /8.

- a. Please provide the rate design for equal pay.
- b. What is the average amount someone pays per month that is on equal pay?
- c. When PGE increases its rates, how does it adjust the bill of someone on equal pay?
- d. What percentage of PGE's IQBD program customers are on equal pay?
- e. What percentage of PGE's customers sign up for equal pay each year?
- f. Please provide any workpapers related to equal pay rate design.

Response:

- a. The Equal Pay calculation takes the account's average monthly use for the past 12 months and multiplies it by current rates to determine the monthly Equal Pay amount. Accounts on Equal Pay are monitored every 4 months. During the accounts 4- and 8-month review, the equal pay amount will increase or decrease if the percentage of change is equal to or greater than 14%. Annually, a new equal pay amount will be calculated for equal pay accounts. At the time of the annual review, the customer will receive a catch-up bill. Any variance accrued throughout the year plus the new equal pay amount will become due on the catch-up bill.
- b. Residential bills on equal pay or levelized pay, and ending in September 2024 were charged an average of \$193.
- c. PGE does not update all equal pay amounts during the month a rate change occurs. Instead, Equal Pay accounts go through the normal review process every 4 months. At the time of account review, the calculation utilizes the new rate to determine if the equal pay amount needs to be adjusted.
- d. PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request.

UE 435

PGE's Response to CUB DR 159

October 7, 2024

Page 2

- e. PGE objects to this request on the basis that it unduly burdensome and calls for new analysis. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request.
- f. See part a for a methodological description. PGE does not have relevant workpapers.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 160
Dated October 2, 2024

Request:

Refer to UE 435 / PGE / 2200 Liddle - Kliever / 29. What active workstream in UM 2211 does PGE believe intervenors should address rate shock mitigation through?

Response:

PGE objects to this request in so far as it mischaracterizes PGE's testimony. PGE did not specifically suggest that "rate shock mitigation" should be addressed through UM 2211. UM 2211 is an appropriate venue for consideration of mitigations to customer energy burdens and related issues (which PGE referred to in Exhibit 2200 as "affordability mitigants").

Without waiving said objection, PGE respond as follows:

Phase 2 of UM 2211 presents at least two active workstreams that offer Parties opportunities to make recommendations, the Arrearage and Disconnection Workstream and the Programs Workstream. Both have active workshop and stakeholder input processes in progress and are scheduled to put forward Staff recommendations by November.

October 8, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 161
Dated October 2, 2024

Request:

Please refer to PGE / 2300 Sheeran – Latu - Newman / 4. What is the trigger dollar amount that PGE would disconnect a residential ratepayer for each year from 2009 to 2024?

Response:

PGE's practice is to initiate residential collections once the past due balance exceeds \$100 and only balances exceeding \$200 are eligible for disconnection. This amount was increased from \$100 to \$200 in 2021. PGE's disconnection practice is based on Division 21 rules as documented in Rule H of our tariff. PGE provided details from CUB DR 64 and CUB DR 104.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 162
Dated October 2, 2024

Request:

Please refer to PGE / 2100 Ferchland - Liddle / 2.

- a. Please clarify whether the column “Current-Residential Only” applies to the avg. residential customer (who is not in the bill discount program) or the average class change which includes the subset who are in the bill discount program.
- b. What is the average price change for January 1, 2025, for Schedule 90 customers?
- c. What is the average price change include of the March 1, 2025, Clearwater Wind Facility change and the rate increase of the Seaside battery energy storage project?
- d. Is the decrease of 1% for Clearwater and the increase of 1.3% for BESS reflective of the rate change for all customers or only that for residential customers?

Response:

- a. The “Current Residential Only” applies to the average residential rate class change, inclusive of the subset who are in the bill discount program.
- b. The forecast average price change on January 1, 2025 for Schedule 90 customers is 4.5%.
- c. The table below shows the forecast overall average price change PGE anticipates customers will experience in 2025 upon inclusion of the deferred portion of the Clearwater Wind Facility and the Seaside Battery Energy Storage System into customer prices.

	A	B	C
	UE 435 Revenue Requirement w/ Constable 1/1/2025	Clearwater Deferred Amt Change	Seaside Battery Change
Schedule			
COS & DA Overall	8.6%	7.5%	8.8%
Schedule 7 Residential	8.4%	7.5%	8.7%

*Clearwater customer benefit assumes a 12-month annual amortization

- d. The decrease of 1% for the Clearwater Wind facility and the increase of 1.3% for the Seaside battery project is the rate change for all customers.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 163
Dated October 2, 2024

Request:

What are the test years used for the APCU and PCAM? Do they align with the GRC? Do the load forecasts of the APCU and PCAM align with the GRC?

Response:

PGE objects to this request on the basis that it is vague. Specifically, the PCAM is a look-back mechanism based on actual results and does not use forecast amounts. Notwithstanding its objection, PGE responds as follows:

PGE's current Annual Update Tariff (UE 436) uses a 2025 test year and uses the same load forecast as UE 435. PGE's PCAM (UE 441) reflects 2023 actual results.

October 8, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 164
Dated October 2, 2024

Request:

Please refer to PGE / 2300 Sheeran – Latu – Newman/3. Please clarify whether PGE always tracked and reported arrearages in the same way (i.e. to exclude active TPA customers), and if not please note what change was made to this tracking and reporting and when this change was made. Please provide any related workpapers.

Response:

PGE objects to this request on the basis that it overly broad and unduly burdensome and calls for new analysis to review and evaluate all prior arrearage reporting. PGE agreed to a four business-day turnaround on data requests at this stage of discovery with the understanding data requests would be directed to surrebuttal testimony offered by PGE. CUB sent 30 new data requests, many with multiple parts and many unrelated to PGE's surrebuttal, with a four day-business turnaround which compounds the unduly burdensome nature of the request. This objection notwithstanding, PGE responds as follows.

PGE is unaware of a historical shift from reporting arrears inclusive of active TPAs to one that is exclusive and can say it has been reported exclusive of TPAs since implementation of our billing system in 2018.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 165
Dated October 2, 2024

Request:

Please refer to PGE / 2100 Ferchland - Liddle / 11. PGE lists six “key areas” including “innovative rate design that explores rate structures that reflect true costs while considering affordability impacts and make sure that the right customer classes are contributing to the appropriate portion of the utility’s revenue need. Work in this area is already underway and should continue.” Please provide an example of rate structure that ensures “the right customer classes are contributing to the appropriate portion of the utility’s revenue need.”

- a. When considering the costs industrial load growth and socialization of those costs, how is this “innovative rate design” placing the costs on those customers causing that growth?
- b. When will PGE propose this “innovative rate design” that requires the classes causing the load growth to pay for the load growth?

Response:

- a. PGE objects to this question on the basis that the question makes assumptions beyond PGE’s written testimony. Notwithstanding this objection, PGE responds as follows:

To the extent the costs directly associated with load growth are not offset by higher billing determinants under traditional rate design, other mechanisms such as Customer Aid in Construction and Minimum Load Agreements, along with future proposals are rate design options to match costs with load growth that causes the costs.

- b. PGE objects to this question on the basis that the question makes assumptions beyond PGE’s written testimony. Notwithstanding this object, PGE responds as follows:

PGE is actively engaging in Docket UE 430 regarding new large load connection costs and plans to file a proposal by the end of January.

October 7, 2024

To: Sarah Wochele
Oregon Citizens' Utility Board

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to CUB Data Request 166
Dated October 2, 2024

Request:

Please refer to Exhibit 902 and workpaper titled "2025 Ratespread - Sep 2024 Surrebuttal" Why did the number of Schedule 90 customers drop from seven customers, noted in the PGE's opening testimony, to now two customers in surrebuttal?

Response:

In the workpaper titled "2025 Ratespread - Sep 2024 Surrebuttal" the number of Schedule 90 customers displayed on the "Table tabs" in the workbook is incorrect due to an excel formula that was not updated to capture the correct Schedule 90 customer count. There are eight Schedule 90 customers.

This oversight did not affect any of the rate impact information represented for Schedule 90, since the calculations are performed on other tabs within the workbook and the "Table tabs" merely summarize these calculations.

October 7, 2024

To: Tonia Moro
Verde

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to Verde Data Request 002
Dated October 2, 2024

Request:

The Company agrees with the findings presented in the Energy Burden Assessment (EBA) and presentation materials summarizing those findings, correct? If not, please identify which findings the Company disputes and why. Also, please provide any documents substantiating or supporting the Company's conclusion or decision disputing the finding.

Response:

PGE continues to review EBA data and outputs, but at this point does not disagree or dispute any of the quantitative findings resulting from the EBA or the "main takeaways" summarized on page 65 of the EBA filing. PGE is making best efforts to consider the EBA's recommendations and prioritize next steps, as discussed in PGE's "Update to EBA Recommendations," filed to UM 2211 on October 4, 2024.

October 7, 2024

To: Tonia Moro
Verde

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to Verde Data Request 007
Dated October 2, 2024

Request:

Why did the Company not revise its IQBD program to increase discount to 90% and 70% for the 0-15% SMI tiers when it issued Advice Number 24-19?

Response:

PGE explained its decision not to update IQBD discount levels in its “Update to EBA Recommendations” filed in UM 2211 on October 4, 2024.

PGE’s approach reflects the view, informed by the EBA, that the current IQBD design appropriately balances meaningful assistance to energy burdened customers, streamlined customer enrollment, and a manageable cost burden to PGE’s customer base, and that the highest priority over the coming year is in improving customer participation rates in IQBD as well as other assistance and bill reduction programs.

October 7, 2024

To: Tonia Moro
Verde

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to Verde Data Request 013
Dated October 2, 2024

Request:

Why has the Company not agreed to delay the annual rate increase to April to avoid bill shock from cold weather and rate increases?

Response:

PGE has made an alternative proposal for an April rate effective date. See PGE Exhibit 2100, page 8, and PGE Exhibit 2200, Section III, Subsection B. For additional information regarding PGE's position on this topic see PGE Exhibit 1000, page 8, and PGE Exhibit 1100, Section III, Subsection C.

October 7, 2024

To: Tonia Moro
Verde

From: Jaki Ferchland
Senior Manager, Revenue Requirement

Portland General Electric Company
UE 435
PGE Response to Verde Data Request 014
Dated October 2, 2024

Request:

Why has the Company not addressed the suggestion to reduce fixed charges to better reflect the ability to pay?

Response:

PGE made an alternative proposal for the basic charge of IQBD enrollees. See PGE Exhibit 3100, page 9, which discusses PGE's offer to apply a fixed credit to IQBD customers to offset an increase to the residential basic charge if approved.



Portland General Electric

121 SW Salmon Street • Portland, OR 97204
portlandgeneral.com

June 28, 2024

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

RE: UE 416, PGE 2024 Rate Review, 2024 Energy Burden Assessment

As part of the Sixth Partial Stipulation to Portland General Electric Company's (PGE) 2024 rate review (UE 416), OPUC Order No. 23-386 directed PGE to conduct a low income needs assessment (LINA) by June 30, 2024. PGE hereby submits the results of the Company's energy burden assessment pursuant to that order, noting that an energy burden assessment is synonymous with a LINA.

PGE contracted with Empower Dataworks to conduct an energy burden assessment in early 2024. Empower Dataworks is a regional consulting firm specializing in energy equity analytics and has conducted similar assessments for numerous utilities throughout the Pacific Northwest.

PGE submits the results prepared by Empower Dataworks. Findings were presented to IQBD external stakeholders on June 25, 2024 and to PGE's Community Benefits & Impacts Advisory Group on June 26, 2024. Consistent with the terms of the Sixth Partial Settlement, PGE is considering next steps and will submit an updated program filing by September 27, 2024.

Please direct questions to Ashleigh Keene at ashleigh.keene@pgn.com. Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com.

Sincerely,

\s\ Shay LaBray

Shay LaBray
Senior Director, Regulatory Affairs & Strategy

Enclosure

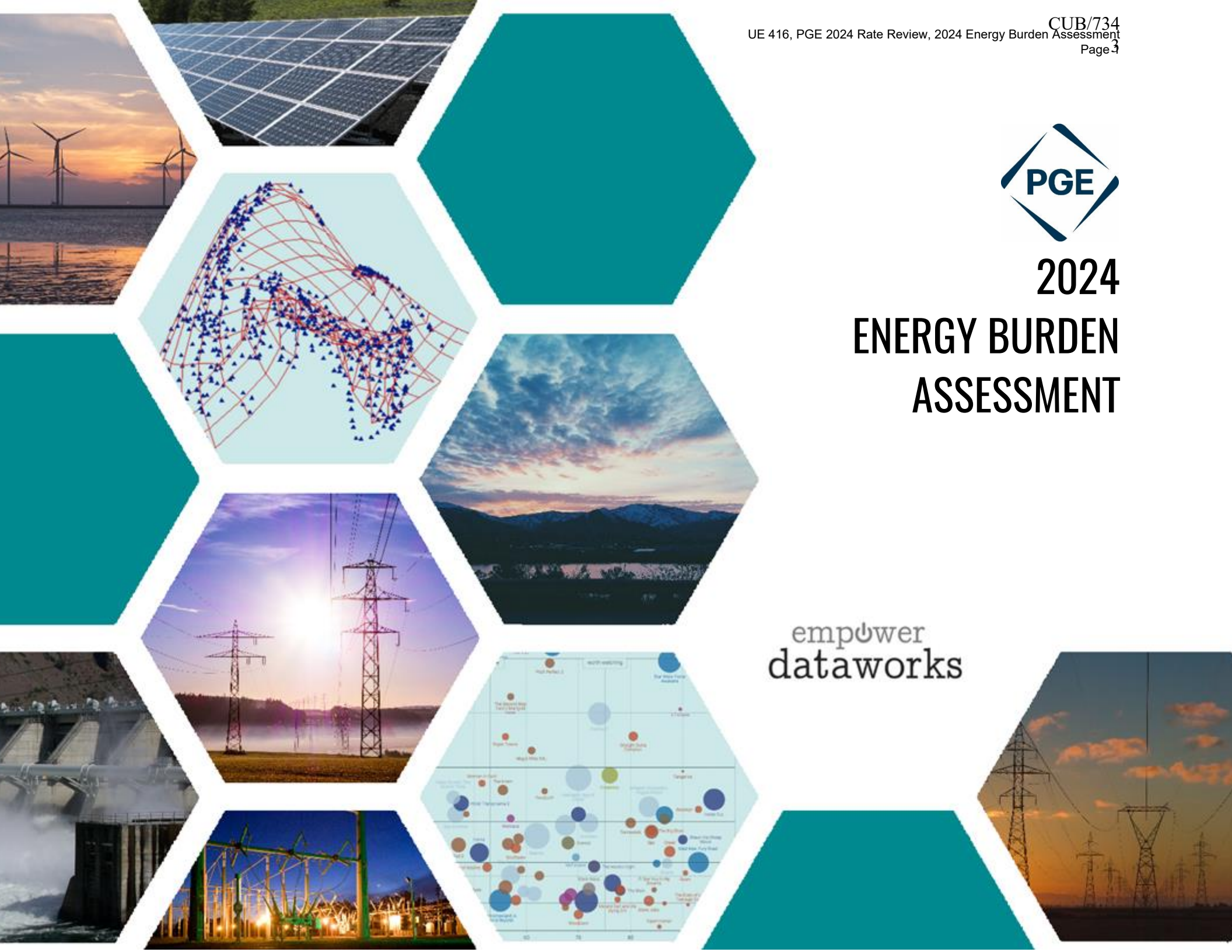
UE 416, PGE 2024 Rate Review
Results from PGE's 2024 Energy Burden Assessment

Attachment



2024 ENERGY BURDEN ASSESSMENT

empower
dataworks



2024 ENERGY BURDEN ASSESSMENT

JUNE 2024

PREPARED FOR

Rachel DeRosia and Jennifer Latu

Portland General Electric



PREPARED BY

Hassan Shaban, Ph.D.

Empower Dataworks

empower
dataworks

INTRODUCTION

This brief report presents the methodology and findings from Portland General Electric (PGE)’s 2024 Oregon energy burden assessment.

CONTENTS

INTRODUCTION	3
CONTENTS	3
1. METHODOLOGY	4
1.1 GENERAL APPROACH	5
1.2 DATA SOURCES	6
1.3 FINAL ATTRIBUTES AND METRICS	8
1.4 SOURCES OF UNCERTAINTY	12
2. PGE’S ENERGY BURDEN BASELINE	13
2.1 PGE RESIDENTIAL SECTOR PROFILE	14
2.2 ENERGY BURDEN	16
2.3 ENERGY EFFICIENCY VS DIRECT ASSISTANCE	19
3. KEY CUSTOMER SEGMENTS	21
3.1 OVERVIEW	22
3.2 POWELLHURST-GILBERT	23
3.3 ESTACADA AND ITS OUTSKIRTS	24
3.4 GERVAIS AREA	25

1. METHODOLOGY

1.1 GENERAL APPROACH

This energy burden assessment relies on collecting customer-level data, modeling missing attributes, then aggregating key metrics by geographic, demographic or building variables for analysis. Prior to this project, Empower Dataworks performed energy burden assessments in over 15 utility service areas (both gas and electric) using this approach. The methodology is also updated occasionally to align with energy assistance best practices. The energy burden assessment results are typically used to guide program design, evaluate the performance of energy assistance programs and develop targeted marketing and outreach strategies.

The customer data (including estimated household income) comes from various sources as described in the rest of Section 1. Some demographic attributes were modeled or inferred using statistical techniques due to lack of primary data in the Customer Information System (CIS) or other sources. American Community Survey data was mainly used to sanity check aggregate statistics of customer-level data at the census tract level.

Three types of metrics were calculated:

- Metrics related to energy burden based on demographic and geographic characteristics
- Participation and funding in Energy Assistance Programs
- Customer energy use characteristics

The final dataset and results were provided to PGE staff.

1.2 DATA SOURCES

The data sources leveraged for the analysis are described in this section.

DATA PROVIDED BY PGE

PGE provided various customer-level datasets to Empower Dataworks to enable this analysis. Data sharing was governed by a confidentiality agreement between Empower Dataworks and PGE. Empower Dataworks was also subject to various cybersecurity requirements to safeguard customer data.

Customer Information System (CIS): This data included monthly electricity bills for 24 months between January 2022 and December 2023, account numbers and service addresses. A separate data extract included the dates and customer accounts that received late payment and disconnection notices, allowing us to calculate the on-time payment rate for different customer segments.

Direct Assistance Program Data: We received a list of participating accounts in the Income Qualified Bill Discount (IQBD), LIHEAP and OEAP between January

2022 and March 2024, along with discount amounts and dates. This allowed us to calculate the total assistance funding at the household level.

Demographic Data: PGE provided data from a third-party data compiler that aggregates data from a variety of sources. This data was mapped to the CIS dataset using customer addresses and included estimated household income, and homeownership status for most residential households. Demographic attributes for some customers were modeled due to lack of primary data in CIS or other sources. The modeling approaches are described in the next section.

DATA OBTAINED FROM OTHER SOURCES

Geocoding: We mapped the latitude/longitude of customer premises to census tracts, block groups and blocks in order to pull additional aggregate statistics.

County Assessor Data: We obtained publicly available assessor data from seven counties in PGE’s service area. The assessor data included appraised values for homes, square footage, building year built, building types (residential, mobile homes, commercial and industrial), number of buildings on a land parcel, and other minor data points that were useful for performing general QA.

The addresses in this dataset were standardized to US Postal Service format, then matched with addresses in the CIS data. Some addresses existed in the CIS data but not in the assessor data (typically happens when multiple buildings occupy the same land parcel).

American Community Survey (ACS): ACS data (2017-22 5 year averages) was primarily used for QA to ensure that aggregate counts for various demographic attributes match the expected distributions from ACS.

1.3 FINAL ATTRIBUTES AND METRICS

The calculation methods for the metrics and attributes used in this report are described in this section. For all attributes, we also captured metadata related to the source of data and the confidence in the value (for example, data from primary sources has a high confidence, while modeled data has lower confidence). All of the data is robust for aggregate analysis, while high confidence data is better suited to customer-level marketing and program targeting.

Household Income: Estimated household incomes were obtained using three methods: (i) self-attested incomes for program participants, (ii) third-party purchased and calibrated demographic data, and (iii) modeled income for households with missing data. Self-attested household income was available for about 68,000 households that had participated in IQBD and declared their household income. Third-party estimated income data was provided by PGE. This data is sourced from public or commercially available data sources. Since household income from data vendors can become outdated quickly, we adjusted the unverified household

incomes by a constant percent, so that the median household income in each county matched the median household income from the [DOE LEAD tool](#) and the Federal Reserve’s [FRED tool](#). The income data included missing values for approximately 13% of households. For households with missing income data, an estimated income was calculated as the average of the incomes of the five geographically closest households.

Poverty Status: The number of people living in a household cannot be easily obtained from any public data sources. This makes it difficult to identify a household’s poverty status compared to the State Median Income, which is defined by household size. The median household size in the six main PGE counties varies from 2.3 to 2.7. In general, we used the income limits for two person households in this analysis as they produced the best estimates of state median income tiers compared to the DOE LEAD tool.

Validation: According to the DOE LEAD tool, between 24-32% of households in counties served by PGE would fall under 60% of the State Median Income. This estimate

is not specific to PGE customers. In this assessment, the county poverty rates range from 20-31% (with an approximately 10% margin of error), which is within the census range.

Building type: Meters were classified into one of five building types: single family, mobile homes and auxiliary dwelling units, multifamily apartments, commercial or master metered and unoccupied. Commercial meters were those tagged with a specific commercial use by the county assessor or that were on a commercial rate class. Additionally, we filtered out meters using in excess of 60,000 kWh per year as those are likely associated with commercial uses or are master metered. Meters that showed energy consumption less than 1,200 kWh/year were flagged as potentially unoccupied or vacation homes.

Overall, the number of residential meters was 827,000. When excluding high-use and low-use outliers (suspected seasonal, unoccupied or master-metered), the final number of occupied households for the analysis was approximately 800,000. The county assessor property use codes were parsed to identify apartments and mobile homes. Finally, PGE has internal data to identify single

family and multifamily homes – this was used to label the remaining homes.

Validation: The aggregate housing type counts (65% single family, 32% multifamily) are very similar to data from the DOE LEAD tool (67% single family, 30% multifamily).

Homeownership Status: PGE provided data from its CIS system on homeownership status (rent vs. own). The data is usually reported by customers during account setup or changes.

Load Disaggregation and Heating Type: A simple load disaggregation was applied for all households using their monthly energy bills. This involved taking the tenth percentile of monthly energy use (normalized by the number of days in a billing period) as the assumed base load. Then, the energy use that exceeded the base load in the winter months (October through May) was designated as “heating-related energy use”, while the energy use that exceeded the base load in the summer months (June through September) was designated as “cooling-related energy use”. Heating fuel type was provided by PGE but could also be inferred from heating energy usage.

Energy Burden and Energy Efficiency Potential

thresholds: These thresholds were set as follows:

- Electrically heated:
 - High-burden threshold: Greater than 6%
 - High efficiency potential threshold: Greater than 14 kWh/sq.ft.
- Non-electrically heated:
 - High-burden threshold: Greater than 4% in marine climate counties and greater than 3% in cold climate counties – using climate zones defined by DOE¹. All of PGE’s counties have a marine climate.
 - High efficiency potential threshold: Greater than 7 kWh/sq.ft.

Energy Burden: Energy burden for a household is calculated simply by dividing annual electricity expenses by gross household income.

$$\text{Energy Burden } [\%] = \frac{\text{Annual Electricity Expenses } [\$]}{\text{Annual Household Income } [\$]}$$

Excess Burden: Excess burden is the portion of a household’s energy burden in excess of the high burden threshold.

$$\begin{aligned} \text{Excess Burden } [\$] &= \max(0, \text{Energy Burden } [\%] \\ &\quad - \text{High Burden Threshold} [\%]) \\ &\quad \times \text{Annual Household Income } [\$] \end{aligned}$$

On-Time Payment Rate: This is the proportion of all energy bills that did not require a late payment or disconnect notice to be sent out.

¹ The current accepted high energy burden threshold (6%) is a rule of thumb developed by Fisher, Sheehan and Colton based on total household energy expenses (gas + electricity + delivered fuels). There is currently no guidance on flagging high burden for non-electrically heated homes. The state of New Jersey uses a split high burden threshold by fuel: for customers with natural

gas and electric service from different utilities, no more than 3% of income should be devoted to each. We use this as a guideline for non-electrically heated homes in this assessment, recognizing that there could be different interpretations or methods for designating customers as “high-burden”.

Energy Assistance Funding: The dollar amount of funding flowing through energy assistance programs (including discount, donation and weatherization programs) through discounts or rebates.

Customer Bill Reductions (Avoided Burden): The total bill impact (in dollars) from energy assistance programs.

Avoided Need: The total bill impact (in dollars) from energy assistance programs, specifically for program participants flagged as “high-burden”. Bill impact is equal to the amount of assistance grants or discounts for direct assistance programs and is equal to measure savings (kWh/year) multiplied by the residential kWh rate (\$/kWh) for energy efficiency programs.

Census Tract Statistics: Since each customer has been mapped to a census tract and block group, we are also able to match customers to census tract average statistics (e.g. highly impacted communities, presence of children,

non-English speakers, education level, environmental pollution etc.).

Energy Assistance Need: This is the sum of excess burden across all customers.

2024 Projections: Since PGE customers experienced a large (~18%) rate increase in January 2024, some figures in this assessment related to need and energy burden are projections for 2024 including the impact of the rate increase. The 2024 energy bills were projected by using the 2023 energy usage for customers and applying the 2024 rate structure. 2024 household incomes were estimated by adding a 7% multiplier to the estimated 2023 household incomes (LIHEAP and OEAP applied a 7% income adjustment to their 2024 income guidelines compared to 2023). This will be noted where relevant.

1.4 SOURCES OF UNCERTAINTY

- **Household income** is a dynamic piece of data as residents move in and out of homes and income data can become outdated within a year or two.

- **Poverty status.** Since household size cannot be reliably captured through any available data source, household poverty status is subject to uncertainty. The State Median Income uses household size as a scaling factor. In this analysis, we have used income thresholds for 2-person households for consistency and clarity, but they may under-estimate or over-estimate the actual income eligibility depending on the actual sizes of low-income households in this service area.

- **Individual vs. aggregate data usage.** The underlying dataset has customer-level flags for data quality – data from primary sources is considered high quality while modeled data is considered medium or low quality, depending on the availability of supporting sources of information (example, home values and location). Higher quality data can be used for individual program targeting, lower quality data can be used for program design and aggregate reporting.

- **Building types.** There is some uncertainty in the classification of building types as described in Section 1.3. This could result in misclassifying non-residential meters as occupied households or single family/mobile homes as multifamily.

- **Achievable reductions in energy assistance need.** This analysis presents a *technical* energy assistance need based on energy burden. However, in our experience with energy assistance programs in general, many customers may not participate in programs, regardless of program design or available benefits due to a variety of barriers like access to information, application process difficulties, stigma and lack of trust. Understanding the *economically achievable* reduction in energy assistance need through utility programs would require a qualitative research of non-participants in a utility's service area.

2. PGE'S ENERGY BURDEN BASELINE



2.1 PGE RESIDENTIAL SECTOR PROFILE

PGE’s service territory in Oregon was composed of approximately **800,000 occupied households** in 2023 (exceeding a minimal level of 1,200 kWh/year of energy use and not exceeding 60,000 kWh/year).

Ethnicity: According to the U.S. Census Bureau, approximately 68% of residents in PGE’s service area are non-Hispanic white. Hispanic residents comprise 16% of the population, mainly concentrated in Marion county.

Household Income: The median household income for residents in PGE’s service area was approximately \$94,000 in 2023, above the state median. Approximately **24%** of residents would fall under 60% of the State Median Income (see table on following page for SMI values). An additional 16% of households earn between 60-100% of the state median income. These “borderline” customers would be ineligible for almost all energy assistance programs, but may still bear a relatively high level of energy burden. Designs for programs that are ratepayer-funded should take into account the degree of additional burden that would be imposed on these customers.

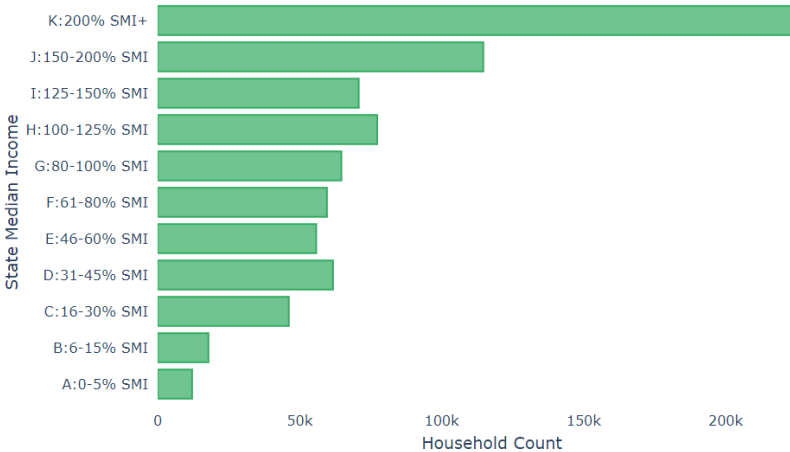


Figure 1. Distribution of households by household income as a percent of state median income for PGE residential customers

Household Size	60% of Annual State Median Income (SMI)	
	2023	2024
1	\$31,266	\$33,427
2	\$40,886	\$43,712
3	\$50,506	\$53,997
4	\$60,126	\$64,282
5	\$69,747	\$74,567
6	\$79,367	\$84,852
Each additional member	\$1,803	\$1,929

Energy Bills: PGE’s residential volumetric electricity rates are somewhat high for the region, but the basic charge is relatively low. Annual energy bills average **approximately \$1,900/year (2024 projection) with an average annual consumption of 9,800 kWh**, with approximately 46% of customers using electricity as a primary or secondary heating fuel. Figure 2 shows the distribution of annual electricity bills.

Home Vintage: Of the homes with a known age, approximately 46% were built after 1980, 40% were built between 1940 and 1980, with the remainder built prior to 1940. Older homes have more opportunities for weatherization, while newer homes could benefit more from lighting, controls and efficient appliances.

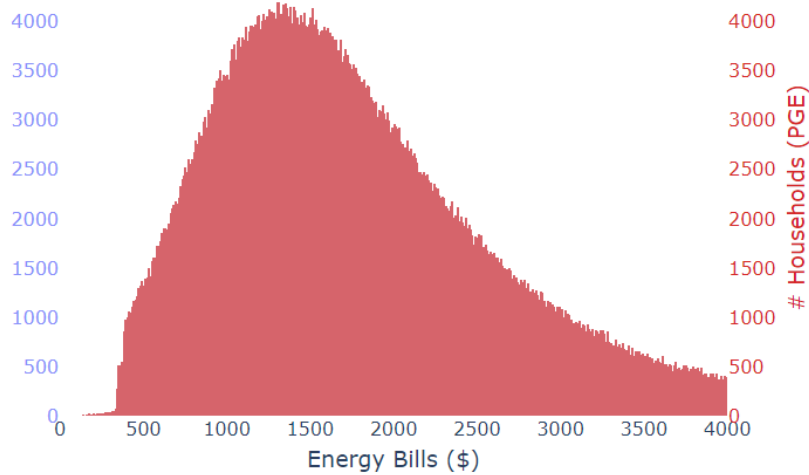


Figure 2. 2024 Household electricity bill distribution for PGE residential customers

2.2 ENERGY BURDEN

PGE customers have an **average and median electricity energy burden of 4% and 1.8%**, respectively. Figure 3 compares PGE’s median total energy burden (including an estimate of gas burden for non-electrically heated households) to values published in other jurisdictions. The median burden is comparable to metropolitan regions in the Pacific Northwest.

The average household will pay \$1,900/year in electricity bills in 2024. Of 800,000 identified households, **140,000 were deemed to have a high energy burden**, of which an estimated 118,000 would fall under 60% State Median income - meaning that annual electricity bills exceeded 6% of their income for electrically-heated homes and exceeded 4% of their income for non-electrically heated homes. Low-income high-burden customers paid an average of \$2,300 in annual electricity bills; the higher bill average reflects their higher likelihood to live in less efficient or older homes. The **total energy assistance need for PGE customers in Oregon is approximately \$155M across all incomes and \$133M in households that earn under 60% SMI**—this is the total reduction

that would bring all customer electricity bills below the high burden threshold (6% of income for electric heat and 4% for non-electric heat).

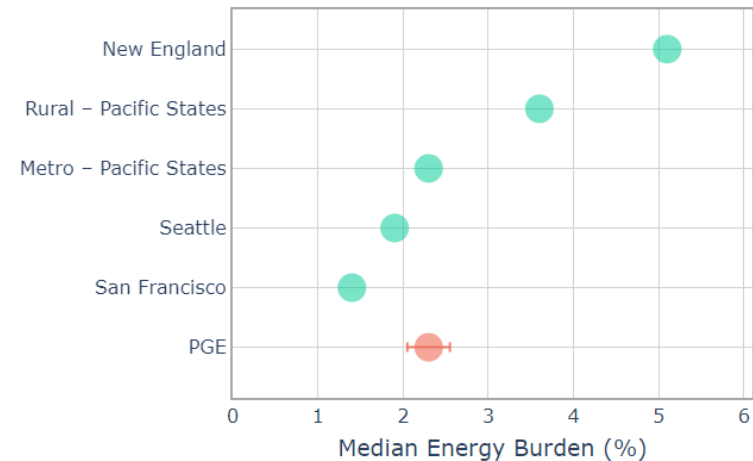


Figure 3. Energy burden benchmarking vs. other regions. Data for other regions is the median across each region, not specific to any utility.

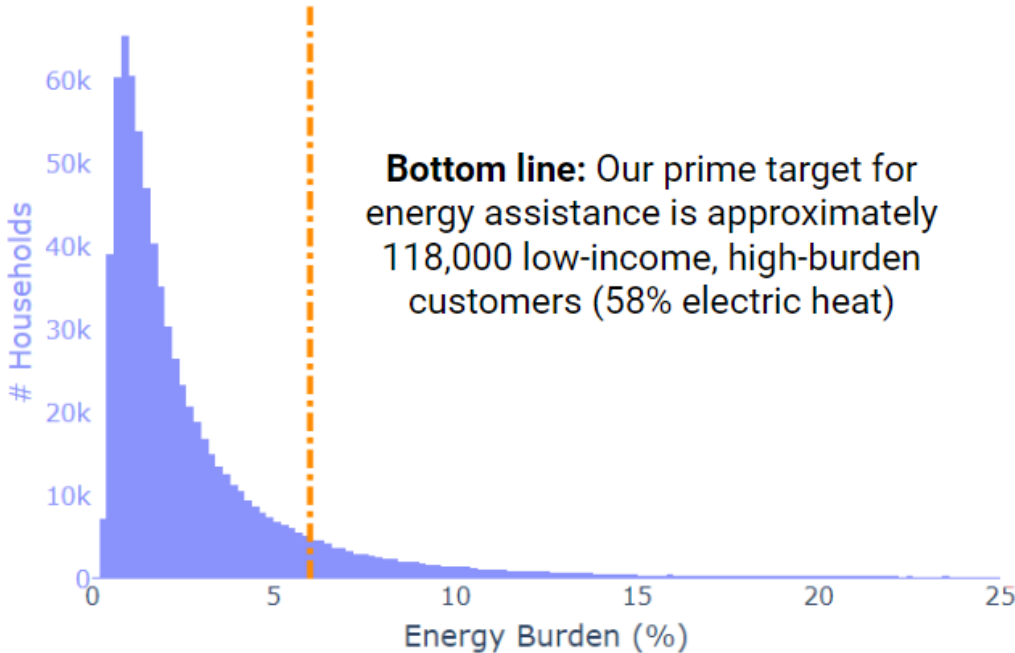
PGE’s energy charge in its 2024 residential retail rate is approximately 16.5 cents/kWh, which is higher than other utilities in the region but in line with the national average of 16 cents/kWh. High energy use combined with high per kWh charges, appear to be the most significant drivers of high energy burden in the area.

Although averages and medians give a general indication of energy burden across a service territory, the reality is that **energy burden is a customer-level metric** and its distribution is a better indicator of the burden that customers experience. The distribution of energy burden among PGE customers is shown in Figure 4.

The goal of an effective energy assistance portfolio should be to prioritize the customers who most need the assistance, i.e. the customers exceeding the 6%/4% thresholds.

Approximately 60% of the energy assistance need is borne by single family households, with 32% in multifamily homes. 55-60% of the energy assistance need for PGE customers is among renters, highlighting the challenge of reaching these customers through energy efficiency or weatherization. Other customer segments can be investigated in more detail in the data dashboard.

Number of Occupied Households ~800,000
Low Income Households Under 60% SMI: ~190k ± 10%
High Burden Households* ~140,000 (all) ~118,000 (LI)
Median Electricity Burden of high-burden households ~8.3%



*Energy bills and burden are calculated without factoring in any forms of energy assistance

Figure 4. Distribution of energy burden among PGE customers.
Figure shows all homes but dashed line indicating 6% high energy burden threshold applies to electric heat households.

2.3 ENERGY EFFICIENCY VS DIRECT ASSISTANCE

Figure 5 shows the distribution of energy burden and energy efficiency potential (defined through Energy Use Intensity thresholds) across all low-income residential customers. In a perfect world, the energy assistance portfolio would match these customer segments. For example:

- Energy efficiency and weatherization programs should primarily serve **high burden, high potential** households
- Direct assistance programs should primarily serve **high burden, low potential** households
- Crisis/emergency programs should primarily serve **low burden, low potential** households
- Traditional energy efficiency programs with financing should serve **low burden, high potential** households

Aligning targeted customers with program strengths results are the most cost-effective pathway to energy burden reduction.

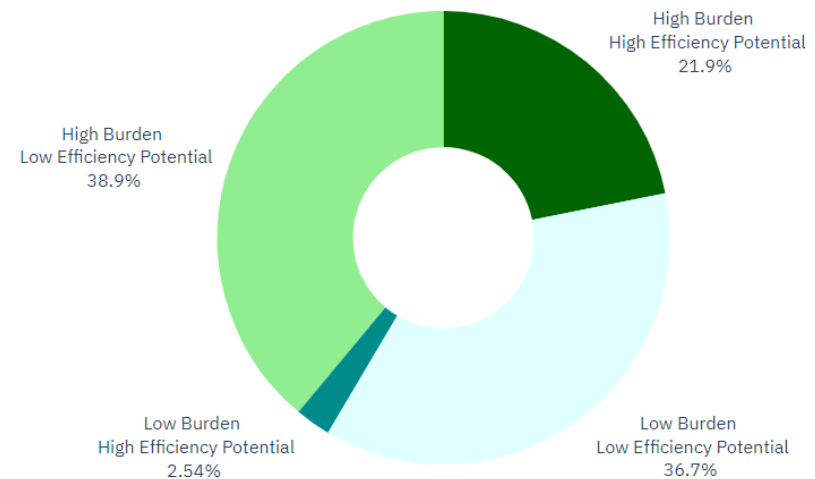


Figure 5. PGE low-income customer segments by energy burden and energy efficiency potential.

Approximately 37% of PGE's low-income customers are low-burden and low-efficiency potential. These customers' energy bills may not be a huge expense relative to housing, medical and education expenses, and they should not be prioritized in the more intensive programs, such as weatherization.

Almost 36% of high burden customers also have a high efficiency potential indicating that the energy assistance program mix should equally prioritize sustained energy burden reductions through energy efficiency and weatherization. Within this group of low-income, high-burden and high efficiency potential households, approximately 54% live in single family homes and 67% are renters. While energy efficiency is a more sustained form of energy burden reduction, we should recognize that scaling up low-income weatherization faces a host of barriers. Energy efficiency and direct assistance are not mutually exclusive and these customers are also in need of more immediate assistance options (through rates, grants or discounts).

3. KEY CUSTOMER SEGMENTS

A11

A12

HOUSE

3.1 OVERVIEW

This section presents statistics and profiles related to some key customer segments in PGE’s Oregon service area. These customer segments were selected for a combination of reasons:

1. Flagged in this assessment as having high overall burden or high prevalence of energy burden
2. Identified as having low access to existing programs
3. Identified as vulnerable through the Department of Energy’s environmental justice screen

This analysis is primarily geographic, focusing on specific neighborhoods. The maps in the following sections display the level of energy assistance need in these areas as well as locations of social services for potential outreach (green dots).

These customer segments represent only a portion of the high energy burden among PGE’s customers, but they are intended to serve as an example of the targeting analysis that PGE can perform for their programs or outreach initiatives in the future.

3.2 POWELLHURST-GILBERT

Census tracts: **41051008400, 41051008500, 41051009000**

Total Assistance Need: **\$2.9M (1.8% of total need)**

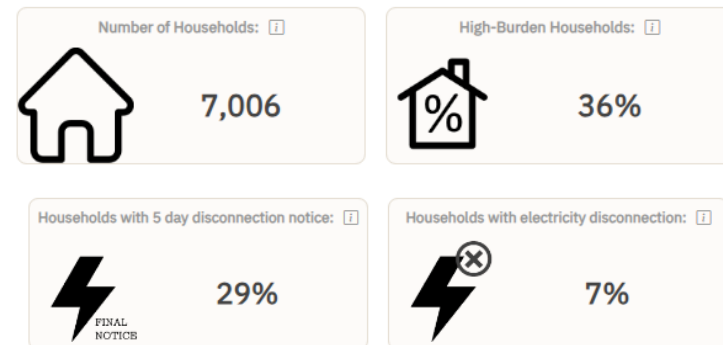
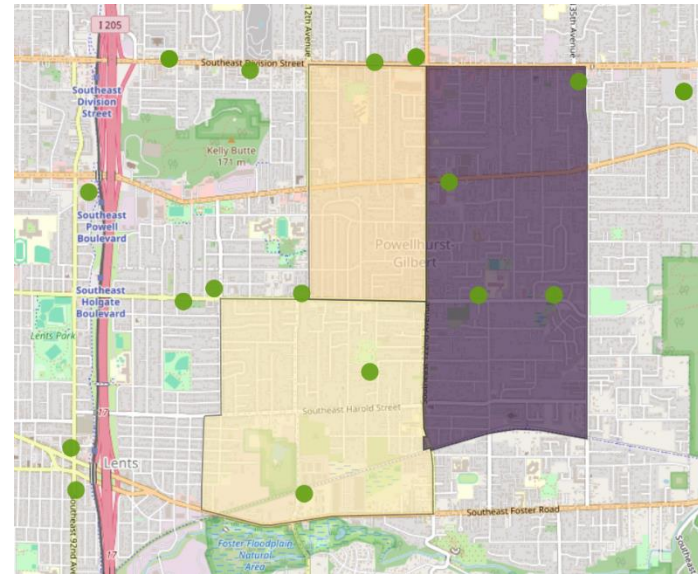
Total Assistance Funding: **\$1.5M (2.3% of total funding)**

People of Color: 44%

Linguistic Isolation: 11%

PROFILE: The Powellhurst-Gilbert area of Eastern Multnomah county is a very diverse community with over 44% people of color and over 11% of the population living in linguistic isolation (Asian, Spanish and East European). Members of this community tend to be renters (~60%) living in older homes (45 years old on average) but with a generally high housing burden. On the other hand, it appears to be well served by existing assistance programs.

RECOMMENDATIONS: This area is relatively densely populated and can be effectively reached through social media as well as by connecting to large property managers. Outreach to local businesses can also help reach customers and bridge the linguistic divide. On-site energy bill clinics or door-to-door canvassing could also provide a positive customer touchpoint for encouraging customers to apply to assistance programs.



3.3 ESTACADA AND ITS OUTSKIRTS

Census block groups: **410050242001, 410050242002**

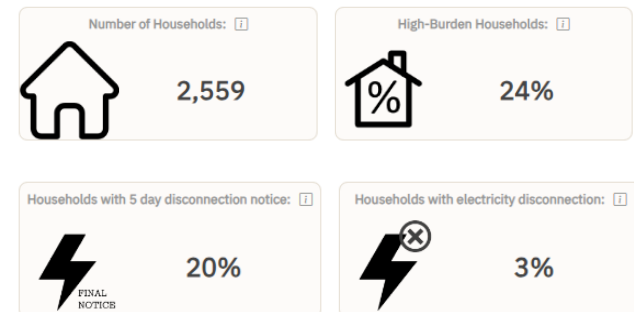
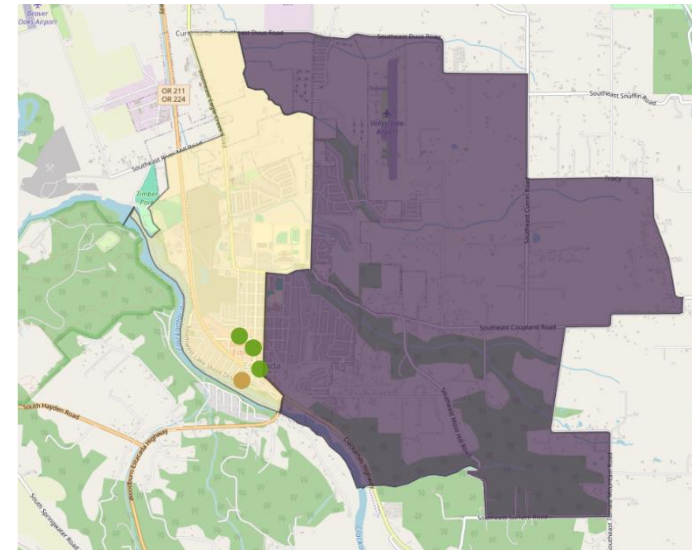
Total Assistance Need: **\$870k (0.6% of total need)**

Total Assistance Funding: **\$300k (0.4% of total funding)**

High Efficiency Potential households: **28%**

PROFILE: The area around Estacada has a moderate level of energy burden, with 24% of households experiencing high energy burden. The region was flagged for having a lower than expected participation rate and high energy efficiency potential. Most of these residents are single family homeowners.

RECOMMENDATIONS: The area should be prioritized for weatherization or lighter touch energy efficiency (e.g. energy savings kits, thermostats and air sealing), as many customers have a high energy savings potential and own their homes. Outreach through traditional community based organizations may be challenging because of location, but connecting with schools and local churches might be more productive.



3.4 GERVAIS AREA

Census block groups: **410470025021, 410470025022, 410470025023, 410470103031, 410470103032**

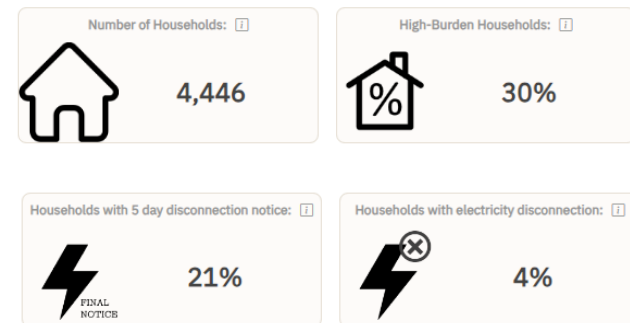
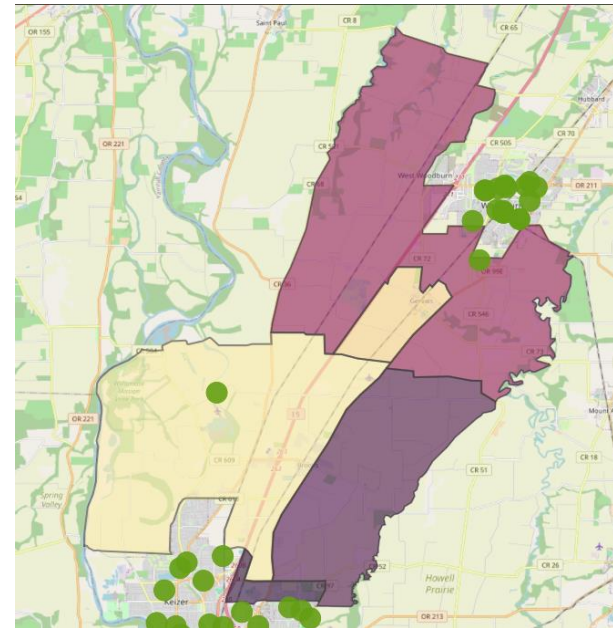
Total Assistance Need: **\$1.9M (1.2% of total need)**

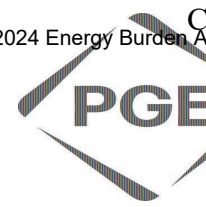
Total Assistance Funding: **\$500k (0.7% of total funding)**

People of Color: **48%**

PROFILE: The area around Gervais in Marion county is mostly rural and agricultural. There is a high proportion of Hispanic households and 15% of customers live in mobile homes, with the remainder living mostly in owned or rented single family homes. Although housing burden is relatively low, households use 13,200 kWh/year on average (35% more than the average for PGE), with annual electricity bills slightly over \$2,500/year. Households in this area appear to be underserved by existing programs.

RECOMMENDATIONS: The area itself does not have many social services (most are either in Salem to the south or Woodburn to the north). Given the nature of the area, it may require more boots-on-the-ground culturally/linguistically appropriate outreach to reach households in need, perhaps through county fairs, rural resource fairs or local events.

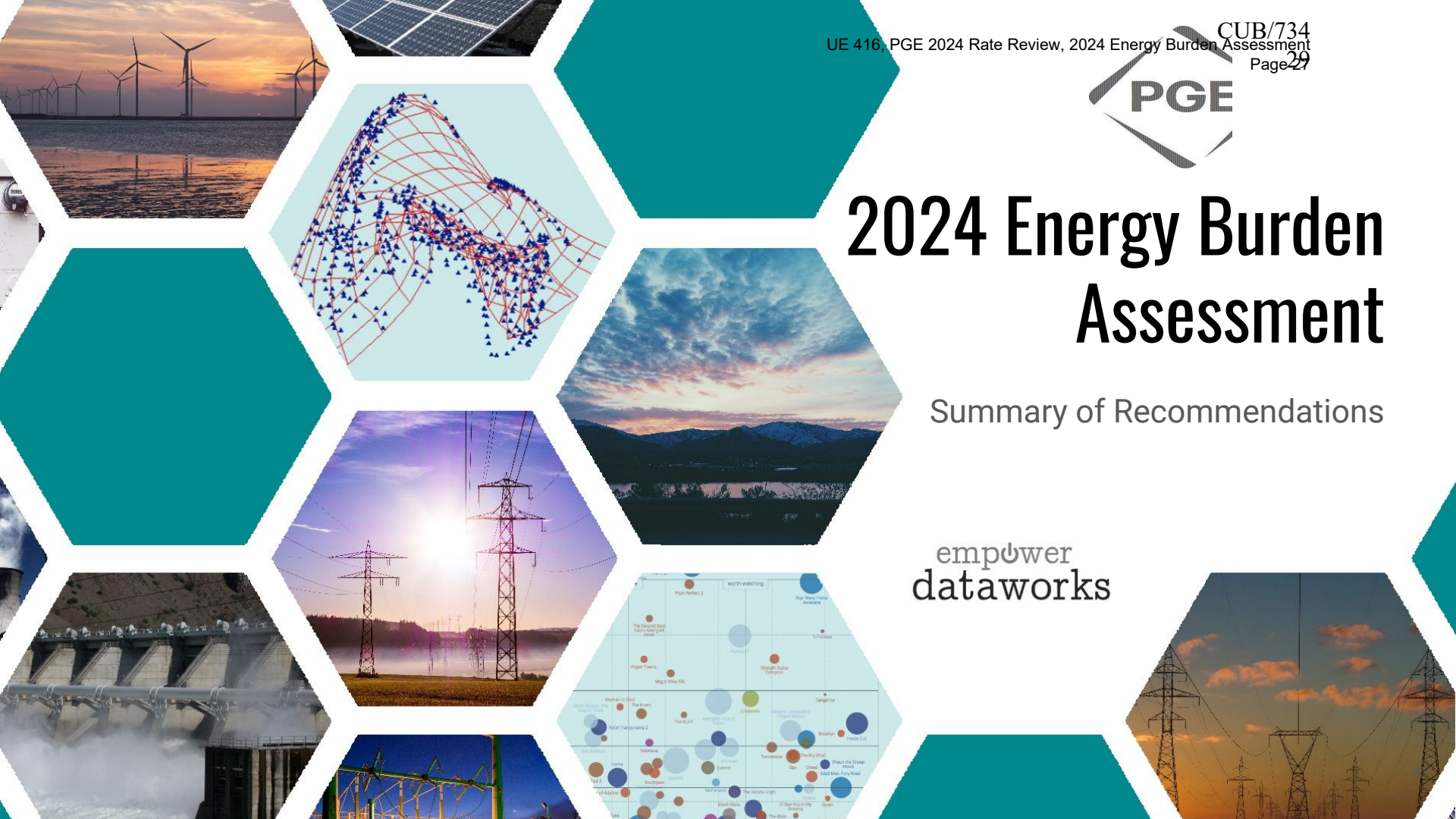




2024 Energy Burden Assessment

Summary of Recommendations

empower
dataworks



Main Takeaways - Energy Burden Assessment

- **The IQBD program is operating effectively and is following energy assistance program best practices. There are no major recommended changes to the foundation of the program.**
- In 2024, total energy assistance funding is expected to exceed 51% of the energy assistance need for PGE's customers and IQBD is growing quickly to fill that gap.
- Most recommendations in this assessment are auxiliary components that can be added to PGE's energy affordability portfolio:
 - **Enrollment:** How to keep up the momentum of program enrollment as the IQBD program matures
 - **Arrearages:** How to best serve customers at risk of disconnection
 - **Energy Efficiency:** How can we leverage energy efficiency for sustained energy burden reduction
 - **Energy assistance hole:** How to best serve customers who have unaffordable bills but are ineligible for assistance programs
 - **Other:** How do we design more equitable rates, smooth the impact of rate increases, modulate the ups and downs of our programs and target assistance at customers who need it the most

Summary of Recommendations

UE 416, PGE 2024 Rate Review, 2024 Energy Burden Assessment

CUB/734
Page 29

	Recommendation	Cost/Complexity	Impact/Priority	Timeline
IQBD	Track energy assistance funding percent as an IQBD evaluation metric	Low	Low	2025
	Focus immediate IQBD outreach efforts on 0-15% SMI households	Medium	Medium	Q3 2024
	Communicate about IQBD program to customers at risk of disconnection	Low	Medium	Q3 2024
	Assess impact of enhanced discounts for lower income tiers	High	High	Q3 2024
	Reduce need for reapplication of fixed income IQBD participants	Low	Low	Q4 2024
	Implement a targeted post-enrolment verification protocol	Low	Medium	2025
Program Portfolio	Assess impact of retroactive application of bill discount for customers in arrears (arrearage forgiveness)	Low	Medium	Q4 2024
	Initiate a Program Navigator fund for partner nonprofits to help customers access programs	Medium	High	2025
	Adjust timing of marketing about the IQBD and other energy assistance programs	Low	Low	Q3 2024
	Implement an energy use diagnostic protocol for high users in energy assistance programs	Low	Medium	2025-26
	Consider an energy audit program for high users in energy assistance programs	Medium	High	2025
	Allocate energy efficiency funding to low-income, high-burden customers	High	High	2026+
Other	Consult with advisory groups on potential solutions to help households under state median income but above energy assistance income thresholds	Medium	Low	2025
	Adjust timing of rate increases	Low	Medium	2025
	Consider revisiting fixed charge component of residential rate schedule	Medium	Medium	Next GRC

Insights: High-level Affordability Gap

Low-Income, High Burden
Households
~118,000



Income-eligible only



2024 Projection not including additional
program participation:
LIHEAP + OEAP + third party funding: \$25M
IQBD: \$43M

- At program maturity (year 5+), best practice is to target at least 60-70% of the need available as program funding - with additional projected participation, IQBD should hit this target in 2025. Once this target is reached, participation usually slows down and focus shifts to program optimization and targeted outreach.

Recommendation: Track total energy assistance funding as a percent of energy assistance need as an annual metric

Discount Tier Analysis

Recommendation: Assess the feasibility and benefit vs. cost of enhanced discounts for lower income tiers

Example: Increase discounts to 90% & 70% or combine into one tier at 75% discount

Estimated budget impact at current enrollment (Q1 24):
90%: ~\$5.1M (+12%)
70%: ~\$4.6M (11%)

Example: Enhance discount for this group who is under the federal poverty level to 50% discount

Estimated budget impact at current enrollment (Q1 24): ~\$11M (+26%)

Income tier	Discount Level	Average need of high-burden households as a percent of bill
0-5% SMI	60%	90%
6-15% SMI	40%	67%
16-30% SMI	25%	45%
31-45% SMI	20%	23%
46-60% SMI	15%	16%

Current discount rates are suitable

Arrearage Relief

Challenge:

Some customers do not address arrearages until an actual disconnection happens.

Recommendations:

Awareness of programs: Ensure that all late payment and disconnect notifications include information about IQBD, payment plans and payment extensions. Enhance communication about IQBD to customers at risk of disconnection.

Arrearage relief for program participants: Assess the feasibility and benefit vs. cost of a capped budget arrearage relief program. For simplicity, the program could be made available to IQBD participants with arrears and apply the customer's bill discount percent retroactively for arrears up to a limit (e.g. X% discount on first \$1,000 of arrears).

Pilot estimate: \$1M arrearage relief fund can likely serve 3,000-4,000 IQBD arrears customers.

Diversity of Service Territory

Challenge:

PGE's service territory has a myriad of cultures and ethnicities, a variety of economic backgrounds, urban and rural households and more. PGE cannot feasibly become an expert in outreach to every community within its service area.

Recommendation:

Program Navigator Fund: Incentivize local community-based organizations (CBOs) to refer and support customers in applying for the program. These CBOs would serve as the "Program Navigators" would be CBOs that register with PGE and would be compensated per successful customer application. Program Navigators would be trained to refer customers to other programs (e.g. LIHEAP, Energy Trust, etc.) in addition to IQBD and assist with the application process.

Pilot estimates: \$200k fund, \$75 per successful application. Program/pilot may be coordinated jointly with NW Natural.

Energy Efficiency Potential

Challenge:

High energy users overutilize program funds while the root cause of their high energy burden remains unaddressed. There are 47,000 low-income customers who would potentially be good candidates for energy efficiency measures, but existing low-income EE programs serve relatively few households.

Recommendations:

First step towards integrating energy efficiency with IQBD is to identify and understand the high use participants.

Energy use diagnostic: Develop a protocol for outbound customer service advisors to contact high-use households, perform a diagnostic of their hourly energy use, and collect data related to the drivers of high energy use. Estimated staff time: 15-20 minutes per successful outbound call.

Energy audit program: Establish a energy audit pilot program (through RFP) that focuses on the top 2,000 or so users in IQBD (\$1.5M approx. budget). Program should include walkthrough energy audit, ETO and EE credit referrals, direct install (LEDs, aerators). List of high priority homes should be provided to program implementer. This program can be designed to be cost-effective through realized savings in IQBD discounts.

Coordination with energy efficiency providers: Work with ETO and CAP agencies to target EE funds at low-income, high burden households.

Addressing high-burden, program-ineligible households

Challenge:

There are households that are not eligible for existing programs but need assistance.

This includes households that:

- Are under the state median income, have a high energy burden, but are ineligible for assistance
- Constrain their energy use due to lack of affordability and lack of program access
- Are **Asset Limited, Income Constrained, Employed**
- Earn above the program income thresholds but under the Self Sufficiency Standard Income

Recommendations:

Difficult to solve through PGE because most customers in this category would benefit most from energy efficiency. Consult with stakeholders on best approach:

- Option 1: Energy assistance path: Allocate a budget for customers in an additional income tier (60-100% SMI) - perhaps a fixed one-time grant - equivalent to one average winter bill (\$150-200)
- Option 2: Work with Oregon Energy Fund on expanding eligibility for their program and increase annual donation
- Option 3: Work on expanding access to the Oregon on-bill financing program for energy efficiency - perhaps through waived or reduced interest and fees for income-eligible households

Managing the Demand Cycle

Challenge:

Varying demand can strain program staff, overload customer service advisors and delay application processing.

Recommendations:

Reduce need for reapplication: Allow fixed income customers (34% of total) to reapply every 4-5 years instead of every two.

Communication timing: Biggest marketing pushes should be in September/October **before** high bill season. Include communication about projected winter bills including rate increases and energy efficiency tips to encourage customers to apply early.

Rate increase timing: Consider delaying annual rate increases to April of each year instead of January 1st to avoid bill shock from cold weather + rate increases.

Post-enrolment verification

Challenge:

IQBD was designed with self-declared income and the intent was to establish a post-enrolment verification process for 3% of participants in a random draw.

Recommendations:

Targeted verifications: Instead of random process, consult with IQBD advisory group to determine criteria for initiating a verification (e.g. high property value, own multiple properties, high estimated income).

Potentially use remunerated program navigators (see above) to assist customers with responding to the verification request.

Audit Protocol for Self-Verification and Auto-Enrollment

The audit process and scoring algorithms are developed and operated within the utility - customer audit lists are shared with agencies.

Data requirements:

- Home values
- Housing type
- Multiple accounts/seasonal homes
- Renter/homeowner
- Disconnect/past due notices
- Home location and average neighborhood energy burden
- Estimated customer income range (optional)

Once per quarter, calculate probability score of participants being eligible based on data (0-100)

Flag least probable 3-4% (lowest scores) for manual verification

Flag additional 2% random sample for manual verification

Connect flagged participants with agencies for document request

If more than 10% of audited participants fail audit, adjust audit algorithms

In case of non-response within X days or failed audit, customer is removed from program and directed to other programs

Continuous monitoring of audit metrics (esp. equity of audits and failure rates) and iterative improvement of scoring algorithms

Rate design

Cost of service for multifamily is not very different from single family. Single family can include old 900 sq. ft homes and brand new 7,000 sq.ft mansions.

The fixed charge also does not reflect PGE’s true fixed costs (average of \$30 for the residential class). This encourages conservation and solar but low-income customers cannot afford these improvements.

Monthly Rate

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

<u>Basic Charge</u>		
Single-Family Home		\$13.00
Multi-Family Home		\$10.00
<u>Transmission and Related Services Charge</u>		
	0.678	¢ per kWh
<u>Distribution Charge</u>		
	6.844	¢ per kWh
<u>Energy Charge</u>		
	8.814	¢ per kWh

Rate design

Recommendation:

Rate structure can be more aligned with cost of service **and** with customers' ability to pay. Consider splitting the fixed charge by service size (under 100 amps, 101-200 amps and 201+ amps), which fully reflects the cost of service and is much more aligned with income and ability to pay. The variable distribution charge might also be correlated to service size. Evaluate raising the fixed charge with a corresponding decrease in the kWh charge.

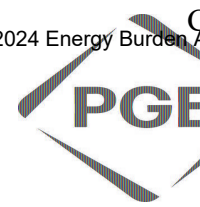
Other utility rate structures suggest a 3-4X spread between the smallest and largest service sizes (as opposed to 27% for single family vs multifamily).

Two additional changes can augment the small service size: (i) auto-enroll IQBD participants as small service (ii) introduce a gradient for future rate increases so that this tier experiences smaller increases

- **Small Service:**
 - Multifamily units
 - Services with panel sizes of 100 amps or less, or;
 - Supplemental “Add-on” services with panel sizes of 200 amps or less that are located on the same or contiguous parcels as a Schedule 7 dwelling unit billed to the same customer. Such services provide electricity to facilities that are used in conjunction with residential service but are not intended for human habitation such as garages, barns, or well pumps.
- **Medium Service:** Services with panel sizes of up to 200 amps and services connected prior to April 1, 2022 that do not qualify as Small Services.
- **Large Service:** Services with panel sizes greater than 200 amps and less than 401 amps.
- **Extra Large Service:** Services with panel sizes greater than 400 amps.

Base Charge per day:

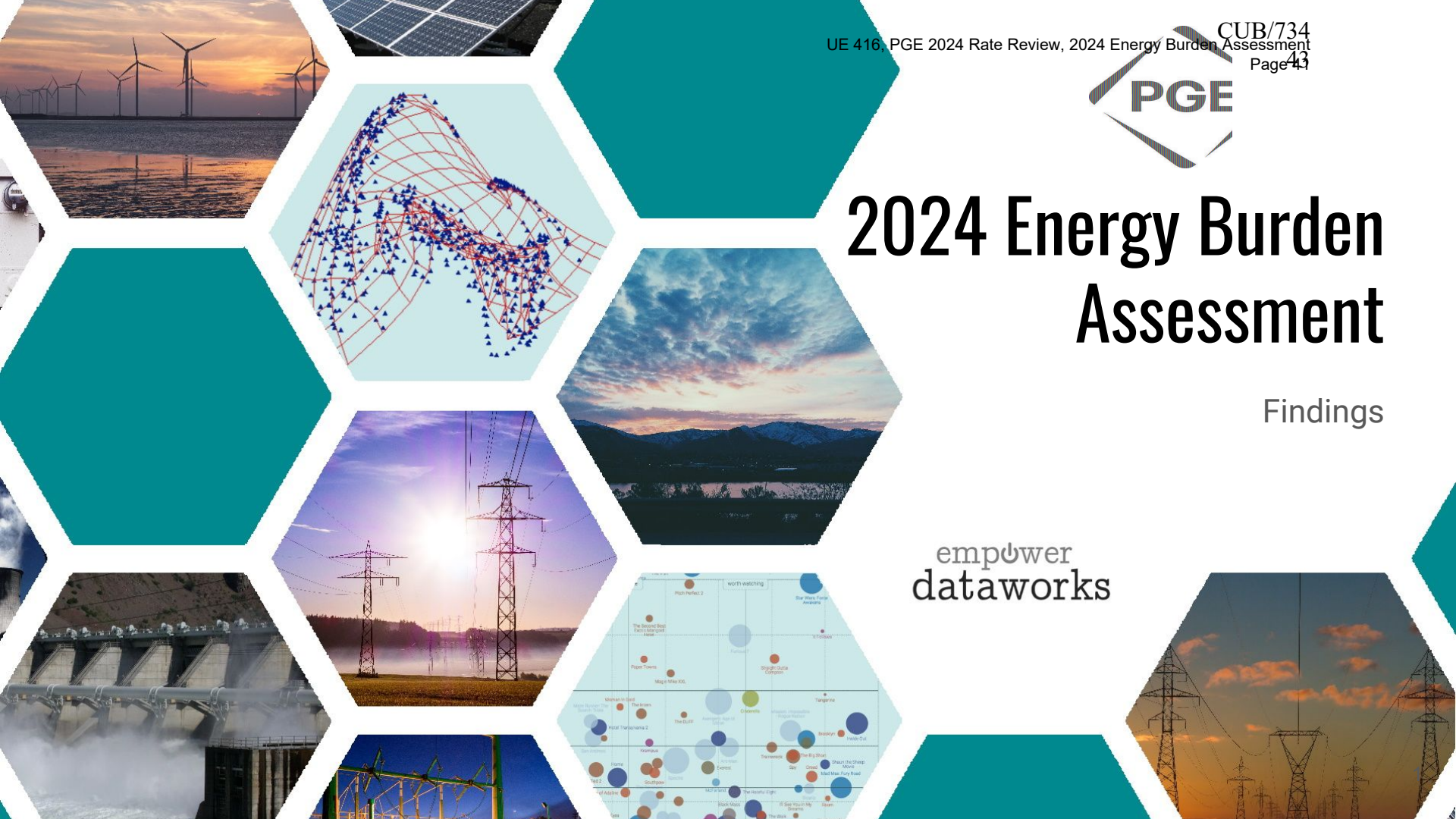
Effective Date	November 1, 2023	April 1, 2024	
Small \$/Day	\$0.22	\$0.36	\$10.80 / month
Medium \$/Day	\$0.35	\$0.59	\$17.70 / month
Large \$/Day	\$0.48	\$0.84	\$25.20 / month
Extra Lg. \$/Day	\$0.77	\$1.37	\$41.10 / month



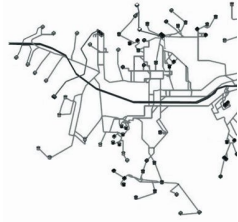
2024 Energy Burden Assessment

Findings

empower
dataworks



What is an Energy Burden Assessment?



Data analysis (not a survey) that uses utility and third-party customer data.



Primary purpose is to estimate the energy assistance need based on customer-level geographic, demographic and building data.



Comparing the need to actual program performance gives us an **actionable** path to improving our energy assistance programs

Energy Burden

Definitions

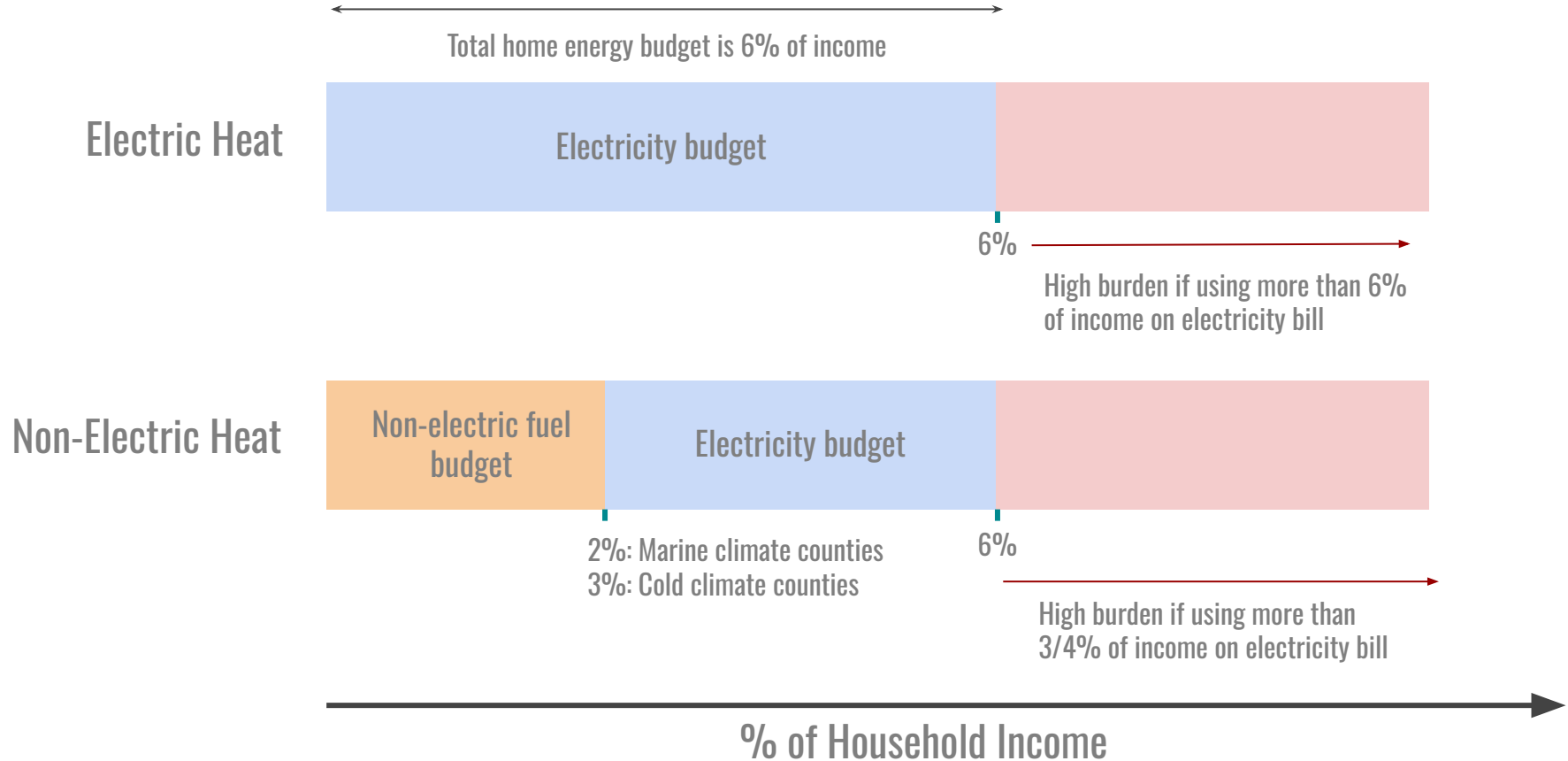
Low-income:

Households earning under 60% of the state median income (SMI)

Household Unit Size	Annual Gross Income
1	\$33,427
2	\$43,712
3	\$53,997
4	\$64,282
5	\$74,567
6	\$84,852

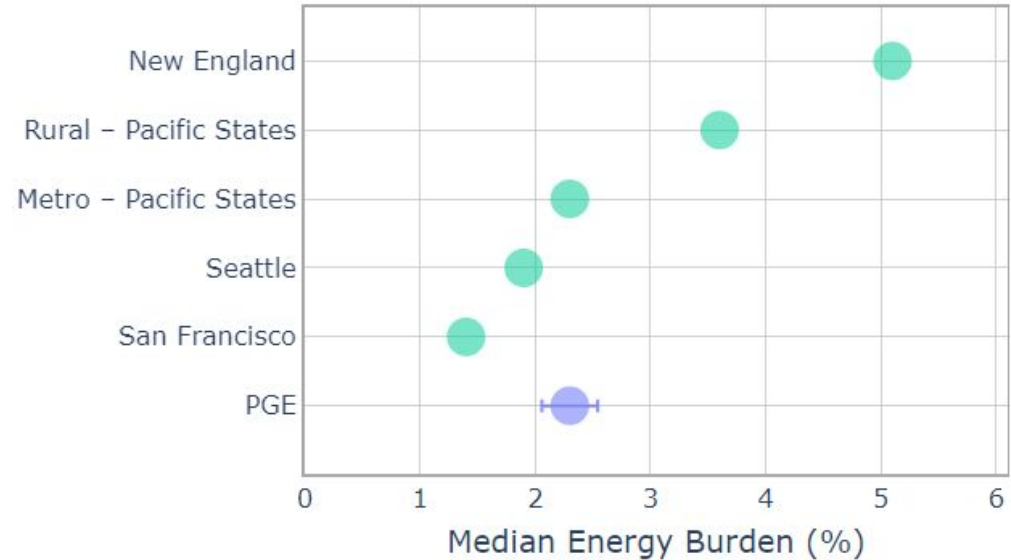
**Most data is reported for the 2023 calendar year. Bills and energy burden are projected for 2024 using 2024 rates and 2023 energy usage. 2024 household incomes are estimated to be 7% over 2023 incomes on average (equal to state median income increase)*

High burden thresholds for multiple fuels



Insights: **Energy Burden**

- Median energy burden is comparable to other metropolitan areas in the Pacific Northwest.
- Rates are relatively high for the region but households in most of the service area have higher incomes than the state median



Insights: Energy Burden

Number of Occupied
Households

~800,000

Low Income Households
Under 60% SMI:

~190k \pm 10%

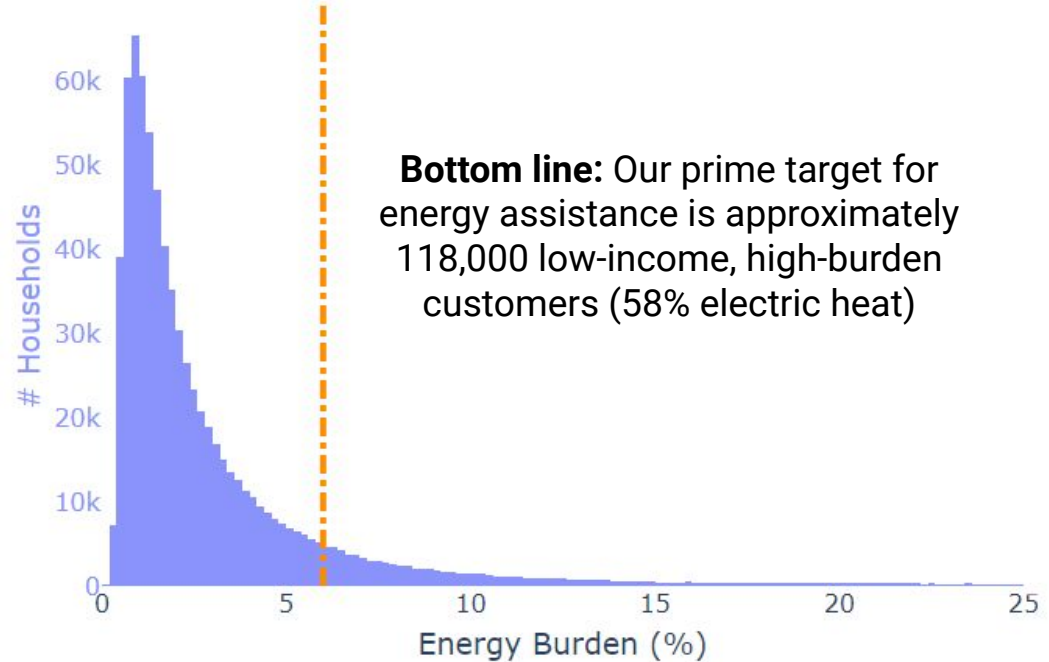
High Burden Households*

~140,000 (all)

~118,000 (LI)

Median Electricity Burden
of high-burden
households

~8.3%



*Energy bills and burden are calculated without factoring in any forms of energy assistance

Insights: High-level Assistance Gap

Low-Income, High Burden
Households

~118,000



Income-eligible only



2024 Projection not including additional
program participation:
LIHEAP + OEAP + third party funding: \$25M
IQBD: \$43M

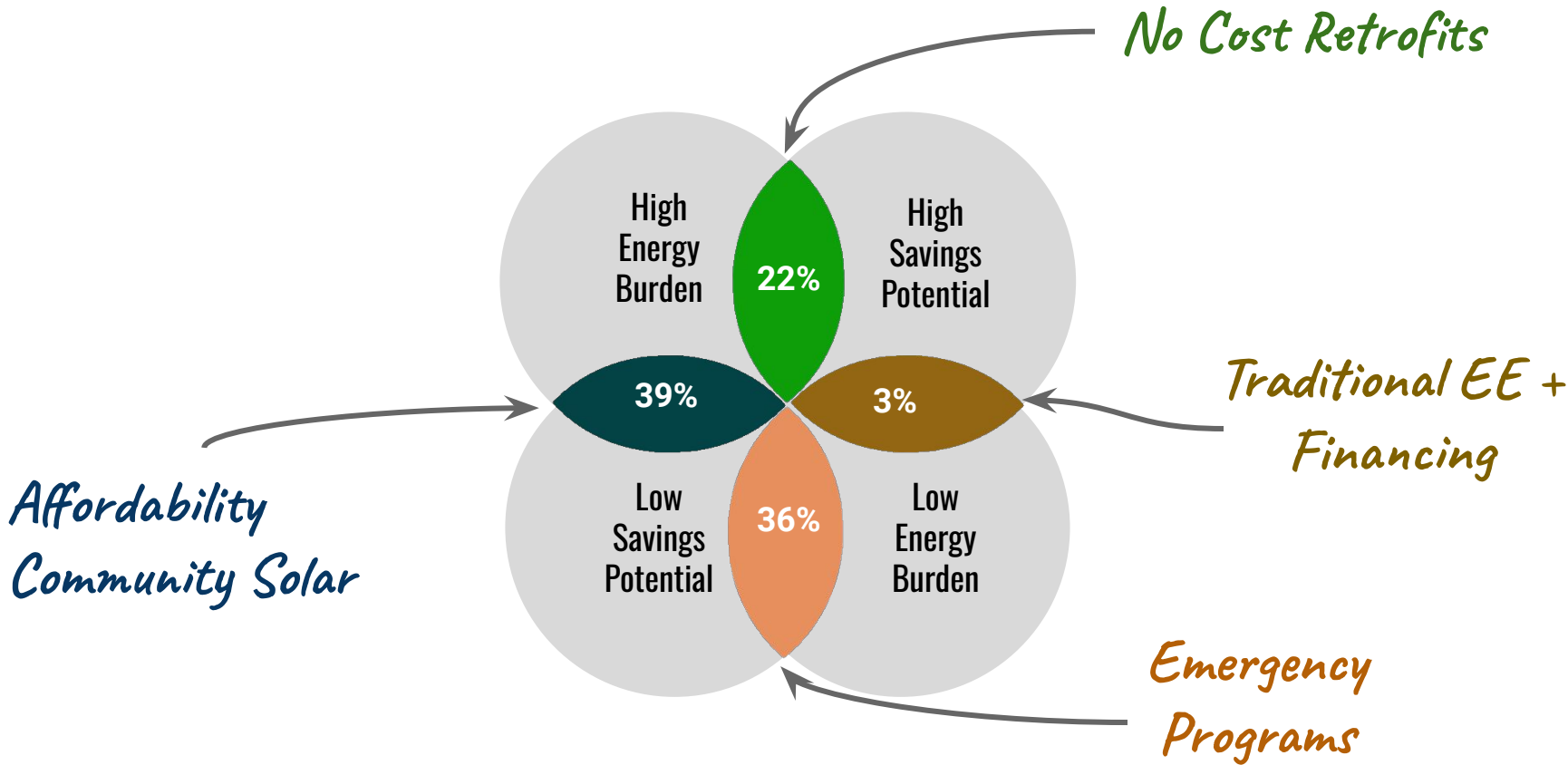
- At program maturity (year 5+), best practice is to target at least 60-70% of the need available as program funding - with additional projected participation, IQBD should hit this target in 2025. Once this target is reached, participation usually slows down and focus shifts to program optimization and targeted outreach.

Recommendation: Track total energy assistance funding as a percent of energy assistance need as an annual metric

Insights: **Additional Investments in Customer Bill Reductions**

- In 2023, PGE invested approximately \$6M in low-income energy efficiency pilots and programs in collaboration with ETO
 - 2023 participation: ~50 for rooftop LI solar; 448 for Community Partner Funding; 274 for Savings Within Reach
- An additional \$14M is collected through the public purpose charge and used for low-income weatherization through OHCS (few hundred homes per year)
- Currently, these programs reach less than 1% of the eligible population - PGE is setting up the infrastructure that will allow these initiatives to scale in the future, including combining PGE programs with federal and state funding (est. \$160M/year from 2025-2029).
- Low-income weatherization is not always cost-effective and there is a limit to how much household energy use can be reduced, but because IQBD was designed as a bill discount, spending on energy efficiency directly reduces IQBD discounts for program participants

Program Potential



IQBD

Discount Tier Analysis

Recommendation: Assess the feasibility and benefit vs. cost of enhanced discounts for lower income tiers

Example: Increase discounts to 90% & 70% or combine into one tier at 75% discount

Estimated budget impact at current enrollment (Q1 24):
90%: ~\$5.1M (+12%)
70%: ~\$4.6M (11%)

Example: Enhance discount for this group who is under the federal poverty level to 50% discount

Estimated budget impact at current enrollment (Q1 24): ~\$11M (+26%)

Income tier	Discount Level	Average need of high-burden households as a percent of bill
0-5% SMI	60%	90%
6-15% SMI	40%	67%
16-30% SMI	25%	45%
31-45% SMI	20%	23%
46-60% SMI	15%	16%

Current discount rates are suitable

Diversity of Service Territory

Challenge:

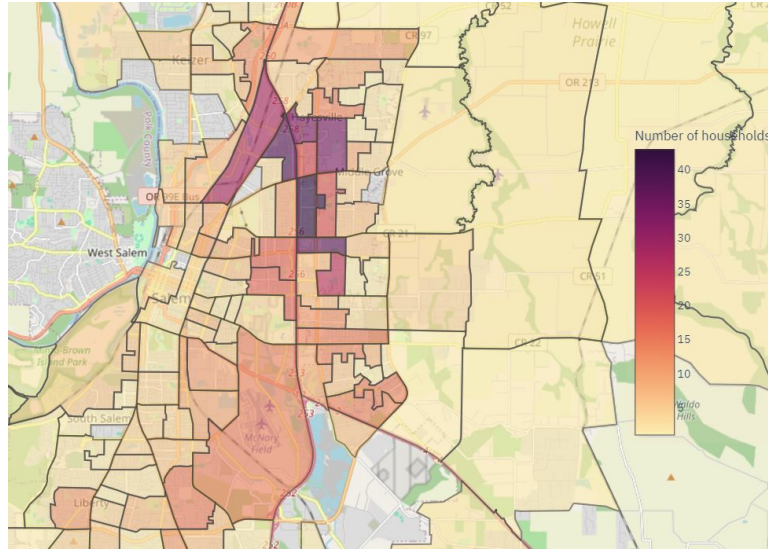
PGE's service territory has a myriad of cultures and ethnicities, a variety of economic backgrounds, urban and rural households and more. PGE cannot feasibly become an expert in outreach to every community within its service area.

Recommendation:

Program Navigator Fund: Incentivize local community-based organizations (CBOs) to refer and support customers in applying for the program. These CBOs would serve as the "Program Navigators" would be CBOs that register with PGE and would be compensated per successful customer application. Program Navigators would be trained to refer customers to other programs (e.g. LIHEAP, Energy Trust, etc.) in addition to IQBD and assist with the application process.

Pilot estimates: \$200k fund, \$75 per successful application. Program/pilot may be coordinated jointly with NW Natural.

Arrearages and IQBD



Approximately 4,000 disconnected households in 2023 were likely eligible for energy assistance but didn't participate

80% of disconnected households have arrears less than \$500

Arrearage Relief

Challenge:

Some customers do not address arrearages until an actual disconnection happens.

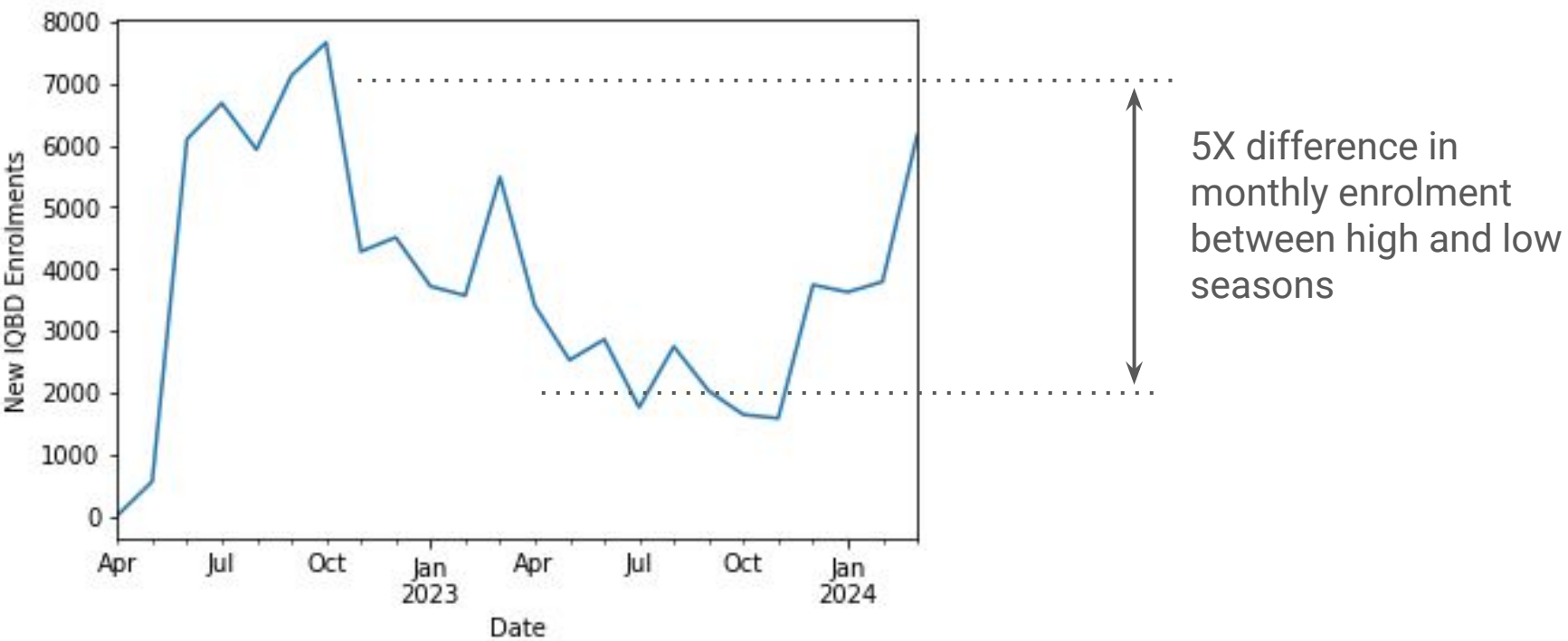
Recommendations:

Awareness of programs: Ensure that all late payment and disconnect notifications include information about IQBD, payment plans and payment extensions. Enhance communication about IQBD to customers at risk of disconnection.

Arrearage relief for program participants: Assess the feasibility and benefit vs. cost of a capped budget arrearage relief program. For simplicity, the program could be made available to IQBD participants with arrears and apply the customer's bill discount percent retroactively for arrears up to a limit (e.g. X% discount on first \$1,000 of arrears).

Pilot estimate: \$1M arrearage relief fund can likely serve 3,000-4,000 IQBD arrears customers.

Program Demand Cycle



Managing the Demand Cycle

Challenge:

Varying demand can strain program staff, overload customer service advisors and delay application processing.

Recommendations:

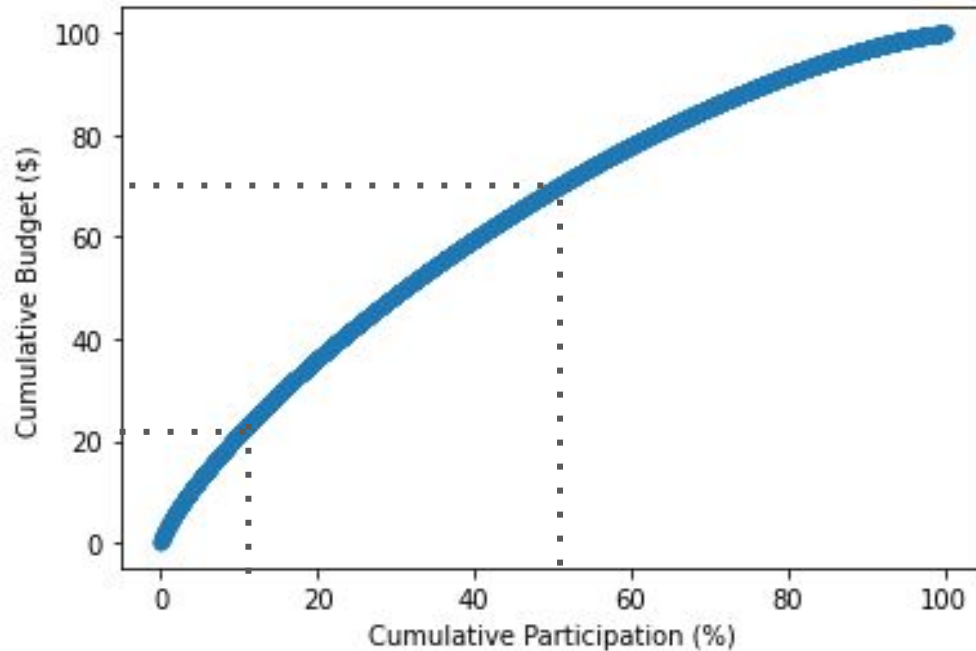
Reduce need for reapplication: Allow fixed income customers (34% of total) to reapply every 4-5 years instead of every two.

Communication timing: Biggest marketing pushes should be in September/October **before** high bill season. Include communication about projected winter bills including rate increases and energy efficiency tips to encourage customers to apply early.

Rate increase timing: Consider delaying annual rate increases to April of each year instead of January 1st to avoid bill shock from cold weather + rate increases.

Energy Efficiency

Program utilization



Within each income/discount tier:

Top 10% of participants by energy use utilize 21-22% of budget. Their average energy use is more than 2x the overall average energy use.

Top 50% of participants by energy use utilize 69-70% of budget. Their average energy use is 40% more than the overall average energy use.

Top 5 users will receive \$6,000-\$12,000 in discounts in 2024

Energy Efficiency Potential

Challenge:

High energy users overutilize program funds while the root cause of their high energy burden remains unaddressed. There are 47,000 low-income customers who would potentially be good candidates for energy efficiency measures, but existing low-income EE programs serve relatively few households.

Recommendations:

First step towards integrating energy efficiency with IQBD is to identify and understand the high use participants.

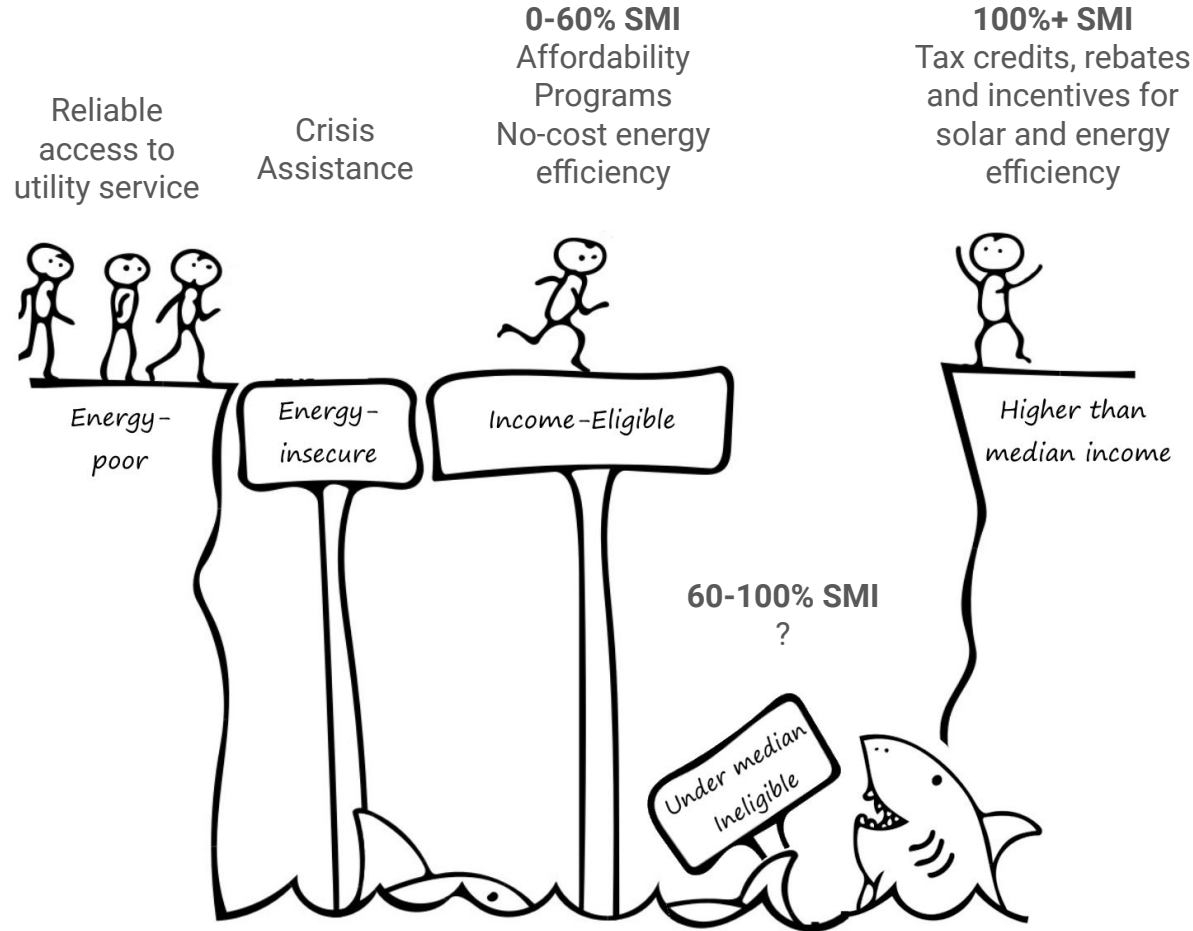
Energy use diagnostic: Develop a protocol for outbound customer service advisors to contact high-use households, perform a diagnostic of their hourly energy use, and collect data related to the drivers of high energy use. Estimated staff time: 15-20 minutes per successful outbound call.

Energy audit program: Establish a energy audit pilot program (through RFP) that focuses on the top 2,000 or so users in IQBD (\$1.5M approx. budget). Program should include walkthrough energy audit, ETO and EE credit referrals, direct install (LEDs, aerators). List of high priority homes should be provided to program implementer. This program can be designed to be cost-effective through realized savings in IQBD discounts.

Coordination with energy efficiency providers: Work with ETO and CAP agencies to target EE funds at low-income, high burden households.

The Energy Assistance Hole

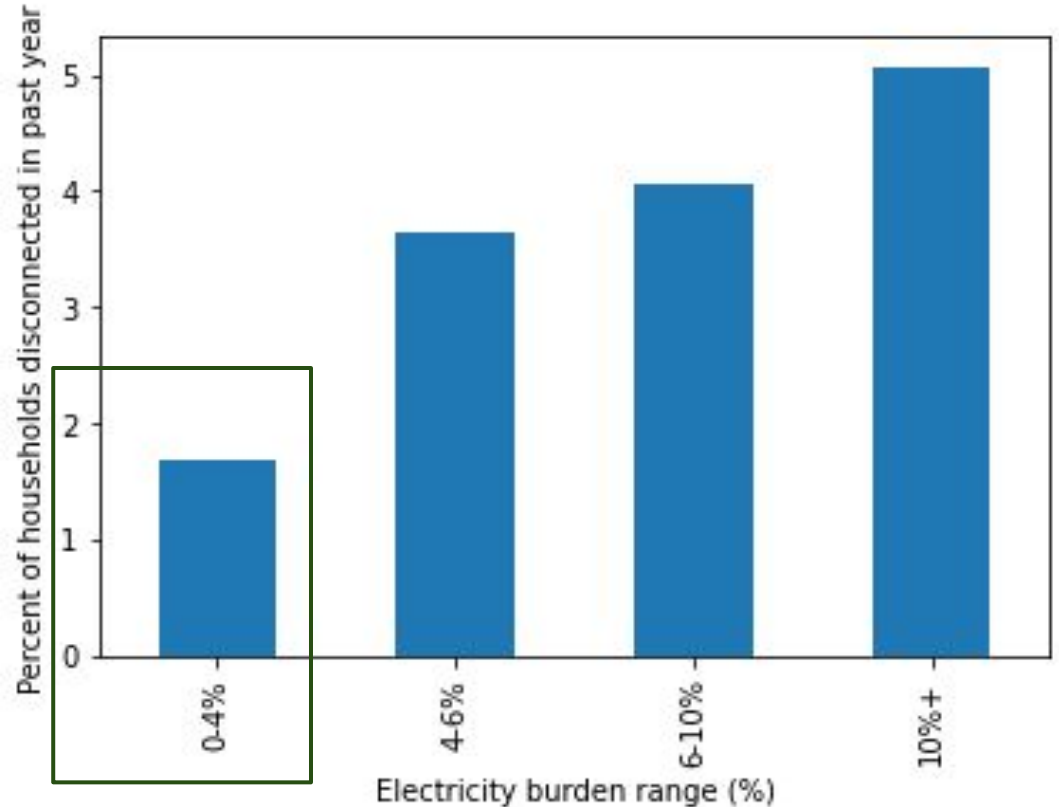
The Energy Assistance Hole



The Energy Assistance Hole

~22k non-low-income households with a high energy burden

~9k non-low-income households at risk of disconnection despite having a low energy burden



Addressing high-burden, program-ineligible households

Challenge:

There are households that are not eligible for existing programs but need assistance.

This includes households that:

- Are under the state median income, have a high energy burden, but are ineligible for assistance (~22,000 households)
- Constrain their energy use due to lack of affordability and lack of program access
- Are **A**sset **L**imited, **I**ncome **C**onstrained, **E**mployed
- Earn above the program income thresholds but under the Self Sufficiency Standard Income

Recommendations:

Difficult to solve through PGE because most customers in this category would benefit most from energy efficiency.

- Option 1: Energy assistance path: Allocate a budget for customers in an additional income tier (60-100% SMI) - perhaps a fixed one-time grant - equivalent to one average winter bill (\$150-200)
- Option 2: Work with Oregon Energy Fund on expanding eligibility for their program and increase annual donation
- Option 3: Work on expanding access to the Oregon on-bill financing program for energy efficiency - perhaps through waived or reduced interest and fees for income-eligible households

Main Takeaways - Energy Burden Assessment

- The IQBD program is operating effectively and is following energy assistance program best practices. There are no major recommended changes to the foundation of the program.
- In 2024, total energy assistance funding is expected to exceed 51% of the energy assistance need for PGE's customers and IQBD is growing quickly to fill that gap.
- Most recommendations in this assessment are auxiliary components that can be added to PGE's energy assistance portfolio to better improve bill affordability:
 - **Enrollment:** How to keep up the momentum of program enrollment as the IQBD program matures
 - **Arrearages:** How to best serve customers at risk of disconnection
 - **Energy Efficiency:** How can we leverage energy efficiency for sustained energy burden reduction
 - **Energy assistance hole:** How to best serve customers who have unaffordable bills but are ineligible for assistance programs
 - **Other:** How do we design more equitable rates, smooth the impact of rate increases, modulate the ups and downs of our programs and target assistance at customers who need it the most



Portland General Electric

121 SW Salmon Street • Portland, OR 97204
portlandgeneral.com

October 4, 2024

Via Electronic Filing

Public Utility Commission of Oregon
Attention: Filing Center
P.O. Box 1088
Salem, OR 97308-1088

Re: UM 2211 – In the Matter of Public Utility Commission of Oregon, Implementation of House Bill 2475
PGE Update on Energy Burden Assessment Recommendations

Dear Filing Center:

Portland General Electric Company (PGE) completed its 2024 Energy Burden Assessment (EBA), which was filed in UE 416 on June 28, 2024 (and also filed in UM 2211). This update reviews each EBA recommendation and provides a description of the actions PGE is prioritizing in the context of our approach to reduce customer energy burdens. This document complements PGE's recently filed proposal for a revised discount program in Schedule 18 as ADV 1645.

The purpose of this update is to summarize in one accessible document the elements of PGE's strategy to expand and improve bill assistance, bill reduction, and bill discount offerings in response to the EBA. The document provides an overview of all EBA recommendations and presents actions addressing three topic areas: neighborhood level screening, increasing IQBD participation, and updates to bill discount programs.

PGE will be taking steps to advance the elements of this approach as described throughout this document. In the meantime, we welcome feedback, which can be directed to me or to Sam Newman (sam.newman@pgn.com).

Sincerely,

/s/ Riley Peck

Riley Peck
Senior Manager, Regulatory Strategy

Table of Contents

1. Introduction.....	2
2. Background	2
2.1. Regulatory Context.....	2
2.2. EBA Approach.....	3
2.3. EBA Findings on Customer Energy Burden	3
3. Approach to PGE Affordability Program Updates	4
3.1. Strategy Overview.....	4
3.2. Engagement on PGE's Approach	4
3.3. PGE Actions on EBA Recommendations	5
4. Actions to Advance Neighborhood-Level Screening	8
4.1. Dimensions and Relevancy for Low Income Customers	8
4.2. Assessment of Gap for Middle Income Customers	9
4.3. Collaborative Approach.....	9
4.4. Plan of Action	11
5. Actions to Increase IQBD Participation.....	12
5.1. IQBD Outreach and Enrollment.....	12
5.2. Plan of Action	13
6. Actions to Updates to Bill Discount Programs	14
6.1. Assess Impact of Enhanced IQBD Tiers	14
6.2. Bill Discount Program for Income-Qualified Housing Residents	15
6.3. Post-Enrollment Verification	16
6.4. Plan of Action	18
7. Other EBA Recommendations	18
7.1. Re-enrollment of Fixed Income Customers	18
7.2. Customer Access via Program Navigators.....	19
7.3. Arrearage Management and Forgiveness.....	19
8. Next Steps	20

1. Introduction

PGE provides this update as a follow-up to the June 2024 completion of the Energy Burden Assessment (EBA, formerly Low Income Needs Assessment). Via the EBA, PGE undertook a data-based analysis of the energy burdens of its residential customers and the sufficiency of its efforts to support customer needs.¹ A core EBA goal was to inform follow-on efforts to improve affordability offerings, which are summarized in this update.

In this document, we focus on the following activities, which is informed by our EBA recommendations and additional feedback.

1. Increase reach of programs serving high-usage, high burden customers via neighborhood-level approach with Energy Trust of Oregon.
2. Increase participation in Income Qualified Bill Discount (IQBD) through an updated IQBD Outreach and Engagement Strategy which features focused outreach and inclusion of IQBD information in communications to likely eligible customers as well as adjustments to the timing of outreach and enrollment activities.
3. Recalibrate IQBD design to create a participation pathway for residents of master-metered low-income housing and a targeted approach to increase post-enrollment verification effectiveness.

2. Background

2.1. Regulatory Context

PGE's IQBD program was originally developed with input from stakeholders in line with principles identified by OPUC Staff in Docket UM 2211. PGE was the first Oregon utility to propose and launch a bill discount program; starting in April 2022, PGE's interim program offered discount levels of up to 25%.

Beginning in January 2024, PGE significantly expanded IQBD, adding two new income-based discount tiers and offering larger discounts to the most heavily burdened households. The new tiers (A and B) now provide additional bill discounts of 40% and 60% to customers with household incomes at or below 30% of the state median income (SMI), who previously qualified for a 25% discount. The additional granularity of tiers helps balance an increase in assistance to those who need it most while mitigating program costs that impact all customers. This IQBD tier change reflects a goal which remains a priority in this filing; PGE seeks to reduce low-income households' energy burden while balancing resulting cost shifts to other customers.

¹ The EBA was conducted pursuant to OPUC Order No. 23-386, adopting the sixth partial stipulation to PGE's 2024 rate review (UE 416): "Parties agree that PGE will complete a LINA study by June 30, 2024. Parties agree that PGE will submit a new discount program informed by the LINA report within 90 days of receiving the report."

OPUC's investigation of differential rates and programs continues in UM 2211. The current phase of UM 2211, initiated in April 2024, is considering additional changes to data reporting, rates, and programs, as well as consideration of actions to reduce arrearage accumulation and non-payment disconnections.

2.2. EBA Approach

PGE's EBA, prepared by Empower Dataworks, was completed in June 2024 and presented to IQBD external stakeholders on June 25, 2024, and to PGE's Community Benefits and Impacts Advisory Group (CBIAG) on June 26, 2024.²

Empower Dataworks has performed EBAs in over fifteen utility service areas (both gas and electric) using an approach that relies on collecting customer-level data, modeling missing attributes, then aggregating key metrics by geographic, demographic or building variables for analysis. EBA results inform program design, evaluate the performance of energy assistance programs and develop targeted marketing and outreach strategies.

2.3. EBA Findings on Customer Energy Burden

To assess energy burden, the EBA analyzed customers whose energy costs exceed a threshold of 6% of their annual income. Based on this framework, the total investment to address identified need for PGE customers is approximately \$155M in 2024 across all incomes, with \$133M in households that earn under 60% SMI. This funding amount, appropriately distributed, could bring all customer electricity bills below the high burden threshold (6% of income for electric heat and 4% for non-electric heat). The EBA found that total assistance available in 2024, as a combination of direct assistance and IQBD, accounted for \$68M, or 51% of the total need. PGE recognizes that the EBA considered burden levels in the context of 2024 rates (and incomes); updated analysis indicates that based on the rate increase currently sought via UE 435 and a 5% increase to income levels,³ assistance needs could increase to \$170M for all households and \$145M for low-income households. When considering increasing IQBD enrollment, available support is projected to grow to 52% of the 2025 low-income assistance need.

Per the EBA, PGE annual energy bills average approximately \$1,900/year (2024 projection) with an average annual consumption of 9,800 kWh, with approximately 46% of customers using electricity as a primary or secondary heating fuel. PGE customers have an average and median electricity burden of 4% and 1.8%, respectively; however, the median electricity burden of high energy burden households is 8.3%. Of approximately 800,000 identified

² PGE 2024 Energy Burden Assessment, Dockets UE 416 and UM 2211. June 28, 2024.

³ Oregon Department of Administrative Services, Office of Economic Analysis, Economic and Revenue Forecasts, June 2024 Forecast.

households, 140,000 were deemed to have a high energy burden, of which an estimated 118,000 would fall under 60% SMI.

3. Approach to PGE Affordability Program Updates

3.1. Strategy Overview

PGE seeks to improve affordability outcomes for residential customers through three pillars: bill discounts, bill assistance, and bill reduction. Regardless of a customer's income, PGE provides a number of programs and options that provide flexibility and customer bill management options. Payment Plans and Time Payment Agreements (TPA) can allow a customer more time to pay. Programs like Equal Pay and Preferred Due Date can help with budgeting and help customers control billing details and reduce the strain of higher seasonal bills. Online customers are also able to closely track their usage and sign up for several text and email alert options related to usage and payment reminders. PGE provides self-service options online, through the mobile app and via phone 24/7. For those that qualify, PGE provides bill assistance options and direct referrals to external agencies and the ability to enroll in a monthly bill discount via the web or through an advisor.

Since customers with lower income frequently have the highest energy burdens, PGE offers bill discounts through IQBD for eligible customers. Additionally, bill assistance programs provide direct financial support to eligible customers via utility and publicly funded programs including Oregon Energy Assistance Program (OEAP) and Low-Income Home Energy Assistance Program (LIHEAP) administered through partnerships with Community Action Partner (CAP) agencies. Finally, bill reduction efforts provide enhanced energy efficiency and weatherization programs to help customers manage their energy use.

PGE's review of potential actions to reduce customer energy burdens seeks to build on the existing suite of offerings, and to find solutions that effectively address the symptoms of high energy burdens, such as the efficiency of building stock and customer awareness of assistance programs. Collectively, these programs impose a significant cost that is borne by PGE's customer base generally. PGE's efforts to mitigate energy burden seek a balance between the benefits for participating customers and the overall costs, and in particular seek to maximize win-win opportunities to help participating customers and the overall system (such as through increased energy efficiency or reduced write off of uncollectible expenses).

3.2. Engagement on PGE's Approach

PGE engaged the CBIAG multiple times to test assumptions and inform its response to the EBA, including the following topics:

- May 2024: PGE presented context for the three affordability pillars
- June 2024: Empower Dataworks presented the findings from the EBA
- July 2024: Energy Trust of Oregon presented on the outcomes-based coordinated program delivery approach, known also as the "co-deployment framework"

- August 2024: PGE presented an overview of neighborhood-level screening and master meter bill discount actions.

PGE also provided an initial update on the EBA scope to a group of IQBD stakeholders in February 2024, which was followed by a presentation by Empower Dataworks in June 2024 on EBA findings. PGE then provided an update to these IQBD stakeholders in September 2024 in advance of this filing. PGE also reviewed and considered written comments filed by the Energy Justice Advocates on September 12, 2024 and appreciates the desire for improved understanding and the thoughtful consideration required to advance these issues.⁴ PGE anticipates further engagement with the CBIAG and other stakeholders going forward.

Feedback themes on the EBA included: one-size-fits-all approaches are ineffective, metrics are needed to determine the success of a neighborhood campaign with Energy Trust, concern about costs. Feedback themes on actions included: master-metered account IQBD eligibility should take inspiration from community solar, engagement approaches for neighborhood-level screening should differ for rural and urban customers, and campaign metrics should include both quantitative and qualitative measures of success. PGE agrees that the EBA affords an opportunity to evolve PGE's utility affordability programs to pursue universal goals with targeted or tailored measures, programs or interventions.

In response to feedback, PGE evaluated analogous programs like the Portland Water Bureau's separate meter code guide and engaged Community Energy Project to understand lessons learned from community solar program implementation as well as took inspiration from other utility programs to inform its master-meter proposal. Additionally, PGE leveraged Results Based Accountability (RBA) and Government Alliance on Race and Equity (GARE) frameworks to inform neighborhood-level screening and campaign metrics which it expects to evolve in engagement with UM 2211 stakeholders.

3.3. PGE Actions on EBA Recommendations

The EBA sets forth a variety of recommendations and provides an observed cost/complexity, impact/priority and timeline for each. In this filing, PGE responds to each recommendation, as summarized in Table 1.

⁴ Energy Justice Advocates' Comments on PGE's 2024 EBA, UM 2211, September 12, 2024.

Table 1: Summary of Recommendations

EBA Recommendation (EBA Cost/Complexity, Impact/Priority, Timeline)			PGE Action and Description
IQBD	1	Track energy assistance funding percent as an IQBD evaluation metric (L/L/2025)	Creation of new tracking metrics aligns with UM 2211 data workstream.
	2	Focus immediate IQBD outreach efforts on 0-15% SMI households (M/M/Q3-2024)	Yes. PGE's updated IQBD Outreach Plan is using data from the EBA to identify likely 0-15% SMI customers for outreach. (5.1)
	3	Communicate about IQBD program to customers at risk of disconnection (L/M/Q3-2024)	Yes. PGE is developing updated disconnection notices that provide information about IQBD that will be rolling out by January 2025 at the latest. (5.1)
	4	Assess impact of enhanced discounts for lower income tiers (H/H/Q3-2024)	PGE proposes a new discount offering for residents of master-metered affordable housing buildings, expanding the eligible population of potential low-income households. (6.2) Regarding increased discount percentages for existing IQBD customers, PGE has assessed impacts and declines to make changes in consideration of program costs and emphasis on expanding participation in the program rather than discounts for existing participants, which were increased in January 2024. (6.1)
	5	Reduce need for reapplication of fixed income IQBD participants (L/L/Q4-2024)	Not at this time. PGE has considered this recommendation but has concluded that IQBD has already been designed with a long enrollment period. PGE is emphasizing other actions to improve customer ease of reenrollment. (7.1)
	6	Implement a targeted post-enrollment verification protocol (M/M/2025)	Yes. PGE proposes tariff changes to move toward a focused PEV approach as suggested by the EBA. (6.4)
Program Portfolio	7	Assess impact of retroactive application of bill discount for customers in arrears (arrearage forgiveness) (L/M/Q4-2024)	Not at this time. PGE has assessed impacts and implications of the arrearage relief approach recommended by the EBA and believes other approaches offer more sustainable benefits to customers. Consideration of new arrearage programs aligns with the UM 2211 arrearage and disconnection workstream. (7.3)
	8	Initiate a Program Navigator fund for partner nonprofits to help	Not at this time. PGE believes Oregon's energy assistance framework does not position this model for success and awaits the award of the Portland Clean

		customers access programs (M/H/2025)	Energy Community Benefit Fund (PCEF) Strategic Program (SP3) which funds Customer Navigator Providers.” (7.2) However, PGE is rolling out a new self-service Program Selector tool that is intended to improve customers’ access to information about programs available to them.
	9	Adjust timing of marketing about the IQBD and other energy assistance programs (L/L/Q3-2024)	Yes. PGE’s updated IQBD Outreach Plan incorporates EBA recommendations regarding timing of marketing. (5.1)
	10	Implement an energy use diagnostic protocol for high users in energy assistance programs (L/M/2025-2026)	PGE will explore this approach within neighborhood-level screening advanced in collaboration with Energy Trust and other organizations. (4.3)
	11	Consider an energy audit program for high users in energy assistance programs (M/H/2025)	PGE will explore within neighborhood-level screening approach (4.3)
	12	Allocate energy efficiency funding to low-income, high-burden customers (H/H/2026+)	Yes, per neighborhood-level screening approach with Energy Trust of Oregon (4.3)
Other	13	Consult with advisory groups on potential solutions to help households under state median income but above energy assistance income thresholds (M/L/2025)	Yes. PGE is planning further consultation with advisory groups to explore additional strategies beyond PGE current services to increase support to energy-burdened customers in the 61-100% SMI range.
	14	Adjust timing of rate increases (L/M/2025)	Outside the scope of this update
	15	Consider revisiting fixed charge component of residential rate schedule (M/M/Next-GRC)	Outside the scope of this update

The following sections describe the outcomes of PGE’s assessment of the EBA recommendations and the actions PGE is pursuing.

4. Actions to Advance Neighborhood-Level Screening

4.1. Dimensions and Relevancy for Low Income Customers

The EBA presents a distribution of energy burden and energy efficiency across all low-income residential customers. This distribution is provided on a spectrum of high/low across those two dimensions. Approximately 39% of PGE residential customers are deemed high energy burden and low energy efficiency savings potential, 37% are deemed low energy burden and low energy efficiency savings potential, 22% are deemed high energy burden and high energy efficiency savings potential, and 3% are deemed low energy burden and high energy efficiency savings potential. "Potential" is a household's capacity to reduce consumption and save energy which may be satisfied in partnership with Energy Trust of Oregon which provides bill reduction programs and services in both energy efficiency (e.g., insulation, heat pumps) and renewable energy (e.g., solar, battery). Also, within these dimensions exist additional opportunities to determine relevancy, as a customer deemed high energy burden and low energy efficiency savings potential may be a renter experiencing barriers to energy efficiency program participation. The EBA provides that aligning programs, marketing and outreach in a manner that is relevant to a customer's needs is the "most cost-effective pathway to energy burden reduction."⁵ The EBA provides an ideal matching of customer need to the utility affordability program type:

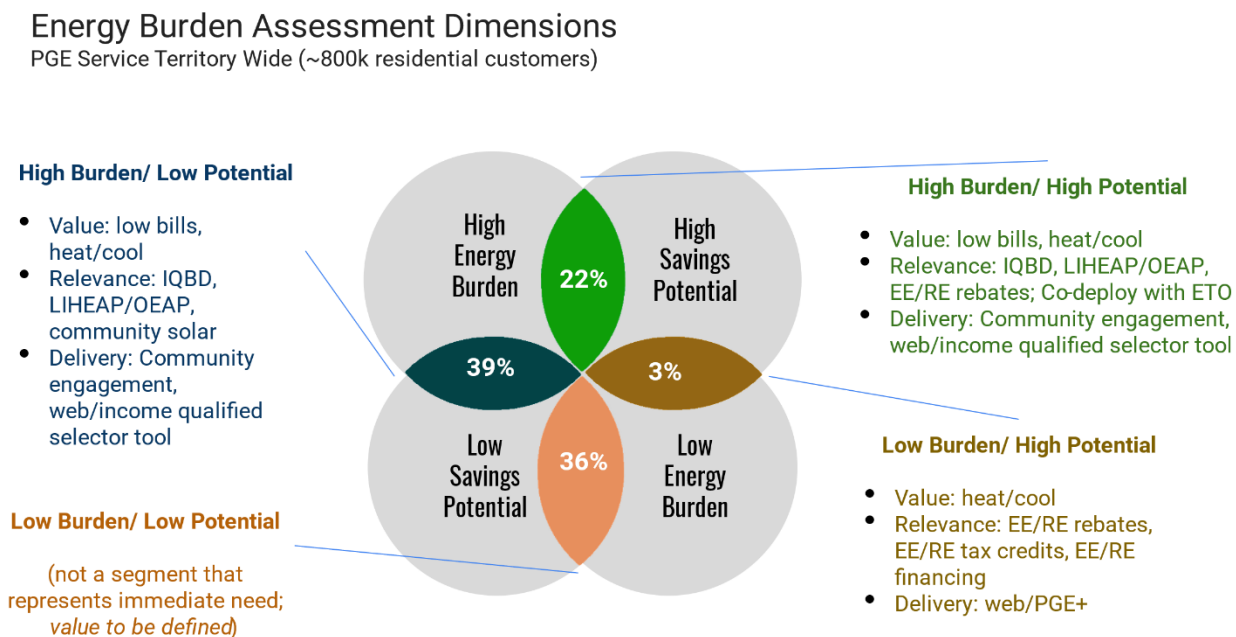
- Energy efficiency and weatherization programs should primarily serve **high burden, high potential** households
- Direct assistance programs should primarily serve **high burden, low potential** households
- Crisis/emergency programs should primarily serve **low burden, low potential** households
- Traditional energy efficiency programs with financing should serve **low burden, high potential** households

As summarized in Figure 1, each program type is unique and scaling to meet the identified need bears cost impacts and challenges that are unique to the design and delivery of that program type and the relevancy to that customer segment.⁶

⁵ PGE EBA at 19.

⁶ "Potential" is a household's capacity to reduce consumption/ save energy. Energy Trust provides bill reduction programs and services in both areas: Energy Efficiency (EE), e.g., insulation, heat pumps, and Renewable Energy (RE), e.g., solar, battery.

Figure 1. Distribution of energy burden and energy efficiency potential for PGE low-income customers



4.2. Assessment of Gap for Middle Income Customers

Separate and apart from the dimensions described above is the issue of how best to support customers who experience energy burden but are not eligible for low-income programs. This segment is referred to in the EBA as those with incomes that are 61-100% SMI. The EBA further describes this segment as asset limited, income constrained and employed (ALICE). PGE sees merit in engaging the estimated 9,000 non-low-income households at risk of disconnection to seek to address barriers to their participation in market rate energy efficiency and flexible load management programs. PGE looks forward to coordinating with Energy Trust of Oregon to address the needs of this group, including exploring on-bill financing to overcome barriers to participation, and invites feedback from stakeholders as to how to further meet their needs.

4.3. Collaborative Approach

Consistent with Oregon law and to maintain the privacy of customers, PGE cannot share household-level data.⁷ As a result, PGE plans to provide census group block (250-500 households) level data to support neighborhood-level screening and further its reach, and the reach of its partners, in delivering a portfolio of affordability programs and services to those for whom they are intended.

⁷ The applicable legal framework includes new consumer data privacy expectations adopted through Senate Bill 619 (2023), Oregon's Consumer Privacy Act.

In alignment with this approach, the EBA geographic analysis selected three neighborhoods – Powellhurst-Gilbert, Estacada and its outskirts, and the Gervais Area – for a combination of reasons:

- Flagged in this assessment as having high overall burden or high prevalence of energy burden
- Identified as having low access to existing programs
- Identified as vulnerable through the Department of Energy's Climate and Economic Justice Screening Tool (CEJST)

These neighborhoods also present high potential relative to the service territory. In other words, these geographies are representative of the 22% of customers that are both high burden and high potential, as provided in the table below.

Table 2. Neighborhood-Level Screening Data⁸

Neighborhood	Total Need	# House Holds	Burden/Potential Dimensions ¹	Building Types	% Electric Heat	% Burden	% Efficiency Potential	Rent/Own	Ave Annual kWh	Ave Annual Bill
Service Territory	\$155M	804k	HBLP 10% HBHP 7% LBHP 13% LBLP 70%	64% SF 33% MF 3% MH	46%	18%	20%	49% renters	9,843	1,911
DOE Justice ⁴⁰³	\$33.6M	107k	HBLP 17% HBHP 13% LBHP 12% LBLP 58%	46% SF 51% MF 3% MH	57%	30%	25%	65% renters	9,156	1,782
Powellhurst-Gilbert	\$2.84M	7,006	HBLP 19% HBHP 17% LBHP 16% LBLP 48%	55% SF 41% MF 3% MH	48%	36%	32%	60% renters	9,998	1,936
Estacada and its Outskirts	\$867k	2,559	HBLP 12% HBHP 13% LBHP 15% LBLP 60%	85% SF 13% MF 3% MH	63%	24%	28%	43% renters	13,590	2,536
Gervais Area	\$1.86M	4,446	HBLP 15% HBHP 16% LBHP 16% LBLP 53%	75% SF 10% MF 15% MH	47%	31%	32%	43% renters	13,168	2,512

⁸ Footnotes for Table 2: **(1)** High Burden Low Potential (HBLP), High Burden High Potential (HBHP), Low Burden High Potential (LBHP), Low Burden Low Potential (LBLP); **(3)** The DOE Climate and Energy Justice Screening Tool (CEJST) denotes the census tracts/blocks/groups that are disadvantaged and covered under the Inflation Reduction Act to deliver 40% of the overall benefits of climate and clean energy investments to those disadvantaged communities.

PGE sees value in pursuing affordability campaigns with Energy Trust of Oregon in the EBA-selected neighborhoods as a starting point. Doing so provides an opportunity to implement a coordinated program delivery approach with Energy Trust of Oregon to engage deep need customers, braid public sector dollars and realize learnings needed to replicate and scale into other geographies. The magnitude and impact of this approach should be evaluated comprehensively to inform what combination of programs and services represents a prudent starting point for participants and non-participants alike. PGE sees value in engaging stakeholders on UM 2211 in the selection of future neighborhoods and the development of performance measures for campaigns.

The magnitude and impact of proposals set forth below therefore must be evaluated comprehensively to inform what combination of programs and services represents a prudent starting point for participants and non-participants alike.

4.4. Plan of Action

As discussed with the CBIAG, PGE and Energy Trust of Oregon intend to implement coordinated program delivery through targeted campaigns informed by the EBA's neighborhood-level screening. This approach will be operationalized in the PGE 2025 utility-specific action plan with Energy Trust of Oregon.

Neighborhoods deemed high potential in the EBA present an opportunity to test targeted approaches to bill reduction, including those outlined in EBA recommendations 10, 11 and 12. PGE intends to work collaboratively with Energy Trust of Oregon to test an approach in two of the three neighborhoods highlighted in the EBA that:

- Pairs IQBD outreach with energy efficiency outreach,
- Focuses engagement on high usage customers (with average monthly consumption greater than 2,000 kWh),
- Develops and implements tools and protocols to audit or diagnose the sources of consumption for high users.

Though not feasible for every household, energy efficiency should be a primary way to reduce utility bills for customers by lowering their energy consumption. This is a proactive approach that can reduce program costs over time of other discount and assistance offerings, while helping customers remain current on their bills.

5. Actions to Increase IQBD Participation

5.1. IQBD Outreach and Enrollment

Bill discounts to low-income customers directly mitigate energy burden and may be linked to benefits in arrearage levels and disconnection rates as well. PGE launched IQBD in 2022 and expanded discount levels in January 2024. PGE continues to review the effectiveness and appropriateness of the discount levels and evaluate potential changes.

As enrollment in IQBD has grown, the total cost of the program has grown. IQBD is funded by PGE's customers, and the cost shift to nonparticipants has exceeded early forecasts. Unlike many bill discount programs implemented by other electric and gas utilities nationally, Oregon discount programs streamline enrollment by relying on a customer self-attestation, with limited post-enrollment verification conducted to inform future actions to refine enrollment processes. Maintaining trust and program integrity under such an approach is paramount and PGE is cautious of layering on additional changes to the program's discount levels without more information about enrollment trends and verification results.

Figure 2. IQBD Participation, 2022-2024

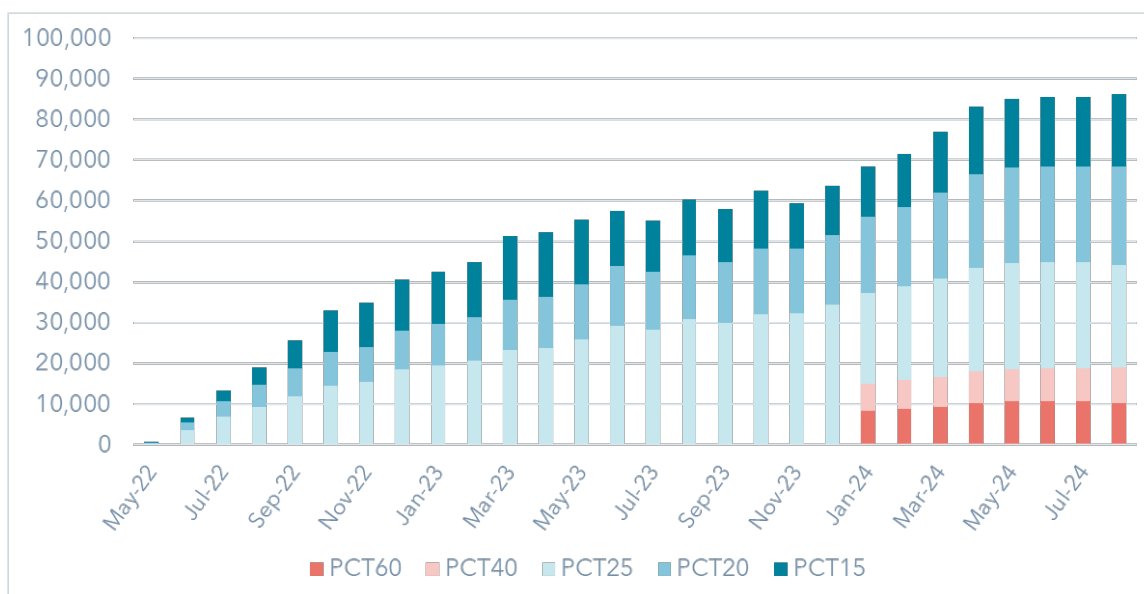


Figure 2 shows the number of IQBD participants by tier indicating that PGE's progress toward program maturity (defined in the EBA as 60-70% of the eligible population, which is estimated as about 125,000 customers)⁹ has slowed since approximately April 2024. This points to the importance of improvements to our outreach and engagement, as discussed previously.

⁹ The EBA estimates PGE has 118,000 low income, high burden households, which are the focus of IQBD. However, the total eligible low-income customer population is estimated in the EBA as 190,000.

Table 3. Re-enrollment status of IQBD customers with April-August 2024 expiration

Date Pulled	Customer Count	% of Customers with April-August 2024 Expiration Date
Recertified/Re-enrolled	15,670	74%
Ineligible/Unenrolled	343	2%
Inactive Service	1,261	6%
Expired & Removed	3,919	18%
Total	21,193	100%

Table 3 shows that a driver of PGE's reduced enrollment growth is customers cycling out of the program following their initial two-year enrollment. Customers may self-attest to re-start their two-year term at any point, and PGE makes multiple attempts to contact these customers prior to the end of their term. Customers may also re-attest to re-enroll at any point following their removal from the program.

Given the stage of maturity of the IQBD program, increasing participation is PGE's top near-term goal for IQBD. Effectively reaching income-eligible customers, who are often part of underserved communities, requires a strategic and nuanced approach that goes beyond traditional marketing methods. Therefore, the IQBD program's outreach plan must be rooted in a deep understanding of the unique needs, challenges, and trusted networks within these communities.

Within this integrated program outreach strategy, PGE is incorporating EBA recommendations to adjust the timing of marketing, focus immediate outreach efforts on 0-15% SMI households, and communicate about the IQBD program to customers at risk of disconnection.

To achieve goals to increase enrollment and decrease unenrollment, PGE seeks to increase program awareness and expand reach by leveraging strategic partnerships. PGE plans to leverage the EBA data to create targeted, personalized campaigns which will identify where IQBD, energy efficiency and/or PGE programs will best support customers. PGE has begun to leverage EBA data to inform 2024 Q3/Q4 outreach plans for IQBD in marketing that is rolling out to customers starting in October 2024.

5.2. Plan of Action

PGE's IQBD outreach strategy will include the following elements:

- For Q4 2024 outreach, PGE will seek to provide information to customers in advance of high-bill season, starting in October, consistent with the EBA recommendations.

- Starting in Q4 2024, PGE will be using EBA data to inform outreach to likely IQBD-eligible customers.
- Starting no later than January 2025, PGE will be adding information to its past due and disconnect notices (paper and paperless) notifying customers of the opportunity to apply for the IQBD program.

PGE will implement an integrated program outreach strategy that seeks to expand awareness among eligible customers and deepen connections with community organizations. The outreach strategy will include development of campaigns informed by EBA data which will be assessed for effectiveness and iterated as appropriate. PGE's outreach will emphasize strengthening partnerships and identify and prioritize outreach events that provide opportunities to share program information with potential participants.

6. Actions to Updates to Bill Discount Programs

This year, PGE has added two new discount tiers to IQBD for the most heavily burdened households, conducted the first annual post-enrollment verification (PEV) process, and began the ongoing effort of re-enrolling IQBD participants who reach the end of their two-year subscription period. The additional granularity of tiers helps balance an increase in assistance to those who need it most while mitigating program costs that impact all customers. The PEV process supports the desire for program integrity while ensuring access via self-attestation and the re-enrollment process is increasingly automated. Rather than a broad reconsideration of the program design, the EBA recommended assessment of the impact of enhanced discounts for low-income tiers, in addition to other focused actions addressing enrollment, arrearages and other topics.

6.1. Assess Impact of Enhanced IQBD Tiers

The EBA, as further evaluated by PGE analysis, considered the effectiveness of IQBD in mitigating the energy burden of participants. The EBA found that IQBD is operating effectively and is following energy assistance program best practices.¹⁰ At program maturity (year 5+), best practice is to target at least 60-70% of the need available as program funding - with additional projected participation, IQBD should hit this target in 2025. Once this target is reached, per the EBA, participation usually slows down and focus shifts to program optimization and targeted outreach. The EBA did not recommend changes to the program approach.

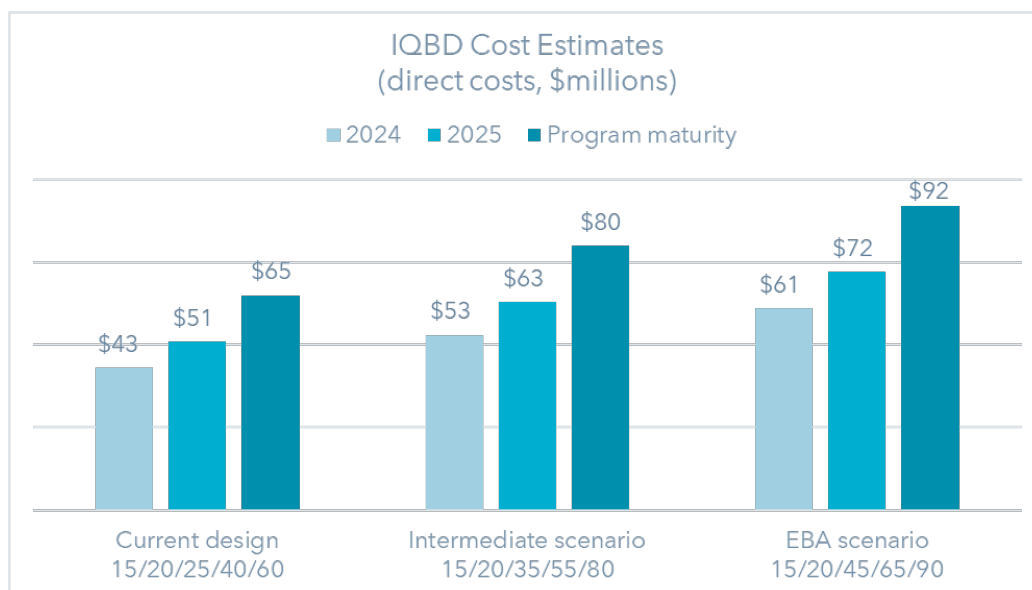
Within IQBD, the EBA found that "current discount rates are suitable" for customers in the 31-45% SMI band (20% discount) and 46-60% SMI band (15% discount) tiers. For the lower income participants, the EBA found that additional assistance would be needed to bring customers below the energy burden threshold. While not explicitly recommending a higher discount for

¹⁰ EBA, p 28.

the lowest income tier, the EBA did recommend that PGE continue to assess the feasibility and benefit of enhanced discounts for lower-income tiers versus the costs.

PGE compared the current state to two discount increase alternatives in its analysis. These designs toggle the discount level for customers earning less than 30% SMI while holding other discount levels constant, as suggested by the EBA. The 2025 estimates assume IQBD enrollment grows to 105,000 by year-end and that residential rates increase 7% compared to 2024. Cost estimates at program maturity assume a static enrollment of 124,000 customers, reflecting 65% of the 190,000 eligible customers identified in PGE's 2024 EBA, and do not include further assumptions about rate or income changes.

Figure 3. Cost estimates for IQBD in alternative scenarios



In considering potential changes, PGE acknowledges feedback through its engagement and regulatory processes that customers are facing increasing bills and low-income customers need additional financial support. Several parties have directly urged PGE to increase discount levels. Additionally, PGE has received feedback from some non-residential customers and residential customers outside of IQBD income eligibility, shared through direct feedback and focus groups, that their contribution to IQBD costs impacts their affordability. In consideration of these positions, the costs of an increase in discount levels, pursuit of other strategies to increase IQBD's reach, and the Energy Justice Advocates' recommendation for continued discussion and analysis, PGE is not proposing an increase to the IQBD tiers.

6.2. Bill Discount Program for Income-Qualified Housing Residents

When PGE launched IQBD, the program design focused on households that are PGE customers, who have a PGE meter and receive monthly bills. During a previous low-income program workshop, the idea of extending discounts to master-metered accounts was

discussed with PGE and other utilities. Unlike standard metering in multi-family residential buildings, master meters measure the entire building's electricity usage and result in PGE having a billing relationship only with the building owner or landlord. In such circumstances, individual tenants are not customers and have no relationship with PGE, and hence are not currently eligible for IQBD. While not a direct EBA recommendation, PGE has evaluated the potential to extend IQBD to select master-metered buildings. As a new program area, this market offers potential to support additional customers but also challenges with verification that benefits reach intended recipients.

PGE sees potential to expand IQBD to master-metered buildings certified as low-income by Oregon Housing and Community Services (OHCS). Residents of such buildings are disproportionately likely to be seniors, persons with disabilities, and on fixed incomes. By partnering with landlords and including these accounts in affordability programs, utilities can extend benefits to numerous households that might otherwise be difficult to reach individually. PGE has engaged OHCS to gain access to a list of buildings that qualify as "low-income service provider" as defined in OAR 330-240-0070(1).

PGE has done a preliminary review of the metering associated with likely OHCS-certified buildings within our service area and identified approximately 35 buildings that may qualify for assistance, containing approximately 3,115 housing units. PGE's implementation of this program would leverage learnings from a similar program offered through Pacific Power's Low-Income Discount tariff. PGE proposes to offer a 25% discount to eligible buildings that certify discounts will be passed on to occupants as a condition of enrollment. PGE will support its tariff update with new documentation and application processes that address enrollment, benefit verification for tenants, and initial outreach. Landlords will need to reapply and provide verification prior to re-enrollment.

6.3. Post-Enrollment Verification

The PEV process seeks to ensure that program access via self-attestation and an increasingly automated re-enrollment process can be maintained along with high program integrity. Ease of enrollment is central to the IQBD program design. No formal documentation is required to enroll in the program so verifying the income of a subset of participating customers in an accurate, timely and cost-efficient manner is an important component of the program. If done effectively and carefully, post-enrollment verification can ensure that energy-burdened customers receive needed assistance, while keeping total program costs lower for all customers. From inception, PGE implemented a PEV process in which 3% of program participants are randomly selected to provide verification of their annual household income and household size. The PEV process is meant to validate that these customers qualify for the program and are enrolled in the appropriate discount level. In addition to the 3% of IQBD participants selected for PEV, an additional 20% of IQBD participants are already income verified through the automatic agency enrollment process due to their verified eligibility to

receive assistance through OHCS-administered bill assistance programs. In combination these IQBD program designs provide verification of 20-23% of participants.

PGE implemented its first PEV process at the beginning of May 2024 in partnership with a third-party, Oregon Energy Fund (OEF). Through a selection process, facilitated by OEF, 809 IQBD participants were randomly selected to complete PEV. PGE sent an initial letter or email to the selected IQBD participants on May 24, 2024, asking them to provide income verification documentation to OEF within thirty days. PGE sent a second letter or email on July 18, 2024, asking those who had not already responded to provide income documentation to OEF within seven days. Throughout the month of August 2024, OEF made follow-up phone calls to those who had not already responded to the two letters. PGE completed its first PEV process in September 2024, with a 51% response rate.

Self-attestation by itself is not commonly used in government anti-poverty programs, such as LIHEAP, OEAP, SNAP, subsidized housing, and TANF programs in Oregon (the emergency relief programs implemented by Oregon utilities during the Covid-19 pandemic are an exception). More often, self-attestation is combined with other measures, such as geographic eligibility that provide at least some evidence to support the attestation. In other cases, self-attestation is used as a temporary measure at the time of enrollment, subsequently backed up by traditional proofs that must be supplied within a certain time period.

The EBA recommends a targeted PEV approach that leverages propensity scores focused on home value, multiple accounts/seasonal or secondary homes, estimated income range, or other factors. Energy Justice Advocates also express support for the more focused approach, with the provision that PGE work with advocates to further explore potentially misleading indicators.¹¹ PGE also recommends development of additional factors that provide the opportunity for PGE customer service advisors to use discretion within carefully established parameters to identify applicants acting suspiciously. While these cases are few and far between, PGE currently has no recourse to handle suspicious cases, such as callers that call back from the same phone number a day after providing non-eligible income information with a new income level. Additionally, a more focused post-enrollment verification can lead to significant efficiency gains, both in terms of program administration and overall effectiveness, while allowing PGE maintain the basic principle of eligibility based solely on self-attestation.

PGE is exploring a focused approach to PEV that would apply weighting factors within a selection process conducted by a third party. The EBA recommends further consultation and design with IQBD stakeholders to find ways to perform more targeted verifications to increase the effectiveness of enrollment verification. We agree. The process of developing screening

¹¹ Energy Justice Advocates comments at 3.

criteria that respect the dignity of our customers is highly nuanced. We look forward to engaging both the CBIAG and other interested stakeholders in development of this approach.

6.4. Plan of Action

PGE is proposing the master-meter and PEV changes via a tariff filing that will seek OPUC approval of an expanded and revised Schedule 18. Specifically, the tariff proposal:

- Inserts new provisions that extend a 25% bill discount to master-metered, OHCS-certified buildings, provided the building owner commits to pass discounts through to building occupants. Following tariff approval, PGE will work to conduct outreach and enroll these buildings.
- Removes the requirement for “randomized” PEV and give PGE discretion to select a PEV list in consideration of demographic and operational factors. Other key elements of PEV – including the 3% scale and exemption for energy assistance recipients – will remain unchanged. These changes will influence the design of the 2025 PEV cycle.

7. Other EBA Recommendations

As summarized in Table 1, PGE is not pursuing the following EBA recommendations at this time.

7.1. Re-enrollment of Fixed Income Customers

To reduce administrative workload of IQBD and related application delays, the EBA recommends, and the Energy Justice Advocates uplift, reducing the need of reapplication of fixed income participants, who represent 34% of the total IQBD population. PGE considered this recommendation, but notes that its staff have ably kept up with reenrollment application processing as reenrollment volume has increased in 2024. PGE is concerned that the program is not yet mature enough to give PGE confidence in the appropriateness of enrolling a participant for a four- or five-year enrollment period based on a single income self-attestation.

PGE has taken other actions to make reenrollment simple for participants and program staff and to ensure customers are aware when their two-year term is ending. The recertification process is streamlined to require only a few minutes via web or phone every two years. Multiple calls to action are made to communicate ahead of the expiration date, 60 and 30 days prior, as well as after expiration with additional outreach to medical certificate customers.

IQBD’s two-year term is already longer than other programs where certification is required for eligibility such as Medical Certificate Program, LIHEAP, OEAP, SNAP, Subsidized Housing, and TANF. PGE proposes to maintain the current two-year term for all IQBD participants but will continue to monitor all customers removed from the program and seek to understand the contributing factors.

7.2. Customer Access via Program Navigators

PGE's service territory has a myriad of cultures and ethnicities, a variety of economic backgrounds, and urban and rural households. The EBA notes that PGE cannot feasibly become an expert in outreach to every community within its service area and recommends PGE establish a Program Navigator Fund to incent local community-based organizations to refer and support customers in applying for assistance programs. The Energy Justice Advocates uplift a modified version of this recommendation, in which nonprofits are compensated based on time rather than completed applications.

Oregon has a complex landscape of public purpose charge disbursement and low-income assistance funding which supports over \$235M in weatherization upgrades and electric bill assistance. This landscape includes Energy Conservation Helping Oregonians and Oregon Energy Assistance Program funds for income qualified households and delivered via Community Action Agencies, as well as Energy Trust of Oregon Community Partner Funding programs, which provide a pathway for participating community-based organizations to access funds for clients' energy upgrades and audits. Because demand for energy assistance programs frequently outstrip supply and allocations for many programs are not reservable, program navigators would face challenges in enrolling customers efficiently which are unique to Oregon's assistance framework.

At present PGE partners with both OHCS via Community Action Agencies and Energy Trust to provide program navigation services. Some entities provide outreach exclusively, others implement, and still others provide both. Additionally, the PCEF SP3 will provide energy upgrades in over 3,000 homes over five years and fund Customer Navigator Providers to conduct culturally specific outreach to identify eligible customers and provide essential support, education, and guidance to low-income households engaged in program home energy retrofit projects. PGE is interested to learn from this approach, but declines to initiate a new and potentially duplicative offering with significant staffing costs and significant challenges to success. However, as an immediate step, PGE is in the planning stages of developing an online tool for customers to help raise awareness of options and reduce barriers to access programs and tools to help manage with bill management. We estimate that this tool will be available in the second half of 2025.

7.3. Arrearage Management and Forgiveness

PGE is closely tracking the relationship between energy burden, arrearage balances, and disconnection for non-payment. A goal in providing a broad-based discount program via IQBD was to mitigate energy burden on the front end to decrease arrearage and disconnection outcomes. IQBD is still a comparatively new program, especially in its current, increased, design, and as a result PGE believes it is premature to make conclusions on its effectiveness at addressing arrearage and disconnection levels.

The EBA put forward a recommendation for PGE to assess the impact of arrearage relief, via a retroactive application of a bill discount for IQBD customers in arrears. The EBA notes the challenge in designing arrearage relief programs because “some customers do not address arrearages until an actual disconnection happens.” Customers that qualify for PGE’s IQBD program yet still struggle to pay their bill are eligible to receive a variety of incentives to help them with their bill, including arrearage amounts. In addition to PGE’s customer-funded IQBD program, there is also federal-funded LIHEAP assistance and state-funded (through PGE customers) OEAP assistance. Adding additional arrearage forgiveness as a retroactive application of the IQBD discount level is both insufficient to be meaningful for many customers (for example, a Tier D customer with a \$500 arrears balance would continue to have a \$400 balance following application of the 20% discount) and creates a challenging precedent in terms of a one-time forgiveness that does not incent efficiency or bill pay behavior. For these reasons, PGE does not believe a retroactive application of a bill discount is the right approach for an AMP.

As an alternative, PGE does see benefit in exploring a payment matching approach to customer arrearages. A payment matching program will help customers establish positive payment behavior, even if they can’t pay their full balance each month. If a customer is not able to make a payment at all, it will encourage customers to seek energy assistance sooner in order to receive a match from PGE. A payment matching approach requires some contribution on the eligible customer’s end which will help to keep the cost of the program more manageable for all customers.

PGE has assessed the EBA recommendation but does not seek approval of a specific program at this time. PGE recognizes this topic is a high priority to Staff, CUB and Energy Justice Advocates, and we hope our benchmarking and scoping work can contribute to consideration in UM 2211. A more robust stakeholder process through that venue will contribute to PGE being able to bring forward a concrete proposal in the near future.

8. Next Steps

PGE looks forward to further review of the progress and effectiveness of these actions through the UM 2211 docket and direct engagement with the CBIAG and other stakeholders.

**Portland General Electric**

121 SW Salmon Street • Portland, OR 97204
portlandgeneral.com

August 20, 2024

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

**RE: RE 195 PGE Schedule 18 Income Qualified Bill Discount Reporting
(May 1, 2024 – July 31, 2024)**

Pursuant to Commission Order No. 22-116 in Docket No. UE 403, Portland General Electric Company (PGE) hereby submits the quarterly report on Schedule 18 Income Qualified Bill Discount (IQBD) detailing monthly data on enrollment, bills, arrears, energy assistance and demographics. In addition, this report provides two additional data points—total and average discount amounts provided by month, tier, and zip code requested by OPUC Staff to better facilitate analysis across utility programs.

As of July 2024, net enrollment has been relatively flat in PGE's IQBD program.

Detailed data reporting for PGE's IQBD program is provided in Attachment A. It includes the following data points for the reporting period May 1, 2024 – July 31, 2024:

- By discount month, tier, and zip code
 - Newly enrolled customer counts
 - Count of customers receiving a bill discount
 - Total discount amounts provided
 - Average discount amounts provided
- By discount month and tier
 - Newly enrolled customer counts
 - Currently enrolled customer counts
 - Count of customers receiving a bill discount
 - Total discount amount
 - Average discount amount
 - Average bill with discount
 - Average bill pre-discount
 - Average residential bill
 - Customers in arrears, by oldest window
 - Average arrears, by window
 - Total arrears, by window
 - Recipients of Energy Assistance in past 12 months

RE 195 PGE Schedule 18 Income Qualified Bill Discount Reporting
(May 1, 2024 – July 31, 2024)
Page 2

- Statistics for all enrollments, as of July 31, 2024
 - Housing type
 - Household size
 - Fixed income
 - Preferred language
 - Race/Ethnicity

Should you have any questions or comments regarding this filing, please contact Ashleigh Keene at ashleigh.keene@pgn.com Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com

Sincerely,

\s\ Robert Macfarlane

Robert Macfarlane
Manager, Pricing & Tariffs

Enclosure

RE 195
PGE Schedule 18 Income Qualified Bill Discount Reporting
(May 1, 2024 – July 31, 2024)

Attachment A

Also provided separately in electronic format



e-FILING REPORT COVER SHEET

COMPANY NAME: Portland General Electric Company

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? ☒ No ☐ Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: ☒ RE (Electric) ☐ RG (Gas) ☐ RW (Water) ☐ RT (Telecommunications)
☐ RO (Other, for example, industry safety information)

Did you previously file a similar report? ☐ No ☒ Yes, report docket number: RE 195

Report is required by: ☐ OAR
☐ Statute
☒ Order 22-116

Note: A one-time submission required by an order is a compliance filing and not a report (file compliance in the applicable docket)

☐ Other
(For example, federal regulations, or requested by Staff)

Is this report associated with a specific docket/case? ☐ No ☒ Yes, docket number: UE 403

List Key Words for this report. We use these to improve search results.

PGE Schedule 18 Income Qualified Bill Discount Reporting

Send the completed Cover Sheet and the Report in an email addressed to PUC.FilingCenter@state.or.us

Send confidential information, voluminous reports, or energy utility Results of Operations Reports to PUC Filing Center, PO Box 1088, Salem, OR 97308-1088 or by delivery service to 201 High Street SE Suite 100, Salem, OR 97301.

Newly Enrolled
Currently Enrolled
Received Discount ***

Total discount amount (\$)
Average discount amount (\$)
Average bill with discount (\$)
Average bill pre-discount (\$)
Average residential bill (\$)

Customers in arrears (%) *
31-60 days
61-90 days
91+ days

Average arrears (\$)
31-60 days
61-90 days
91+ days

Total arrears (\$) **
31-60 days
61-90 days
91+ days

Recipients of Energy Asst.
in past 12-months (%)

Billing Information for All Enrolled Customers															
May-24					Jun-24					Jul-24					
60%	40%	25%	20%	15%	60%	40%	25%	20%	15%	60%	40%	25%	20%	15%	
453	202	514	498	389	336	166	462	443	391	335	145	479	496	429	61,716
10,796	8,032	25,694	23,435	17,023	11,030	8,057	25,717	23,570	17,038	11,059	8,069	25,503	23,466	16,927	11,053
10,672	8,096	26,019	23,525	16,989	10,276	7,708	24,646	22,248	16,060	11,053	8,136	25,891	23,643	17,018	11,053
\$834,411	\$474,891	\$847,421	\$645,110	\$346,694	\$716,838	\$408,258	\$712,437	\$539,246	\$291,347	\$939,531	\$521,221	\$902,992	\$706,643	\$388,936	\$939,531
\$78	\$59	\$33	\$27	\$20	\$70	\$53	\$29	\$24	\$18	\$85	\$64	\$35	\$30	\$23	\$85
\$61	\$99	\$108	\$120	\$127	\$54	\$89	\$96	\$107	\$113	\$66	\$108	\$116	\$131	\$142	\$66
\$139	\$157	\$140	\$148	\$147	\$124	\$142	\$125	\$131	\$131	\$151	\$172	\$150	\$161	\$165	\$151
\$127					\$123					\$154					\$154
17%	19%	16%	15%	15%	17%	18%	15%	15%	15%	14%	16%	14%	13%	13%	14%
9%	9%	7%	7%	7%	11%	11%	8%	8%	8%	11%	10%	8%	8%	7%	11%
7%	5%	3%	2%	2%	8%	6%	4%	3%	2%	9%	7%	4%	3%	3%	9%
\$102	\$141	\$142	\$156	\$160	\$91	\$129	\$132	\$140	\$147	\$84	\$114	\$118	\$127	\$130	\$84
\$43	\$50	\$45	\$45	\$40	\$43	\$52	\$44	\$45	\$39	\$46	\$57	\$46	\$46	\$45	\$46
\$43	\$44	\$28	\$24	\$24	\$35	\$38	\$30	\$24	\$25	\$41	\$51	\$32	\$30	\$21	\$41
\$204,483	\$222,224	\$571,531	\$540,112	\$407,343	\$172,953	\$177,102	\$480,745	\$437,785	\$350,629	\$139,979	\$146,956	\$405,408	\$379,917	\$276,328	\$139,979
\$102,012	\$102,967	\$294,481	\$272,307	\$192,918	\$110,049	\$118,724	\$299,607	\$273,435	\$202,783	\$104,934	\$98,123	\$268,230	\$257,835	\$185,050	\$104,934
\$61,131	\$54,409	\$100,342	\$78,660	\$45,544	\$52,325	\$50,516	\$100,956	\$76,070	\$46,391	\$61,176	\$55,322	\$98,500	\$70,927	\$41,684	\$61,176
43%	45%	37%	24%	17%	42%	45%	37%	24%	16%	43%	46%	24%	24%	15%	43%

* A single customer is counted only in the arrears window that contains their longest arrears; however, the arrearages for a single customer are broken out into the windows that reflect those individual dollars. For example, a customer with \$50 that is 40 days past due and \$20 that is 70 days past due would counted as a customer who is 61-90 days past due but \$50 of their arrears amount is reflected in the 31-60 days average/total statistics and \$20 of their arrears amount is reflected in the 61-90 days average/total statistics.

** Total arrears dollars reflect increases in customer enrollment month over month in addition to any increase in per customer past due balances.

*** We estimate that roughly 4k customers received an additional bill in late May or early July and thus don't appear in June numbers for having received a discount. We recommend using currently enrolled as a reasonable proxy for customers receiving discounts given that current (net) enrollments have remained relatively flat across this reporting period.

Newly Enrolled																				
May-24							Jun-24							Jul-24						
Zip Code	Total	60%	40%	25%	20%	15%	Zip Code	Total	60%	40%	25%	20%	15%	Zip Code	Total	60%	40%	25%	20%	15%
Total	2,056	453	202	514	498	389	Total	1,798	336	166	462	443	391	Total	1,884	335	145	479	496	429
97002	6	0	1	1	2	2	97002	2	1	0	0	1	0	97002	4	0	0	0	2	2
97003	33	11	4	6	8	4	97003	30	6	0	7	7	10	97003	33	9	1	10	9	4
97004	5	1	0	0	3	1	97004	0	0	0	0	0	0	97004	1	0	0	1	0	0
97005	46	13	8	11	11	3	97005	36	9	5	7	5	10	97005	31	8	1	9	8	5
97006	57	19	5	8	14	11	97006	48	14	3	14	9	8	97006	48	14	3	5	11	15
97007	23	5	4	3	2	9	97007	27	8	4	6	4	5	97007	31	8	2	9	6	6
97008	28	7	6	4	7	4	97008	33	6	3	7	10	7	97008	31	6	0	6	9	10
97009	6	0	1	0	3	2	97009	9	0	3	1	2	3	97009	7	1	0	0	5	1
97011	1	0	0	1	0	0	97011	1	0	0	0	1	0	97011	2	1	0	0	1	0
97013	1	0	0	1	0	0	97013	4	0	0	1	2	1	97013	2	0	1	0	1	0
97015	38	11	4	6	9	8	97015	17	2	0	3	5	7	97015	23	5	4	3	6	5
97016	0	0	0	0	0	0	97016	0	0	0	0	0	0	97016	0	0	0	0	0	0
97017	2	0	0	0	0	2	97017	0	0	0	0	0	0	97017	1	0	0	0	1	0
97018	0	0	0	0	0	0	97018	0	0	0	0	0	0	97018	0	0	0	0	0	0
97019	2	0	0	1	1	0	97019	2	0	1	0	0	1	97019	1	0	0	0	1	0
97020	0	0	0	0	0	0	97020	0	0	0	0	0	0	97020	4	0	0	0	2	2
97022	3	1	0	1	1	0	97022	1	0	0	1	0	0	97022	2	0	0	0	2	0
97023	14	4	2	4	0	4	97023	9	1	1	2	3	2	97023	6	1	0	1	4	0
97024	12	3	1	1	6	1	97024	22	3	0	7	6	6	97024	25	3	2	7	7	6
97026	4	0	1	0	3	0	97026	4	1	0	0	2	1	97026	4	2	0	0	0	2
97027	13	2	4	1	1	5	97027	13	2	1	1	6	3	97027	12	3	0	4	5	0
97028	0	0	0	0	0	0	97028	0	0	0	0	0	0	97028	0	0	0	0	0	0
97030	80	18	9	18	16	19	97030	64	18	2	13	19	12	97030	47	5	6	10	18	8
97032	4	1	0	0	2	1	97032	0	0	0	0	0	0	97032	3	0	1	1	0	1
97034	2	0	0	1	1	0	97034	2	0	0	1	1	0	97034	4	2	1	0	0	1
97035	13	0	0	3	5	5	97035	12	4	0	1	2	5	97035	8	1	0	4	2	1
97036	0	0	0	0	0	0	97036	1	0	0	0	1	0	97036	2	0	0	1	1	0
97038	21	7	4	2	3	5	97038	11	2	0	3	1	5	97038	12	4	0	2	4	2
97041	0	0	0	0	0	0	97041	0	0	0	0	0	0	97041	0	0	0	0	0	0
97042	1	0	0	1	0	0	97042	1	0	0	1	0	0	97042	0	0	0	0	0	0
97045	41	8	6	11	7	9	97045	32	3	5	9	8	7	97045	29	4	3	4	5	13
97048	0	0	0	0	0	0	97048	0	0	0	0	0	0	97048	0	0	0	0	0	0
97049	2	0	0	0	1	1	97049	1	0	0	1	0	0	97049	1	0	0	1	0	0
97051	0	0	0	0	0	0	97051	0	0	0	0	0	0	97051	0	0	0	0	0	0
97055	13	3	1	4	3	2	97055	21	2	1	4	6	8	97055	13	2	0	3	2	6
97056	0	0	0	0	0	0	97056	0	0	0	0	0	0	97056	0	0	0	0	0	0
97060	21	3	2	4	10	2	97060	9	2	0	2	3	2	97060	18	3	2	4	6	3
97062	26	7	0	3	7	9	97062	24	5	2	5	7	5	97062	22	1	1	1	8	11
97063	0	0	0	0	0	0	97063	0	0	0	0	0	0	97063	0	0	0	0	0	0
97067	3	0	1	0	1	1	97067	1	0	0	0	0	1	97067	1	0	1	0	0	0
97068	7	3	0	1	2	1	97068	5	1	0	0	1	3	97068	7	0	0	3	3	1
97070	23	3	5	4	8	3	97070	20	3	1	6	6	4	97070	20	0	2	5	6	7
97071	28	8	3	3	8	6	97071	21	1	2	6	9	3	97071	25	5	1	8	5	6
97075	0	0	0	0	0	0	97075	0	0	0	0	0	0	97075	0	0	0	0	0	0
97078	26	6	3	6	6	5	97078	35	5	3	14	10	3	97078	21	5	1	4	8	3
97079	0	0	0	0	0	0	97079	0	0	0	0	0	0	97079	0	0	0	0	0	0
97080	39	3	4	11	12	9	97080	39	9	5	8	8	9	97080	43	7	2	9	12	13
97086	33	11	2	6	11	3	97086	26	4	4	8	4	6	97086	35	8	5	7	11	4
97089	4	1	0	1	2	0	97089	2	0	0	1	0	1	97089	3	0	0	1	2	0
97101	0	0	0	0	0	0	97101	0	0	0	0	0	0	97101	2	0	0	0	1	1
97106	3	1	1	1	0	0	97106	1	0	0	0	0	1	97106	2	0	0	0	1	1
97108	0	0	0	0	0	0	97108	0	0	0	0	0	0	97108	0	0	0	0	0	0
97109	1	0	0	1	0	0	97109	0	0	0	0	0	0	97109	0	0	0	0	0	0
97111	2	0	0	1	1	0	97111	2	0	0	1	1	0	97111	4	1	0	0	3	0
97113	13	2	3	5	2	1	97113	16	1	2	4	3	6	97113	14	1	2	3	3	5
97114	4	0	0	1	2	1	97114	2	0	0										

97240	0	0	0	0	0	0
97251	0	0	0	0	0	0
97266	43	8	7	13	8	7
97267	26	5	1	9	7	4
97280	0	0	0	0	0	0
97286	0	0	0	0	0	0
97291	0	0	0	0	0	0
97294	0	0	0	0	0	0
97301	108	16	5	38	29	20
97302	47	3	6	16	13	9
97303	18	4	1	2	6	5
97304	0	0	0	0	0	0
97305	67	6	9	19	20	13
97306	23	2	3	9	6	3
97307	0	0	0	0	0	0
97308	0	0	0	0	0	0
97310	0	0	0	0	0	0
97311	0	0	0	0	0	0
97312	0	0	0	0	0	0
97317	30	1	4	10	11	4
97325	1	0	0	0	0	1
97338	2	0	0	1	1	0
97344	0	0	0	0	0	0
97346	0	0	0	0	0	0
97347	1	0	0	0	1	0
97351	0	0	0	0	0	0
97352	1	0	0	0	1	0
97362	4	0	1	1	2	0
97371	0	0	0	0	0	0
97373	0	0	0	0	0	0
97375	0	0	0	0	0	0
97378	4	1	0	2	0	1
97380	0	0	0	0	0	0
97381	11	1	1	2	3	4
97385	0	0	0	0	0	0
97392	1	0	0	0	1	0
97396	8	1	1	2	1	3
97438	0	0	0	0	0	0
97741	0	0	0	0	0	0
97806	0	0	0	0	0	0

97240	0	0	0	0	0	0
97251	0	0	0	0	0	0
97266	49	5	4	14	11	15
97267	10	3	2	2	1	2
97280	0	0	0	0	0	0
97286	0	0	0	0	0	0
97291	0	0	0	0	0	0
97294	0	0	0	0	0	0
97301	88	13	7	37	19	12
97302	37	8	0	7	8	14
97303	17	3	1	4	4	5
97304	0	0	0	0	0	0
97305	67	11	6	30	11	9
97306	34	5	2	12	12	3
97307	0	0	0	0	0	0
97308	0	0	0	0	0	0
97310	0	0	0	0	0	0
97311	0	0	0	0	0	0
97312	0	0	0	0	0	0
97317	23	2	3	4	6	8
97325	0	0	0	0	0	0
97338	0	0	0	0	0	0
97344	0	0	0	0	0	0
97346	0	0	0	0	0	0
97347	1	0	0	1	0	0
97351	0	0	0	0	0	0
97352	0	0	0	0	0	0
97362	4	2	1	1	0	0
97371	0	0	0	0	0	0
97373	0	0	0	0	0	0
97375	0	0	0	0	0	0
97378	7	1	1	3	2	0
97380	0	0	0	0	0	0
97381	13	0	2	4	6	1
97385	0	0	0	0	0	0
97392	3	1	0	1	0	1
97396	5	0	0	1	3	1
97438	0	0	0	0	0	0
97741	0	0	0	0	0	0
97806	0	0	0	0	0	0

97240	0	0	0	0	0	0
97251	0	0	0	0	0	0
97266	51	10	2	14	12	13
97267	24	4	2	9	4	5
97280	0	0	0	0	0	0
97286	0	0	0	0	0	0
97291	0	0	0	0	0	0
97294	0	0	0	0	0	0
97301	70	10	7	21	15	17
97302	44	3	6	14	5	16
97303	27	5	1	1	11	9
97304	1	1	0	0	0	0
97305	52	10	4	16	14	8
97306	27	2	2	6	8	9
97307	0	0	0	0	0	0
97308	0	0	0	0	0	0
97310	0	0	0	0	0	0
97311	0	0	0	0	0	0
97312	0	0	0	0	0	0
97317	20	0	2	5	8	5
97325	0	0	0	0	0	0
97338	0	0	0	0	0	0
97344	0	0	0	0	0	0
97346	0	0	0	0	0	0
97347	1	0	0	0	0	1
97351	0	0	0	0	0	0
97352	0	0	0	0	0	0
97362	3	0	1	1	1	0
97371	0	0	0	0	0	0
97373	0	0	0	0	0	0
97375	0	0	0	0	0	0
97378	6	2	0	2	1	1
97380	0	0	0	0	0	0
97381	15	2	2	5	4	2
97385	2	1	0	0	1	0
97392	1	0	0	0	1	0
97396	6	0	3	1	1	1
97438	0	0	0	0	0	0
97741	0	0	0	0	0	0
97806	0	0	0	0	0	0

Accounts Receiving Discount																				
May-24							Jun-24							Jul-24						
Zip Code	Total	60%	40%	25%	20%	15%	Zip Code	Total	60%	40%	25%	20%	15%	Zip Code	Total	60%	40%	25%	20%	15%
Total	85,301	10,672	8,096	26,019	23,525	16,989	Total	80,938	10,276	7,708	24,646	22,248	16,060	Total	85,741	11,053	8,136	25,891	23,643	17,018
97002	159	7	12	42	52	46	97002	157	5	13	39	54	46	97002	156	6	13	38	51	48
97003	1,287	178	133	370	365	241	97003	1,240	176	129	355	347	233	97003	1,300	188	130	382	357	243
97004	109	12	9	25	38	25	97004	113	12	9	25	41	26	97004	110	12	9	23	42	24
97005	1,686	222	166	575	434	289	97005	1,662	224	167	564	427	280	97005	1,701	223	175	572	441	290
97006	1,906	317	163	549	513	364	97006	1,857	318	155	527	498	359	97006	1,923	336	165	538	512	372
97007	1,154	162	104	296	338	254	97007	1,113	154	103	282	325	249	97007	1,155	161	113	287	337	257
97008	1,236	177	132	350	334	243	97008	1,195	175	133	329	323	235	97008	1,236	187	134	339	339	237
97009	270	12	11	79	90	78	97009	258	13	10	71	92	72	97009	272	14	13	72	96	77
97011	35	3	2	10	9	11	97011	32	4	2	8	9	9	97011	35	4	2	9	10	10
97013	155	8	10	39	62	36	97013	149	8	10	40	58	33	97013	150	8	9	39	58	36
97015	1,080	153	98	329	291	209	97015	1,056	149	101	319	283	204	97015	1,080	161	107	315	289	208
97016	0	0	0	0	0	0	97016	0	0	0	0	0	0	97016	0	0	0	0	0	0
97017	79	4	0	24	28	23	97017	81	4	1	23	28	25	97017	79	4	1	21	27	26
97018	0	0	0	0	0	0	97018	0	0	0	0	0	0	97018	0	0	0	0	0	0
97019	72	3	4	18	26	21	97019	72	3	4	17	27	21	97019	73	3	5	17	26	22
97020	36	2	3	11	12	8	97020	33	1	2	11	12	7	97020	33	1	2	10	13	7
97022	163	18	22	41	48	34	97022	158	16	21	41	47	33	97022	159	17	20	43	45	34
97023	505	34	45	141	154	131	97023	490	32	39	143	145	131	97023	514	36	46	147	152	133
97024	883	123	79	273	245	163	97024	640	81	55	203	181	120	97024	881	123	79	275	244	160
97026	144	11	11	38	46	38	97026	145	11	11	38	47	38	97026	148	13	12	37	47	39
97027	633	83	62	203	165	120	97027	605	77	59	189	160	120	97027	628	77	58	196	172	125
97028	5	0	0	2	2	1	97028	5	0	0	2	2	1	97028	5	0	0	2	2	1
97030	2,893	355	242	843	803	650	97030	2,719	347	236	780	749	607	97030	2,881	378	246	824	792	641
97032	187	19	13	65	59	31	97032	183	20	11	62	60	30	97032	188	21	12	64	61	30
97034	204	17	17	43	65	62	97034	200	19	14	45	60	62	97034	201	19	14	45	61	62
97035	525	60	33	131	162	139	97035	490	58	30	123	147	132	97035	532	62	33	130	158	149
97036	0	0	0	0	0	0	97036	3	0	0	0	1	2	97036	9	0	1	0	5	3
97038	701	56	68	211	206	160	97038	700	57	68	210	202	163	97038	726	64	65	218	205	174
97041	0	0	0	0	0	0	97041	0	0	0	0	0	0	97041	0	0	0	0	0	0
97042	93	5	5	27	35	21	97042	93	5	6	26	33	23	97042	92	5	5	27	35	20
97045	2,071	235	234	555	571	476	97045	2,005	231	227	539	545	463	97045	2,056	242	238	546	548	482
97048	0	0	0	0	0	0	97048	0	0	0	0	0	0	97048	0	0	0	0	0	0
97049	88	6	5	23	30	24	97049	88	5	5	22	31	25	97049	87	6	4	21	31	25
97051	0	0	0	0	0	0	97051	0	0	0	0	0	0	97051	0	0	0	0	0	0
97055	841	67	60	246	267	201	97055	818	69	57	241	260	191	97055	851	73	57	247	265	209
97056	3	0	0	1	2	0	97056	3	0	0	1	2	0	97056	3	0	0	1	2	0
97060	1,052	123	95	309	292	233	97060	602	62	59	177	174	130	97060	1,071	124	91	311	302	243
97062	936	88	75	254	298	221	97062	825	83	66	214	267	195	97062	952	100	82	254	300	216
97063	0	0	0	0	0	0	97063	0	0	0	0	0	0	97063	0	0	0	0	0	0
97067	142	9	2	45	45	41	97067	147	9	3	43	49	43	97067	149	9	4	44	49	43
97068	486	53	49	106	159	119	97068	390	46	38	81	131	94	97068	472	56	46	93	157	120
97070	886	91	87	232	270	206	97070	823	90	84	216	248	185	97070	890	94	89	244	265	198
97071	1,427	125	138	471	430	263	97071	1,331	122	134	438	394	243	97071	1,456	133	145	478	437	263
97075	0	0	0	0	0	0	97075	0	0	0	0	0	0	97075	0	0	0	0	0	0
97078	1,125	153	121	373	276	202	97078	1,107	153	119	367	270	198	97078	1,146	158	123	374	285	206
97079	0	0	0	0	0	0	97079	0	0	0	0	0	0	97079	0	0	0	0	0	0
97080	1,834	202	154	526	555	397	97080	1,787	199	163	504	528	393	97080	1,836	216	153			

97286	0	0	0	0	0	0
97291	0	0	0	0	0	0
97294	0	0	0	0	0	0
97301	3,881	391	398	1,360	1,084	648
97302	1,811	188	190	552	541	340
97303	1,059	95	73	314	350	227
97304	53	6	7	17	15	8
97305	2,666	257	288	878	743	500
97306	1,137	111	115	296	387	228
97307	0	0	0	0	0	0
97308	0	0	0	0	0	0
97310	0	0	0	0	0	0
97311	0	0	0	0	0	0
97312	0	0	0	0	0	0
97317	1,234	112	128	375	389	230
97325	11	1	1	5	3	1
97338	12	0	0	4	3	5
97344	0	0	0	0	0	0
97346	0	0	0	0	0	0
97347	137	9	9	35	35	49
97351	0	0	0	0	0	0
97352	8	0	0	6	1	1
97362	196	11	10	70	64	41
97371	4	0	2	2	0	0
97373	0	0	0	0	0	0
97375	37	3	2	8	14	10
97378	408	22	32	143	133	78
97380	0	0	0	0	0	0
97381	552	28	34	204	169	117
97385	10	4	0	0	3	3
97392	111	7	7	34	36	27
97396	190	9	26	48	54	53
97438	0	0	0	0	0	0
97741	0	0	0	0	0	0
97806	0	0	0	0	0	0

97286	0	0	0	0	0	0
97291	0	0	0	0	0	0
97294	0	0	0	0	0	0
97301	3,829	400	388	1,341	1,073	627
97302	1,662	181	182	506	490	303
97303	1,009	93	71	301	326	218
97304	46	5	6	14	13	8
97305	2,620	250	287	873	720	490
97306	1,092	102	110	282	371	227
97307	0	0	0	0	0	0
97308	0	0	0	0	0	0
97310	0	0	0	0	0	0
97311	0	0	0	0	0	0
97312	0	0	0	0	0	0
97317	1,202	107	124	355	392	224
97325	12	1	0	7	3	1
97338	12	0	0	4	4	4
97344	0	0	0	0	0	0
97346	0	0	0	0	0	0
97347	134	9	11	33	35	46
97351	0	0	0	0	0	0
97352	9	1	0	5	2	1
97362	194	11	10	71	64	38
97371	4	0	2	2	0	0
97373	0	0	0	0	0	0
97375	37	2	2	8	15	10
97378	396	21	30	138	127	80
97380	0	0	0	0	0	0
97381	545	28	32	198	170	117
97385	10	4	0	0	3	3
97392	110	7	8	32	39	24
97396	186	12	23	46	55	50
97438	0	0	0	0	0	0
97741	0	0	0	0	0	0
97806	0	0	0	0	0	0

97286	0	0	0	0	0	0
97291	0	0	0	0	0	0
97294	0	0	0	0	0	0
97301	3,922	407	404	1,382	1,107	622
97302	1,822	193	192	553	536	348
97303	1,039	92	71	304	341	231
97304	51	6	7	14	16	8
97305	2,708	269	292	898	749	500
97306	1,140	104	128	298	386	224
97307	0	0	0	0	0	0
97308	0	0	0	0	0	0
97310	0	0	0	0	0	0
97311	0	0	0	0	0	0
97312	0	0	0	0	0	0
97317	1,235	109	133	367	396	230
97325	13	1	0	7	3	2
97338	14	0	0	4	5	5
97344	0	0	0	0	0	0
97346	0	0	0	0	0	0
97347	138	9	13	32	35	49
97351	0	0	0	0	0	0
97352	7	1	0	4	1	1
97362	196	11	12	70	66	37
97371	4	0	2	2	0	0
97373	0	0	0	0	0	0
97375	35	2	2	7	15	9
97378	409	24	32	140	128	85
97380	0	0	0	0	0	0
97381	563	27	35	203	175	123
97385	9	4	0	0	2	3
97392	112	8	8	34	37	25
97396	195	13	24	48	54	56
97438	0	0	0	0	0	0
97741	0	0	0	0	0	0
97806	0	0	0	0	0	0

Total Discount Amounts																				
May-24							Jun-24							Jul-24						
Zip Code	Total	60%	40%	25%	20%	15%	Zip Code	Total	60%	40%	25%	20%	15%	Zip Code	Total	60%	40%	25%	20%	15%
Total *	3,136,119	829,062	470,482	846,333	644,145	346,098	Total *	2,655,557	710,157	404,932	711,187	538,521	290,759	Total *	3,448,346	934,772	517,381	902,091	705,920	388,183
97002	7,143	782	935	2,022	1,994	1,410	97002	5,601	*	806	1,607	1,918	1,271	97002	6,922	714	991	1,697	2,019	1,501
97003	46,463	13,370	7,065	12,076	9,352	4,599	97003	42,257	12,872	6,506	10,647	7,963	4,269	97003	55,411	16,251	8,603	14,446	10,340	5,772
97004	7,251	1,585	1,295	1,550	1,784	1,038	97004	6,643	1,453	1,191	1,415	1,664	919	97004	6,707	1,596	1,170	1,348	1,669	923
97005	53,050	14,744	7,822	15,474	9,814	5,196	97005	48,758	14,144	7,181	14,061	8,897	4,474	97005	57,533	16,575	8,453	16,073	10,756	5,676
97006	68,812	22,859	8,987	16,967	13,248	6,751	97006	63,384	21,313	8,219	15,414	12,055	6,383	97006	81,732	28,582	10,358	19,263	15,234	8,296
97007	42,634	13,577	5,570	10,186	8,407	4,894	97007	38,253	11,404	5,490	9,240	7,699	4,420	97007	49,143	15,206	7,462	10,997	9,539	5,940
97008	46,818	13,946	7,235	12,151	8,916	4,571	97008	41,086	12,378	6,960	10,004	7,732	4,011	97008	51,403	15,956	8,339	12,479	9,676	4,952
97009	12,120	1,120	1,255	3,922	3,386	2,437	97009	10,114	1,225	773	3,168	2,914	2,035	97009	12,632	1,774	1,288	3,552	3,382	2,382
97011	1,498	*	*	605	474	419	97011	974	*	*	342	377	254	97011	1,054	*	*	392	376	285
97013	8,251	1,324	995	2,025	2,622	1,285	97013	6,940	1,138	872	1,809	2,079	1,041	97013	7,610	1,210	695	1,920	2,495	1,289
97015	40,144	11,219	5,798	10,909	8,089	4,128	97015	36,586	10,025	5,696	9,777	7,177	3,910	97015	46,766	13,324	7,240	11,692	9,392	5,118
97016	0	0	0	0	0	0	97016	0	0	0	0	0	0	97016	0	0	0	0	0	0
97017	3,609	*	0	1,457	1,344	808	97017	3,327	*	*	1,400	1,107	820	97017	3,037	*	*	1,166	1,023	848
97018	0	0	0	0	0	0	97018	0	0	0	0	0	0	97018	0	0	0	0	0	0
97019	2,798	*	*	1,026	1,045	727	97019	2,421	*	*	810	941	670	97019	2,478	*	*	866	892	720
97020	1,062	*	*	452	438	172	97020	1,019	*	*	458	397	164	97020	1,192	*	*	483	522	187
97022	9,358	2,136	1,880	2,261	2,033	1,047	97022	7,743	1,749	1,369	2,003	1,703	918	97022	9,111	2,161	1,758	2,307	1,766	1,119
97023	24,471	4,363	3,661	6,498	5,869	4,080	97023	20,156	3,671	2,540	5,734	4,565	3,645	97023	24,154	6,403	3,664	6,451	5,586	4,000
97024	42,966	12,819	6,313	11,375	8,475	3,984	97024	23,251	6,300	3,187	6,579	4,984	2,201	97024	46,431	13,242	6,887	12,343	9,536	4,004
97026	6,251	1,067	830	1,719	1,611	1,024	97026	5,873	951	902	1,570	1,514	937	97026	6,476	1,093	1,168	1,533	1,634	1,047
97027	22,498	6,025	3,237	6,528	4,380	2,328	97027	20,320	5,463	3,020	5,650	3,939	2,248	97027	26,741	7,008	3,823	7,213	5,482	3,215
97028	0	0	0	0	0	0	97028	0	0	0	0	0	0	97028	0	0	0	0	0	0
97030	104,464	28,648	14,674	26,423	21,740	12,979	97030	88,787	24,902	12,930	22,070	17,973	10,911	97030	113,102	32,136	16,122	27,445	23,075	14,331
97032	8,140	1,829	872	2,788	1,900	751	97032	7,076	1,807	725	2,374	1,596	573	97032	9,486	2,488	906	3,148	2,129	774
97034	6,195	1,307	764	1,361	1,624	1,140	97034	5,487	1,352	546	1,332	1,208	1,050	97034	6,095	1,423	601	1,460	1,563	1,088
97035	16,688	4,154	1,840	3,688	4,059	2,948	97035	12,762	3,492	1,265	3,011	2,919	2,075	97035	15,988	4,452	1,614	3,515	3,718	2,690
97036	0	0	0	0	0	0	97036	0	0	0	0	0	0	97036	0	0	0	0	0	0
97038	27,063	4,672	4,013	7,451	6,766	4,162	97038	24,222	4,590	3,648	6,649	5,716	3,618	97038	31,954	6,812	4,444	8,681	7,095	4,922
97041	0	0	0	0	0	0	97041	0	0	0	0	0	0	97041	0	0	0	0	0	0
97042	3,631	*	*	1,370	1,629	632	97042	3,515	*	461	1,125	1,353	576	97042	3,251	*	*	1,233	1,488	530
97045	85,270	20,937	15,137	20,554	17,866	10,776	97045	74,255	18,880	12,858	18,225	15,140	9,154	97045	92,255	22,852	16,454	21,600	19,155	12,195
97048	0	0	0	0	0	0	97048	0	0	0	0	0	0	97048	0	0	0	0	0	0
97049	3,579	419	*	1,147	1,202	812	97049	2,438	*	*	850	933	655	97049	2,653	313	*	839	940	561
97051	0	0	0	0	0	0	97051	0	0	0	0	0	0	97051	0	0	0	0	0	0
97055	34,596	7,231	4,303	9,606	8,612	4,844	97055	29,249	6,619	3,730	7,929	7,109	3,862	97055	34,734	7,617	4,619	9,346	8,007	5,145
97056	0	0	0	0	0	0	97056	0	0	0	0	0	0	97056	0	0	0	0	0	0
97060	56,193	15,163	8,030	15,554	10,848	6,597	97060	22,097	5,281	3,587	6,198	4,544	2,487	97060	62,467	16,919	8,246	16,816	12,248	8,237
97062	35,588	7,596	5,240	9,433	8,793	4,525	97062	25,485	5,817	3,800	6,290	6,130	3,449	97062	40,120	9,487	5,705	9,937	9,651	5,340
97063	0	0	0	0	0	0	97063	0	0	0	0	0	0	97063	0	0	0	0	0	0
97067	5,555	1,213	*	1,770	1,583	990	97067	4,334	935	*	1,287	1,303	808	97067	4,625	1,212	*	1,392	1,243	778
97068	20,854	4,716	3,660	4,300	5,102	3,075	97068	13,639	3,638	2,200	2,477	3,328	1,997	97068	22,191	5,303	3,870	4,055	5,651	3,313
97070	27,933	7,254	4,766	6,399	6,113	3,400	97070	23,688	6,332	4,351	5,292	4,911	2,802	97070	31,742	8,351	5,396	7,448	6,593	3,953
97071	51,068	10,427	7,622	15,693	11,752	5,575	97071	41,554	8,863	6,492	12,492	9,178	4,528	97071	60,007	13,177	9,258	17,351	13,686	6,535
97075	0	0	0	0	0	0	97075	0	0	0	0	0	0	97075	0	0	0	0	0	0
97078	42,264	11,848	7,009	12,027	7,404	3,977	97078	38,888	10,793	6,646										

97806	0	0	0	0	0	0	97806	0	0	0	0	0	0	97806	0	0	0	0	0	0
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Average Discount Amounts						
May-24						
Zip Code	60%	40%	25%	20%	15%	
Overall *	78	58	33	27	20	
97002	112	78	48	38	31	
97003	75	53	33	26	19	
97004	132	144	62	47	42	
97005	66	47	27	23	18	
97006	72	55	31	26	19	
97007	84	54	34	25	19	
97008	79	55	35	27	19	
97009	93	114	50	38	31	
97011	*	*	61	53	38	
97013	165	100	52	42	36	
97015	73	59	33	28	20	
97016	0	0	0	0	0	
97017	*	0	61	48	35	
97018	0	0	0	0	0	
97019	*	*	57	40	35	
97020	*	*	41	36	21	
97022	119	85	55	42	31	
97023	128	81	46	38	31	
97024	104	80	42	35	24	
97026	97	75	45	35	27	
97027	73	52	32	27	19	
97028	0	0	*	*	*	
97030	81	61	31	27	20	
97032	96	67	43	32	24	
97034	77	45	32	25	18	
97035	69	56	28	25	21	
97036	0	0	0	0	0	
97038	83	59	35	33	26	
97041	0	0	0	0	0	
97042	*	*	51	47	30	
97045	89	65	37	31	23	
97048	0	0	0	0	0	
97049	70	*	50	40	34	
97051	0	0	0	0	0	
97055	108	72	39	32	24	
97056	0	0	*	*	0	
97060	123	85	50	37	28	
97062	86	70	37	30	20	
97063	0	0	0	0	0	
97067	135	*	39	35	24	
97068	89	75	41	32	26	
97070	80	55	28	23	17	
97071	83	55	33	27	21	
97075	0	0	0	0	0	
97078	77	58	32	27	20	
97079	0	0	0	0	0	
97080	94	60	36	28	21	
97086	74	53	31	25	20	
97089	113	75	43	37	24	
97101	96	89	45	33	24	
97106	100	*	46	33	33	
97108	0	0	0	0	0	
97109	*	0	*	0	*	
97111	174	78	49	42	28	
97113	110	68	46	36	26	
97114	116	104	45	42	27	
97115	89	*	34	27	21	
97116	186	*	45	54	39	
97117	*	0	*	72	*	
97119	116	104	53	41	32	
97123	101	69	44	36	27	
97124	85	64	36	30	21	
97125	0	0	0	0	0	
97127	149	73	57	39	33	
97128	*	*	71	*	41	
97132	81	55	32	27	22	
97133	104	48	29	23	24	
97137	*	*	44	33	*	
97140	80	62	32	28	20	
97147	0	0	0	0	0	
97148	*	*	52	42	36	
97201	38	27	15	13	9	
97202	67	43	25	20	15	
97203	75	56	30	24	18	
97204	31	29	14	11	8	
97205	34	35	14	12	10	
97206	72	58	29	25	17	
97207	0	0	0	0	0	
97208	0	0	0	0	0	
97209	38	29	15	12	9	
97210	37	26	17	13	9	
97211	*	0	0	*	0	
97212	0	0	0	0	0	
97213	77	44	21	19	15	
97214	43	36	19	15	11	
97215	70	44	23	21	15	
97216	81	60	38	29	21	
97217	65	47	26	23	17	
97218	0	0	0	0	0	
97219	99	66	37	29	25	
97220	0	0	0	0	0	
97221	57	53	23	24	19	
97222	75	57	31	26	19	
97223	65	47	28	23	18	
97224	73	54	30	24	18	
97225	64	48	29	23	19	
97227	*	0	*	*	*	
97229	72	57	29	25	18	
97230	84	60	35	27	20	
97231	97	78	47	30	26	
97232	33	31	17	13	10	
97233	77	55	32	27	20	
97236	82	59	33	28	20	
97239	46	43	21	16	15	
97240	0	0	0	0	0	
97251	0	0	0	0	0	
97266	76	57	31	26	19	
97267	73	56	31	26	20	
97280	0	0	0	0	0	
97286	0	0	0	0	0	
97291	0	0	0	0	0	
97294	0	0	0	0	0	
97301	76	57	31	27	21	
97302	87	61	33	28	20	
97303	79	61	35	29	21	
97304	103	117	51	44	23	
97305	89	64	36	29	21	
97306	88	70	35	31	21	
97307	0	0	0	0	0	
97308	0	0	0	0	0	

Jun-24						
Zip Code	60%	40%	25%	20%	15%	
Overall *	69	53	29	24	18	
97002	*	62	41	36	28	
97003	73	50	30	23	18	
97004	121	132	57	41	35	
97005	63	43	25	21	16	
97006	67	53	29	24	18	
97007	74	53	33	24	18	
97008	71	52	30	24	17	
97009	94	77	45	32	28	
97011	*	*	43	42	28	
97013	142	87	45	36	32	
97015	67	56	31	25	19	
97016	0	0	0	0	0	
97017	* *		61	40	33	
97018	0	0	0	0	0	
97019	*	*	48	35	32	
97020	*	*	42	33	23	
97022	109	65	49	36	28	
97023	115	65	40	31	28	
97024	78	58	32	28	18	
97026	86	82	41	32	25	
97027	71	51	30	25	19	
97028	0	0	*	*	*	
97030	72	55	28	24	18	
97032	90	66	38	27	19	
97034	71	39	30	20	17	
97035	60	42	24	20	16	
97036	0	0	0	*	*	
97038	81	54	32	28	22	
97041	0	0	0	0	0	
97042	*	77	43	41	25	
97045	82	57	34	28	20	
97048	0	0	0	0	0	
97049	*	*	39	30	26	
97051	0	0	0	0	0	
97055	96	65	33	27	20	
97056	0	0	*	*	0	
97060	85	61	35	26	19	
97062	70	58	29	23	18	
97063	0	0	0	0	0	
97067	104	*	30	27	19	
97068	79	58	31	25	21	
97070	70	52	25	20	15	
97071	73	48	29	23	19	
97075	0	0	0	0	0	
97078	71	56	30	25	18	
97079	0	0	0	0	0	
97080	82	56	34	26	20	
97086	68	48	28	23	17	
97089	102	71	39	35	21	
97101	87	84	42	31	23	
97106	90	70	42	27	23	
97108	0	0	0	0	0	
97109	*	0	*	0	*	
97111	*	*	39	27	21	
97113	90	55	35	27	20	
97114	95	92	42	37	23	
97115	74	*	38	26	21	
97116	132	*	43	43	34	
97117	*	0	*	54	*	
97119	96	93	47	34	27	
97123	72	52	32	27	19	
97124	72	54	31	27	19	
97125	0	0	0	0	0	
97127	101	64	39	31	25	
97128	*	**		47	28	
97132	69	52	29	25	20	
97133	90	55	26	21	23	
97137	*	*	40	31	*	
97140	68	54	31	25	20	
97147	0	0	0	0	0	
97148	*	*	42	36	30	
97201	37	25	13	11	8	
97202	58	40	24	18	13	
97203	72	52	27	23	16	
97204	28	30	12	11	8	
97205	29	32	13	12	9	
97206	69	53	27	22	16	
97207	0	0	0	0	0	
97208	0	0	0	0	0	
97209	36	28	14	11	9	
97210	36	26	16	11	9	
97211	*	0	0	*	0	
97212	0	0	0	0	0	
97213	63	43	21	17	14	
97214	41	32	17	14	10	
97215	72	43	22	20	14	
97216	74	55	33	27	19	
97217	57	44	24	20	15	
97218	0	0	0	0	0	
97219	72	53	27	22	18	
97220	0	0	0	0	0	
97221	54	53	22	23	17	
97222	69	53	28	23	18	
97223	61	44	26	21	17	
97224	66	49	28	21	16	
97225	60	40	27	21	17	
97227	*	0	0	*	*	
97229	70	53	29	23	17	
97230	78	58	32	26	18	
97231	60	69	38	26	25	
97232	35	30	16	12	10	
97233	72	52	30	25	19	
97236	75	56	30	26	19	
97239	42	39	19	16	14	
97240	0	0	0	0	0	
97251	0	0	0	0	0	
97266	68	53	29	24	17	
97267	70	52	29	24	19	
97280	0	0	0	0	0	
97286	0	0	0	0	0	
97291	0	0	0	0	0	
97294	0	0	0	0	0	
97301	68	51	27	24		

97310	0	0	0	0	0	97310	0	0	0	0	0	97310	0	0	0	0	0
97311	0	0	0	0	0	97311	0	0	0	0	0	97311	0	0	0	0	0
97312	0	0	0	0	0	97312	0	0	0	0	0	97312	0	0	0	0	0
97317	96	65	37	30	22	97317	90	60	33	27	20	97317	110	73	38	32	24
97325	* *	*		*	*	97325	*	0	43	*	*	97325	*	0	47	*	*
97338	0	0	*	*	*	97338	0	0	*	*	*	97338	0	0	*	*	*
97344	0	0	0	0	0	97344	0	0	0	0	0	97344	0	0	0	0	0
97346	0	0	0	0	0	97346	0	0	0	0	0	97346	0	0	0	0	0
97347	154	75	46	42	28	97347	131	72	40	34	21	97347	123	76	42	35	28
97351	0	0	0	0	0	97351	0	0	0	0	0	97351	0	0	0	0	0
97352	0	0	71	*	*	97352	*	0	*	*	*	97352	*	0	*	*	*
97362	96	46	35	26	23	97362	89	40	32	24	23	97362	102	55	37	30	29
97371	0	*	*	0	0	97371	0	*	*	0	0	97371	0	*	*	0	0
97373	0	0	0	0	0	97373	0	0	0	0	0	97373	0	0	0	0	0
97375	*	*	67	32	33	97375	*	*	62	29	31	97375	*	*	57	32	30
97378	119	79	39	32	26	97378	107	67	33	29	22	97378	135	82	38	32	27
97380	0	0	0	0	0	97380	0	0	0	0	0	97380	0	0	0	0	0
97381	74	66	34	31	24	97381	61	53	31	28	22	97381	67	70	37	33	28
97385	*	0	0	*	*	97385	*	0	0	*	*	97385	*	0	0	*	*
97392	83	81	55	31	24	97392	82	85	45	29	22	97392	94	94	52	31	26
97396	109	96	43	34	30	97396	93	89	40	30	26	97396	174	85	43	34	29
97438	0	0	0	0	0	97438	0	0	0	0	0	97438	0	0	0	0	0
97741	0	0	0	0	0	97741	0	0	0	0	0	97741	0	0	0	0	0
97806	0	0	0	0	0	97806	0	0	0	0	0	97806	0	0	0	0	0

Demographic Information

The following statistics reflect cumulative enrollments as of Jul 31st, 2024.

Housing Type

Single Family	33%
Multifamily	58%
Mobile Home	8%

Household Size

1	38%
2	22%
3	14%
4	12%
5+	14%

On a Fixed Income

Yes	35%
No	65%

Preferred Language

% English	89%
% Non-English	11%

Race/Ethnicity of Enrolled Applicant (optional)*

White or Caucasian	58%
Latino/a, Hispanic, or Spanish	20%
Black or African American	7%
Asian or Asian Indian	5%
Native American and/or Alaska Native	2%
Native Hawaiian and/or Pacific Islander	1%
Slavic	1%
Middle Eastern	1%
African Immigrant or Refugee	1%
Other	4%

* Percentages are rounded up and self-reported by 60,454 respondents



Portland General Electric

121 SW Salmon Street • Portland, OR 97204
portlandgeneral.com

September 27, 2024

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

RE: Advice No. 24-19, Schedule 18, Income Qualified Bill Discount

Portland General Electric Company (PGE) submits this filing pursuant to Oregon Revised Statutes 757.205 and 757.210, and Oregon Administrative Rule (OAR) 860-022-0025, for filing proposed tariff sheets associated with Tariff P.U.C. No. 19. with a requested effective date of **March 1, 2025**:

First Revision of Sheet No. 18-1

First Revision of Sheet No. 18-2

As part of the UE 416 Sixth Partial Stipulation to Portland General Electric Company's (PGE or Company) 2024 rate review, OPUC Order No. 23-386 directed PGE to conduct an Energy Burden Assessment (EBA) by June 30, 2024. PGE submitted on June 28, 2024, the results of the Company's 2024 EBA pursuant to that order. Findings were presented to Income Qualified Bill Discount (IQBD) stakeholders on June 25, 2024, and to PGE's Community Benefits & Impacts Advisory Group (CBIAG) on June 26, 2024. Consistent with the terms of the Sixth Partial Settlement, PGE analyzed the assessment's recommendations and is proposing an expansion of its IQBD program accordingly.

PGE's proposed IQBD expansion centers on creation of a new bill discount option for the more than 3,000 households within master-metered affordable housing in PGE's service area. This population segment is disproportionately comprised of low-income and other environmental justice communities but is not currently eligible for IQBD. In addition, PGE proposes a transition to a targeted post-enrollment verification approach in line with EBA recommendations and input from stakeholders that will make post-enrollment verification less burdensome and more effective.

As PGE will lay out in a forthcoming update to be filed in Docket UM 2211, we are pursuing a suite of concrete actions beyond these tariff changes to improve IQBD and other program offerings in direct response to EBA recommendations. This approach reflects PGE's view, informed by the EBA, that the current IQBD design appropriately balances meaningful assistance to energy burdened customers, streamlined customer enrollment, and a manageable cost burden to PGE's customer base, and that the highest priority over the coming year is in improving customer participation rates in IQBD as well as other assistance and bill reduction programs.

PGE Advice No. 24-19, Schedule 18, Income Qualified Bill Discount
Page 2

The revisions to Schedule 18 update the program and applicability to include non-residential customers under a new special condition. Special Condition 8 allows for master-metered buildings consisting of individual residents. Monthly discount tiers remain for residential customers and a new discount of 25% is applicable to eligible master-metered non-residential customers. In addition, these updates provide clarity that the bill discounts are applied prior to taxes and do not apply to Schedule 300 Charges as defined by the Rules and Regulations and Miscellaneous Charges or optional charges. Language is also updated on enrollment and eligibility.

Additionally, PGE has proposed changes to remove the requirement to conduct fully randomized post-enrollment verification. PGE intends to engage Staff, stakeholders and the CBIAG in advance of the next annual post-enrollment verification cycle to seek input on criteria to apply in an updated, targeted post-enrollment verification approach. The March 1, 2025 effective date is driven by the need to update building systems and program details in advance of launching the program for master-metered customers and the timing of PGE's annual post-enrollment verification process. Following Commission approval of this filing, PGE will work with OHCS in advance of the tariff effective date to identify potentially eligible customers and conduct outreach and enrollment efforts.

A redline version of Schedule 18 is included as a courtesy.

To satisfy the requirements of OARs 860-022-0025(2), PGE provides the following responses:

Beyond the bill discounts provided to participating Residential Customers, there are no price impacts to PGE Customers associated with this Schedule 18 update. Cost recovery for IQBD is implemented in Schedule 118, to be updated in a future advice filing.

Please direct questions to Ashleigh Keene at ashleigh.keene@pgn.com. Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com.

Sincerely,

\s\ Robert Macfarlane

Robert Macfarlane
Manager, Pricing and Tariffs

Enclosures
cc: UE 416 Service List

SCHEDULE 18 INCOME-QUALIFIED BILL DISCOUNT - OPTIONAL

PROGRAM DESCRIPTION

This is an optional bill discount for Income-Qualified Residential customers and Non-Residential Customers that qualify under Special Condition 8 of this schedule. This discount is enabled by House Bill 2475, which modified ORS 757.230 to allow for differentiated rates on the basis of affordability factors.

(C)

(C)

AVAILABLE

In all territory served by the Company.

APPLICABLE

To Income-Qualified Residential Customers with gross household income at or below 60% of Oregon State Median Income (SMI), adjusted for household size. For Customers in single-person households, eligibility is extended to those with gross household incomes up to the greater of 60% SMI or full-time wages at the Portland Metro minimum wage. Also applicable to Non-Residential Customers that qualify under Special Condition 8 of this schedule.

(C)

(C)

(C)

MONTHLY DISCOUNT

Monthly bill discounts are calculated as a percentage of bill. Residential Customer discounts are offered at five levels, based on the enrolled Customer's household income as a percentage of SMI.

(C)

Tier	Eligible Percent of SMI	Discount Percentage
A	0-5%	60%
B	6-15%	40%
C	16-30%	25%
D	31-45%	20%
E ¹	46-60%	15%

1. Tier E includes, for single-person households, customers with gross household incomes up to the greater of 60% SMI or full-time wages at the Portland Metro minimum wage.

Enrolled Customers with a verified Emergency Medical Certificate on their PGE account will be moved to the next highest discount level, if not already qualified for the highest discount level.

Discounts for Non-Residential Customer that qualify under Special Condition 8 will receive a 25% discount.

(N)

(N)

Bill discounts are applied prior to taxes and do not apply to Schedule 300 or optional charges.

(C)

(D)

SCHEDULE 18 (Concluded)

SPECIAL CONDITIONS

1. Program participants must be the accountholder.
2. Household size reflects all permanent residents in the home, including adults and children.
3. Qualifying income refers to total gross annual income, both taxable and nontaxable, from all sources for all persons in the applicant's household.
4. The discount applies only to bills associated with the Customer's permanent primary residence and only to new charges billed after enrollment.
5. PGE Customers who have qualified for the federal Low-Income Home Energy Assistance Program (LIHEAP) or the Oregon Energy Assistance Program (OEAP) and not already enrolled will be automatically enrolled or their discount level will be updated into the appropriate tier if already enrolled. Those who also have a verified Emergency Medical Certificate on their PGE account will automatically be enrolled into the next highest tier, unless they are already eligible for Tier A. Customers who do not wish to receive the discount can contact PGE to be unenrolled. (C)
| (C)
(T)
6. Customers not otherwise automatically enrolled may participate in the program after the approval of an application that includes a declaration of household size and income. Applications can be submitted directly by the Customer or a third-party on behalf of the Customer. Re-enrollment will be required every two years.
7. PGE will require post-enrollment verification of need of no more than 3% of annually enrolled Customers. Those identified for post-enrollment verification will be selected by PGE from participants who were not automatically enrolled or re-enrolled based on their verified eligibility for LIHEAP/OEAP. Customers selected must verify eligibility to continue receiving this discount. If a Customer's discount is discontinued due to non-responsiveness or ineligibility, they may re-enroll upon providing verification of eligibility. Customers who were automatically enrolled based on LIHEAP or OEAP eligibility are exempt from post-enrollment verification. (C)
| (C)
8. The Non-Residential discount is available for master-metered buildings consisting of individual residential units, served under a Non-Residential rate schedule and meeting the following criteria: (N)
|
a. At least 50% or greater of the dwelling units are dedicated to occupants whose income is at 60% or less of state median income;
b. Must qualify as affordable housing with Oregon Housing and Community Services as defined in OAR 330-240-0070(1); and
c. The master-metered customer must attest that it will pass its monthly bill discount back to its low-income occupants on a proportional basis. (N)

PGE Advice No. 24-19

Courtesy Redline of Schedule 18

SCHEDULE 18 INCOME-QUALIFIED BILL DISCOUNT - OPTIONAL

PROGRAM DESCRIPTION

This is an optional bill discount for Income-Qualified Residential customers and Non-Residential Customers that qualify under Special Condition 8 of this schedule. This discount is enabled by House Bill 2475, which modified ORS 757.230 to allow for differentiated rates on the basis of affordability factors.

AVAILABLE

In all territory served by the Company.

APPLICABLE

To Income-Qualified Residential Customers, ~~defined as Customers~~ with gross household income at or below 60% of Oregon State Median Income (SMI), adjusted for household size. For Customers in single-person households, eligibility is extended to those with gross household incomes up to the greater of 60% SMI or full-time wages at the Portland Metro minimum wage. Also applicable to Non-Residential Customers that qualify under Special Condition 8 of this schedule.

MONTHLY DISCOUNT

Monthly bill discounts are calculated as a percentage of bill. Residential Customer discounts are offered at five levels, based on the enrolled Customer's household income as a percentage of SMI.

Tier	Eligible Percent of SMI	Discount Percentage
A	0-5%	60%
B	6-15%	40%
C	16-30%	25%
D	31-45%	20%
E ¹	46-60%	15%

1. Tier E includes, for single-person households, customers with gross household incomes up to the greater of 60% SMI or full-time wages at the Portland Metro minimum wage.

Enrolled Customers with a verified Emergency Medical Certificate on their PGE account will be moved to the next highest discount level, if not already qualified for the highest discount level.

Discounts for Non-Residential Customer that qualify under Special Condition 8 will receive a 25% discount.

~~The bill discounts are applied prior to taxes and do not apply to Schedule 300 or optional charges. -applies to most components of a Customer's bill, with a small number of charges not subject to the discount. Excluded charges include the following, where applicable:~~

- ~~• Green Future Solar, Fixed and Habitat Optional Charges~~
- ~~• Solar Customer Charge for Customers on Solar Payment Option~~
- ~~• Energy Efficiency Funding Adjustment (Schedule 109)~~
- ~~• Low Income Assistance Charge (Schedule 115)~~

• ~~Meter Rental and Non-Network Meter Read Charges (Schedule 300)~~

~~1. Tier E includes, for single person households, customers with gross household incomes up to the greater of 60% SMI or full-time wages at the Portland Metro minimum wage.~~

Advice No. 24-19

Issued September 27, 2024

Larry Bekkedahl, Vice President

**Effective for service
on and after March 1, 2025**

SCHEDULE 18 (Concluded)

SPECIAL CONDITIONS

1. Program participants must be the accountholder.
2. Household size reflects all permanent residents in the home, including adults and children.
3. Qualifying income refers to total gross annual income, both taxable and nontaxable, from all sources for all persons in the applicant's household.
4. The discount applies only to bills associated with the Customer's permanent primary residence and only to new charges billed after enrollment.
5. PGE Customers who have qualified for the federal Low-Income Home Energy Assistance Program (LIHEAP) or the Oregon Energy Assistance Program (OEAP) and not already enrolled will be automatically enrolled or their discount level will be updated into the appropriate tier if already enrolled. Those who also have a verified Emergency Medical Certificate on their PGE account will automatically be enrolled into the next highest tier, unless they are already eligible for Tier A-. Customers who do not wish to receive the discount can contact PGE to be unenrolled.
6. Customers not otherwise automatically enrolled may participate in the program after the approval of an application that includes a declaration of household size and income. Applications can be submitted directly by the Customer or a third-party on behalf of the Customer. Re-enrollment will be required every two years.
7. PGE will require post-enrollment verification of need ~~from a randomly~~ of no more than 3% of annually enrolled Customers. selected 3% of enrolled Customers annually to continue receiving this discount. Those identified for post-enrollment verification will be ~~randomly~~ selected by PGE from among participants who were not automatically enrolled or re-enrolled based on their verified eligibility for LIHEAP/OEAP. Customers selected must verify eligibility to continue receiving this discount. If a Customer's discount is discontinued due to non-responsiveness or ineligibility, they may re-enroll upon providing verification of eligibility. Customers who were automatically enrolled based on LIHEAP or OEAP eligibility are exempt from post-enrollment verification.
8. The Non-Residential discount is available for master-metered buildings consisting of individual residential units, served under a Non-Residential rate schedule and meeting the following criteria:
 - a. At least 50% or greater of the dwelling units are dedicated to occupants whose income is at 60% or less of state median income;
 - b. Must qualify as affordable housing with Oregon Housing and Community Services as defined in OAR 330-240-0070(1); and
 - c. The master-metered customer must attest that it will pass its monthly bill discount back to its low-income occupants on a proportional basis.

**Portland General Electric Company**

Legal Department
121 SW Salmon Street, 1WTC1301
Portland, Oregon 97204
Phone 503-464-7822
Fax 503-464-2200
portlandgeneral.com

David F. White

Managing Senior General Counsel

March 29, 2024

VIA ELECTRONIC MAIL

Via Electronic Filing

Public Utility Commission of Oregon
Attention: Filing Center
201 High Street SE, Suite 100
Salem, Oregon 97301

Re: UE 430 - PGE Investigation into New Load Connection Costs

Dear Filing Center:

Enclosed for filing in the above-captioned docket is Portland General Electric Company's Motion for Extension of Time

Sincerely,

A handwritten signature in blue ink that reads "D. White".

David F. White
Managing Senior General Counsel

DW/ld

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UE 430

In the Matter of

PORTLAND GENERAL ELECTRIC
COMPANY,

Investigation into New Load Connection
Costs.

PORTLAND GENERAL ELECTRIC
COMPANY'S MOTION FOR EXTENTION
OF TIME

Pursuant to OAR 860-001-0420, Portland General Electric Company (PGE) moves the Oregon Public Utility Commission (Commission) for an order extending PGE's deadline for filing of the proposed tariff changes for new large load connections, currently due March 31, 2024.

I. Introduction

The Administrative Law Judge Memorandum filed Dec 29, 2023 states PGE may file its proposed tariff in this docket on or before March 31, 2024. PGE requests an extension of the deadline to complete the proposed tariff filing from March 31, 2024 to May 1, 2024.

II. Discussion

PGE is requesting this extension to allow for adequate time for preparation and review of the proposed tariff changes for new large load connections due to its complexity, as well as due to competing work on regulatory dockets. PGE requests an additional months' time to file the proposed tariff changes, for a filing date of May 1, 2024. Customers will not be prejudiced by this proposed delay because, pursuant to PGE's letter submitted in this docket on January 18, 2024, PGE has agreed to an interim approach that will require any agreement with new large load customers to include a provision that will require changes the agreement to the extent necessary to conform to the requirements of a final order in this docket.

Counsel for PGE communicated the relief requested in this motion with counsel for Staff of the Commission (Staff), the Alliance of Western Energy Consumers (AWEC), and the Oregon Citizens' Utility Board (CUB)(the parties in this docket). Staff does not oppose PGE's motion, and both CUB and AWEC communicated that each takes no position on the motion.

II. Conclusion

For the reasons discussed above, good cause exists to extend the deadline for filing the proposed tariff changes. The Company respectfully requests that the Commission grant this motion for extension to allow PGE to submit its proposed tariff by May 1, 2024.

DATED this 29th day of March, 2024.

Respectfully Submitted By:



David F. White, OSB #011382
Managing Senior General Counsel
Portland General Electric Company
121 SW Salmon Street, 1 WTC1301
Portland, OR 97204
Phone: 503.464.7701
Email: david.white@pgn.com

**Portland General Electric Company**

Legal Department
121 SW Salmon Street, 1WTC1301
Portland, Oregon 97204
Phone 503-464-7822
Fax 503-464-2200
portlandgeneral.com

David F. White

Managing Senior General Counsel

April 30, 2024

VIA ELECTRONIC MAIL

Public Utility Commission of Oregon
Attention: Filing Center
201 High Street SE, Suite 100
Salem, Oregon 97301
puc.filingcenter@puc.oregon.gov

Re: UE 430 - Investigation in New Load Connection Costs

Dear Filing Center:

Enclosed for filing in the above referenced docket is Portland General Electric Company's Motion for Extension for Time.

Sincerely,

A handwritten signature in blue ink that reads "D. White".

DW/ld

David F. White
Managing Senior General Counsel

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UE 430

<p>In the Matter of</p> <p>PORTLAND GENERAL ELECTRIC COMPANY,</p> <p>Investigation into New Load Connection Costs.</p>	<p>PORTLAND GENERAL ELECTRIC COMPANY’S MOTION FOR EXTENTION OF TIME</p> <p><i>Expedited Consideration Requested</i></p>
--	---

Pursuant to OAR 860-001-0420, Portland General Electric Company (PGE) moves (Motion) the Oregon Public Utility Commission (Commission) for an order extending PGE’s deadline for filing of the proposed tariff changes for new large load connections, currently due May 1, 2024.

I. Introduction

The Administrative Law Judge Memorandum filed Dec 29, 2023 states PGE may file its proposed tariff in this docket on or before March 31, 2024. PGE requested and was granted an extension of the deadline to complete the proposed tariff filing from March 31, 2024 to May 1, 2024. PGE files this motion to request an extension of the deadline to October 31, 2024.

II. Discussion

PGE is requesting this extension to allow for adequate time for preparation and review of the proposed tariff changes for new large load connections because of the complexity of these issues and competing high workloads on other regulatory dockets that are impacting all parties in this docket. PGE requests additional time to file the proposed tariff changes until October 31, 2024, although PGE hopes to file sooner. Customers will not be prejudiced by this proposed delay because, pursuant to PGE’s letter submitted in this docket on January 18, 2024, PGE has agreed to an interim approach that will require any agreement with new large load customers to

include a provision that will require changes to the agreement to the extent necessary to conform to the requirements of a final order in this docket.

PGE has engaged in conversations with Commission Staff in connection with this Motion. As a result of those conversations, PGE and Commission Staff have come to the following understandings:

- PGE will provide Commission Staff and parties with a description of the scope of work for any outside consultant PGE engages in connection with this docket;
- Underlying data and assumptions used by any consultant engaged by PGE in this docket will be made available in this docket upon receipt of an appropriate data request subject to any applicable standard or modified protective order;
- PGE will participate in a UE 430 workshop that addresses the following topics:
 - Cost of Service Assumptions
 - Reliability Requirements
 - Assumption of Revenues
 - Facility Cost Assumptions
 - Impact to the Bulk Electric System
- PGE understands that Commission Staff would like to discuss resource/power provisioning at the workshop. While PGE does not anticipate resource/power provisioning will be part PGE's proposal in the docket, it is willing to discuss Commission Staff's views on this topic at the workshop to the extent it is applicable.

Based upon these understandings, Commission Staff does not oppose PGE's Motion.

Counsel for PGE also communicated the relief requested in this Motion with counsel for the Alliance of Western Energy Consumers (AWEC) and the Oregon Citizens' Utility Board (CUB). AWEC does not oppose the Motion, and CUB has not made its position known to PGE.

PGE seeks expedited treatment and requests the time to respond to the Motion be shortened to one day.

II. Conclusion

For the reasons discussed above, good cause exists to extend the deadline for filing the proposed tariff changes. The Company respectfully requests that the Commission grant this motion for extension to allow PGE to submit its proposed tariff changes by Oct 31, 2024.

DATED this 30 day of April, 2024.

Respectfully Submitted By:

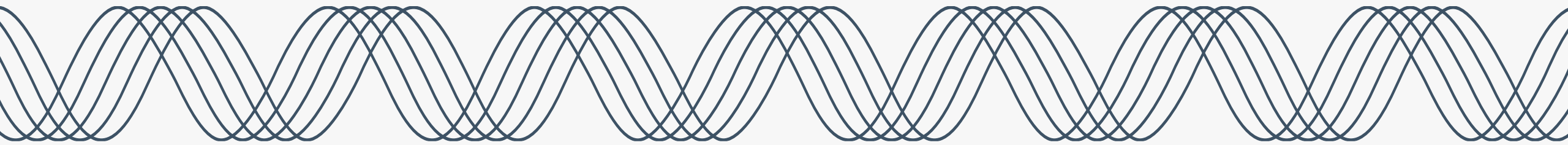


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Email: david.white@pgn.com



PGE CEP & IRP Roundtable 24-3

July 11th 2024





July 11th, 2024 – Agenda

9:00 – 9:05	Welcome Meeting Logistics
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9:05 – 9:30	Transmission Options
-------------	----------------------

9:30 – 10:30	Load Forecast
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10:30 – 10:50	Resource Economics Update
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10:50 – 11:05	Small Scale Renewables
---------------	------------------------

11:05 – 11:25	ROSE-E Changes
---------------	----------------

11:25 – 11:30	Closing Remarks Next Steps
---------------	------------------------------

Meeting Details



Electronic version of presentation

<https://portlandgeneral.com/about/who-we-are/resource-planning/combined-cep-and-irp/combined-cep-irp-public-meetings>



Zoom meeting details

- Join Zoom Meeting
<https://us06web.zoom.us/j/84391255924?pwd=RDQ2VFpUZERVSEcraU5CZWw3VDhQZz09>
- Meeting ID: 843 9125 5924
Passcode: 108198



Participation

- Use the raise hand feature to let us know you have a question
- Unmute with microphone icon or *6 on phones

Meeting Logistics



Focus on Learning & Understanding

- There will be no chat feature during the meeting to streamline taking feedback
- Team members will take clarifying questions during the presentation, substantive questions will be saved for the end (time permitting)
- Attendees are encouraged to 'raise' their hand to ask questions

Follow Up

If we don't have time to cover all questions, we will rely on the CEP/IRP feedback form



Transmission Options

Laura Green, PGE

Seth Wiggins, PGE



2023 CEP/IRP Transmission Limitations

Previous PGE IRPs only incorporated zonal transfers and wheeling costs in price forecasting and portfolio analysis, respectively

The 2023 CEP/IRP's portfolio analysis was limited by the contractual transmission system

Resources from the PNW (CV solar, Gorge wind, etc.) were only available to be added if there were available transmission through BPA's system (more on this shortly)

The capacity expansion model was also able to select additional resources beyond the PNW with added costs and benefits associated with transmission expansion

E.g. NV solar, WY wind



2023 CEP/IRP Transmission Limitations

PGE's geography necessitated an analysis requiring three components:

1. A characterization of the existing transmission system

How much transmission capacity is available to PGE today?

2. A characterization of the future transmission system

How much transmission capacity will be available to PGE when expected upgrades are made?

3. A description of actions PGE can take to increase transmission capacity

What can PGE do to bring more transmission capacity?

2023 CEP/IRP Transmission Limitations

PGE's geography necessitated an analysis requiring three components:

1. A characterization of the existing transmission system **[Discussed today]**

How much transmission capacity is available to PGE today?

2. A characterization of the future transmission system **[Future roundtable]**

How much transmission capacity will be available to PGE when expected upgrades are made?

3. A description of actions PGE can take to increase transmission capacity **[Future roundtable]**

What can PGE do to bring more transmission capacity?



2023 CEP/IRP Transmission Limitations

PGE’s geography necessitated an analysis requiring three components:

A characterization of the existing transmission system [Discussed today]

How much transmission capacity is available to PGE today?

In the 2023 CEP/IRP, PGE extrapolated from Transmission Service Requests (TSRs) in BPA’s previous four TSR study and expansion process (TSEPs) to estimate this transmission capacity in each resource zone

We are following that method and presenting updated results here

Table 129. Transmission ATC by Resource Zone

Resource Zone	LTF	CF	Total
Christmas Valley	490	510	1000
Gorge	190	388	578
McMinnville	10	0	10
Montana	0	0	0
Offshore	0	80	80
SE Washington	0	150	150
Total	690	1128	1818

ATC Available transfer capability
LTF Long-term firm
CF Conditional firm

Assumptions

Data pulled as of 6.20.2024

Queried Transmission Services Requests (TSR) with a status of Received, Study and Confirmed.

Request type: Originals and Redirects

Start date: 8.20.2022 which was the close of the 2023 Cluster Study through 8.15.2024, the close of the 2025 Cluster Study.

Those Long-Term Point to Point (PTP) TSRs in a study status and requesting NewPoint, you cannot see their sink, however their Point of Delivery (POD) is BPAT.PGE

Through BPA's Evolving Grid projects, BPAT's system is likely to expand; however, it is hard to predict how many requests will follow through to energization.



2024 IRP OASIS pull of TSRs with a POD of BPAT.PGE

IRP Zone	Long Term Firm	Conditional Firm	Total
Christmas Valley	3	*	
Gorge	875	*	
McMinnville	80	*	
Montana	280	*	
Offshore	80	*	
Southeast Washington	0	*	
Wasco	76	*	
Total	1394	1,360	2,754

*NewPoint TSRs are under study and masked. Therefore, IRP Zones are not available

OASIS - Open Access Same Time Information System
POD - Point of Delivery
TSR - Transmission Services Request

2024 Summary

An overall increase from the last IRP by 936 MWs

LTF increased by 704

CF increased by 232



Load Forecast

Amber Riter and Shannon Greene, PGE

Load Forecast Update

In last summer's CEP/IRP Addendum, we presented an updated load forecast based on the June 2023 load forecast

Rapid evolution in industrial demand created a large change in the forecast and brought to light the need for long-term load forecast methodology to better capture large projects

Today we will present an updated load forecast which aligns the reference case with the latest load trends

- Recent load growth trends
- Methodological updates
- Results
- High and low load futures

Recent Trends – Energy Deliveries

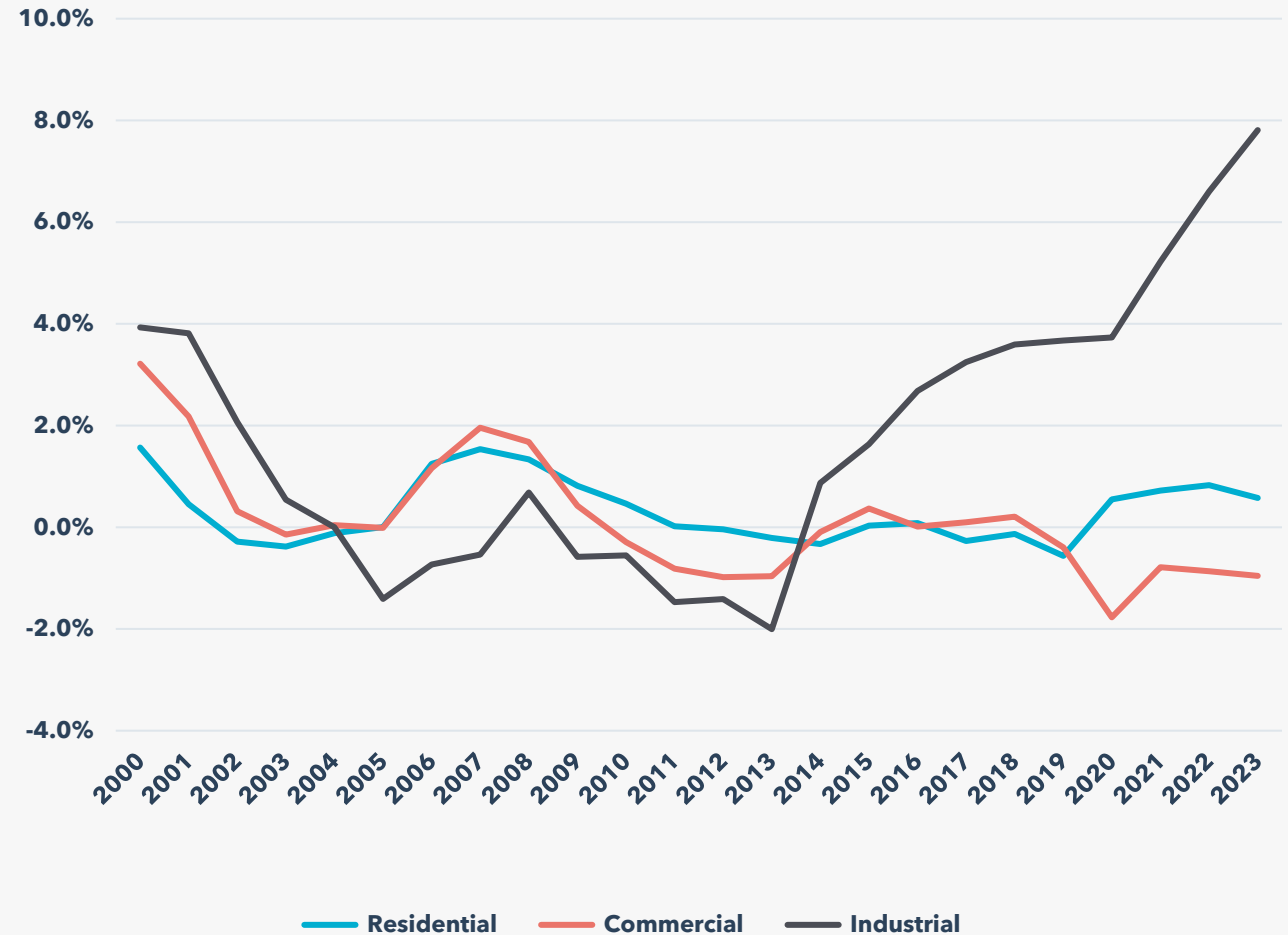
During peak work from home years, energy usage moved from the workplace to the home

This trend has largely normalized

An acceleration of industrial growth has occurred in recent years

This is expected to continue as Oregon's semiconductor industry grows and data center demand from cloud and AI uses expands

5 Year Average Growth Rate by Class

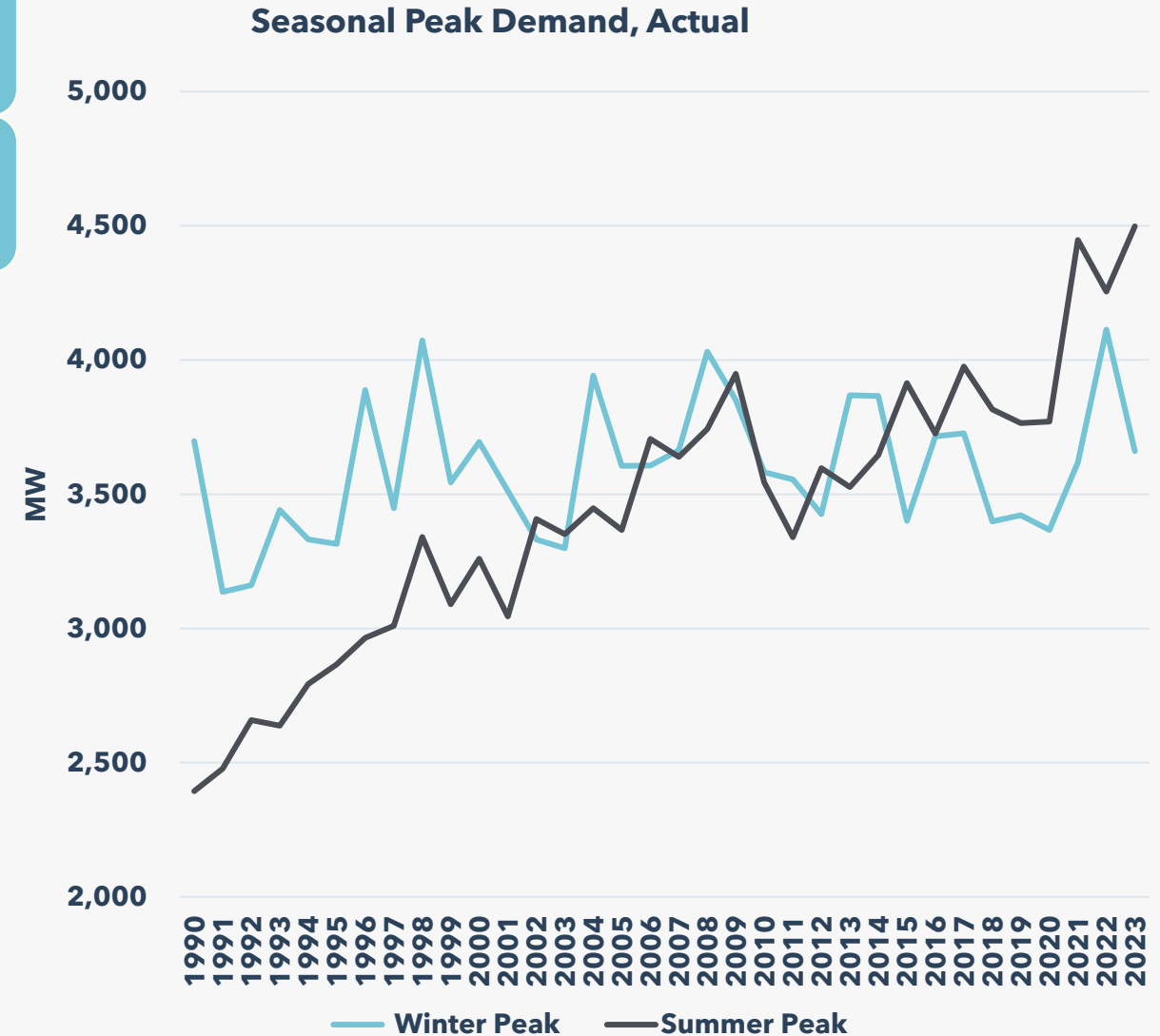
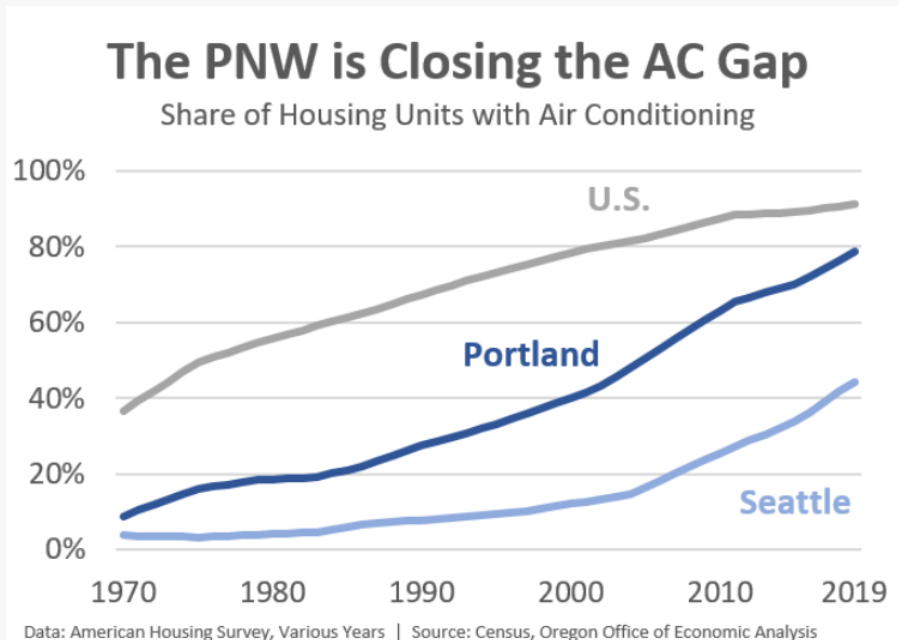


Recent Trends - Peak Demand

PGE's system has been experiencing increasing summer cooling for several decades

This trend has accelerated over the last few years with increased AC saturation and utilization

- Increase in work from home
- Wildfire smoke events in 2020
- Extreme heat events, including the 2021 heat dome



Energy Deliveries Model Overview

Based on historical, monthly
billing data

- Updated 2-4 times per year
- 3 sets of residential equations based on average usage and customer count
- 6 regression equations based on monthly energy deliveries by rate schedule
- Individual forecasts for large customers

Changes in Method

5-year model has been
extended to the full forecast
horizon

+ consistency
across model

+ ability to capture
more information
about large load
additions



Energy Deliveries Model

Residential Models

Estimation Period: UPC 2011-2024, Count 2000-2024,
Building Permits 2010-2024

Data Frequency and source: Monthly, billing data

Grouping: Dwelling type

Model Type: ARIMA

Input Assumptions: Normal weather, including warming trend

UPC = fn (HDD, CDD, wind, energy efficiency, monthly indicators, COVID indicator)

Count = fn (Building Permits, monthly indicators, control indicators)

Building Permits = fn (Housing starts, construction employment, monthly indicators, control indicators)

Heating and cooling degree days

Housing Starts

Energy Efficiency Forecast

Indicator Variables (Covid, monthly)

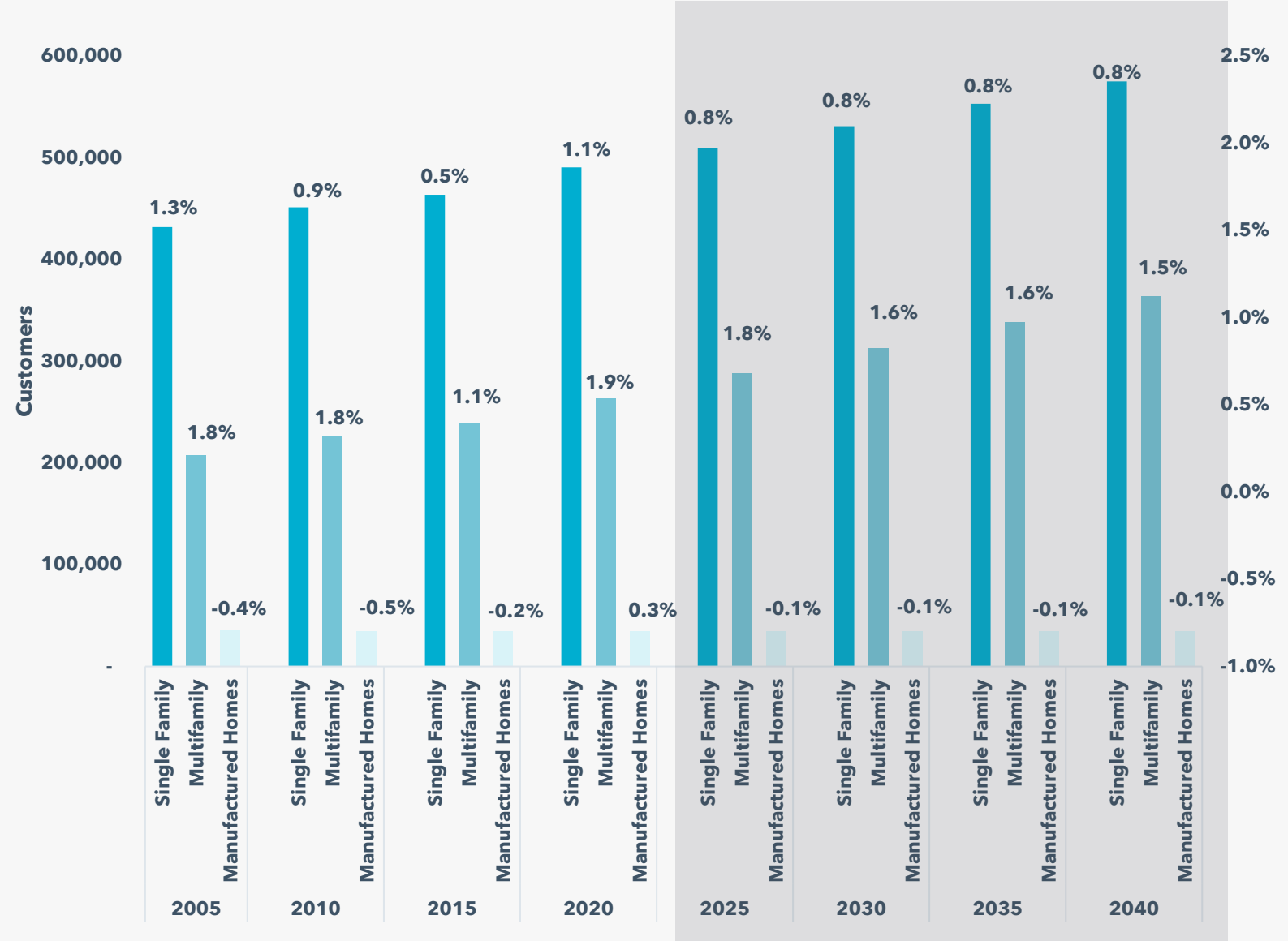
ARIMA: autoregressive integrated moving average
CCD: Cooling Degree Day
HDD: Heating Degree Day
UPC: Usage Per Customer



Residential Customer Forecast

Historically, the majority of PGE's residential customer have been single family (currently ~60%)

- The multifamily sector has been growing rapidly over the last two decades
- This trend is expected to continue in the forecast period



Energy Deliveries Model

Non-Residential Rate Schedule Models

Estimation Period: 2011-2024

Data Frequency and source: Monthly, billing data

Grouping: Rate Schedule

Model Type: ARIMA

Input Assumptions: Normal weather, including warming trend

Heating and
cooling degree
days

Oregon
Employment

Energy
Efficiency
Forecast

Indicator
Variables (Covid,
monthly)

Usage = fn (HDD, CDD, energy efficiency, employment,
monthly indicators, control indicators)

ARIMA: Autoregressive Integrated Moving Average
CDD: Cooling Degree Day
HDD: Heating Degree Day

Energy Deliveries Model

Non-Residential Large Load

Individual customer forecasts for approximately 30 large customers, 24% of 2023 system deliveries

- Focus on large sites with high energy intensity
- Usage is less tied to regional economic indicators
- Can experience stepwise changes in operations

Customer requests

Historic load ramp and comparison to like customer

Segment level industry reports

Company credit review

Acceleration of Semiconductor and Data Center Segments

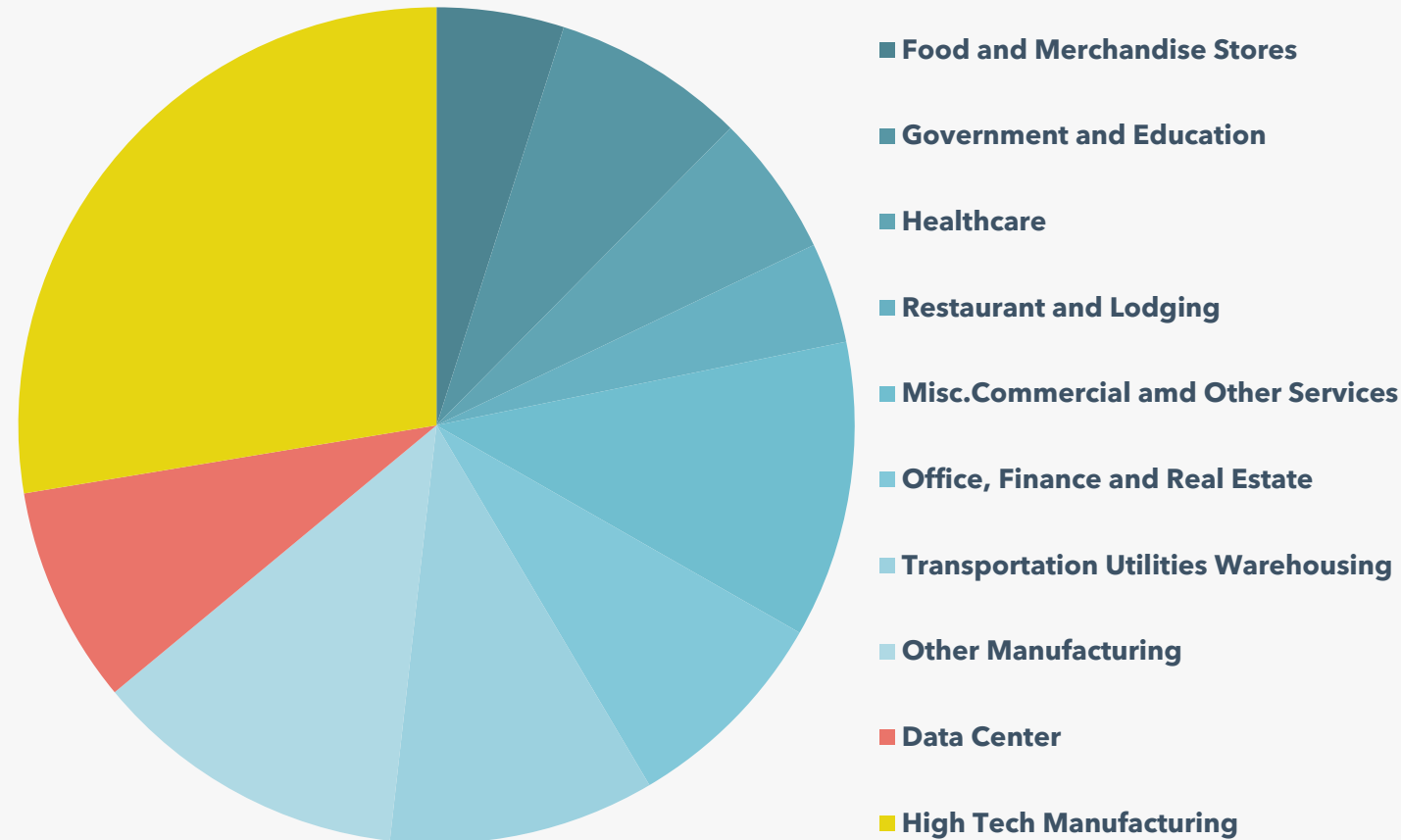
The Oregon CHIPS Program allocates up to \$240M to Oregon semiconductor manufacturers applying for federal CHIPS Act dollars

In March, Intel announced its plans to spend \$36B to modernize and expand in Oregon

Hillsboro continues to be a desirable location for data center developers

CBRE* reports 262.4 MW Inventory and 280.8 MW Under Construction in 2023

Share of 2023 C&I Energy Deliveries



[*https://www.cbre.com/insights/reports/north-america-data-center-trends-h2-2023](https://www.cbre.com/insights/reports/north-america-data-center-trends-h2-2023)

Energy Deliveries Model Resulting Forecast

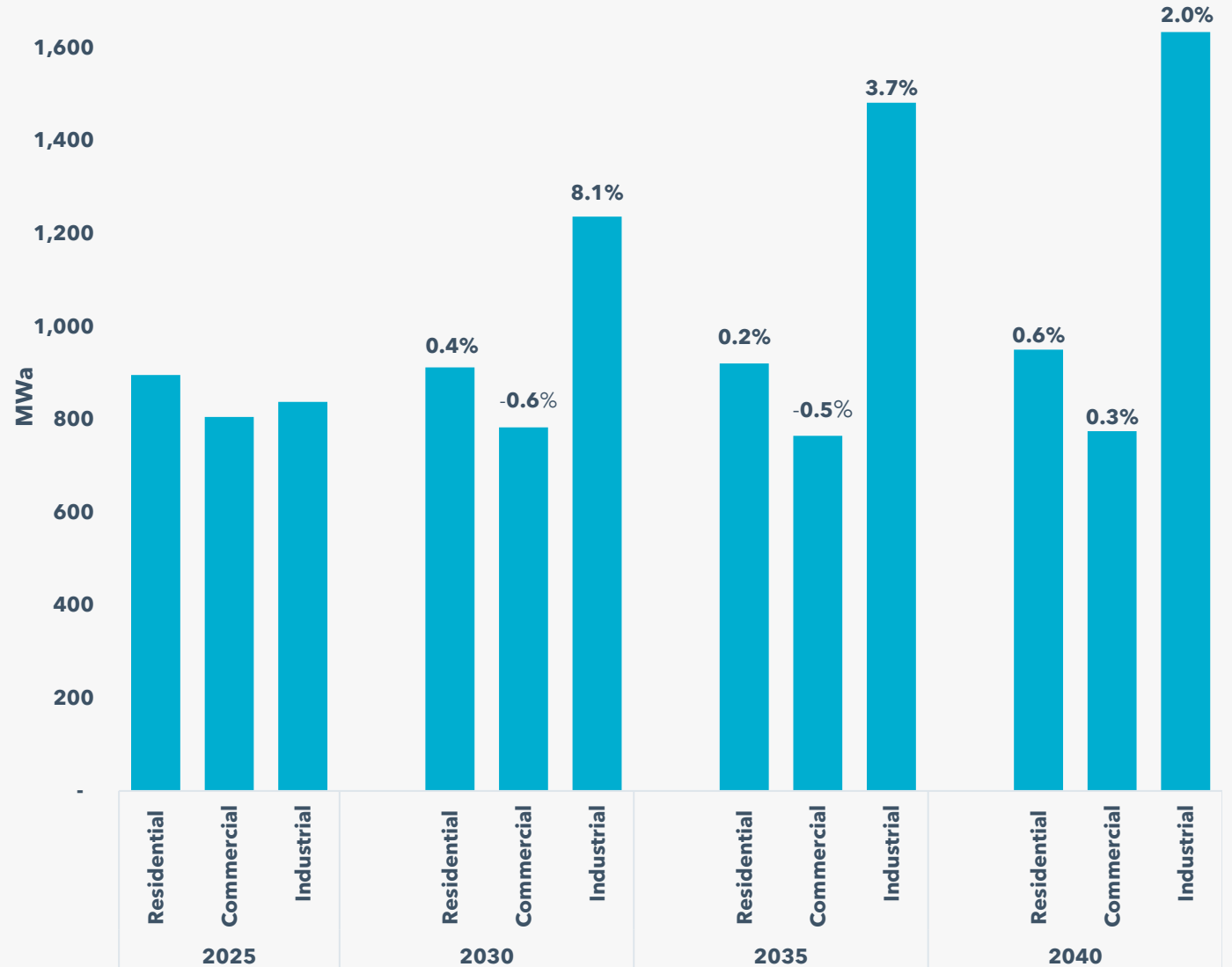
Average 20 Year Growth Rate: 1.9%

Excluding the impact of Rooftop Solar,
Transportation and Building Electrification

The residential and commercial sectors are
expected to remain relatively flat, with energy
efficiency offsetting customer growth

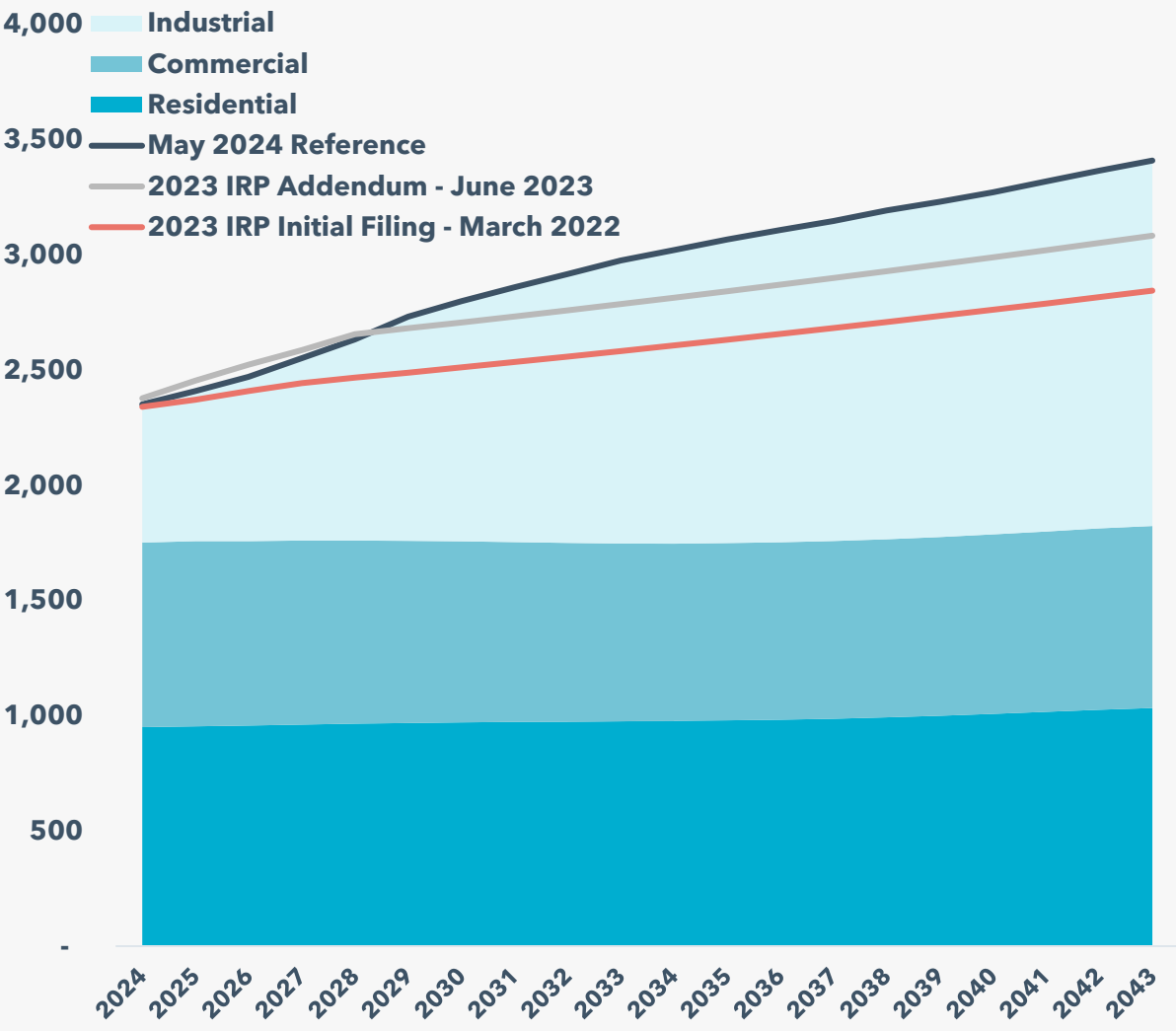
The **industrial** sector is expected to continue
to **grow rapidly**, driven primarily by data
centers and semiconductor manufacturing

The industrial segment **quickly outsizes**
residential and commercial segments





Comparison to 2023 CEP/IRP - Energy



20 Year Average Annual Growth Rates			
	2023 CEP/IRP (March 2022)	2023 CEP/IRP Addendum (June 23)	May 2024 Reference
Total Energy	1.2%	1.6%	1.9%
Residential	0.5%	0.6%	0.4%
Commercial	0.0%	0.0%	-0.1%
Industrial	3.5%	3.9%	5.1%

Peak Demand Model Specification

Estimation Period: 2019-2023

Data Frequency and source: hourly, load research

Grouping: Customer Class

Model Type: Fixed Effect

Input Assumptions: Scale to energy forecast

Hourly Usage = fn (CDD, CDD build up, HDD, HDD build up, wind, solar capacity, trend, indicator variables)

Heating and cooling degree days, and other weather

Solar capacity

Trend

Indicator Variables (Covid, monthly, DOW, extreme events)

CCD: Cooling Degree Day
HDD: Heating Degree Day

Peak Demand Model Simulation Approach

Simulation approach to create a peak demand forecast

1. Simulates load over historical weather year draws used directly in Sequoia (hourly resource adequacy model)
2. Scaled to match monthly energy forecast
3. Average monthly and seasonal peaks used to describe 'expected' peak
4. Probabilistic output created based on standard deviation of simulated peak estimates

Changes in Method

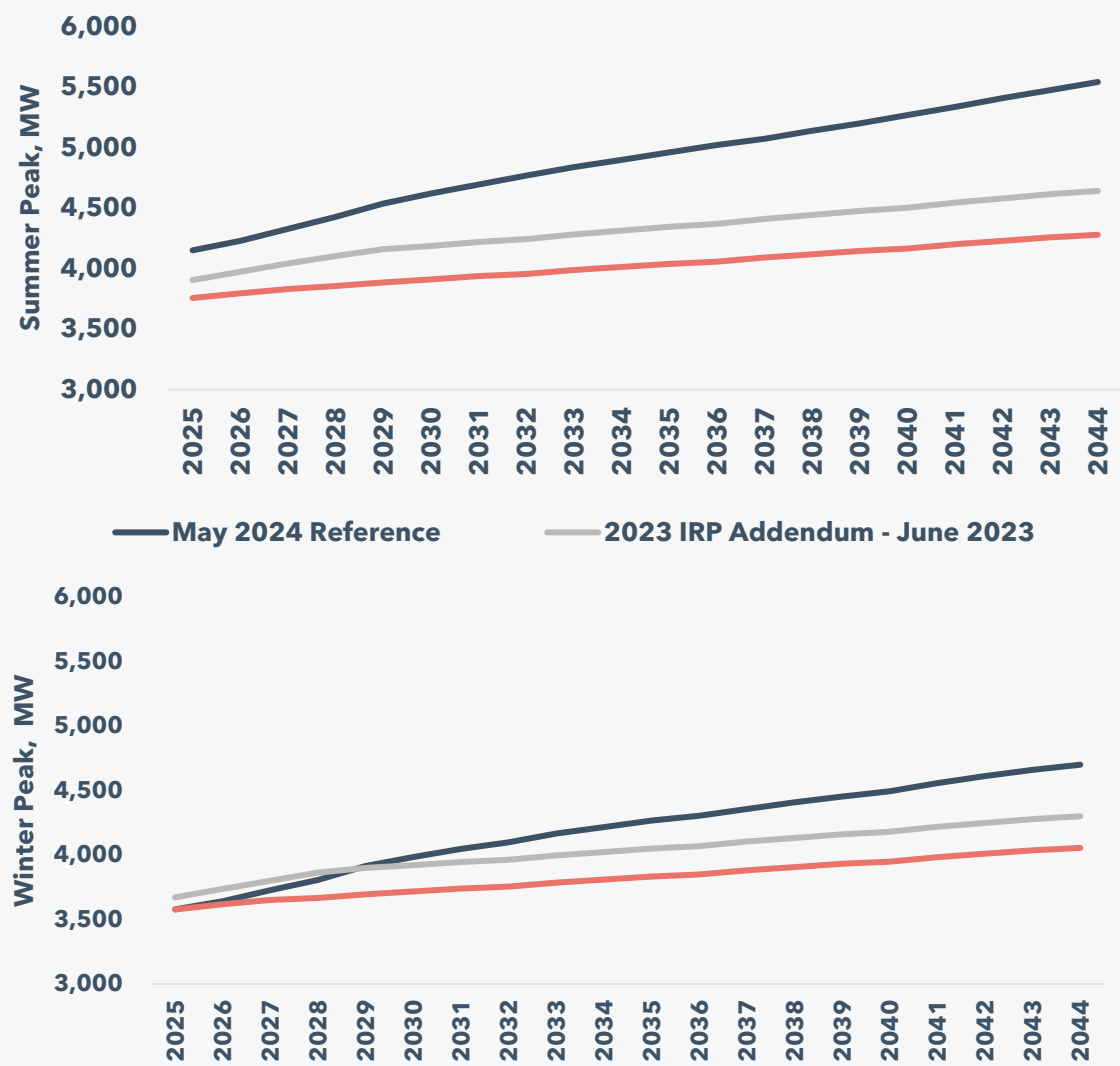
Hourly simulation-based method vs monthly regression

+ shorter history with many more observations

+ class allows for changes in load shape



Comparison to 2023 CEP/IRP Peak



20 Year Average Annual Growth Rates

	2023 CEP/IRP (March 2022)	2023 CEP/IRP Addendum (June 23)	May 2024 Reference
Summer Peak	0.8%	1.1%	1.4%
Winter Peak	0.7%	0.9%	1.3%

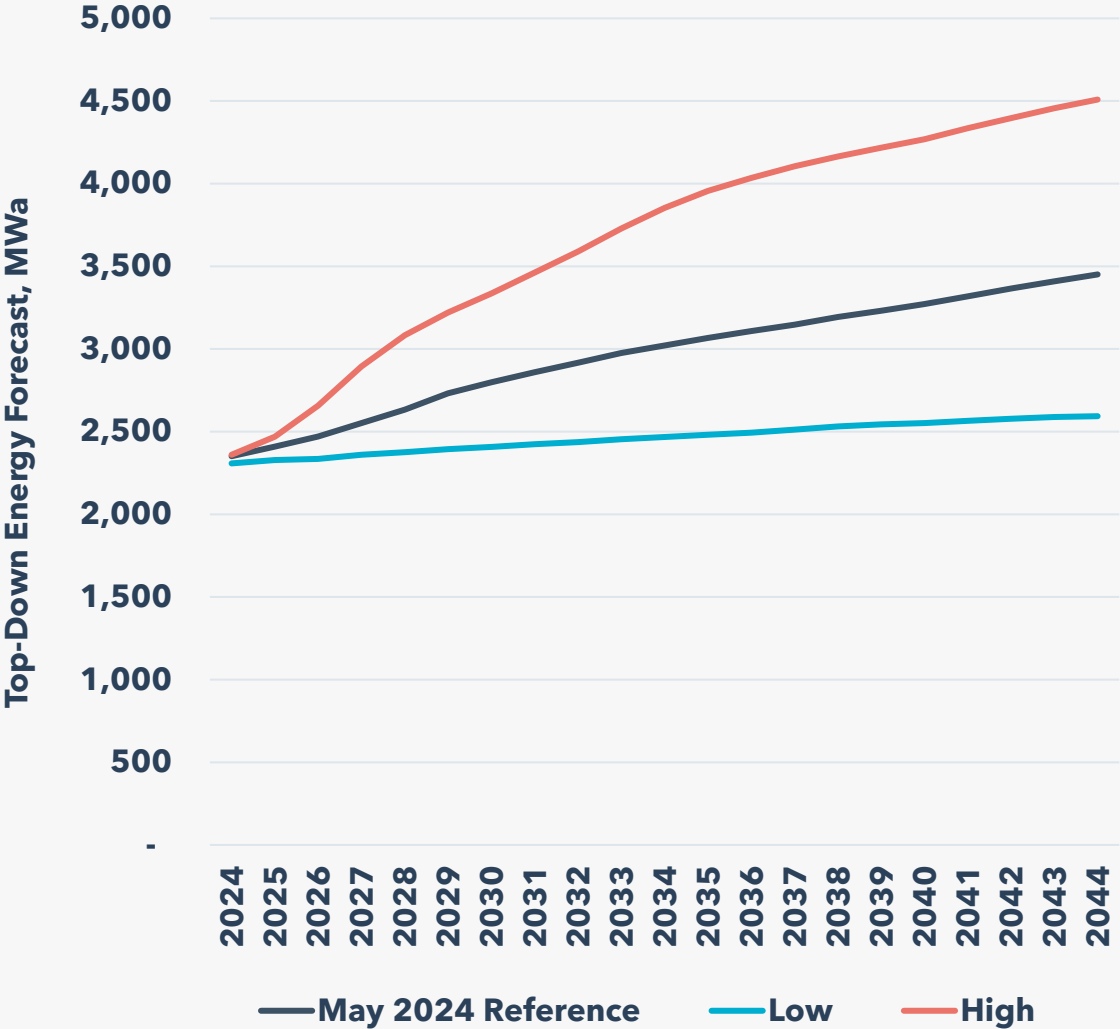
Addressing Uncertainty

The load forecast centers around a base case point estimate. However, the IRP process considers uncertainty associated with load in several ways

- Frequent forecast updates to account for new information
- High and Low load forecasts are developed based on varying economic inputs
- Weather uncertainty is considered within the resource adequacy model Sequoia



Resulting Base Load Forecast – High and Low



Driver	Low Load	Reference	High Load
Population	-0.1%	0.6%	1.5%
Employment	-0.1%	0.7%	1.5%

*Reference case from Oregon Office of Economic Analysis May 2024

	Low Load	Reference	High Load
Total Energy	0.6%	1.9%	3.3%
Residential	-0.2%	0.4%	1.0%
Commercial	-0.8%	-0.1%	0.5%
Industrial	2.9%	5.1%	7.5%

*20-year average annual growth rates for 2024-2043, before DER's



Appendix – Rate Model Specification

Model	UPC & Count	Weather	First Six Months of COVID-19 Pandemic	Monthly Dummies	Energy Trust of Oregon Energy Efficiency	Oregon Employment	Oregon Housing Starts
Single Family	X	X	X	X	X		X
Multifamily	X	X	X	X	X		X
Mobile home	X	X	X	X	X		X
Other Residential		X					
Rate Schedule 32		X		X	X	X	
Rate Schedule 38		X	X	X			
Rate Schedule 83		X		X	X	X	
Rate Schedule 85		X		X	X	X	
Rate Schedule 89				X		X	
Irrigation		X		X			

Resource Economics Update

Robert Brown, PGE



Supply-side Resource Options Overview

What's included

- Overnight capital
- 2023 IRP resource selections
- Updates to EIA (Energy Information Agency) and NREL (National Energy Laboratory Data)

What's not included here

- Tax credits
- Transmission or interconnection costs
- Operating costs
- Financing costs

IRPs use estimates – actual resource costs and parameters will differ

Utility-scale Resource Options



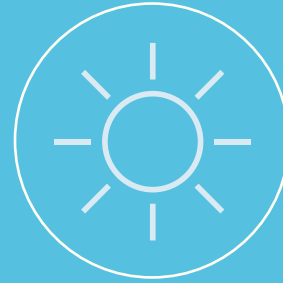
Energy Storage

- Battery Energy Storage Systems (BESS - multiple durations)
- Pumped-Storage Hydro (PSH)



Wind

- Onshore Wind (multiple locations)
- Offshore Wind



Solar PV

- Stand alone (multiple locations)
- Co-located w/ BESS



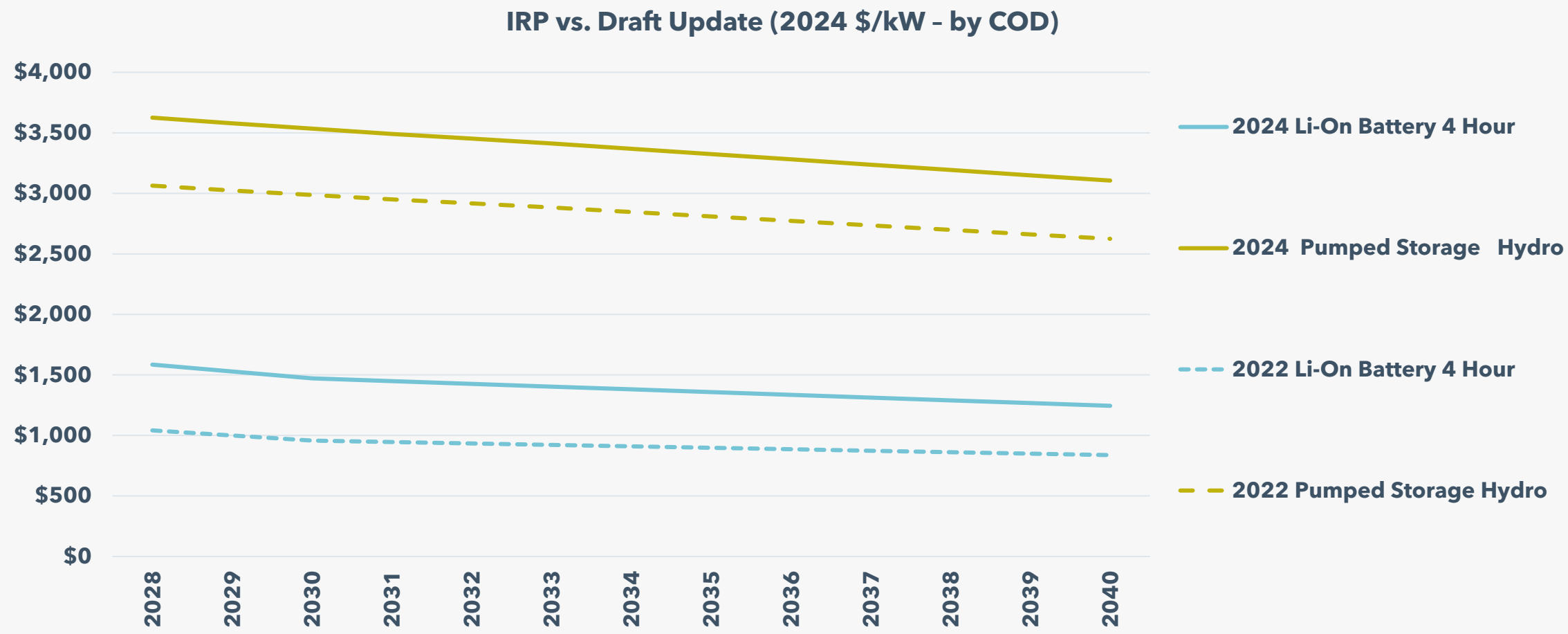
Thermal

- Nuclear SMR
- CCCT w/ H₂
- CCCT w/ CCS
- Geothermal



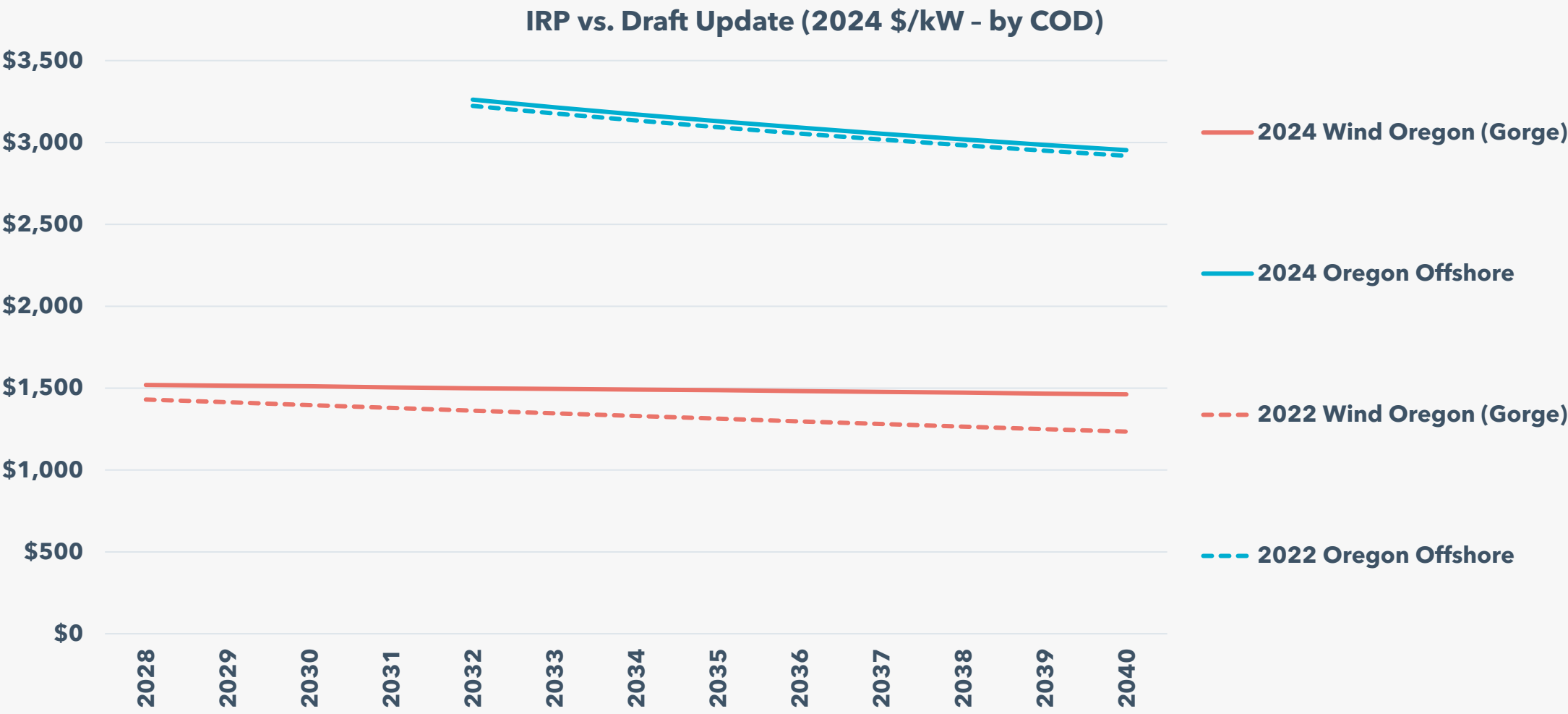


Overnight Capital Updates





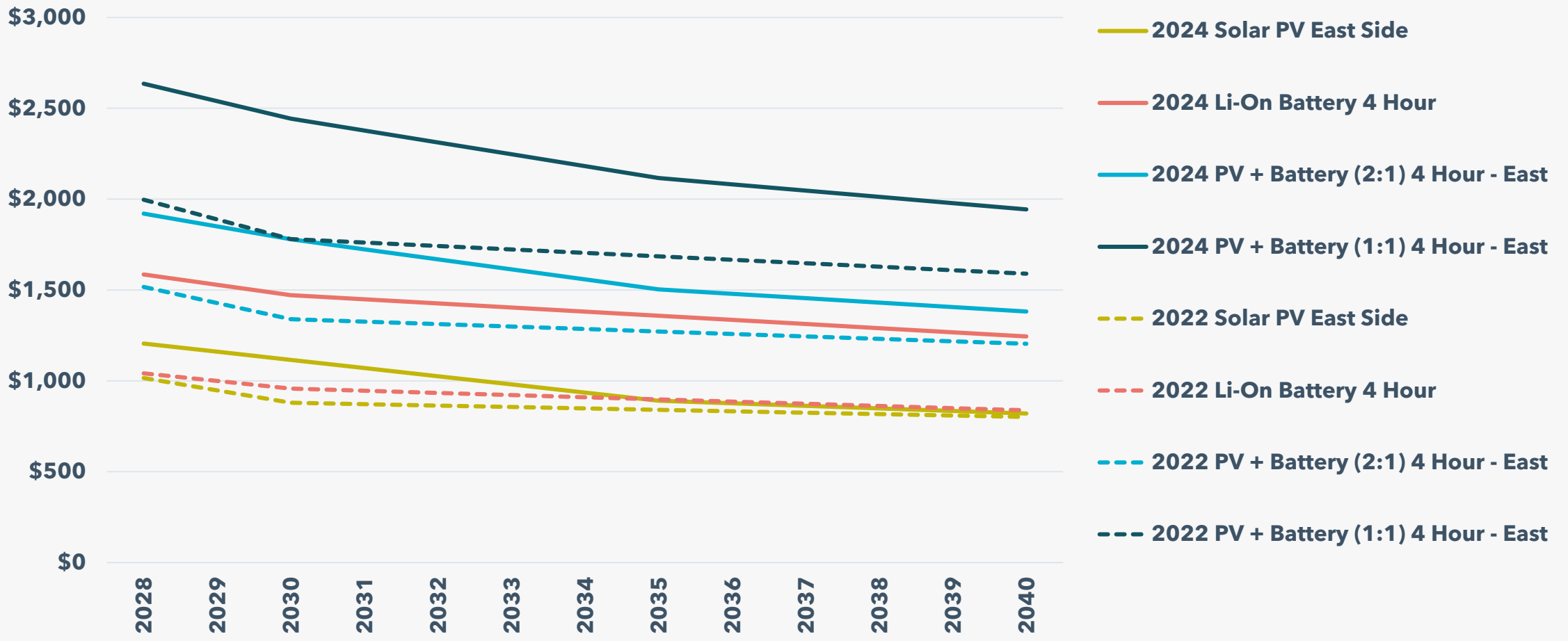
Overnight Capital Updates





Overnight Capital Updates

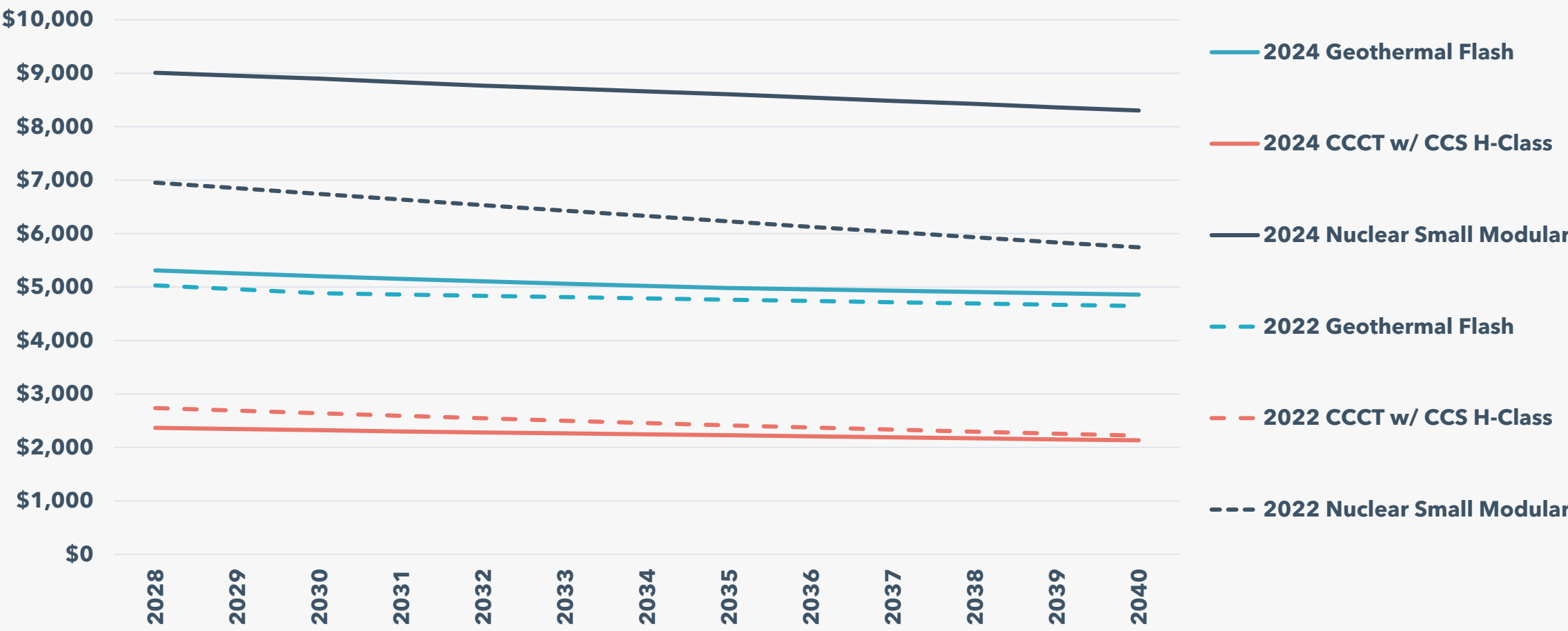
IRP vs. Draft Update (2024 \$/kW - by COD)



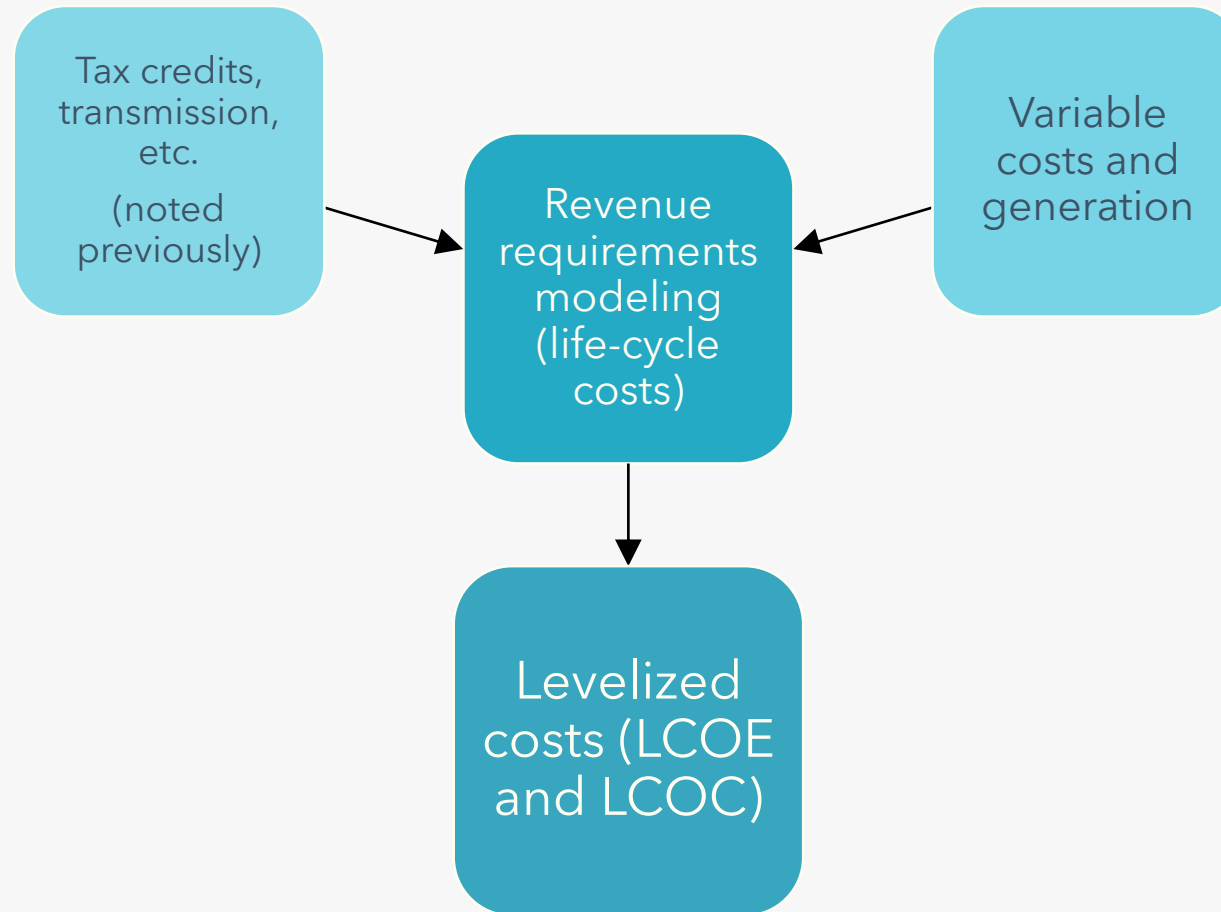


Overnight Capital Updates

IRP vs. Draft Update (2024 \$/kW - by COD)



Still to come...





Small Scale Renewables

Rob Campbell, PGE



Oregon Small-Scale Renewables (SSR) Requirement

PGE is required to meet 10 percent of aggregate electrical capacity with renewable energy facilities less than 20 MW in size* by 2030¹

Starting in 2029, PGE is required to file a report each year demonstrating compliance with the SSR requirement²

** eligible facilities also include biomass that generates thermal energy for a secondary purpose*

1 ORS 469A.210

2 OAR 860-091-0040

SSR Compliance Analysis

The Commission has directed PGE to include a small-scale renewable compliance analysis in the IRP Update*

The analysis will

- Demonstrate PGE's projected SSR compliance position
- Outline actions PGE plans to take to address any identified potential shortfall

** Staff Recommendation 5, adopted by the Commission in LC 80 Order 24-096*

Small Scale Renewables (SSRs) in the 2023 CEP/IRP Update

SSRs will be addressed in two ways in the CEP/IRP Update

1.SSR 2030 Compliance Analysis

2.SSR proxy resource in Portfolio Analysis

Previous Analysis

PGE conducted an SSR analysis in response to Staff Round 1 Comments*

Results of the analysis showed a wide range of potential outcomes for projected quantity of SSRs:

Table 9. Small-Scale Renewables Forecast

Resource Type	Current Capacity per 2023 CEP/IRP	2030 Forecast as updated in CEP/IRP Addendum
Community Solar Program	27 MW	93 MW
PURPA QF < 20 MW	271 MW	281 MW
CBRE	0 MW	155 MW
Customer DERs (AdopDER forecast)	183 MW (not SSR-eligible per Order 21-464)	739 MW of solar 121 MW of storage ¹⁹³
TOTAL SSR ELIGIBLE CAPACITY	298 MW	529 - 1,268 MW

Whether or not net-metered resources will count as SSR is a key unknown in calculation, driving uncertainty in outcomes**

*<https://edocs.puc.state.or.us/efdocs/HAC/lc80hac131341.pdf>

** Net-metered resources are not currently eligible to count toward SSR compliance

Planned Compliance Analysis for the IRP Update

1. Conduct SSR compliance analysis using updated modeling inputs and assumptions that impact resource additions in the Preferred Portfolio (i.e., load and resource forecasts; updated modeling methods) and current compliance rules.

2. Identify any projected shortfalls in SSR quantities

3. Evaluate the impact of alternative assumptions regarding eligibility of customer-sited resources

4. Describe PGE's planned approach for solutions to meeting any shortfalls identified

SSR Proxy Resource in Portfolio Analysis

The IRP Update will include a SSR proxy resource available for selection in portfolio analysis

While SSR resources can be a variety of renewable resources, in portfolio analysis a single SSR proxy resource will be used

SSR proxy resource will be based on an existing IRP proxy resource for utility-scale solar resource, with modified cost assumptions

Because the SSR proxy will be based on the characteristics of utility-scale solar it will be representative of SSRs on the larger end of the spectrum (closer to 20MW)

SSR Compliance Portfolio

Add SSR compliance constraint in ROSE-E

Constrain the model to comply with SSR requirements in every year starting in 2030:

- ROSE-E must meet the conditions of the constraint similar to capacity need, RPS obligation, etc.
- Any remaining SSR obligation after accounting for existing and forecast SSRs on PGE's system must be met with CBRE's and SSR proxy resource

Results from SSR portfolio will provide insights on:

1. Quantity of SSR additions needed for compliance
2. Cost premium associated with SSR compliance
3. Inform SSR acquisition actions



ROSE-E Changes

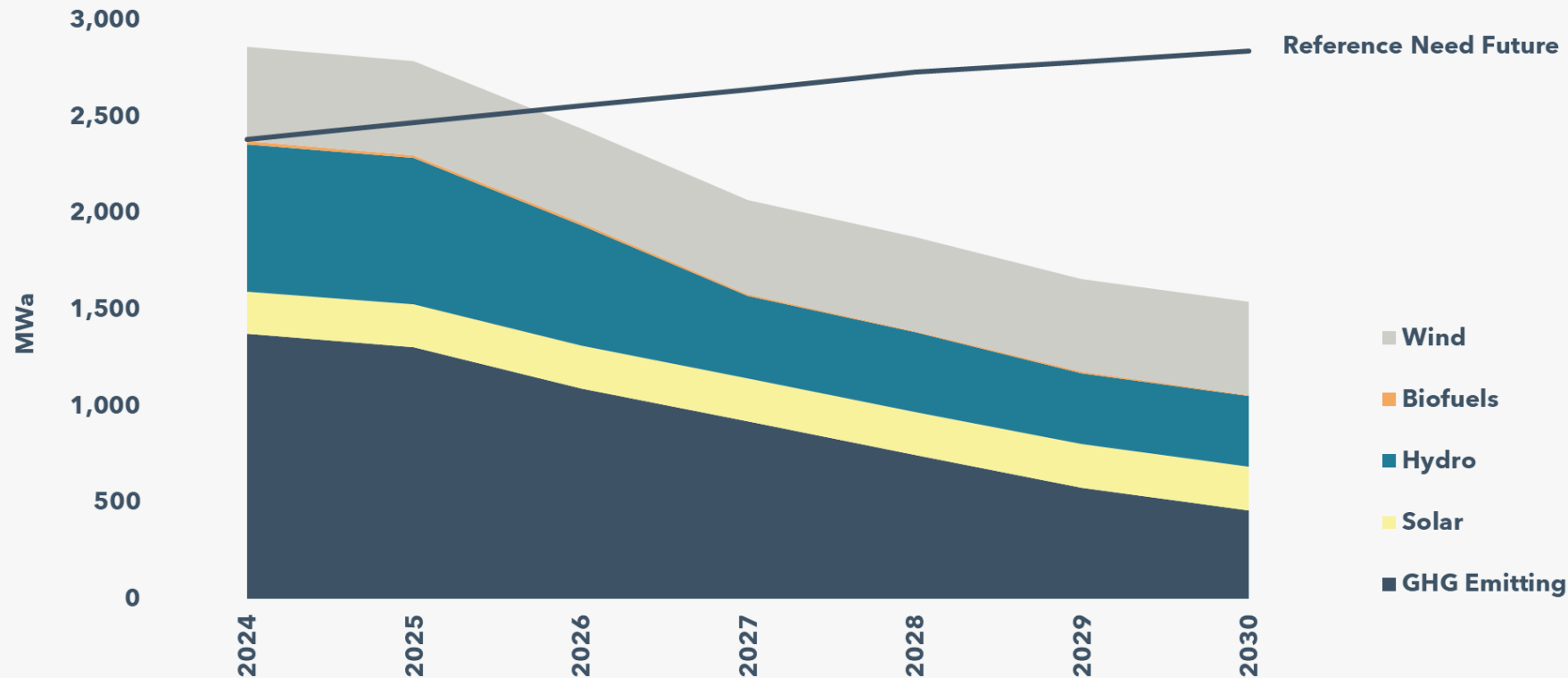
Rob Campbell, PGE

Temporal Granularity Energy Accounting

In the 2023 CEP/IRP, energy need in portfolio analysis was determined based on annual energy load-resource balance

Annual energy need = Annual average load - Annual average resource generation

Example of annual energy load-resource balance for the Reference Case*

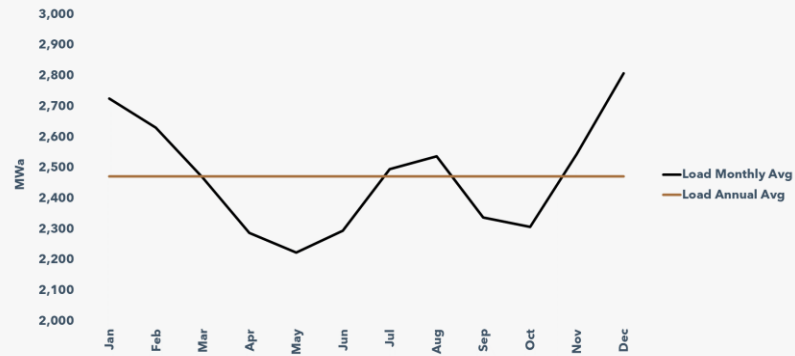


*Reference load, Linear GHG glidepath, RRRR (reference case price future)

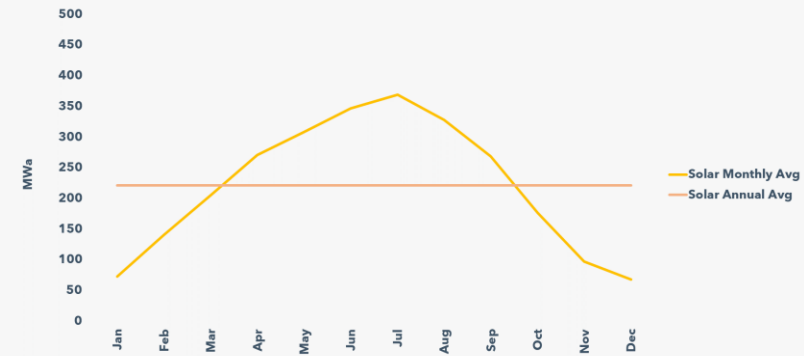
Limitations of Using Annual Energy Accounting

When energy need is calculated at annual level, load and generation are implicitly assumed to have a flat shape throughout each year, failing to capture seasonal variation.

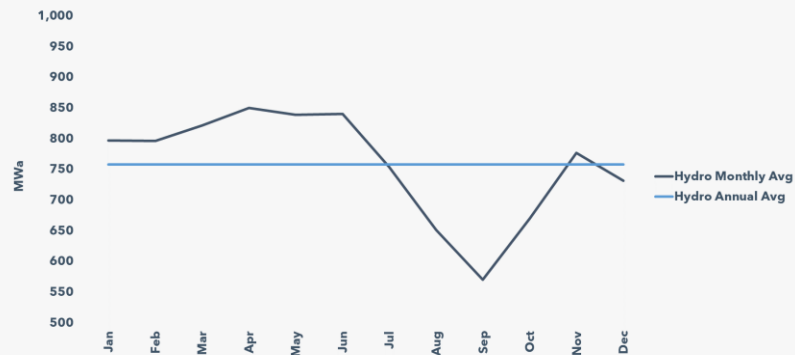
Load



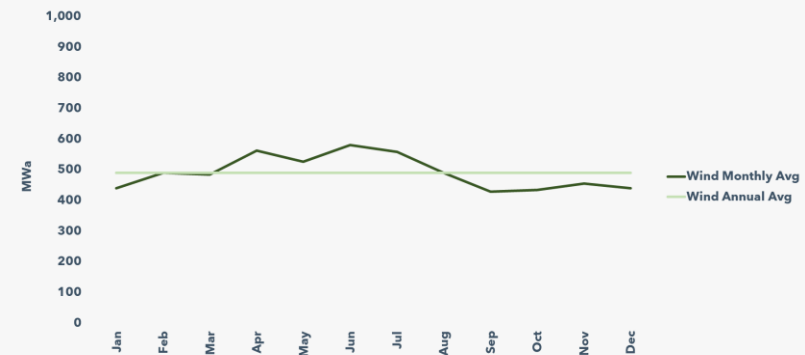
Solar Generation



Hydro Generation



Wind Generation



Improvements to Portfolio Analysis

Capture seasonal variation in energy need

- Increase granularity of capacity factors for existing non-dispatchable resources from annual average to monthly average
- Increase granularity of load forecast from annual to monthly

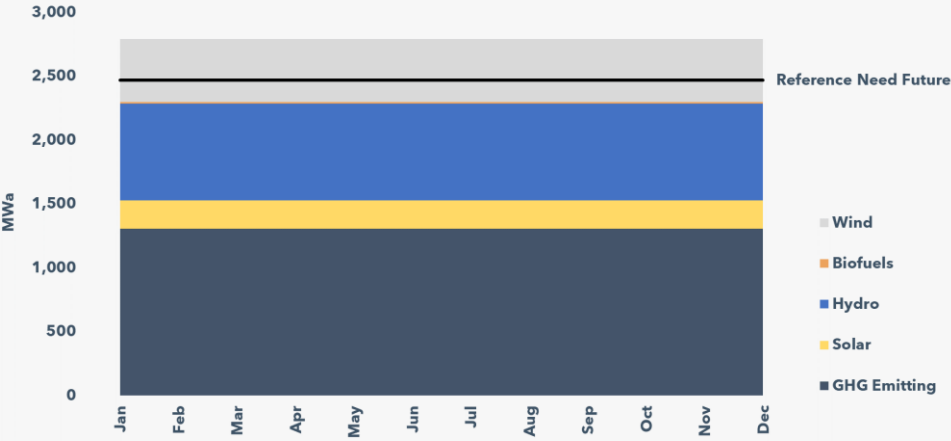
Incorporate seasonality of energy need in optimized resource selection in ROSE-E*

- Add monthly energy constraint
- Increase granularity of energy need input from annual average to monthly average
- Increase granularity of capacity factors for proxy renewable resources from annual average to monthly average
- Allow ROSE-E to co-optimized monthly allocation of GHG-energy

Impact on 2025 Energy Need

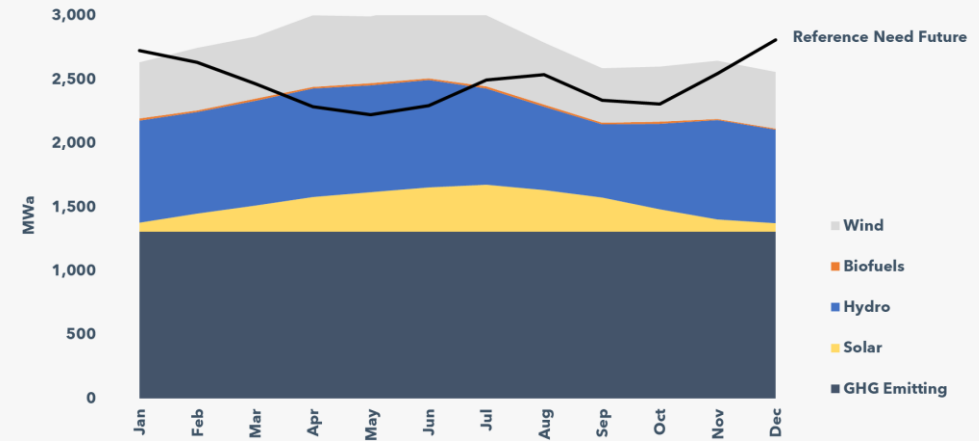
Annual

Long by approximately 300 MWa across the year



Monthly

Long in most months but short approximately 100 MWa in January and 250 MWa in December*



*Before monthly reallocation of GHG-emitting energy.

Allocation of Thermal Generation in ROSE-E

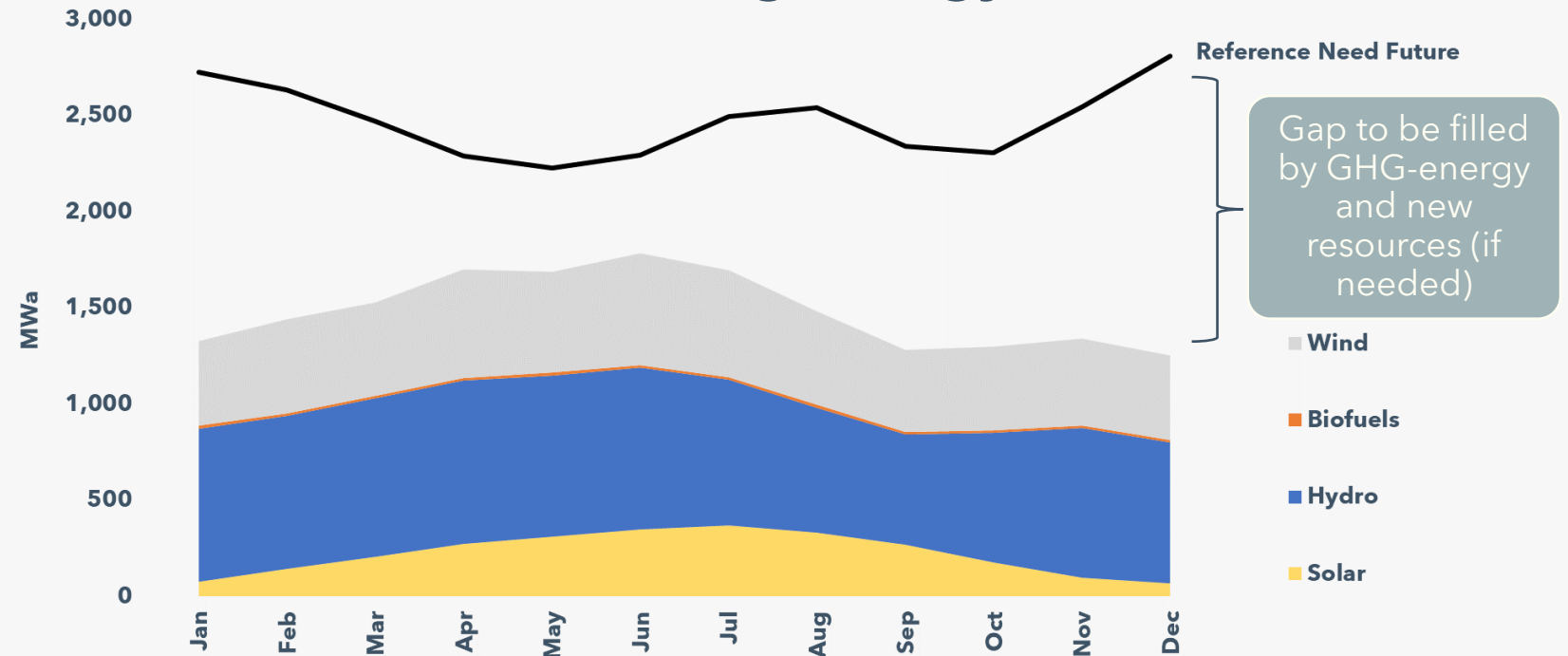
Energy from dispatchable sources cannot be allocated using static average capacity factors like non-dispatchable resources because the timing of their generation is determined by economic and operational decision making.

Remove GHG-emitting energy from calculation of energy need input

Provide ROSE-E with annual quantity of GHG-emitting energy available to serve retail load under HB 2021 targets as determined in PGE's Intermediary GHG model

Allow ROSE-E to determine optimal monthly allocation by meeting monthly energy through co-optimized determination of GHG-energy allocation and new resource additions to meet monthly energy need while minimizing costs

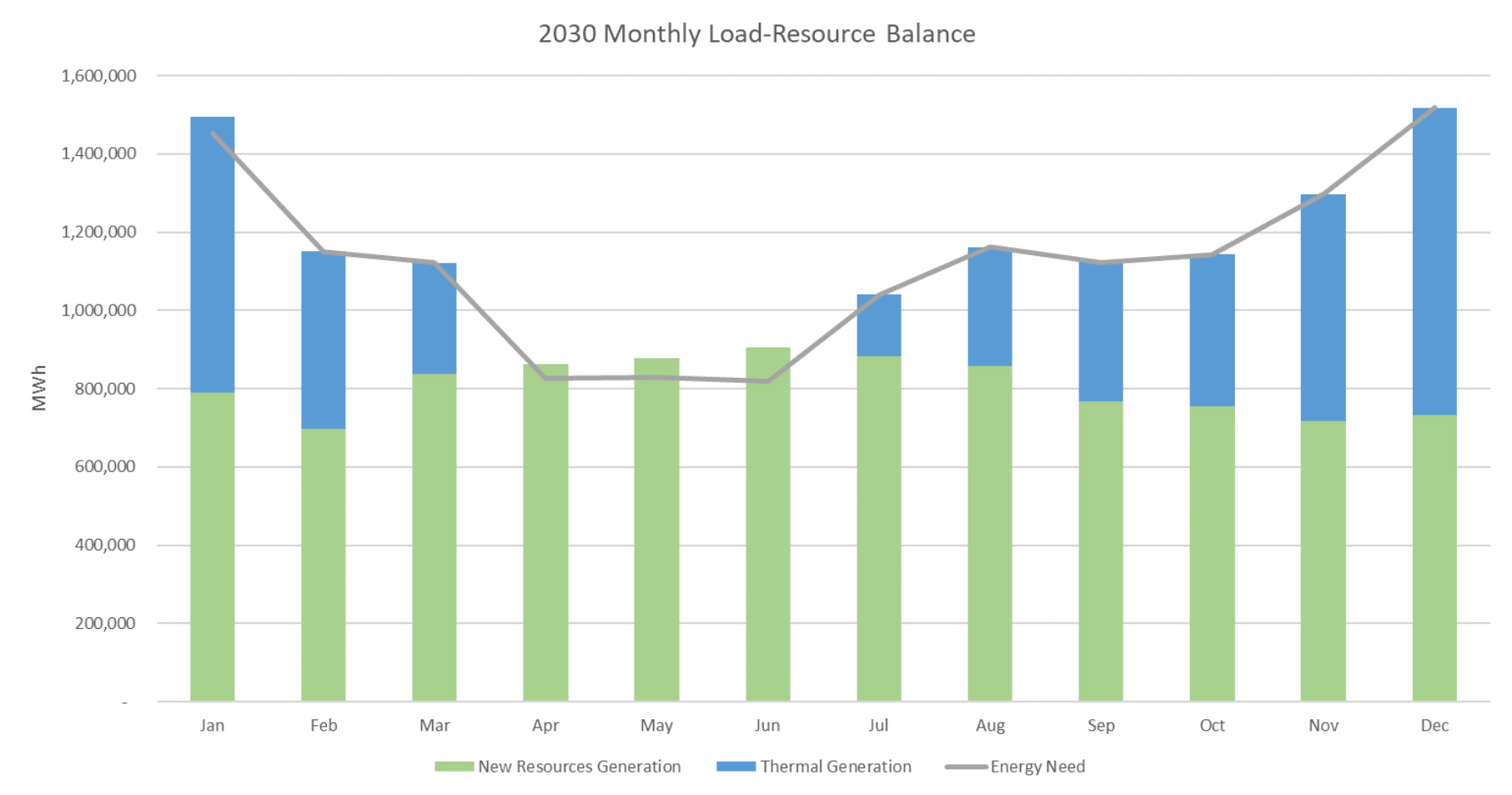
2025 Energy Position Without GHG-emitting Energy



Note: All numbers are for illustrative purposes only

Co-optimization of GHG-energy and Resource Additions

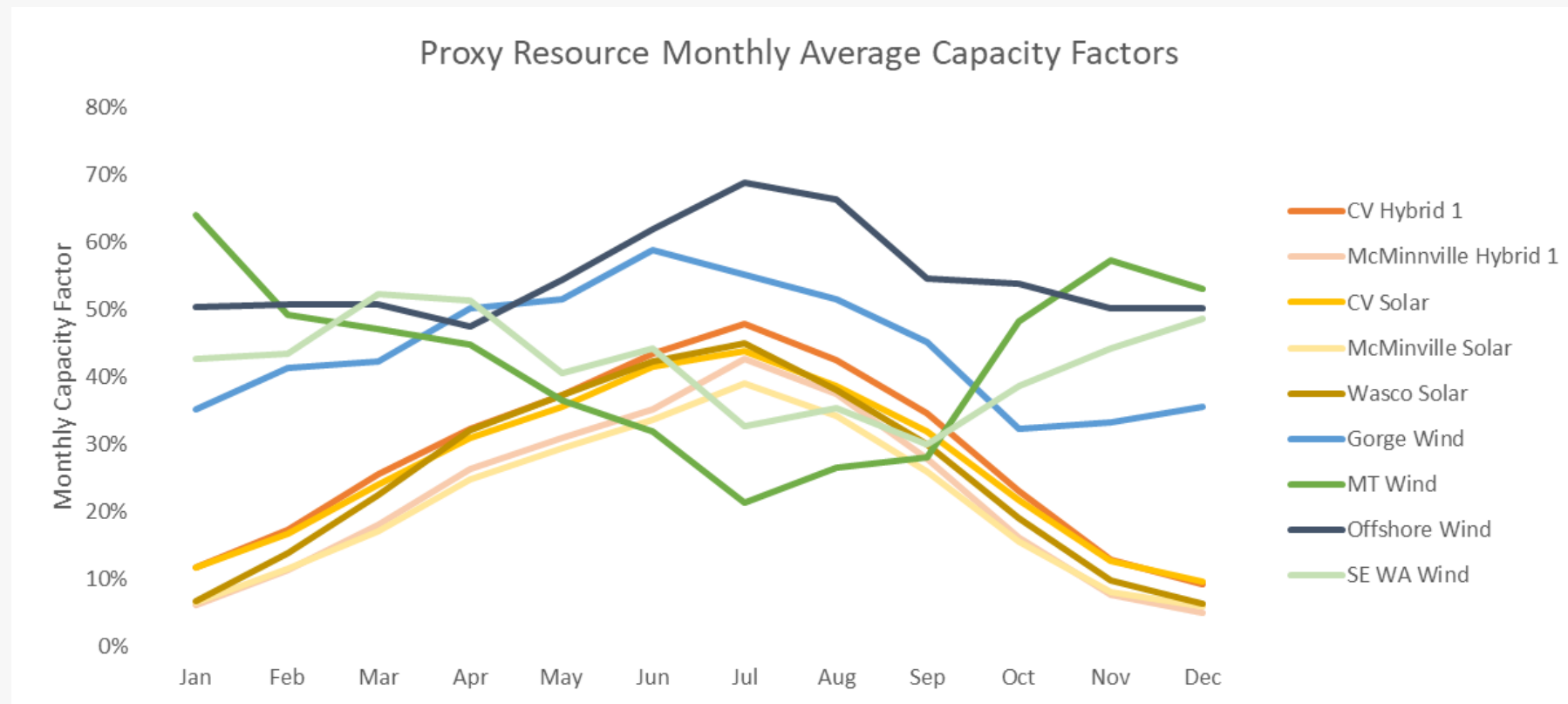
Example of ROSE-E meeting energy need with combination of existing GHG-energy and new resource additions in 2030



Seasonality of Proxy Resource Generation

Seasonal generation shapes of proxy resources will influence how effective they are at meeting monthly energy need

For example, if energy need is concentrated in the winter, adding MT wind with relatively high winter capacity factor will provide more value for meeting energy need than adding Gorge wind*



*Other factors like capacity benefit, cost, and transmission availability also influence resource selection

Balancing the Benefits and Costs of Increasing Temporal Granularity

Monthly granularity offers substantial improvement over annual with ability to capture seasonality of energy need and resource characteristics

Costs of increasing temporal granularity to monthly

- Increased dimensionality of input data (12x number of observations)
- Increased model runtimes

Increasing granularity further would come with significant computing and data handling challenges

- Hourly would increase observations of input data 8760x
- Hourly component is being considered through link with PGE Hourly Analysis*

* Presented in [June 2024 Roundtable](#)

Questions



NEXT STEPS

A recording from today's webinar will be available on our website in one week

Upcoming Roundtable: August 7th

Distribution System Workshop: July 25th

Thank you

Contact us at
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kind of energy



ACRONYMS

ARIMA: autoregressive integrated moving average

ART: annual revenue-requirement tool

ATC available transfer capability

BPA: Bonneville Power Administration

C&I: commercial and industrial

CBI: community benefit indicators

CBIAG: community benefits and impacts advisory group

CBRE: community based renewable energy

CDD: colling degree day

CEC: California energy commission

CEP: clean energy plan

CF conditional firm

DC: direct current

DER: distributed energy resource

DR: demand response

DSP: distribution system plan

EE: energy efficiency

ELCC: effective load carrying capacity

EJ: environmental justice

ETO: energy trust of Oregon

EUI: energy use intensity

GHG: greenhouse gas

HB2021: House Bill 2021

HDD: heating degree day

IE: independent evaluator

IOU: investor-owned utilities

ITE: information technology equipment

ITC: investment tax credit

kW: kilowatt

LOLH: loss of load hours

LT/ST: long term/ short term

LTF long-term firm

MW: megawatt

MW_a: mega watt average

NAICS: North American industry classification system

NCE: non-cost effective

NG: natural gas

NPVRR: net present value revenue requirement

OASIS Open Access Same Time Information System

ODOE: Oregon department of energy

PPA: power purchase agreement

PSH: pumped storage hydro

PUC: public utility commission

PURPA: Public Utility Regulatory Policies Act

PV: photovoltaic

REC: renewable energy credit

RLRR: low carbon price future

ROSE-E: resource option strategy engine

RPS: renewable portfolio standard

RRRR: reference case price future

RTO: regional transmission organization

SoA: South of Allston

T&D: transmission and distribution

TSR: transmission service request

TSEP: TSR study and expansion process

Tx: transmission

UPC: usage per customer

UPS: uninterruptible power supply

VER: variable energy resources

VPP: virtual power plant

WECC: western electricity coordinating council

Intelligent Investment

North America Data Center Trends H2 2023

Technological innovation is driving record demand despite power constraints.

March 6, 2024

10 Minute Read



State of the Market

State of the Market

- In 2023, primary market supply grew 26% year-over-year to 5,174.1 MW.
- An all-time high of 3,077.8 MW was under construction in primary markets, a 46% year-over-year increase. Construction increased most in Atlanta, growing by 211% to 732.6 MW under construction.
- The average monthly asking rate for a 250- to 500-kW requirement across primary markets increased by 18.6% year-over-year, to \$163.44 per kW/month. Northern Virginia had a 42% year-over-year price increase, the largest among primary markets.
- Preleasing activity in primary markets is strengthening, with 2,553.1 MW (83%) of the 3,077.8 MW under construction preleased. Cloud providers continue to lease most available power capacity, but artificial intelligence (AI) is also driving significant demand.
- The overall vacancy rate for primary markets remains near a record low, at 3.7%. With few relocation options, most tenants are renewing existing leases rather than seeking new facilities.

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*Vacancy Y-o-Y changes are calculated by comparing the difference between H2 2023 and H2 2022.

**Rental rates are quoted asking rates for 250+ kW at N+1/Tier III requirements.

Source: CBRE Research, CBRE Data Center Solutions, H2 2023.

Figure 2: H2 2023 Wholesale Secondary Market Fundamentals



*Vacancy Y-o-Y changes are calculated by comparing the difference between H2 2023 and H2 2022.

**Rental rates are quoted asking rates for 250+ kW at N+1/Tier III requirements.

Source: CBRE Research, CBRE Data Center Solutions, H2 2023.

Center Trend Markets

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National Lease Pricing

- Limited supply and strong demand drove up asking rates in H2 2023. The average asking rate across primary wholesale colocation markets for a 250- to 500-kW requirement increased by 18.6% year-over-year to a record \$163.44 per kW/month.
- Occupiers in California and Virginia faced higher operating costs due to rising fuel costs and taxes as well as electricity rate increases in certain local jurisdictions.
- Data center operators are increasingly investing in renewable energy sources and electricity efficiency practices with cooling technologies. While potentially offering long-term savings, this may require significant upfront investment that can cause pricing to increase.
- Generally, there is a material pricing difference between a new-build facility and a legacy data center.
- Construction costs remain elevated due to ongoing shortages in critical materials like generators, chillers and transformers, despite improved supply chain resilience.

Figure 3: Average Asking Rental Rate with Y-o-Y % Change for Primary Markets



**Rental rates are quoted asking rates for 250–500 kW at N+1/Tier III requirements.

Source: CBRE Research, CBRE Data Center Solutions, H2 2023.

Capital Markets Insights

- New capital sources are attracted by record tenant demand, historic low supply, strong rental growth and data center investment performance. There are ample debt financing options across real estate lenders, infrastructure funds, project finance, TMT lenders, life insurance companies and others.

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— In this higher-interest rate environment, debt yield and debt-service coverage ratio have become the preferred metrics, as opposed to loan-to-value. As a result, overall leverage levels have decreased to meet cash flow metric stipulations.

Notable H2 2023 Investment Activity

- Transactions announced by Digital Realty drove significant investment activity:
 - \$7 billion joint venture initiated with Blackstone to develop hyperscale data centers in Frankfurt, Paris and Northern Virginia
 - \$1.3 billion sale of its 80% interest in three Northern Virginia data centers to TPG Real Estate
 - \$743 million sale of its 65% interest in two stabilized data centers in Chicago to GI Partners
 - \$275 million sale of its remaining interest in four Cyxtera data centers to Brookfield
 - \$200 million sale of its 80% interest in a build-to-suit data center in Northern Virginia to Realty Income
- KDDI closed its \$1 billion acquisition of Allied Properties' data center portfolio.
- Manulife Investment Management completed its acquisition of Serverfarm.

Figure 4: Inventory Growth of Primary Data Center Markets since 2020



Source: CBRE Research, CBRE Data Center Solutions, H2 2023.

Valuation Insights

Transactional data remained limited in H2 2023. However, activity increased in Q4, which included asset sales from Cyxtera's bankruptcy and new investments from Brookfield. Although capital costs remain high, market-level supply-and-demand dynamics continue to support strong rent growth. Landlords are eager to end leases in power-constrained markets to re-lease at higher prices. Increased market rent dynamics have the potential to push down cap rates and create opportunity for non-stabilized assets with contracts below the current market rate. Some operators are also exploring underserved markets.

Lending activity persists for projects under construction, especially preleased and stabilized assets where developers and operators have committed to completion schedules to meet promised lease commencement dates. Data center providers and customers continue acquiring land in both primary and secondary markets, with lack of suitable sites causing bidding wars for offerings that meet desired power and fiber requirements.

The largest hyperscalers' new developments will complete construction and become operational in established, secondary and tertiary markets over the next few years—with AI requirements driving further demand. This demand increased through H2, leading to significant debt financing by firms such as Blackstone/QTS, Compass and PGIM to fund new development. Additionally, Vantage Data Centers announced a significant

Figure 5: Primary Markets Historic Net Absorption, Preleasing & Under Construction



Source: CBRE Research, CBRE Data Center Solutions, H2 2023.

Network Insights

— Notable Network Activity

- More middle-mile fiber infrastructure is being built across the U.S., including Lake Michigan's first carrier-neutral underwater cable project, announced in H2 2023. A component of the \$87.5 million project is two new cables under Lake Michigan connecting Grand Rapids, MI to Lakeside Technology Center at 350 E Cermak Rd. in Chicago. This will strengthen Michigan's data center market, offering a new long-haul path and lower latency.
- Last year, major content providers constructed and/or financed more custom fiber networks to interconnect hyperscale facilities. These private networks provide alternative, low-latency, high-capacity pathways between their facilities. Development is continuing in primary markets such as Atlanta, Dallas-Ft. Worth and Northern Virginia, as well as in tertiary markets such as New Albany, OH, Huntsville, AL, Nashville, TN and Altoona, PA.

— Electric companies such as Dominion, Georgia Power and ComEd have begun deploying and maintaining fiber networks in primary

to connect the Elk Grove data center hub near O'Hare International Airport to the downtown core. The Illinois State Toll Highway Authority (ISTHA) is currently deploying new fiber along key Tollway fiberoptic network routes where demand surpassed existing capacity. Large companies such as AT&T, Verizon, Comcast, Astound Broadband, Crown Castle, Zayo and Lumen also have Chicago-based projects at varying development stages.

Figure 6: Total Inventory vs. Under Construction by Primary Market, H2 2023



Source: CBRE Research, CBRE Data Center Solutions, H2 2023.

Figure 7: Total Inventory vs. Under Construction by Secondary Market, H2 2023



Explore the North America Data Center Trend Markets

[View Market Profiles](#)

Data Center Outlook

- Data center infrastructure demand keeps increasing with the economy's continued digitization. Revenue from generative AI software advancements is expected to increase at a 58% compound annual growth rate from 2023 to 2028, according to S&P Market Intelligence. This growth is being fueled by AI's further development across technology, healthcare, finance and other sectors.
- Digital transformation will accelerate the need for processing power, storage and cloud services in colocation and hyperscale data centers to provide organizations with more flexibility. However, certain workloads will remain on-premises.
- Cloud service provider and AI company partnerships with other large U.S. companies may emerge to help bring new AI solutions to end users. This will lead to new edge data centers deployed on- or near-premises across various real estate asset classes, including retail, industrial, office, telecommunications towers and more.
- More operators and developers of industrial, retail, shopping center and office real estate will install low-latency fiber, DAS systems and private networks to attract both data-intensive and connectivity-focused occupiers.
- Colocation pricing is expected to increase by double-digits in 2024, as limited power availability and other constraints prevent available supply from expanding quickly.
- Despite power availability delays and rising construction costs, under-construction activity in primary markets is expected to reach a new all-time high of more than 2,500 MW in 2024.
- New markets across North America, like Wisconsin and Indiana, will host large data center campuses in 2024. This will be influenced by tax incentives, renewable power advancements, transmission and distribution electricity infrastructure and affordable power supply.

Trends to Watch

- International Data Corporation (IDC) forecasts that the global AI software market will grow from \$64 billion in 2022 to nearly \$251 billion in 2027, a 31.4% compound annual growth rate.
- Data centers will require more storage and compute capacity as business, commerce and personal smart device usage continues rising. There will be over 50 billion Internet of Things-connected (IoT) devices by 2025, according to McKinsey.
- More North American utility companies and municipalities will consider transmission and distribution infrastructure development to expand load growth capacity, reducing electricity grid constraints.
- Adoption of newer, lower-carbon energy solutions such as nuclear, geothermal and hydropower will continue, instead of natural gas and coal.
- Natural gas prices remained stable in 2023, after a volatile 2022. In markets highly dependent on natural gas, such as Atlanta and Dallas-Ft Worth, will we continue to see appetite for additional renewable energy projects such as wind and solar?
- Vacancy rates are projected to be near record-lows in 2024, which will prompt users to shift from lengthy request-for-proposal (RFP) processes to simplified letters-of-intent (LOI) for quicker space procurement.

Market Buzz

Individual market pages now feature 10+ MW pricing tier.



Denver

Data center development in the Rocky Mountains has enabled markets like Salt Lake City, UT and Reno, NV to attract major hyperscalers and developers. Tax incentives and ample land availability further this region's appeal. Last year, a Colorado state bill enabling an operator to claim a refund of all state sales and use tax on data center equipment costs failed to pass. But potential new state tax legislation this year could help draw further development.



Columbus/New Albany, OH

Columbus has benefitted tremendously from affordable and reliable regional power availability. Low natural disaster risk, an unregulated electricity market and competitive power costs are major attractions for further regional development. Developers are seeking new frontiers for growth outside of New Albany and into adjacent counties with power capacity. Land prices are more competitive than major markets like Chicago and Northern Virginia, furthering developer interest.

Atlanta



A major hyperscaler is seeking 4,000 MW in the Atlanta market.

Chicago



Demand continues to grow from financ

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Contacts

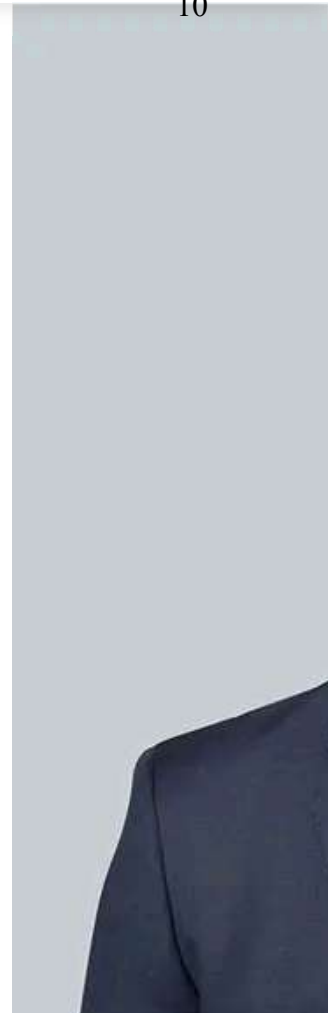
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