

December 20, 2010

Public Utility Commission of Oregon Attn: Filing Center 550 Capitol Street, N.E., Suite 215 Salem, OR 97301-2551

RE: Advice No. 10-27, Schedule 201 Qualifying Facility Information Update

In addition to the electronic filing, enclosed is the original along with three courtesy copies with a requested effective date of <u>January 19, 2011</u>:

Fourth Revision of Sheet No. 201-3 Fourth Revision of Sheet No. 201-4 Fourth Revision of Sheet No. 201-5 Fifth Revision of Sheet No. 201-7 Fourth Revision of Sheet No. 201-9 Fifth Revision of Sheet No. 201-10 Fourth Revision of Sheet No. 201-11 Fourth Revision of Sheet No. 201-12

The purpose of this filing is to revise Schedule 201, Qualifying Facility Power Purchase Information for Qualifying Facilities 10 MW or Less. The updated avoided costs have been prepared consistent with the methodology used in the current Schedule 201 avoided costs.

PGE is filing updated avoided costs at this time because the Commission accepted Staff's motion to acknowledge PGE's 2009 Integrated Resource Plan (IRP) at its special public meeting on November 19, 2010. The Commission subsequently issued an acknowledgement order¹ on November 23, 2010. Per OAR 860-029-0040 (4) (a) "each public utility shall file with the Commission, within 30 days of Commission acknowledgement of its least-cost plan pursuant to Order No. 89-507, standard rates for purchases from qualifying facilities with a nameplate capacity of one megawatt or less, to become effective 30 days after filing." OAR 860-029-0080 (3) indicates the same timeline. The methodology used to establish the resource sufficiency period in this filing is consistent with Commission Order 05-584.

<sup>&</sup>lt;sup>1</sup> Docket LC-48, Order No. 10-457

PGE Advice No. 10-27 Page 2

Work papers detailing the avoided cost calculations are attached.

Should you have any questions or comments regarding this filing, please contact Rob Macfarlane at (503) 464-8954.

Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com

Sincerely,

Randall J. Dahlgren

Director, Regulatory Policy & Affairs

**Enclosures** 

cc: Service List - UM 1129 w/out work papers

## CERTIFICATE OF SERVICE

I hereby certify that I have this day caused the following: **PORTLAND GENERAL ELECTRIC COMPANY'S ADVICE NO. 10-27, SCHEDULE 201 QUALIFYING FACILITY POWER PURCHASE INFORMATION UPDATE** to be served to the following parties or attorneys listed on the attached service list by electronic mail and by First Class US Mail, postage prepaid and properly addressed, to those parties on the attached service list who have not waived paper service.

Dated this 20<sup>th</sup> day of December, 2010.

Doug Kuns

Manager, Pricing & Tariffs

On behalf of Portland General Electric Company

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#### OFF SYSTEM POWER PURCHASE AGREEMENT

A Seller with a facility that interconnects with an electric system other than the Company's electric system may enter into a power purchase agreement with the Company after following the applicable standard or negotiated contract guidelines and making the arrangements necessary for transmission of power to the Company's system.

#### **BASIS FOR POWER PURCHASE PRICE**

#### **AVOIDED COST SUMMARY**

The power purchase rates are based on the Company's Avoided Costs. Avoided Costs are defined in 18 CFR 292.101(6) as "the incremental costs to an electric utility of electric energy or capacity or both which, but for the purchase from the qualifying facility or qualifying facilities, such utility would generate itself or purchase from another source."

The Avoided Costs as listed in Tables 1 and 2 below include monthly On- and Off-Peak prices.

#### **ON-PEAK PERIOD**

The On-Peak period is 6:00 a.m. until 10:00 p.m., Monday through Saturday.

### **OFF-PEAK PERIOD**

The Off-Peak period is 10:00 p.m. until 6:00 a.m., Monday through Saturday, and all day on Sunday.

Avoided Costs are based on forward market price estimates through December 2014, the period of time during which the Company's Avoided Costs are associated with incremental purchases of Energy and capacity from the market. For the period 2015 through 2030, the Avoided Costs reflect the fully allocated costs of a natural gas fueled combined cycle combustion turbine (CCCT) including fuel and capital costs. The CCCT Avoided Costs are based on the variable cost of Energy plus capitalized Energy costs at a 93% capacity factor based on a natural gas price forecast, with prices modified for shrinkage and transportation costs.

## PRICING OPTIONS FOR STANDARD CONTRACTS

Pricing options represent the purchase price per MWh the Company will pay for electricity delivered to a Point of Delivery (POD) within the Company's service territory pursuant to a Standard Contract up to the nameplate rating of the QF in any hour. Any Energy delivered in excess of the nameplate rating will be purchased at the applicable Off-Peak Prices for the selected pricing option.

The Standard Contract pricing will be based on the Avoided Cost in effect at the time the agreement is executed.

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PRICING OPTIONS FOR STANDARD CONTRACTS (Continued)

Four pricing options are available for Standard Contracts. The pricing options include one Fixed Rate Option and three Market Based Options.

#### 1) Fixed Price Option

The Fixed Price Option is based on Avoided Costs including forecasted natural gas prices.

This option is available for a maximum term of 15 years. Sellers with contracts exceeding 15 years will make a one time election at execution to select a Market-Based Option for all years up to five in excess of the initial 15. Under the Fixed Price Option, prices will be as established at the time the Standard Contract is executed and will be equal to the Avoided Costs in Tables 1 and 2 effective at execution for a term of up to 15 years.

						TABLE 1								
					Ave	oided Co	sts							
					Fixed	l Price O	ption							
				(	On-Peak	Forecast	: (\$/MWH	)						
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2011	40.81	39.03	35.36	30.88	24.51	21.96	37.76	45.65	44.12	40.81	43.61	52.28		
2012	48.09	45.98	41.62	36.30	28.74	25.72	44.46	53.83	52.02	48.09	51.42	61.70		
2013	52.59	50.27	45.50	39.67	31.39	28.07	48.61	58.89	56.90	52.59	56.24	67.50		
2014	55.37	52.92	47.90	41.75	33.01	29.53	51.18	62.00	59.91	55.37	59.21	71.08		
2015	87.82	87.57	86.50	84.30	84.22	84.37	84.62	84.87	85.00	85.47	86.59	87.94		
2016	91.71	91.43	90.24	87.99	87.91	88.11	88.39	88.67	88.80	89.31	90.49	91.91		
2017	92.89	92.95	92.56	92.13	92.36	92.80	93.33	93.75	93.95	94.73	96.79	99.66		
2018	96.87	96.94	96.52	96.06	96.31	96.77	97.35	97.80	98.02	98.86	101.07	104.17		
2019	100.38	100.46	100.01	99.52	99.79	100.28	100.89	101.37	101.60	102.49	104.83	108.10		
2020	103.85	103.92	103.45	102.94	103.22	103.74	104.38	104.89	105.13	106.07	108.54	112.00		
2021	107.52	107.60	107.10	106.56	106.86	107.41	108.08	108.61	108.86	109.85	112.45	116.08		
2022	112.09	112.18	111.65	111.07	111.39	111.97	112.70	113.26	113.53	114.59	117.36	121.24		
2023	117.00	117.09	116.52	115.91	116.25	116.87	117.64	118.24	118.53	119.65	122.61	126.74		
2024	121.50	121.60	121.00	120.35	120.71	121.37	122.19	122.83	123.13	124.33	127.47	131.87		
2025	126.70	126.80	126.17	125.47	125.85	126.56	127.43	128.11	128.43	129.70	133.04	137.72		
2026	129.03	129.13	128.48	127.78	128.17	128.88	129.77	130.46	130.79	132.09	135.48	140.25		
2027	131.40	131.51	130.85	130.13	130.52	131.25	132.15	132.86	133.20	134.51	137.98	142.82		
2028	133.83	133.93	133.26	132.53	132.93	133.67	134.59	135.31	135.65	137.00	140.52	145.46		
2029	136.28	136.38	135.70	134.96	135.36	136.12	137.06	137.79	138.14	139.51	143.09	148.12		
2030	138.78	138.89	138.19	137.44	137.85	138.62	139.58	140.32	140.68	142.07	145.73	150.85		

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# PRICING OPTIONS FOR STANDARD CONTRACTS (Continued) FIXED PRICE OPTION (Continued)

	TABLE 2												
					Avo	oided Co	sts						
						I Price O							
				(	Off-Peak	Forecast	: (\$/MWH	)					
	V												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2011	35.72	34.95	31.54	23.23	14.32	10.75	23.74	33.68	35.21	35.21	36.99	45.40	
2012	42.43	41.51	37.43	27.47	16.78	12.51	28.08	39.99	41.82	41.82	43.96	54.04	
2013	45.24	44.26	39.89	29.27	17.87	13.32	29.93	42.63	44.59	44.59	46.87	57.61	
2014	46.81	45.80	41.28	30.28	18.47	13.75	30.95	44.11	46.14	46.14	48.49	59.63	
2015	38.19	37.94	36.87	34.67	34.58	34.74	34.99	35.24	35.36	35.84	36.96	38.31	
2016	41.32	41.04	39.85	37.61	37.53	37.73	38.00	38.28	38.41	38.92	40.10	41.52	
2017	41.24	41.31	40.91	40.49	40.72	41.15	41.69	42.11	42.31	43.09	45.14	48.02	
2018	44.45	44.51	44.09	43.63	43.88	44.35	44.93	45.38	45.59	46.44	48.65	51.75	
2019	47.00	47.07	46.62	46.13	46.40	46.89	47.50	47.98	48.21	49.10	51.44	54.71	
2020	49.65	49.72	49.25	48.74	49.02	49.54	50.18	50.69	50.93	51.87	54.34	57.80	
2021	52.15	52.22	51.73	51.19	51.49	52.03	52.71	53.24	53.49	54.48	57.07	60.71	
2022	55.70	55.79	55.26	54.68	55.00	55.58	56.30	56.87	57.14	58.19	60.96	64.85	
2023	59.38	59.47	58.91	58.30	58.63	59.26	60.03	60.63	60.91	62.04	64.99	69.13	
2024	63.21	63.30	62.70	62.05	62.41	63.07	63.89	64.53	64.83	66.03	69.17	73.58	
2025	67.14	67.24	66.60	65.91	66.29	66.99	67.86	68.55	68.87	70.14	73.48	78.15	
2026	68.37	68.47	67.83	67.12	67.51	68.22	69.11	69.80	70.13	71.43	74.83	79.59	
2027	69.63	69.73	69.07	68.35	68.75	69.48	70.38	71.09	71.42	72.74	76.20	81.05	
2028	70.92	71.02	70.35	69.62	70.02	70.76	71.68	72.40	72.74	74.09	77.61	82.55	
2029	72.21	72.32	71.63	70.89	71.30	72.05	72.99	73.72	74.07	75.44	79.03	84.06	
2030	73.53	73.64	72.95	72.19	72.61	73.38	74.33	75.08	75.43	76.82	80.48	85.60	

Under the Fixed Price Option, the Company will pay Seller the Off-Peak Avoided Cost pursuant to Table 2 for: (a) all Net Output delivered prior to the Commercial Operation Date; (b) all Net Output deliveries greater than Maximum Net Output in any Contract Year; (c) any generation subject to and as adjusted by the provisions of Section 4.3 of the Standard Contract; (d) Net Output delivered in the Off-Peak Period; and (e) deliveries above the nameplate capacity in any hour. The Company will pay the Seller the On-Peak Avoided Cost pursuant to Table 1 for all other output. (See Appendix 1, the Standard Contract for defined terms.)

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# **SCHEDULE 201 (Continued)**

PRICING OPTIONS FOR STANDARD CONTRACTS (Continued)
MARKET BASED PRICE OPTIONS (Continued)

Tables 3 and 4 below list applicable rates for Options 2 (Deadband Index Gas Price Option) and 3 (Index Gas Price Option) for the period through 2014. The monthly On- and Off-Peak prices will be applied for all Market Based Price Options.

	TABLE 3													
	Avoided Costs													
	On-Peak Resource Sufficiency Rate (\$/MWH)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2011	40.81	39.03	35.36	30.88	24.51	21.96	37.76	45.65	44.12	40.81	43.61	52.28		
2012	48.09	45.98	41.62	36.30	28.74	25.72	44.46	53.83	52.02	48.09	51.42	61.70		
2013	52.59	50.27	45.50	39.67	31.39	28.07	48.61	58.89	56.90	52.59	56.24	67.50		
2014	55.37	52.92	47.90	41.75	33.01	29.53	51.18	62.00	59.91	55.37	59.21	71.08		

	TABLE 4													
	Avoided Costs													
Off-Peak Resource Sufficiency Rate (\$/MWH)														
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2011	35.72	34.95	31.54	23.23	14.32	10.75	23.74	33.68	35.21	35.21	36.99	45.40		
2012	42.43	41.51	37.43	27.47	16.78	12.51	28.08	39.99	41.82	41.82	43.96	54.04		
2013	45.24	44.26	39.89	29.27	17.87	13.32	29.93	42.63	44.59	44.59	46.87	57.61		
2014	46.81	45.80	41.28	30.28	18.47	13.75	30.95	44.11	46.14	46.14	48.49	59.63		

PRICING OPTIONS FOR STANDARD CONTRACTS (Continued)

MARKET BASED PRICE OPTIONS (Continued)

## 3) Index Gas Price Option

The Index Gas Price Option is the simple average of the First of Month gas indices for Sumas and AECO trading hubs used in establishing the Avoided Costs. The Sumas Gas Index will be as reported in <u>Platts Inside FERC's Gas Market Report</u>. The AECO Gas Index will be as reported in the <u>Canadian Gas Price Reporter Natural Gas Market Report</u> (in US dollars).

The price paid per MWh will be:

 $P_{Peak}$  =  $GP_{MI}^*HR/1,000/(1-Losses) +VFG +C$  $P_{Off}$  =  $GP_{MI}^*HR/1,000/(1-Losses) +VFG$ 

Under the Index Gas Price, the Company will pay Seller the Off-Peak Prices for: (a) for all Net Output delivered prior to the Commercial Operation Date; (b) all Net Output deliveries greater than Maximum Net Output in any Contract Year; (c) any generation subject to and as adjusted by the provisions of Section 4.3 of the Standard Contract; (d) for Net Output delivered in the Off-Peak Period; and (e) deliveries above the nameplate capacity in any hour. All other purchases will be at On-Peak prices. (See Appendix 1, the Standard Contract for defined terms.)

## 4) Mid C Index Price Option

Under this option, prices paid per MWh will be based on the DJ-Mid-C Firm Index plus 0.211 ¢ per kWh for wholesale wheeling.

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PRICING OPTIONS FOR STANDARD CONTRACTS (Continued)
MARKET BASED PRICE OPTIONS (Continued)

Table 5 contains the gas pricing components for Option 1 (Fixed Price Option) and Option 2 (Deadband Index Gas Price Option).

						TABLE 5						
		Fo	recasted	l Gas Pri	ce - GP <sub>F</sub>	(\$/MMBT	U) - With	out Trar	sportati	on		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	5.51	5.48	5.32	5.01	5.00	5.02	5.05	5.09	5.11	5.18	5.34	5.53
2016	5.96	5.92	5.75	5.43	5.42	5.45	5.49	5.53	5.55	5.62	5.79	5.99
2017	5.95	5.96	5.91	5.85	5.88	5.94	6.02	6.08	6.11	6.22	6.51	6.93
2018	6.41	6.42	6.36	6.30	6.33	6.40	6.48	6.55	6.58	6.70	7.02	7.46
2019	6.78	6.79	6.73	6.66	6.70	6.77	6.85	6.92	6.95	7.08	7.42	7.89
2020	7.16	7.17	7.10	7.03	7.07	7.14	7.24	7.31	7.34	7.48	7.83	8.33
2021	7.52	7.53	7.46	7.38	7.43	7.50	7.60	7.68	7.71	7.86	8.23	8.75
2022	8.03	8.04	7.97	7.89	7.93	8.01	8.12	8.20	8.24	8.39	8.79	9.34
2023	8.56	8.57	8.49	8.41	8.45	8.54	8.65	8.74	8.78	8.94	9.37	9.96
2024	9.11	9.12	9.04	8.94	8.99	9.09	9.21	9.30	9.34	9.51	9.96	10.60
2025	9.68	9.69	9.60	9.50	9.55	9.65	9.78	9.88	9.92	10.11	10.58	11.25
2026	9.85	9.87	9.78	9.67	9.73	9.83	9.96	10.06	10.11	10.29	10.78	11.46
2027	10.03	10.05	9.96	9.85	9.91	10.01	10.14	10.24	10.29	10.48	10.98	11.67
2028	10.22	10.23	10.14	10.03	10.09	10.20	10.33	10.43	10.48	10.67	11.18	11.89
2029	10.41	10.42	10.32	10.22	10.28	10.39	10.52	10.62	10.67	10.87	11.38	12.11
2030	10.60	10.61	10.51	10.41	10.47	10.58	10.71	10.82	10.87	11.07	11.59	12.33

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PRICING OPTIONS FOR STANDARD CONTRACTS (Continued)
MARKET BASED PRICE OPTIONS (Continued)

Table 6 contains the Variable O&M and Fixed Costs that are derived from a natural gas-fired CCCT.

						TABLE 6						
		Variable	O&M, Fi	xed Cost	ts and G	as Trans	portation	Forecas	st - VFG (	\$/MWH)		
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	0.35	0.35	0.33	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.33	0.35
2016	0.40	0.40	0.38	0.34	0.34	0.35	0.35	0.36	0.36	0.37	0.38	0.41
2017	0.39	0.39	0.38	0.37	0.38	0.39	0.39	0.40	0.40	0.42	0.45	0.50
2018	0.43	0.43	0.43	0.42	0.42	0.43	0.44	0.45	0.45	0.46	0.50	0.55
2019	0.47	0.47	0.46	0.45	0.46	0.46	0.47	0.48	0.48	0.50	0.54	0.59
2020	0.51	0.51	0.50	0.50	0.50	0.51	0.52	0.53	0.53	0.55	0.59	0.64
2021	0.53	0.53	0.53	0.52	0.52	0.53	0.54	0.55	0.55	0.57	0.61	0.67
2022	0.58	0.58	0.58	0.57	0.57	0.58	0.59	0.60	0.61	0.62	0.67	0.73
2023	0.63	0.64	0.63	0.62	0.62	0.63	0.64	0.65	0.66	0.68	0.72	0.79
2024	0.70	0.70	0.69	0.68	0.68	0.70	0.71	0.72	0.72	0.74	0.79	0.87
2025	0.74	0.74	0.73	0.72	0.73	0.74	0.75	0.77	0.77	0.79	0.85	0.92
2026	0.75	0.76	0.74	0.73	0.74	0.75	0.77	0.78	0.78	0.80	0.86	0.94
2027	0.77	0.77	0.76	0.74	0.75	0.76	0.78	0.79	0.79	0.82	0.87	0.95
2028	0.79	0.79	0.78	0.77	0.77	0.79	0.80	0.81	0.82	0.84	0.90	0.98
2029	0.79	0.79	0.78	0.77	0.77	0.79	0.80	0.81	0.82	0.84	0.90	0.98
2030	0.80	0.80	0.79	0.78	0.79	0.80	0.81	0.83	0.83	0.85	0.91	1.00

PRICING OPTIONS FOR STANDARD CONTRACTS (Continued)

MARKET BASED PRICE OPTIONS (Continued)

Table 7 represents the variable C in the formulas for Option 2 (Deadband Index Gas Price Option) and Option 3 (Index Gas Price Option).

						TABLE 7	,					
				C	apacity	Value - C	(\$/MWH	l)				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	49.63	49.63	49.63	49.63	49.63	49.63	49.63	49.63	49.63	49.63	49.63	49.63
2016	50.39	50.39	50.39	50.39	50.39	50.39	50.39	50.39	50.39	50.39	50.39	50.39
2017	51.64	51.64	51.64	51.64	51.64	51.64	51.64	51.64	51.64	51.64	51.64	51.64
2018	52.42	52.42	52.42	52.42	52.42	52.42	52.42	52.42	52.42	52.42	52.42	52.42
2019	53.39	53.39	53.39	53.39	53.39	53.39	53.39	53.39	53.39	53.39	53.39	53.39
2020	54.20	54.20	54.20	54.20	54.20	54.20	54.20	54.20	54.20	54.20	54.20	54.20
2021	55.37	55.37	55.37	55.37	55.37	55.37	55.37	55.37	55.37	55.37	55.37	55.37
2022	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
2023	57.61	57.61	57.61	57.61	57.61	57.61	57.61	57.61	57.61	57.61	57.61	57.61
2024	58.30	58.30	58.30	58.30	58.30	58.30	58.30	58.30	58.30	58.30	58.30	58.30
2025	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56
2026	60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66	60.66
2027	61.77	61.77	61.77	61.77	61.77	61.77	61.77	61.77	61.77	61.77	61.77	61.77
2028	62.91	62.91	62.91	62.91	62.91	62.91	62.91	62.91	62.91	62.91	62.91	62.91
2029	64.07	64.07	64.07	64.07	64.07	64.07	64.07	64.07	64.07	64.07	64.07	64.07
2030	65.25	65.25	65.25	65.25	65.25	65.25	65.25	65.25	65.25	65.25	65.25	65.25