

January 15, 2016

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

RE: UM 1752 Revised Schedule 201 Qualifying Facility Information

Portland General Electric Company (PGE) submits this supplemental filing pursuant to Oregon Revised Statutes 758.525; Oregon Administrative Rules 860-029-0001 through 860-029-0100; Order No. 11-505; and Order No. 14-058, with a requested effective date of <u>January 27, 2016</u>:

PGE initially submitted the Application on December 3, 2015 with revisions to Schedule 201, Qualifying Facility Power Purchase Information for Qualifying Facilities 10 MW or Less, consistent with PGE's 2013 Integrated Resource Plan (IRP) Update. PGE submitted a Supplemental Filing requesting an extension of the effective date from January 13, 2016 to January 27, 2016 for the purpose of removing from the Public Meeting agenda on January 12, 2016. Also, PGE indicated that a second supplemental filing would be made to remove production tax credits (PTC) from the calculation of avoided costs consistent with the phasing out of the PTC for wind projects that will begin construction after 2019 as described in the Consolidated Appropriations Act, 2016.

PGE is contemporaneously submitting comments that: (1) respond to the comments of other parties, and (2) provide an explanation and support to show that PGE's filing reflects a significant change in avoided cost pricing.

This avoided cost update reflects a significant change in renewable avoided costs. If PGE's revised avoided cost prices are not approved, pricing offered to QFs will be:

- 48% higher than actual avoided costs for base load QFs
- 41% higher than actual avoided costs for wind QFs
- 46% higher than actual avoided costs for solar QFs

As of January 5, 2016, PGE had eighteen potential QF projects that started the contracting process. If these contracts are executed under the existing avoided cost rates then, based on the expected annual energy provided by these QF projects, PGE's customers would pay an additional \$155.5 million over 15 years for these projects over what they would pay under PGE's proposed avoided cost rates. In years of resource deficiency (i.e., prior to 2024), the incremental cost impact of purchasing QF energy under stale avoided cost prices is more than \$21 million per year. This annual cost impact equates to a more than 1 percent annual increase in customer prices if PGE were to execute all pending requests for standard avoided cost contracts under the current avoided cost rates. To the extent that more QFs request contracts, customer exposure to additional costs will only escalate, possibly by multiple times.

The changes to PGE's currently approved avoided costs and the basis for those changes are as follows:

RECs/RPS: In its acknowledgment order for PGE's 2013 IRP, the Commission directed PGE to evaluate multiple Renewable Portfolio Standard (RPS) compliance strategies – including alternatives to physical compliance – in its next IRP Update and future IRPs. Our analysis showed that a physical renewable resource addition in 2024, balanced by reliance on banked RECs through 2023, enables PGE to delay costs of physical compliance in 2020. This will provide a hedge against factors that pose future cost or compliance risk for PGE. The effect of the analysis on PGE's avoided costs is to extend the deficiency period to 2024 – the date on which PGE will need to acquire a major renewable resource. Because this strategy does not affect the 2013 IRP Action Plan, PGE has not sought acknowledgment of the IRP Update.

<u>Capital Costs:</u> The overnight capital costs used in PGE's currently approved avoided costs are several years old, based on bids for base load and renewable resources from 2012 that were awarded in 2013. The Commission does not permit updates to overnight capital costs to be included in annual updates. As such, the only opportunity to ensure that accurate and current capital costs are used in deriving avoided cost prices is in a mid-cycle update.

<u>Financial and Tax Parameters:</u> PGE updated financial and tax parameters consistent with the IRP update. Those parameters are set by the Commission in PGE's UE 283 general rate case. The order from PGE's most recent general rate case, UE 294, was not available in time to be used in the IRP Update. They would likely decrease avoided costs further due to a lower approved return on equity, but by a less material amount.

Contingency Reserves: PGE currently includes contingency reserves in the avoided cost calculation during the deficiency period for both traditional and renewable avoided costs. However, purchases from QFs do not allow PGE to avoid carrying contingency reserves. Therefore, PGE and its retail electricity customers pay twice for contingency reserves related to QF projects. This is because contingency reserves are currently (1) included in the avoided cost price and (2) carried by PGE for those same QF projects. The avoided cost calculations for other utilities in Oregon do not include contingency reserves for that reason.

<u>Shaping:</u> PGE proposes to shape avoided cost prices using AURORA output prior to the Commission's decision to adjust for capacity by QF type. The adjustment for capacity occurs in on-peak prices. In addition, other utilities in Oregon do not use monthly shaping for avoided cost pricing. PGE proposes to remove the shaping from avoided cost prices during the renewable avoided cost deficiency period, when prices are based on a wind plant.

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,

Karla Wenzel

Manager, Pricing and Tariffs

cc: Service List – UM 1752

SCHEDULE 201 QUALIFYING FACILITY 10 MW or LESS AVOIDED COST POWER PURCHASE INFORMATION

PURPOSE

To provide information about Standard Avoided Costs and Renewable Avoided Costs, Standard Power Purchase Agreements (PPA) and Negotiated PPAs, power purchase prices and price options for power delivered by a Qualifying Facility (QF) to the Company with nameplate capacity of 10,000 kW (10MW) or less.

AVAILABLE

To owners of QFs making sales of electricity to the Company in the State of Oregon (Seller).

APPLICABLE

For power purchased from small power production or cogeneration facilities that are QFs as defined in 18 Code of Federal Regulations (CFR) Section 292, that meet the eligibility requirements described herein and where the energy is delivered to the Company's system and made available for Company purchase pursuant to a Standard PPA.

ESTABLISHING CREDITWORTHINESS

The Seller must establish creditworthiness prior to service under this schedule. For a Standard PPA, a Seller may establish creditworthiness with a written acknowledgment that it is current on all existing debt obligations and that it was not a debtor in a bankruptcy proceeding within the preceding 24 months. If the Seller is not able to establish creditworthiness, the Seller must provide security deemed sufficient by the Company as set forth in the Standard PPA.

POWER PURCHASE INFORMATION

A Seller may call the Power Production Coordinator at (503) 464-8000 to obtain more information about being a Seller or how to apply for service under this schedule.

PPA

In accordance with terms set forth in this schedule and the Commission's Rules as applicable, the Company will purchase any Energy in excess of station service (power necessary to produce generation) and amounts attributable to conversion losses, which are made available from the Seller.

A Seller must execute a PPA with the Company prior to delivery of power to the Company. The agreement will have a term of up to 20 years as selected by the QF.

A QF with a nameplate capacity rating of 10 MW or less as defined herein may elect the option of a Standard PPA.

PPA (Continued)

Any Seller may elect to negotiate a PPA with the Company. Such negotiation will comply with the requirements of the Federal Energy Regulatory Commission (FERC), and the Commission including the guidelines in Order No. 07-360, and Schedule 202. Negotiations for power purchase pricing will be based on either the filed Standard Avoided Costs or Renewable Avoided Costs in effect at that time.

STANDARD PPA (Nameplate capacity of 10 MW or less)

A Seller choosing a Standard PPA will complete all informational and price option selection requirements in the applicable Standard PPA and submit the executed Agreement to the Company prior to service under this schedule. The Standard PPA is available at www.portlandgeneral.com. The available Standard PPAs are:

- Standard In-System Non-Variable Power Purchase Agreement
- Standard Off-System Non-Variable Power Purchase Agreement
- Standard In-System Variable Power Purchase Agreement
- Standard Off-System Variable Power Purchase Agreement
- Standard Renewable In-System Non-Variable Power Purchase Agreement
- Standard Renewable Off-System Non-Variable Power Purchase Agreement
- Standard Renewable In-System Variable Power Purchase Agreement
- Standard Renewable Off-System Variable Power Purchase Agreement

The Standard PPAs applicable to variable resources are available only to QFs utilizing wind, solar or run of river hydro as the primary motive force.

GUIDELINES FOR 10 MW OR LESS FACILITIES ELECTING STANDARD PPA

To execute the Standard PPA the Seller must complete all of the general project information requested in the applicable Standard PPA.

When all information required in the Standard PPA has been received in writing from the Seller, the Company will respond within 15 business days with a draft Standard PPA.

The Seller may request in writing that the Company prepare a final draft Standard PPA. The Company will respond to this request within 15 business days. In connection with such request, the QF must provide the Company with any additional or clarified project information that the Company reasonably determines to be necessary for the preparation of a final draft Standard PPA.

When both parties are in full agreement as to all terms and conditions of the draft Standard PPA, the Company will prepare and forward to the Seller a final executable version of the agreement within 15 business days. Following the Company's execution, an executed copy will be returned to the Seller. Prices and other terms and conditions in the PPA will not be final and binding until the Standard PPA has been executed by both parties.

OFF-SYSTEM PPA

A Seller with a facility that interconnects with an electric system other than the Company's electric system may enter into a PPA with the Company after following the applicable Standard or Negotiated PPA 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 prices are based on either the Company's Standard Avoided Costs or Renewable Avoided Costs in effect at the time the agreement is executed. 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."

Monthly On-Peak prices are included in both the Standard Avoided Costs as listed in Tables 1a, 2a, and 3a and Renewable Avoided Costs as listed in Tables 4a, 5a, and 6a. Monthly Off-Peak prices are included in both the Standard Avoided Costs as listed in Tables 1b, 2b, and 3b and Renewable Avoided Costs as listed in Tables 4b, 5b, and 6b.

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.

Standard Avoided Costs are based on forward market price estimates through the Resource Sufficiency Period, the period of time during which the Company's Standard Avoided Costs are associated with incremental purchases of Energy and capacity from the market. For the Resource Deficiency Period, the Standard 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.

Renewable Avoided Costs are based on forward market price estimates through the Renewable Resource Sufficiency Period, the period of time during which the Company's Renewable Avoided Costs are associated with incremental purchases of energy and capacity from the market. For the Renewable Resource Deficiency Period, the Renewable Avoided Costs reflect the fully allocated costs of a wind plant including capital costs.

PRICING FOR STANDARD PPA

Pricing represents 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 PPA 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 PPA pricing will be based on either the Standard or Renewable Avoided Costs in effect at the time the agreement is executed.

The Company will pay the Seller either the Off-Peak Standard Avoided Cost pursuant to Tables 1b, 2b, or 3b or the Off-Peak Renewable Avoided Costs pursuant to Tables 4b, 5b, or 6b for: (a) all Net Output delivered prior to the Commercial Operation Date; (b) all Net Output deliveries greater than Maximum Net Output in any PPA year; (c) any generation subject to and as adjusted by the provisions of Section 4.3 of the Standard PPA; (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 either the On-Peak Standard Avoided Cost pursuant to Tables 1a, 2a, or 3a or the On-Peak Renewable Avoided Costs pursuant to Tables 4a, 5a, or 6a for all other Net Output. (See the PPA for defined terms.)

1) Standard Fixed Price Option

The Standard Fixed Price Option is based on Standard Avoided Costs including forecasted natural gas prices. It is available to all QFs.

This option is available for a maximum term of 15 years. Prices will be as established at the time the Standard PPA is executed and will be equal to the Standard Avoided Costs in Tables 1a and 1b, 2a and 2b, or 3a and 3c, depending on the type of QF, effective at execution. QFs using any resource type other than wind and solar are assumed to be Base Load QFs.

Prices paid to the Seller under the Standard Fixed Price Option include adjustments for the capacity contribution of the QF resource type relative to that of the avoided proxy resource. Both the Base Load QF resources (Tables 1a and 1b) and the avoided proxy resource, the basis used to determine Standard Avoided Costs for the Standard Fixed Price Option, are assumed to have a capacity contribution to peak of 100%. The capacity contribution for Wind QF resources (Tables 2a and 2b) is assumed to be 5%. The capacity contribution for Solar QF resources (Tables 3a and 3b) is assumed to be 5%.

Prices paid to the Seller under the Standard Fixed Price Option for Wind QFs (Tables 2a and 2b) include a reduction for the wind integration costs in Table 7. However, if the Wind QF is outside of PGE's Balancing Authority Area as contemplated in the Commission's Order No. 14-058, the Seller is paid the wind integration charges in Table 7, in addition to the prices listed in Tables 2a and 2b, for a net-zero effect.

PRICING OPTIONS FOR STANDARD PPA (Continued)
Standard Fixed Price Option (Continued)

Sellers with PPAs exceeding 15 years will receive pricing equal to the Mid-C Index Price for all years up to five in excess of the initial 15.

					T	ABLE 1a						
					Avoi	ded Cos	ts					
			Sta	andard F	ixed Price	e Option	for Base	Load QF				
	 .			0	n-Peak F	orecast (\$/MW H)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	28.70	27.45	24.70	23.95	23.20	22.70	30.20	32.20	31.20	28.45	29.45	33.95
2017	32.23	30.77	27.60	25.76	25.05	23.29	31.42	35.71	31.73	30.96	31.96	34.42
2018	32.41	30.98	27.85	27.00	26.15	25.58	34.11	36.39	35.25	32.12	33.26	38.38
2019	33.92	32.42	29.14	28.25	27.35	26.76	35.70	38.09	36.90	33.62	34.81	40.18
2020	35.79	34.22	30.75	29.80	28.85	28.22	37.68	40.21	38.95	35.48	36.74	42.41
2021	65.20	65.04	61.83	60.45	60.04	60.16	60.28	60.42	60.57	61.53	64.47	64.81
2022	66.08	66.13	64.75	63.45	63.22	63.36	63.49	63.65	63.81	64.31	67.31	67.66
2023	68.58	68.73	67.36	65.87	65.29	65.44	65.58	65.74	65.91	66.53	69.13	69.30
2024	70.91	71.07	68.54	66.83	66.49	66.64	66.78	66.95	67.12	67.75	70.61	70.98
2025	72.59	72.76	71.33	70.16	69.94	70.11	70.27	70.45	70.64	71.17	74.22	74.47
2026	76.34	76.52	75.77	75.37	73.91	74.09	74.27	74.47	74.68	75.33	79.04	79.48
2027	80.70	80.90	79.60	78.19	76.05	76.24	76.43	76.63	76.85	77.51	81.89	82.35
2028	83.82	83.20	82.32	80.82	80.27	80.48	80.68	80.90	81.14	81.80	86.11	86.60
2029	89.63	89.88	88.56	87.04	86.53	86.63	86.85	87.10	87.36	87.90	91.98	92.24
2030	94.31	94.58	88.69	87.15	86.57	86.32	86.56	86.80	87.06	87.61	93.82	94.09
2031	96.28	96.55	92.78	91.13	90.61	90.83	91.07	91.34	91.62	92.17	98.33	98.62
2032	98.27	98.55	94.71	93.02	92.49	92.72	92.97	93.24	93.53	94.08	100.36	100.66
2033	100.20	100.48	96.56	94.84	94.30	94.53	94.78	95.06	95.35	95.92	102.33	102.63
2034	102.25	102.54	98.54	96.79	96.23	96.47	96.73	97.01	97.31	97.89	104.42	104.72
2035	103.87	104.17	100.09	98.31	97.74	97.99	98.25	98.54	98.84	99.43	106.09	106.40
2036	106.28	106.58	102.42	100.60	100.02	100.27	100.54	100.84	101.14	101.74	108.54	108.85
2037	108.53	108.84	104.60	102.75	102.16	102.41	102.68	102.99	103.30	103.91	110.84	111.16
2038	110.58	110.89	106.57	104.68	104.07	104.33	104.61	104.92	105.24	105.86	112.92	113.26
2039	112.86	113.18	108.78	106.85	106.23	106.50	106.78	107.09	107.42	108.06	115.26	115.60
2040	115.08	115.41	110.91	108.94	108.32	108.59	108.88	109.20	109.53	110.18	117.52	117.87
2041	117.47	117.80	113.22	111.21	110.57	110.85	111.14	111.47	111.81	112.47	119.96	120.31
2042	119.71	120.05	115.38	113.33	112.68	112.96	113.26	113.59	113.94	114.61	122.25	122.61
2043	122.14	122.49	117.72	115.64	114.97	115.26	115.56	115.90	116.26	116.95	124.73	125.10

					TA	BLE 1b						
						ded Cost	s					
			Sta	ındard Fi	xed Price	Option 1	or Base	Load QF				
				O	ff-Peak Fo	orecast (5/MWH)					
Veer	lan	Feb	Mon	A	Mov	lum	la d	A	Com	Oct	Nev	Dec
Year 2016	Jan 24.95	24.20	Mar 21.45	Apr 19.45	May 17.45	Jun 15.45	Jul 21.20	Aug 24.70	Sep 25.95	Oct 24.20	Nov 24.95	27.95
2017	27.32	26.24	23.54	19.64	17.62	14.18	22.58	27.07	24.90	26.34	26.98	29.03
2018	27.49	26.66	23.61	21.39	19.17	16.95	23.33	27.22	28.60	26.66	27.49	30.82
2019	29.30	28.41	25.15	22.77	20.40	18.03	24.85	29.00	30.49	28.41	29.30	32.86
2020	31.61	30.64	27.11	24.54	21.96	19.39	26.79	31.28	32.89	30.64	31.61	35.46
2021	36.93	36.77	33.56	32.19	31.77	31.90	32.02	32.16	32.30	33.27	36.21	36.54
2022	37.26	37.31	35.93	34.63	34.40	34.53	34.67	34.82	34.98	35.49	38.48	38.84
2023	39.28	39.44	38.06	36.57	35.99	36.14	36.28	36.44	36.61	37.23	39.84	40.00
2024	40.94	41.10	38.57	36.86	36.52	36.67	36.81	36.98	37.15	37.78	40.64	41.01
2025	42.03	42.20	40.77	39.59	39.38	39.54	39.70	39.89	40.07	40.61	43.66	43.91
2026	45.07	45.26	44.51	44.11	42.65	42.83	43.01	43.21	43.41	44.06	47.78	48.22
2027	49.02	49.23	47.92	46.52	44.38	44.56	44.75	44.96	45.17	45.83	50.22	50.67
2028	51.42	50.79	49.92	48.41	47.87	48.07	48.27	48.50	48.73	49.40	53.71	54.19
2029	56.59	56.83	55.52	54.00	53.49	53.59	53.81	54.06	54.32	54.86	58.94	59.20
2030	60.61	60.88	55.00	53.45	52.87	52.63	52.86	53.11	53.37	53.92	60.13	60.40
2031	61.92	62.20	58.43	56.77	56.25	56.48	56.72	56.99	57.27	57.81	63.97	64.26
2032	63.24	63.52	59.67	57.99	57.46	57.69	57.93	58.21	58.49	59.05	65.33	65.62
2033	64.47	64.76	60.84	59.12	58.57	58.81	59.06	59.34	59.63	60.20	66.60	66.90
2034	65.82	66.11	62.11	60.36	59.80	60.04	60.30	60.58	60.88	61.46	67.99	68.30
2035	66.96	67.26	63.18	61.40	60.83	61.08	61.34	61.63	61.93	62.52	69.18	69.49
2036	68.40	68.70	64.55	62.72	62.15	62.40	62.66	62.96	63.27	63.87	70.66	70.98
2037	69.79	70.10	65.86	64.00	63.41	63.67	63.94	64.24	64.55	65.17	72.09	72.42
2038	71.19	71.51	67.19	65.29	64.69	64.95	65.23	65.53	65.86	66.48	73.54	73.87
2039	72.83	73.15	68.74	66.81	66.20	66.46	66.75	67.06	67.39	68.03	75.23	75.56
2040	74.13	74.46	69.96	67.99	67.37	67.64	67.93	68.25	68.58	69.23	76.57	76.92
2041	75.71	76.04	71.46	69.45	68.82	69.09	69.38	69.71	70.05	70.71	78.20	78.55
2042	77.13	77.47	72.80	70.75	70.10	70.38	70.68	71.01	71.36	72.03	79.67	80.03
2043	78.72	79.07	74.30	72.22	71.55	71.84	72.15	72.48	72.84	73.53	81.31	81.68

					T/	ABLE 2a						
					Avoi	ded Cost	ts					
				Standard	I Fixed P	rice Opti	on for Wi	nd QF				
				0	n-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	24.86	23.61	20.86	20.11	19.36	18.86	26.36	28.36	27.36	24.61	25.61	30.11
2017	28.32	26.86	23.69	21.85	21.14	19.38	27.51	31.80	27.82	27.05	28.05	30.51
2018	28.42	26.99	23.86	23.01	22.16	21.59	30.12	32.40	31.26	28.13	29.27	34.39
2019	29.85	28.35	25.07	24.18	23.28	22.69	31.63	34.02	32.83	29.55	30.74	36.11
2020	31.64	30.07	26.60	25.65	24.70	24.07	33.53	36.06	34.80	31.33	32.59	38.26
2021	34.12	33.96	30.74	29.37	28.96	29.08	29.20	29.34	29.49	30.45	33.39	33.73
2022	34.39	34.44	33.06	31.76	31.53	31.66	31.80	31.95	32.12	32.62	35.61	35.97
2023	36.34	36.50	35.13	33.63	33.06	33.20	33.35	33.51	33.68	34.30	36.90	37.07
2024	37.95	38.11	35.58	33.87	33.53	33.68	33.82	33.99	34.16	34.79	37.65	38.02
2025	38.99	39.16	37.73	36.55	36.34	36.50	36.66	36.84	37.03	37.57	40.62	40.86
2026	41.98	42.16	41.41	41.01	39.55	39.73	39.91	40.11	40.32	40.97	44.68	45.12
2027	45.84	46.05	44.75	43.34	41.20	41.39	41.57	41.78	42.00	42.65	47.04	47.50
2028	48.19	47.56	46.69	45.18	44.64	44.84	45.04	45.27	45.50	46.17	50.48	50.97
2029	53.29	53.54	52.22	50.70	50.19	50.29	50.51	50.76	51.02	51.56	55.64	55.90
2030	57.26	57.53	51.65	50.10	49.52	49.28	49.51	49.75	50.01	50.56	56.77	57.04
2031	58.50	58.77	55.00	53.35	52.83	53.05	53.30	53.56	53.84	54.39	60.55	60.84
2032	59.75	60.03	56.19	54.50	53.97	54.20	54.44	54.72	55.00	55.56	61.84	62.14
2033	60.91	61.19	57.27	55.56	55.01	55.25	55.50	55.78	56.07	56.63	63.04	63.34
2034	62.19	62.48	58.48	56.73	56.18	56.42	56.67	56.96	57.25	57.83	64.36	64.67
2035	63.25	63.55	59.47	57.68	57.12	57.36	57.62	57.91	58.22	58.81	65.46	65.78
2036	64.62	64.93	60.77	58.95	58.37	58.62	58.89	59.18	59.49	60.09	66.88	67.20
2037	65.95	66.25	62.02	60.16	59.57	59.82	60.10	60.40	60.71	61.32	68.25	68.57
2038	67.27	67.59	63.26	61.37	60.77	61.03	61.31	61.61	61.93	62.56	69.62	69.95
2039	68.82	69.14	64.74	62.80	62.19	62.46	62.74	63.05	63.38	64.02	71.22	71.56
2040	70.05	70.37	65.88	63.91	63.29	63.55	63.84	64.16	64.50	65.15	72.49	72.83
2041	71.55	71.88	67.30	65.29	64.65	64.93	65.22	65.55	65.89	66.55	74.04	74.39
2042	72.89	73.23	68.56	66.51	65.86	66.14	66.44	66.77	67.12	67.79	75.43	75.79
2043	74.39	74.74	69.97	67.89	67.22	67.51	67.82	68.15	68.51	69.20	76.98	77.35

					T/	ABLE 2b						
					Avo	ided Cost	ts					
				Standard	d Fixed P	rice Opti	on for Wi	ind QF				
				0	ff-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	21.11	20.36	17.61	15.61	13.61	11.61	17.36	20.86	22.11	20.36	21.11	24.11
2017	23.41	22.33	19.63	15.73	13.71	10.27	18.67	23.16	20.99	22.43	23.07	25.12
2018	23.50	22.67	19.62	17.40	15.18	12.96	19.34	23.23	24.61	22.67	23.50	26.83
2019	25.23	24.34	21.08	18.70	16.33	13.96	20.78	24.93	26.42	24.34	25.23	28.79
2020	27.46	26.49	22.96	20.39	17.81	15.24	22.64	27.13	28.74	26.49	27.46	31.31
2021	32.70	32.54	29.33	27.96	27.54	27.67	27.79	27.93	28.07	29.04	31.98	32.31
2022	32.95	33.00	31.62	30.32	30.09	30.22	30.36	30.51	30.67	31.18	34.17	34.53
2023	34.88	35.04	33.66	32.17	31.59	31.74	31.88	32.04	32.21	32.83	35.44	35.60
2024	36.45	36.61	34.08	32.37	32.03	32.18	32.32	32.49	32.66	33.29	36.15	36.52
2025	37.46	37.63	36.20	35.02	34.81	34.97	35.13	35.32	35.50	36.04	39.09	39.34
2026	40.41	40.60	39.85	39.45	37.99	38.17	38.35	38.55	38.75	39.40	43.12	43.56
2027	44.26	44.47	43.16	41.76	39.62	39.80	39.99	40.20	40.41	41.07	45.46	45.91
2028	46.57	45.94	45.07	43.56	43.02	43.22	43.42	43.65	43.88	44.55	48.86	49.34
2029	51.64	51.88	50.57	49.05	48.54	48.64	48.86	49.11	49.37	49.91	53.99	54.25
2030	55.57	55.84	49.96	48.41	47.83	47.59	47.82	48.07	48.33	48.88	55.09	55.36
2031	56.78	57.06	53.29	51.63	51.11	51.34	51.58	51.85	52.13	52.67	58.83	59.12
2032	58.00	58.28	54.43	52.75	52.22	52.45	52.69	52.97	53.25	53.81	60.09	60.38
2033	59.12	59.41	55.49	53.77	53.22	53.46	53.71	53.99	54.28	54.85	61.25	61.55
2034	60.37	60.66	56.66	54.91	54.35	54.59	54.85	55.13	55.43	56.01	62.54	62.85
2035	61.40	61.70	57.62	55.84	55.27	55.52	55.78	56.07	56.37	56.96	63.62	63.93
2036	62.73	63.03	58.88	57.05	56.48	56.73	56.99	57.29	57.60	58.20	64.99	65.31
2037	64.01	64.32	60.08	58.22	57.63	57.89	58.16	58.46	58.77	59.39	66.31	66.64
2038	65.30	65.62	61.30	59.40	58.80	59.06	59.34	59.64	59.97	60.59	67.65	67.98
2039	66.82	67.14	62.73	60.80	60.19	60.45	60.74	61.05	61.38	62.02	69.22	69.55
2040	68.00	68.33	63.83	61.86	61.24	61.51	61.80	62.12	62.45	63.10	70.44	70.79
2041	69.46	69.79	65.21	63.20	62.57	62.84	63.13	63.46	63.80	64.46	71.95	72.30
2042	70.76	71.10	66.43	64.38	63.73	64.01	64.31	64.64	64.99	65.66	73.30	73.66
2043	72.22	72.57	67.80	65.72	65.05	65.34	65.65	65.98	66.34	67.03	74.81	75.18

					TA	ABLE 3a						
					Avoi	ded Cost	:s					
				Standard	l Fixed Pi	rice Optic	on for So	lar QF				
				0	n-Peak F	orecast (\$/MW H)_					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	28.70	27.45	24.70	23.95	23.20	22.70	30.20	32.20	31.20	28.45	29.45	33.95
2017	32.23	30.77	27.60	25.76	25.05	23.29	31.42	35.71	31.73	30.96	31.96	34.42
2018	32.41	30.98	27.85	27.00	26.15	25.58	34.11	36.39	35.25	32.12	33.26	38.38
2019	33.92	32.42	29.14	28.25	27.35	26.76	35.70	38.09	36.90	33.62	34.81	40.18
2020	35.79	34.22	30.75	29.80	28.85	28.22	37.68	40.21	38.95	35.48	36.74	42.41
2021	38.35	38.19	34.97	33.60	33.19	33.31	33.43	33.57	33.72	34.68	37.62	37.96
2022	38.70	38.75	37.37	36.07	35.84	35.97	36.11	36.26	36.43	36.93	39.92	40.28
2023	40.74	40.90	39.53	38.03	37.46	37.60	37.75	37.91	38.08	38.70	41.30	41.47
2024	42.44	42.60	40.07	38.36	38.02	38.17	38.31	38.48	38.65	39.28	42.14	42.51
2025	43.56	43.73	42.30	41.12	40.91	41.07	41.23	41.41	41.60	42.14	45.19	45.43
2026	46.64	46.82	46.07	45.67	44.21	44.39	44.57	44.77	44.98	45.63	49.34	49.78
2027	50.60	50.81	49.51	48.10	45.96	46.15	46.33	46.54	46.76	47.41	51.80	52.26
2028	53.04	52.41	51.54	50.03	49.49	49.69	49.89	50.12	50.35	51.02	55.33	55.82
2029	58.24	58.49	57.17	55.65	55.14	55.24	55.46	55.71	55.97	56.51	60.59	60.85
2030	62.30	62.57	56.69	55.14	54.56	54.32	54.55	54.79	55.05	55.60	61.81	62.08
2031	63.64	63.91	60.14	58.49	57.97	58.19	58.44	58.70	58.98	59.53	65.69	65.98
2032	64.99	65.27	61.43	59.74	59.21	59.44	59.68	59.96	60.24	60.80	67.08	67.38
2033	66.26	66.54	62.62	60.91	60.36	60.60	60.85	61.13	61.42	61.98	68.39	68.69
2034	67.64	67.93	63.93	62.18	61.63	61.87	62.12	62.41	62.70	63.28	69.81	70.12
2035	68.81	69.11	65.03	63.24	62.68	62.92	63.18	63.47	63.78	64.37	71.02	71.34
2036	70.29	70.60	66.44	64.62	64.04	64.29	64.56	64.85	65.16	65.76	72.55	72.87
2037	71.73	72.03	67.80	65.94	65.35	65.60	65.88	66.18	66.49	67.10	74.03	74.35
2038	73.16	73.48	69.15	67.26	66.66	66.92	67.20	67.50	67.82	68.45	75.51	75.84
2039	74.83	75.15	70.75	68.81	68.20	68.47	68.75	69.06	69.39	70.03	77.23	77.57
2040	76.18	76.50	72.01	70.04	69.42	69.68	69.97	70.29	70.63	71.28	78.62	78.96
2041	77.80	78.13	73.55	71.54	70.90	71.18	71.47	71.80	72.14	72.80	80.29	80.64
2042	79.26	79.60	74.93	72.88	72.23	72.51	72.81	73.14	73.49	74.16	81.80	82.16
2043	80.89	81.24	76.47	74.39	73.72	74.01	74.32	74.65	75.01	75.70	83.48	83.85

					T	ABLE 3b						
					Avoi	ded Cos	ts					
				Standard	I Fixed P	rice Optic	on for So	lar QF				
				0	ff-Peak F	orecast (\$/MW H)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	24.95	24.20	21.45	19.45	17.45	15.45	21.20	24.70	25.95	24.20	24.95	27.95
2017	27.32	26.24	23.54	19.64	17.62	14.18	22.58	27.07	24.90	26.34	26.98	29.03
2018	27.49	26.66	23.61	21.39	19.17	16.95	23.33	27.22	28.60	26.66	27.49	30.82
2019	29.30	28.41	25.15	22.77	20.40	18.03	24.85	29.00	30.49	28.41	29.30	32.86
2020	31.61	30.64	27.11	24.54	21.96	19.39	26.79	31.28	32.89	30.64	31.61	35.46
2021	36.93	36.77	33.56	32.19	31.77	31.90	32.02	32.16	32.30	33.27	36.21	36.54
2022	37.26	37.31	35.93	34.63	34.40	34.53	34.67	34.82	34.98	35.49	38.48	38.84
2023	39.28	39.44	38.06	36.57	35.99	36.14	36.28	36.44	36.61	37.23	39.84	40.00
2024	40.94	41.10	38.57	36.86	36.52	36.67	36.81	36.98	37.15	37.78	40.64	41.01
2025	42.03	42.20	40.77	39.59	39.38	39.54	39.70	39.89	40.07	40.61	43.66	43.91
2026	45.07	45.26	44.51	44.11	42.65	42.83	43.01	43.21	43.41	44.06	47.78	48.22
2027	49.02	49.23	47.92	46.52	44.38	44.56	44.75	44.96	45.17	45.83	50.22	50.67
2028	51.42	50.79	49.92	48.41	47.87	48.07	48.27	48.50	48.73	49.40	53.71	54.19
2029	56.59	56.83	55.52	54.00	53.49	53.59	53.81	54.06	54.32	54.86	58.94	59.20
2030	60.61	60.88	55.00	53.45	52.87	52.63	52.86	53.11	53.37	53.92	60.13	60.40
2031	61.92	62.20	58.43	56.77	56.25	56.48	56.72	56.99	57.27	57.81	63.97	64.26
2032	63.24	63.52	59.67	57.99	57.46	57.69	57.93	58.21	58.49	59.05	65.33	65.62
2033	64.47	64.76	60.84	59.12	58.57	58.81	59.06	59.34	59.63	60.20	66.60	66.90
2034	65.82	66.11	62.11	60.36	59.80	60.04	60.30	60.58	60.88	61.46	67.99	68.30
2035	66.96	67.26	63.18	61.40	60.83	61.08	61.34	61.63	61.93	62.52	69.18	69.49
2036	68.40	68.70	64.55	62.72	62.15	62.40	62.66	62.96	63.27	63.87	70.66	70.98
2037	69.79	70.10	65.86	64.00	63.41	63.67	63.94	64.24	64.55	65.17	72.09	72.42
2038	71.19	71.51	67.19	65.29	64.69	64.95	65.23	65.53	65.86	66.48	73.54	73.87
2039	72.83	73.15	68.74	66.81	66.20	66.46	66.75	67.06	67.39	68.03	75.23	75.56
2040	74.13	74.46	69.96	67.99	67.37	67.64	67.93	68.25	68.58	69.23	76.57	76.92
2041	75.71	76.04	71.46	69.45	68.82	69.09	69.38	69.71	70.05	70.71	78.20	78.55
2042	77.13	77.47	72.80	70.75	70.10	70.38	70.68	71.01	71.36	72.03	79.67	80.03
2043	78.72	79.07	74.30	72.22	71.55	71.84	72.15	72.48	72.84	73.53	81.31	81.68

PRICING OPTIONS FOR STANDARD PPA (Continued)

2) Renewable Fixed Price Option

The Renewable Fixed Price Option is based on Renewable Avoided Costs. It is available only to Renewable QFs that generate electricity from a renewable energy source that may be used by the Company to comply with the Oregon Renewable Portfolio Standard as set forth in ORS 469A.005 to 469A.210.

This option is available for a maximum term of 15 years. Prices will be as established at the time the Standard PPA is executed and will be equal to the Renewable Avoided Costs in Tables 4a and 4b, 5a and 5b, or 6a and 6b, depending on the type of QF, effective at execution. QFs using any resource type other than wind and solar are assumed to be Base Load QFs.

Sellers will retain all Environmental Attributes generated by the facility during the Renewable Resource Sufficiency Period. A Renewable QF choosing the Renewable Fixed Price Option must cede all RPS Attributes generated by the facility to the Company during the Renewable Resource Deficiency Period.

Prices paid to the Seller under the Renewable Fixed Price Option include adjustments for the capacity contribution of the QF resource type relative to that of the avoided proxy resource. Both Wind QF resources (Tables 5a and 5b) and the avoided proxy resource, the basis used to determine Renewable Avoided Costs for the Renewable Fixed Price Option, are assumed to have a capacity contribution to peak of 5%. The capacity contribution for Solar QF resources (Tables 6a and 6b) is assumed to be 5%. The capacity contribution for Base Load QF resources (Tables 4a and 4b) is assumed to be 100%.

The Renewable Avoided Costs during the Renewable Resource Deficiency Period reflect an increase for avoided wind integration costs, shown in Table 7.

Prices paid to the Seller under the Renewable Fixed Price Option for Wind QFs (Tables 5a and 5b) include a reduction for the wind integration costs in Table 7, which cancels out wind integration costs included in the Renewable Avoided Costs during the Renewable Resource Deficiency Period. However, if the Wind QF is outside of PGE's Balancing Authority Area as contemplated in the Commission's Order No. 14-058, the Seller is paid the wind integration charges in Table 7, in addition to the prices listed in Tables 5a and 5b.

Sellers with PPAs exceeding 15 years will receive pricing equal to the Mid-C Index Price and will retain all Environmental Attributes generated by the facility for all years up to five in excess of the initial 15.

					Т.	ABLE 4a						
				F		e Avoide	d Costs					
			Rei	newable l	Fixed Price	ce Option	for Base	e Load Q	F			
				0	n-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	28.70	27.45	24.70	23.95	23.20	22.70	30.20	32.20	31.20	28.45	29.45	33.95
2017	32.23	30.77	27.60	25.76	25.05	23.29	31.42	35.71	31.73	30.96	31.96	34.42
2018	32.41	30.98	27.85	27.00	26.15	25.58	34.11	36.39	35.25	32.12	33.26	38.38
2019	33.92	32.42	29.14	28.25	27.35	26.76	35.70	38.09	36.90	33.62	34.81	40.18
2020	35.79	34.22	30.75	29.80	28.85	28.22	37.68	40.21	38.95	35.48	36.74	42.41
2021	37.41	35.76	32.13	31.24	30.23	29.70	39.63	42.07	41.04	37.18	38.51	44.71
2022	39.01	37.30	33.52	32.68	31.62	31.17	41.57	43.94	43.13	38.87	40.27	47.00
2023	40.54	38.76	34.82	34.04	32.91	32.56	43.44	45.71	45.14	40.48	41.95	49.20
2024	110.53	110.53	110.53	110.53	110.53	110.53	110.53	110.53	110.53	110.53	110.53	110.53
2025	113.03	113.03	113.03	113.03	113.03	113.03	113.03	113.03	113.03	113.03	113.03	113.03
2026	115.26	115.26	115.26	115.26	115.26	115.26	115.26	115.26	115.26	115.26	115.26	115.26
2027	117.54	117.54	117.54	117.54	117.54	117.54	117.54	117.54	117.54	117.54	117.54	117.54
2028	119.61	119.61	119.61	119.61	119.61	119.61	119.61	119.61	119.61	119.61	119.61	119.61
2029	122.22	122.22	122.22	122.22	122.22	122.22	122.22	122.22	122.22	122.22	122.22	122.22
2030	124.63	124.63	124.63	124.63	124.63	124.63	124.63	124.63	124.63	124.63	124.63	124.63
2031	127.09	127.09	127.09	127.09	127.09	127.09	127.09	127.09	127.09	127.09	127.09	127.09
2032	129.12	129.12	129.12	129.12	129.12	129.12	129.12	129.12	129.12	129.12	129.12	129.12
2033	132.15	132.15	132.15	132.15	132.15	132.15	132.15	132.15	132.15	132.15	132.15	132.15
2034	134.87	134.87	134.87	134.87	134.87	134.87	134.87	134.87	134.87	134.87	134.87	134.87
2035	137.42	137.42	137.42	137.42	137.42	137.42	137.42	137.42	137.42	137.42	137.42	137.42
2036	139.73	139.73	139.73	139.73	139.73	139.73	139.73	139.73	139.73	139.73	139.73	139.73
2037	142.90	142.90	142.90	142.90	142.90	142.90	142.90	142.90	142.90	142.90	142.90	142.90
2038	145.71	145.71	145.71	145.71	145.71	145.71	145.71	145.71	145.71	145.71	145.71	145.71
2039	148.59	148.59	148.59	148.59	148.59	148.59	148.59	148.59	148.59	148.59	148.59	148.59
2040	151.21	151.21	151.21	151.21	151.21	151.21	151.21	151.21	151.21	151.21	151.21	151.21
2041	154.51	154.51	154.51	154.51	154.51	154.51	154.51	154.51	154.51	154.51	154.51	154.51
2042	157.56	157.56	157.56	157.56	157.56	157.56	157.56	157.56	157.56	157.56	157.56	157.56
2043	160.67	160.67	160.67	160.67	160.67	160.67	160.67	160.67	160.67	160.67	160.67	160.67

					T	ABLE 4b						
				F	Renewabl	e Avoide	d Costs					
			Rer	newable I	ixed Pric	ce Option	for Base	Load Q	F			
				0	ff-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	24.95	24.20	21.45	19.45	17.45	15.45	21.20	24.70	25.95	24.20	24.95	27.95
2017	27.32	26.24	23.54	19.64	17.62	14.18	22.58	27.07	24.90	26.34	26.98	29.03
2018	27.49	26.66	23.61	21.39	19.17	16.95	23.33	27.22	28.60	26.66	27.49	30.82
2019	29.30	28.41	25.15	22.77	20.40	18.03	24.85	29.00	30.49	28.41	29.30	32.86
2020	31.61	30.64	27.11	24.54	21.96	19.39	26.79	31.28	32.89	30.64	31.61	35.46
2021	32.93	31.82	28.30	25.85	23.43	21.19	29.56	33.41	34.80	32.30	33.33	38.06
2022	34.54	33.36	29.68	27.29	24.82	22.66	31.50	35.27	36.89	33.99	35.09	40.35
2023	36.06	34.82	30.99	28.65	26.11	24.05	33.36	37.05	38.90	35.60	36.78	42.56
2024	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13
2025	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98
2026	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64
2027	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33
2028	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81
2029	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81
2030	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60
2031	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43
2032	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03
2033	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19
2034	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13
2035	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11
2036	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84
2037	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18
2038	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28
2039	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41
2040	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28
2041	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82
2042	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08
2043	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39

					T.	ABLE 5a						
				F	Renewabl	e Avoide	d Costs					
			F	Renewab	le Fixed F	Price Opt	ion for W	ind QF				
				0	n-Peak F	orecast (\$/MWH)				1	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	24.86	23.61	20.86	20.11	19.36	18.86	26.36	28.36	27.36	24.61	25.61	30.11
2017	28.32	26.86	23.69	21.85	21.14	19.38	27.51	31.80	27.82	27.05	28.05	30.51
2018	28.42	26.99	23.86	23.01	22.16	21.59	30.12	32.40	31.26	28.13	29.27	34.39
2019	29.85	28.35	25.07	24.18	23.28	22.69	31.63	34.02	32.83	29.55	30.74	36.11
2020	31.64	30.07	26.60	25.65	24.70	24.07	33.53	36.06	34.80	31.33	32.59	38.26
2021	33.18	31.53	27.90	27.01	26.00	25.47	35.40	37.84	36.81	32.95	34.28	40.48
2022	34.70	32.99	29.21	28.37	27.31	26.86	37.26	39.63	38.82	34.56	35.96	42.69
2023	36.14	34.36	30.42	29.64	28.51	28.16	39.04	41.31	40.74	36.08	37.55	44.80
2024	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64
2025	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40
2026	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97
2027	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57
2028	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96
2029	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86
2030	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56
2031	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29
2032	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78
2033	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84
2034	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67
2035	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55
2036	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17
2037	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40
2038	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38
2039	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39
2040	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15
2041	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56
2042	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70
2043	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89

					T	ABLE 5b						
				F	Renewabl	e Avoide	d Costs					
			F	Renewab	le Fixed F	Price Opt	ion for W	ind QF				
				0	ff-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	21.11	20.36	17.61	15.61	13.61	11.61	17.36	20.86	22.11	20.36	21.11	24.11
2017	23.41	22.33	19.63	15.73	13.71	10.27	18.67	23.16	20.99	22.43	23.07	25.12
2018	23.50	22.67	19.62	17.40	15.18	12.96	19.34	23.23	24.61	22.67	23.50	26.83
2019	25.23	24.34	21.08	18.70	16.33	13.96	20.78	24.93	26.42	24.34	25.23	28.79
2020	27.46	26.49	22.96	20.39	17.81	15.24	22.64	27.13	28.74	26.49	27.46	31.31
2021	28.70	27.59	24.07	21.62	19.20	16.96	25.33	29.18	30.57	28.07	29.10	33.83
2022	30.23	29.05	25.37	22.98	20.51	18.35	27.19	30.96	32.58	29.68	30.78	36.04
2023	31.66	30.42	26.59	24.25	21.71	19.65	28.96	32.65	34.50	31.20	32.38	38.16
2024	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64	77.64
2025	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40	79.40
2026	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97	80.97
2027	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57	82.57
2028	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96	83.96
2029	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86
2030	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56	87.56
2031	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29	89.29
2032	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78	90.78
2033	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84	92.84
2034	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67	94.67
2035	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55	96.55
2036	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17	98.17
2037	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40	100.40
2038	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38	102.38
2039	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39	104.39
2040	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15	106.15
2041	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56	108.56
2042	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70	110.70
2043	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89	112.89

					T.	ABLE 6a						
				F	Renewabl	e Avoide	d Costs					
			ı	Renewab	le Fixed F	Price Opt	ion for S	olar QF				
				0	n-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	28.70	27.45	24.70	23.95	23.20	22.70	30.20	32.20	31.20	28.45	29.45	33.95
2017	32.23	30.77	27.60	25.76	25.05	23.29	31.42	35.71	31.73	30.96	31.96	34.42
2018	32.41	30.98	27.85	27.00	26.15	25.58	34.11	36.39	35.25	32.12	33.26	38.38
2019	33.92	32.42	29.14	28.25	27.35	26.76	35.70	38.09	36.90	33.62	34.81	40.18
2020	35.79	34.22	30.75	29.80	28.85	28.22	37.68	40.21	38.95	35.48	36.74	42.41
2021	37.41	35.76	32.13	31.24	30.23	29.70	39.63	42.07	41.04	37.18	38.51	44.71
2022	39.01	37.30	33.52	32.68	31.62	31.17	41.57	43.94	43.13	38.87	40.27	47.00
2023	40.54	38.76	34.82	34.04	32.91	32.56	43.44	45.71	45.14	40.48	41.95	49.20
2024	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13
2025	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98
2026	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64
2027	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33
2028	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81
2029	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81
2030	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60
2031	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43
2032	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03
2033	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19
2034	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13
2035	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11
2036	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84
2037	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18
2038	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28
2039	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41
2040	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28
2041	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82
2042	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08
2043	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39

					T	ABLE 6b						
				R	Renewabl	e Avoide	d Costs					
			ı	Renewab	le Fixed F	Price Opt	ion for S	olar QF				
				0	ff-Peak F	orecast (\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	24.95	24.20	21.45	19.45	17.45	15.45	21.20	24.70	25.95	24.20	24.95	27.95
2017	27.32	26.24	23.54	19.64	17.62	14.18	22.58	27.07	24.90	26.34	26.98	29.03
2018	27.49	26.66	23.61	21.39	19.17	16.95	23.33	27.22	28.60	26.66	27.49	30.82
2019	29.30	28.41	25.15	22.77	20.40	18.03	24.85	29.00	30.49	28.41	29.30	32.86
2020	31.61	30.64	27.11	24.54	21.96	19.39	26.79	31.28	32.89	30.64	31.61	35.46
2021	32.93	31.82	28.30	25.85	23.43	21.19	29.56	33.41	34.80	32.30	33.33	38.06
2022	34.54	33.36	29.68	27.29	24.82	22.66	31.50	35.27	36.89	33.99	35.09	40.35
2023	36.06	34.82	30.99	28.65	26.11	24.05	33.36	37.05	38.90	35.60	36.78	42.56
2024	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13	82.13
2025	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98	83.98
2026	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64	85.64
2027	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33	87.33
2028	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81	88.81
2029	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81	90.81
2030	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60	92.60
2031	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43	94.43
2032	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03	96.03
2033	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19	98.19
2034	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13	100.13
2035	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11	102.11
2036	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84	103.84
2037	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18	106.18
2038	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28	108.28
2039	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41	110.41
2040	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28	112.28
2041	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82	114.82
2042	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08	117.08
2043	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39	119.39

WIND INTEGRATION

TABLE 7	
Wind Integration	
Year	Cost
2016	3.84
2017	3.91
2018	3.99
2019	4.07
2020	4.15
2021	4.23
2022	4.31
2023	4.40
2024	4.49
2025	4.58
2026	4.67
2027	4.76
2028	4.85
2029	4.95
2030	5.04
2031	5.14
2032	5.25
2033	5.35
2034	5.46
2035	5.56
2036	5.67
2037	5.78
2038	5.90
2039	6.02
2040	6.13
2041	6.26
2042	6.38
2043	6.50

MONTHLY SERVICE CHARGE

Each separately metered QF not associated with a retail Customer account will be charged \$10.00 per month.

INSURANCE REQUIREMENTS

The following insurance requirements are applicable to Sellers with a Standard PPA:

- 1) QFs with nameplate capacity ratings greater than 200 kW are required to secure and maintain a prudent amount of general liability insurance. The Seller must certify to the Company that it is maintaining general liability insurance coverage for each QF at prudent amounts. A prudent amount will be deemed to mean liability insurance coverage for both bodily injury and property damage liability in the amount of not less than \$1,000,000 each occurrence combined single limit, which limits may be required to be increased or decreased by the Company as the Company determines in its reasonable judgment, that economic conditions or claims experience may warrant.
- 2) Such insurance will include an endorsement naming the Company as an additional insured insofar as liability arising out of operations under this schedule and a provision that such liability policies will not be canceled or their limits reduced without 30 days' written notice to the Company. The Seller will furnish the Company with certificates of insurance together with the endorsements required herein. The Company will have the right to inspect the original policies of such insurance.
- 3) QFs with a design capacity of 200 kW or less are encouraged to pursue liability insurance on their own. The Oregon Public Utility Commission in Order No. 05-584 determined that it is inappropriate to require QFs that have a design capacity of 200 kW or less to obtain general liability insurance.

TRANSMISSION AGREEMENTS

If the QF is located outside the Company's service territory, the Seller is responsible for the transmission of power at its cost to the Company's service territory.

INTERCONNECTION REQUIREMENTS

Except as otherwise provided in a generation Interconnection Agreement between the Company and Seller, if the QF is located within the Company's service territory, switching equipment capable of isolating the QF from the Company's system will be accessible to the Company at all times. At the Company's option, the Company may operate the switching equipment described above if, in the sole opinion of the Company, continued operation of the QF in connection with the utility's system may create or contribute to a system emergency.

INTERCONNECTION REQUIREMENTS (Continued)

The QF owner interconnecting with the Company's distribution system must comply with all requirements for interconnection as established pursuant to Commission rule, in the Company's Rules and Regulations (Rule C) or the Company's Interconnection Procedures contained in its FERC Open Access Transmission Tariff (OATT), as applicable. The Seller will bear full responsibility for the installation and safe operation of the interconnection facilities.

DEFINITION OF A SMALL COGENERATION FACILITY OR SMALL POWER PRODUCTION FACILITY ELIGIBLE TO RECEIVE PRICING UNDER THE STANDARD PPA

A QF will be eligible to receive pricing under the Standard PPA if the nameplate capacity of the QF, together with any other electric generating facility using the same motive force, owned or controlled by the Same Person(s) or Affiliated Person(s), and located at the Same Site, does not exceed 10 MW. A Community-Based or Family-Owned QF is exempt from these restrictions.

Definition of Community-Based

- a. A community project (or a community sponsored project) must have a recognized and established organization located within the county of the project or within 50 miles of the project that has a genuine role in helping the project be developed and must have some not insignificant continuing role with or interest in the project after it is completed and placed in service.
- b. After excluding the passive investor whose ownership interests are primarily related to green tag values and tax benefits as the primary ownership benefit, the equity (ownership) interests in a community sponsored project must be owned in substantial percentage (80 percent or more) by the following persons (individuals and entities): (i) the sponsoring organization, or its controlled affiliates; (ii) members of the sponsoring organization (if it is a membership organization) or owners of the sponsorship organization (if it is privately owned); (iii) persons who live in the county in which the project is located or who live a county adjoining the county in which the project is located; or (iv) units of local government, charities, or other established nonprofit organizations active either in the county in which the project is located or active in a county adjoining the county in which the project is located.

Definition of Family-Owned

After excluding the ownership interest of the passive investor whose ownership interests are primarily related to green tag values and tax benefits as the primary ownership benefit, five or fewer individuals own 50 percent or more of the equity of the project entity, or fifteen or fewer individuals own 90 percent or more of the project entity. A "look through" rule applies to closely held entities that hold the project entity, so that equity held by LLCs, trusts, estates, corporations, partnerships or other similar entities is considered held by the equity owners of the look through entity. An individual is a natural person. In counting to five or fifteen, spouses or children of an equity owner of the project owner who also have an equity interest are aggregated and counted as a single individual.

SCHEDULE 201 (Concluded)

DEFINITION OF A SMALL COGENERATION FACILITY OR SMALL POWER PRODUCTION FACILITY ELIGIBLE TO RECEIVE PRICING UNDER THE STANDARD PPA (Continued)

Definition of Person(s) or Affiliated Person(s)

As used above, the term "Same Person(s)" or "Affiliated Person(s)" means a natural person or persons or any legal entity or entities sharing common ownership, management or acting jointly or in concert with or exercising influence over the policies or actions of another person or entity. However, two facilities will not be held to be owned or controlled by the Same Person(s) or Affiliated Person(s) solely because they are developed by a single entity.

Furthermore, two facilities will not be held to be owned or controlled by the Same Person(s) or Affiliated Person(s) if such common person or persons is a "passive investor" whose ownership interest in the QF is primarily related to utilizing production tax credits, green tag values and MACRS depreciation as the primary ownership benefit and the facilities at issue are independent family-owned or community-based projects. A unit of Oregon local government may also be a "passive investor" in a community-based project if the local governmental unit demonstrates that it will not have an equity ownership interest in or exercise any control over the management of the QF and that its only interest is a share of the cash flow from the QF, which share will not exceed 20%. The 20% cash flow share limit may only be exceeded for good cause shown and only with the prior approval of the Commission.

Definition of Same Site

For purposes of the foregoing, generating facilities are considered to be located at the same site as the QF for which qualification for pricing under the Standard PPA is sought if they are located within a five-mile radius of any generating facilities or equipment providing fuel or motive force associated with the QF for which qualification for pricing under the Standard PPA is sought.

Definition of Shared Interconnection and Infrastructure

QFs otherwise meeting the above-described separate ownership test and thereby qualified for entitlement to pricing under the Standard PPA will not be disqualified by utilizing an interconnection or other infrastructure not providing motive force or fuel that is shared with other QFs qualifying for pricing under the Standard PPA so long as the use of the shared interconnection complies with the interconnecting utility's safety and reliability standards, interconnection agreement requirements and Prudent Electrical Practices as that term is defined in the interconnecting utility's approved Standard PPA.

OTHER DEFINITIONS

Mid-C Index Price

As used in this schedule, the daily Mid-C Index Price shall be the Day Ahead Intercontinental Exchange ("ICE") for the bilateral OTC market for energy at the Mid-C Physical for Average

OTHER DEFINITIONS (Continued)

On-Peak Power and Average Off-Peak Power found on the following website: https://www.theice.com/products/OTC/Physical-Energy/Electricity. In the event ICE no longer publishes this index, PGE and the Seller agree to select an alternative successor index representative of the Mid-C trading hub.

Definition of RPS Attributes

As used in this schedule, RPS Attributes means all attributes related to the Net Output generated by the Facility that are required in order to provide PGE with "qualifying electricity," as that term is defined in Oregon's Renewable Portfolio Standard Act, Ore. Rev. Stat. 469A.010, in effect at the time of execution of this Agreement. RPS Attributes do not include Environmental Attributes that are greenhouse gas offsets from methane capture not associated with the generation of electricity and not needed to ensure that there are zero net emissions associated with the generation of electricity.

Definition of Environmental Attributes

As used in this schedule, Environmental Attributes shall mean any and all claims, credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, resulting from the avoidance of the emission of any gas, chemical, or other substance to the air, soil or water. Environmental Attributes include but are not limited to: (1) any avoided emissions of pollutants to the air, soil, or water such as (subject to the foregoing) sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO), and other pollutants; and (2) any avoided emissions of carbon dioxide (CO2), methane (CH4), and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere.

Definition of Resource Sufficiency Period

This is the period from the current year through 2020.

Definition of Resource Deficiency Period

This is the period beginning in 2021.

Definition of Renewable Resource Sufficiency Period

This is the period from the current year through 2023.

Definition of Renewable Resource Deficiency Period

This is the period beginning in 2024.

DISPUTE RESOLUTION

Upon request, the QF will provide the purchasing utility with documentation verifying the ownership, management and financial structure of the QF in reasonably sufficient detail to allow the utility to make an initial determination of whether or not the QF meets the above-described criteria for entitlement to pricing under the Standard PPA.

The QF may present disputes to the Commission for resolution using the following process:

The QF may file a complaint asking the Commission to adjudicate disputes regarding the formation of the standard contract. The QF may not file such a complaint during any 15-day period in which the utility has the obligation to respond, but must wait until the 15-day period has passed.

The utility may respond to the complaint within ten days of service.

The Commission will limit its review to the issues identified in the complaint and response, and utilize a process similar to the arbitration process adopted to facilitate the execution of interconnection agreements among telecommunications carriers. See OAR 860, Division 016. The administrative law judge will not act as an arbitrator.

SPECIAL CONDITIONS

- 1. Delivery of energy by Seller will be at a voltage, phase, frequency, and power factor as specified by the Company.
- 2. If the Seller also receives retail Electricity Service from the Company at the same location, any payments under this schedule will be credited to the Seller's retail Electricity Service bill. At the option of the Customer, any net credit over \$10.00 will be paid by check to the Customer.
- 3. Unless required by state or federal law, if the 1978 Public Utility Regulatory Policies Act (PURPA) is repealed, PPAs entered into pursuant to this schedule will not terminate prior to the Standard or Negotiated PPA's termination date.

TERM OF AGREEMENT

Not less than one year and not to exceed 20 years.