#### BEFORE THE PUBLIC UTILITY COMMISSION

#### **OF OREGON**

#### **UM 1869**

In the Matter of

SSD CLACKAMAS 1 LLC,

Complainant,

V.

PORTLAND GENERAL ELECTRIC COMPANY,

Defendant

SSD CLACKAMAS 1 LLC'S PARTIAL MOTION FOR SUMMARY JUDGMENT

EXPEDITED CONSIDERATION REQUESTED

Pursuant to ORCP 47 and OAR 860-001-0420, SSD Clackamas 1 LLC ("Clackamas 1" or "Complainant") moves the Oregon Public Utility Commission ("Commission") for partial summary judgment in Complainant's favor as to the issues detailed herein. Clackamas 1 seeks partial summary judgment finding that, at a minimum: 1) Clackamas 1 formed a legally enforceable obligation ("LEO") prior to September 18, 2017 and is eligible for the Schedule 202 avoided cost prices in effect prior to September 18, 2017; or 2) in the alternative, that Clackamas 1 formed a LEO as of the date of this filing, the terms of which are governed by PGE's currently effective standard power purchase agreement ("PPA") and based on PGE's currently effective Schedule 202 avoided cost prices. Specifically, Clackamas 1 is seeking

PGE has two avoided cost rate schedules: Schedule 201 for projects at or below the relevant size rate eligibility cap and Schedule 202 for projects above the relevant size rate eligibility cap. Currently, the price eligibility cap for solar resources is 3 MW. All generation resources up to 10 MW are eligible for standard contract terms and provisions.

resolution of what the appropriate Schedule 202 avoided cost rates would be, if the Commission agrees with PGE that Clackamas 1 did not form a legally enforceable obligation to Schedule 201 rates and instead concludes that Clackamas 1 is only eligible for Schedule 202 rates. The facts, as detailed below, are not in dispute regarding this limited and discrete issue.

Clackamas 1 raised a number of issues in its Complaint regarding problems in its negotiations with PGE that delayed or obstructed progress towards an executable PPA, and this Partial Motion for Summary Judgment is not intended to resolve all of those issues.<sup>2</sup> However, in light of PGE's upcoming May 1, 2018 avoided cost update filing, Clackamas 1 seeks partial summary judgment clarifying that Clackamas 1 has, at least, formed a LEO at PGE's standard PPA terms and Schedule 202 rates (because Clackamas 1 is a 4 MW solar project) in effect prior to September 18, 2017 or, in the alternative, at the currently effective standard PPA terms and PGE's currently effective Schedule 202 avoided cost prices. Since this case was filed, two Commission orders have changed the eligibility<sup>3</sup> and avoided cost rates<sup>4</sup> applicable to the PPA.

Clackamas 1's complaint argues that it is eligible for the Schedule 201 rates in effect prior to September 18, 2017. Clackamas 1 reserves the right to make this and other legal arguments, including but not limited to whether Oregon's LEO policy is consistent with the Federal Energy Regulatory Commission's ("FERC") rules and policies, and whether PGE's actions were proper in requiring that Clackamas 1 submit additional information, raising objections to the information provided by Clackamas 1, providing documents on an untimely basis, or requiring that Clackamas 1 go through multiple drafts or a "final draft" stage.

See PGE Application to Lower Standard Price and Contract Eligibility Cap Solar QFs, Docket No. UM 1854, Order No. 17-310 (granting PGE's Motion for Interim Relief in Part by reducing the eligibility cap for avoided cost prices in standard contracts to 3 MW for solar QFs effective July 14, 2017) (Aug. 18, 2017).

See PGE Application to Update Schedule 201 Qualifying Facility Information, Docket No. UM 1728, Order No. 17-347 (Sept. 14, 2017) (approving PGE's post-IRP acknowledgement avoided cost update).

If the Commission issues a final order in this proceeding denying Clackamas 1's claims, PGE appears to have taken the position that Clackamas 1 will not be eligible for the pre-September 18, 2017 contract terms and rates or even the currently effective contract terms and rates. PGE's position appears to be that Clackamas 1 will, instead, only be eligible for the contract terms and rates at the time the Commission issues its final order in this proceeding, which could be months if not years away, if fully litigated. At a minimum, a final litigated order will not be issued before the next rate change in May or June of this year. Thus, Clackamas 1 seeks to obtain clarity and to avoid having a third change in policy further complicate this matter.<sup>5</sup>

### I. BACKGROUND

Clackamas 1 filed its Complaint in UM 1869 on August 7, 2017, and PGE filed its

Answer on September 19, 2017. The case is being handled jointly with other complaints, but
they have not been formally consolidated. Originally, there were 13 total Complaints in this
group with sizes between 2 and 4 megawatts, but three have been resolved: SSD Clackamas 2

LLC, UM 1870; SSD Clackamas 4 LLC, UM 1864; and SSD Marion 3 LLC, UM 1871. A

prehearing conference was held on January 24, 2018 for the remaining 10. On January 26, 2018,

Administrative Law Judge ("ALJ") Allan J. Arlow issued a ruling temporarily suspending these
matters so the parties may engage in settlement discussions. ALJ Arlow directed the parties to
inform the Commission of the status of those discussions by February 23, 2018. Settlement
discussions are still ongoing; however, Clackamas 1 is seeking partial summary judgment on the

SSD CLACKAMAS 1 LLC'S PARTIAL MOTION FOR SUMMARY JUDGMENT

Clackamas 1 reserves the right to later claim that it formed its LEO at an earlier point in time because other problems delayed or obstructed progress toward an executable PPA.

issues detailed herein. Clackamas 1 is concerned that settlement negotiations may fail to reach a satisfactory conclusion, and the delays to date, including Clackamas 1's good faith efforts to resolve this proceeding, may have impaired its legal rights.

Given the upcoming May 1 avoided cost rate filing that PGE is expected to make, Clackamas 1 requests expedited and timely consideration of this Partial Motion for Summary Judgment prior to May 1, 2018, which is approximately two months away. Clackamas 1 has conferred with PGE regarding expedited consideration and PGE opposes any expedited consideration of this motion.

#### II. FACTS

Clackamas 1 is a 4 MW solar QF under the Public Utility Regulatory Policy Act ("PURPA"). Clackamas 1 and PGE began discussions regarding the project, at the latest, by March 17, 2017.<sup>6</sup> PGE provided a draft Standard PPA on May 23, 2017.<sup>7</sup> Between May 23, 2017 and August 15, 2017, Clackamas 1 and PGE engaged in discussions and PGE provided iterations of the draft Standard PPA.<sup>8</sup> On August 15, 2017, PGE provided a final draft Standard PPA.<sup>9</sup> Following receipt of PGE's final draft Standard PPA, Clackamas 1, on August 16, 2017, indicated that it agreed to the terms and conditions of the final draft Standard PPA, that it

<sup>6</sup> UM 1869 Complaint and Answer at ¶ 12. This may not be the earliest date discussions began, but it is the earliest date not in dispute as reflected in the record.

UM 1869 Complaint and Answer at ¶ 33. Complainant takes issue with some of PGE's actions before PGE provided its draft on May 23, 2017, but Complainant is not seeking summary judgment on any of those issues in this Partial Motion for Summary Judgment.

UM 1869 Complaint and Answer at ¶¶ 34, 38, & 48. Complainant takes issue with some of PGE's actions during this time, but Complainant is not seeking summary judgment on any of those issues in this Partial Motion for Summary Judgment.

Declaration of Ryan Hulett in Support of SSD Clackamas 1 LLC's Partial Motion for Summary Judgment ("Hulett Declaration") at Attachments A, B, and C.

unequivocally committed to selling to PGE, and requested an executable version of the PPA.<sup>10</sup> September 9, 2017 is 15 business days after August 16, 2017. On September 7, 2017, PGE did not provide an executable version of the Standard PPA, but, instead, indicated that Clackamas 1 was no longer eligible for Schedule 201 prices and that PGE cannot move forward unless and until Clackamas 1 moved back to the start of the entire process and requested indicative pricing.<sup>11</sup> PGE could have provided indicative pricing, but did not.

On August 18, 2017, the Commission granted PGE interim relief in UM 1854 reducing the eligibility cap for avoided cost prices in standard contracts to 3 MW for solar QFs. <sup>12</sup> The Commission made this eligibility cap effective as of July 14, 2017 and noted that solar QF developers yet to sign an executable contract prior to that date may seek a determination of whether a LEO had been established. <sup>13</sup> At that time, Clackamas 1 had already filed its Complaint to establish a LEO for its 4 MW project. Clackamas 1 may have formed a LEO prior to the 3 MW eligibility cap change on July 14, 2017 and/or the eligibility cap change may not apply to Clackamas 1, but Clackamas 1 is not seeking summary judgment on those issues at this time.

In addition, the Commission approved an avoided cost rate change that went into effect September 18, 2017,<sup>14</sup> and PGE is expected to file a May 1, 2018 annual update to its avoided

<sup>10 &</sup>lt;u>Id.</u> at Attachment D.

Id. at Attachment E.

PGE Application to Lower Standard Price and Contract Eligibility Cap Solar QFs, Docket No. UM 1854, Order No. 17-310 at 2 (granting PGE's Motion for Interim Relief in Part by reducing the eligibility cap for avoided cost prices in standard contracts to 3 MW for solar QFs effective July 14, 2017) (Aug. 18, 2017).

<sup>&</sup>lt;sup>13</sup> Id. at 7.

PGE Application to Update Schedule 201 Qualifying Facility Information, Docket No. UM 1728, Order No. 17-347 (Sept. 14, 2017).

cost prices. What Clackamas 1 seeks in this Motion for Summary Judgment is a determination that, at the very least, Clackamas 1 formed a LEO prior to the September 18, 2017 avoided cost rate change or, in the alternative, formed a LEO as of the date of filing of this Motion at current standard contract terms and at PGE's Schedule 202 avoided costs in effect at the time of the legally enforceable obligation.

#### III. MOTION

Clackamas 1 hereby moves the Commission for an order granting partial summary judgment in favor of Complainant finding that, at a minimum, Clackamas 1:

- Formed a LEO under the terms and conditions of PGE's standard PPA in effect prior to September 18, 2017 and based on PGE's Schedule 202 avoided cost rates in effect prior to September 18, 2017;
- 2. In the alternative, formed a LEO under the terms and conditions of PGE's standard PPA in effect on the date of filing of this Motion and based on PGE's Schedule 202 avoided cost rates in effect on the date of filing of this Motion.<sup>15</sup>

#### IV. LEGAL STANDARDS

The Commission should grant a motion for summary judgment if the record shows that there is no genuine issue as to any material fact and that the moving party is entitled to prevail as

Complainant reserves the right to later claim that an executable contract was due or that a LEO formed at an earlier date due to other delays caused by PGE during the contacting process that are not at issue in this Partial Motion for Summary Judgment. This Partial Motion for Summary Judgment is intended to clarify that if settlement discussions breakdown or Complainant is otherwise unable to prove that an executable contract was due earlier, Complainant is at the very least entitled to a pre-September 18, 2017 LEO or a LEO at current contract terms and current negotiated rates.

a matter of law.<sup>16</sup> No genuine issue as to a material fact exists if, based on the record and viewed in a manner most favorable to the non-moving party, no objectively reasonable person could return a verdict for the non-moving party on the matter that is the subject matter of the motion for summary judgment.<sup>17</sup>

Under the Commission's rules, a LEO is created when a QF signs an executable contract that includes a scheduled commercial on-line date and information regarding the QF's minimum and maximum annual deliveries. A LEO may also be created even when the utility has not provided an executable PPA. In the administrative proceeding in which the Commission adopted its current LEO policy (UM 1610), PGE argued that a LEO should occur when the utility provides the final executable draft contract because "[t]he terms of a QF agreement prior to the utility providing a final draft are not sufficiently known and clear for the QF to make such a commitment." The Commission's LEO policy was based on Staff's recommendation, and Staff noted that:

A utility's failure to comply with the timelines in its tariff or form of standard contract for entering into a standard contract could circumvent the QF's ability to enter into a PPA. In these circumstances, the QF should have the ability to establish a LEO even though the utility has not provided it with a final draft executable standard contract.<sup>20</sup>

ORCP 47C.

<sup>&</sup>lt;sup>17</sup> Id

Re Commission Investigation into QF Contracting and Pricing, Docket No. UM 1610, Order No. 16-174 at 27 (May 13, 2016).

Re Commission Investigation into QF Contracting and Pricing, Docket No. UM 1610, PGE/500, McFarlane-Morton/12 (May 22, 2015).

Re Commission Investigation into QF Contracting and Pricing, Docket No. UM 1610, Staff/500, Andrus/41 (May 22, 2015) (emphasis added).

The Commission also acknowledged that "problems may delay or obstruct progress towards a final draft of executable contract, such as failure by a utility to provide a QF with required information or documents on a timely basis." Therefore, even where no executed contract has been provided, the QF could form a LEO if the terms of the agreement are sufficiently known and clear, and the QF commits itself to those terms. The Commission decides on a case-by-case basis when a LEO is formed.<sup>22</sup>

Additionally, the Commission cannot impose requirements on LEO formation that are inconsistent with PURPA or Federal Energy Regulatory Commission ("FERC") regulations.<sup>23</sup> The phrase "legally enforceable obligation" is intended to prevent a utility from avoiding its PURPA obligations by refusing to sign a contract, or from delaying the signing of a contract so that a later and lower avoided cost is applicable.<sup>24</sup> A LEO may be formed by a partially executed contract, or by no contract at all if a QF unequivocally commits itself to sell to the utility.<sup>25</sup>

Specifically, where a contract has been negotiated but not executed prior to a state commission's rule change, the QF can still form a LEO if the material terms of the contract were

Re Commission Investigation into QF Contracting and Pricing, Docket No. UM 1610, Order No. 16-174 at 27 (May 13, 2016).

<sup>&</sup>lt;sup>22</sup> Id.

Cedar Creek Wind, LLC, 137 FERC ¶ 61,006 at P.35 (2011). Under PURPA, state regulatory agencies are required to implement the rules adopted by FERC that encourage cogeneration and small power production. Public Utility Regulatory Policy Act ("PURPA") § 210; 16 USC § 824a-3. FERC's rules provide that each QF shall have the option to provide energy or capacity pursuant to a contract or other LEO over a specified term at avoided costs that are either calculated at the time of delivery or at the time the obligation is incurred. 18 CFR 292.304(d).

<sup>&</sup>lt;sup>24</sup> Id. at P.36.

See Id. at P.35; see also Grouse Creek Wind Park, LLC, 142 FERC ¶ 61,187 at PP. 37-38 (2013).

finalized and the QF unequivocally committed itself prior to the rule change.<sup>26</sup> In Grouse Creek, a QF and utility negotiated two PPAs prior to a December 14, 2010 change in the eligibility requirements for published avoided costs (the change would make the QF ineligible).<sup>27</sup> The QF provided final site-specific information by December 9, 2010.<sup>28</sup> The QF signed the agreement less than two weeks later on December 20, 2010, and the utility signed on December 28, 2010.<sup>29</sup> The state commission rejected the executed PPA because neither party executed it prior to the eligibility rule change.<sup>30</sup> FERC compared this case to three others<sup>31</sup> and found that in all four instances the QFs:

had engaged in formal negotiations to enter into power purchase agreements with electric utilities during November and December 2010, and all four QF petitioners had unequivocally committed themselves to sell to the utilities prior to the new rules concerning eligibility for published avoided cost rates went into effect, i.e., before December 14, 2010.

FERC reasoned that because the purpose of a LEO was to prevent utilities from refusing to sign contracts or delaying signing until a lower rate was in effect, that the state commission's requirement that the contract be executed to form a LEO was inconsistent with PURPA and FERC's regulations implementing PURPA.<sup>32</sup> Therefore, where a contract has not been executed prior to a rule change, a LEO can still be created where negotiations took place, the material

<sup>&</sup>lt;sup>26</sup> Grouse Creek Wind Park, LLC, 142 FERC ¶ 61,187 at PP.37-38 (2013).

<sup>&</sup>lt;sup>27</sup> Id. at PP.2-4.

<sup>28 &</sup>lt;u>Id.</u> at P.14.

<sup>&</sup>lt;sup>29</sup> Id. at P.6.

<sup>&</sup>lt;sup>30</sup> Id. at P.6.

See Cedar Creek Wind, LLC, 137 FERC ¶ 61,006 (2011) (QF signed PPA prior to rule change but utility signed after), Rainbow Ranch Wind, LLC, 139 FERC ¶ 61,077 (2012) (QF signed PPA prior to rule change but utility signed after), and Murphy Flat Power, LLC, 141 FERC ¶ 61,145 (2012) (neither QF nor utility signed PPA prior to rule change).

Grouse Creek Wind Park, LLC, 142 FERC ¶ 61,187 at PP.36-38.

terms were finalized, and the QF unequivocally committed to sell to the utility prior to the rule change.

In Oregon, the Commission adopted standard contracts to make it easier for a QF to get an executable PPA.<sup>33</sup> Standard contracts result in less negotiation and, therefore, less of a need for the parties to figure out which terms were agreed to in a LEO. This means that a LEO in Oregon should be able to be formed more quickly than in other states because there are fewer terms to negotiate or that may be in dispute. However, even with standard contracts the utilities may still have an incentive to delay the contracting process, especially when there is a pending avoided cost rate reduction. Therefore, in its case-by-case analysis of whether and when a LEO has been formed, the Commission should not simply look at whether or when the QF signed an executable contract but should also consider whether and when the QF unequivocally committed itself to sell to the utility.

## V. ARGUMENT

In this case, Clackamas 1, at a minimum, formed a LEO prior to September 18, 2017 at the then-current standard contract terms and the then-current Schedule 202 rates, or, in the alternative, formed a LEO at PGE's current standard contract terms at current Schedule 202 rates. An executable PPA was never provided to Clackamas 1 because a problem arose that delayed and obstructed progress toward an executable contract: PGE's refusal to provide an executable PPA because of PGE's filing in Docket No. UM 1854 and the Commission's interim order reducing PGE's eligibility cap for standard avoided cost prices to 3 MW.

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Re Investigation Related to Electric Utility Purchases from Qualifying Facilities, Docket No. UM 1129, Order No. 05-584 at 16 ("Standard contracts are designed to eliminate negotiations and to thereby remove transaction costs").

The terms of the PPA in this case were known and clear at the time PGE provided the final draft Standard PPA on August 15, 2017, and Clackamas 1 unequivocally committed itself to those terms on August 16, 2017 and requested an executable agreement. That final draft PPA included a scheduled commercial on-line date and information regarding Clackamas 1's minimum and maximum annual deliveries.<sup>34</sup> The Commission's order limiting eligibility to standard contract prices to 3 MW was issued on August 18, 2017 after Clackamas 1 agreed to the terms of the final draft PPA. The Commission's order did not limit eligibility to standard contract terms and conditions.

That order obstructed progress towards an executable contract because it created an ambiguity regarding whether Clackamas 1, as a 4 MW, project was eligible for the Schedule 201 prices in effect when the parties negotiated the PPA and when Clackamas 1 agreed to the final draft PPA, or whether Clackamas 1, was subject to the Schedule 202 prices because it is over 3 MW. This confusion delayed progress towards an executable PPA because PGE specifically refused not to provide an executable PPA until the price was worked out. Absent the ambiguity created by the Commission's order, Clackamas 1 would have executed a PPA prior to September 18, 2017 or, at the very least, the PPA would have been executed by now.

First, if PGE had never made the UM 1854 filing, then PGE, under its Schedule 201, would have been due to provide an executable PPA on September 9, 2017, which was 15 business days after Clackamas 1 requested it on August 16, 2017. Clackamas 1 would have signed it and formed a LEO prior to September 18, 2017. On September 9, 2017, PGE should

SSD Clackamas 1 has executed a PPA substantially similar to the final draft PGE provided on August 15, 2017, which is attached to its Complaint as Attachment A.

have at least provided an executable PPA with the new Schedule 202 prices. Instead, PGE forced Clackamas 1 to re-start the entire process, even though it had already requested an executable PPA.

Second, if the 3 MW restriction was already in place when the parties began discussions back in March 2017, then Clackamas 1 would also have executed a PPA before September 18, 2017. Clackamas 1 would have already had the Schedule 202 pricing when PGE's executable contract was due on September 9, 2017, and therefore would have executed it at PGEs Schedule 202 rates in effect prior to the September 18, 2017 rate change. Because the Commission's order on the 3 MW solar size threshold came out on August 18, 2017 in the middle of negotiations, it delayed progress towards that executable PPA. Therefore, the Commission should find that this delay resulted in a LEO being formed earlier than the date an executable contract has been provided (as one has never been provided).

Third, even under PGE's Schedule 202, PGE would have been due to provide indicative pricing by now, 6 months after the eligibility cap was lowered to 3 MW. Under Schedule 202, indicative pricing is due 30 business days after the request.<sup>35</sup> Because the Commission's 3 MW size cap order came out during the middle of these negotiations, it frustrated the parties' negotiations. Also, since the terms of PGE's standard contract are standardized, the currently effective standard contract is not significantly different from the one Clackamas 1 agreed to on August 16, 2017. Therefore, at the very least, Clackamas 1 is entitled to an executable contract now at the currently effective standard contract terms and Schedule 202 rates.

Portland General Electric Company, Schedule 202 at 2.

In addition, Clackamas 1 formed a LEO at the terms and rates prior to September 18, 2017, or at least under the currently effective terms and rates because it, like the <u>Grouse Creek</u>, <u>Cedar Creek</u>, <u>Rainbow Ranch</u>, and <u>Murphy Flat</u> cases (collectively the "<u>Grouse Creek</u> cases"), engaged in substantial negotiations prior to a regulatory change, agreed to the material terms and conditions prior to that change, and unequivocally committed itself to sell to the utility prior to that change. This case is similar to the <u>Grouse Creek</u> cases because there was an impending regulatory change and the utility did not execute the PPA prior to that change. Here there are two critically important regulatory changes: 1) PGE's September 18, 2017 avoided cost rate change, and 2) PGE's upcoming May 1, 2018 annual avoided cost rate update.

Clackamas 1 engaged in longer and less contentious negotiations than the QFs in the Grouse Creek cases. Those QFs negotiated their PPAs in November and December 2010 prior to the December 14, 2010 eligibility rule change.<sup>36</sup> By September 18, 2017, Clackamas 1 had been negotiating its PPA for 6 months, and by May 1, 2018, Clackamas 1's negotiations will have lasted more than a year. Clackamas 1 should not be penalized and paid lower avoided cost rates simply because of the passage of time related to the litigation of its complaint and settlement discussions.

Here, there do not appear to be any disputes about eligibility for contract terms and provisions. There is no need for any actual negotiations because PGE simply filled-in the information that Clackamas 1 provided into a Commission-approved boilerplate form. Further, Clackamas 1 indicated its agreement prior to the September 18, 2017 rate change by not

Rainbow Ranch Wind, LLC, 139 FERC ¶ 61,077 at PP 2-5, 24 (2012); Grouse Creek Wind Park, LLC, 142 FERC ¶ 61,187, at PP 37-43 (2013).

SSD CLACKAMAS 1 LLC'S PARTIAL MOTION FOR SUMMARY JUDGMENT

requesting any revisions to the final draft Standard PPA and telling PGE that it agreed to the terms and conditions of the final draft Standard PPA on August 16, 2017. Therefore, Clackamas 1 indicated its agreement prior to both the September 18, 2017 avoided cost rate change and prior to the upcoming May 1, 2018 rate change.

Last, just like the QFs in the <u>Grouse Creek</u> cases, Clackamas 1 similarly indicated its unequivocal commitment to sell to PGE prior to both of the rate changes. That unequivocal commitment was made on August 16, 2017. Therefore, Clackamas 1 formed a LEO before PGE's September 18, 2017 avoided cost rate change or, at a minimum, before PGE's new avoided cost rates will go into effect sometime after PGE makes in annual May 1, 2018 avoided cost update filing.

### VI. CONCLUSION

Clackamas 1 seeks partial summary judgment finding that it, at a minimum, formed a LEO prior to September 18, 2017 at PGE's Schedule 202 avoided cost prices and standard PPA terms in effect prior to that date or, in the alternative, that Clackamas 1 formed a LEO as of the date of this filing, under the terms of PGE's currently effective standard PPA and based on PGE's currently effective Schedule 202 avoided cost prices. The parties' progress toward an executable contract was obstructed by PGE's filing in Docket No. UM 1854 to reduce the solar size limit for standard avoided cost prices to 3 MW. PGE refused to provide an executable contract because of the ambiguity created by that filing and the Commission's grant of interim relief. However, because the essential terms of the contract were sufficiently definite and clear and Clackamas 1 agreed to them on August 16, 2017, Clackamas 1 formed a LEO prior to PGE's avoided cost rate change on September 18, 2017 or, at the very least, formed a LEO as of the date of this filing.

Dated this 26th day of February, 2018.

Respectfully submitted,

Irion A. Sanger

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Of Attorneys for SSD Clackamas 1 LLC

## BEFORE THE PUBLIC UTILITY COMMISSION

#### **OF OREGON**

### **UM 1869**

In the Matter of

SSD CLACKAMAS 1 LLC

Complainant,

٧.

PORTLAND GENERAL ELECTRIC COMPANY,

Defendant.

DECLARATION OF RYAN HULETT IN SUPPORT OF SSD CLACKAMAS 1 LLC'S PARTIAL MOTION FOR SUMMARY JUDGMENT

## I, Ryan Hulett, declare:

- 1. I am the Principal of Upstream Energy Services.
- I make this declaration in support of SSD Clackamas 1 LLC's Partial Motion for Summary Judgment. If called as a witness, I could testify to all matters referred to here.
- 3. Attached to this declaration are true and correct copies of the following:

Attachment	Document
No.	
A	August 15, 2017 email from Ryin Khandoker to Ryan Hulett
	Re: Transmittal of Final Draft Standard PPA – SSD
	Clackamas 1
В	August 15, 2017 letter from Ryin Khandoker to Ryan Hulett
	Re: Transmittal of Final Draft Standard PPA – SSD
	Clackamas 1
С	Clackamas 1 Final Draft Standard PPA
D	August 16, 2017 email from Ryan Hulett to Ryin Khandoker
	Re: Transmittal of Final Draft Standard PPA – SSD
	Clackamas 1

E	September 7, 2017 email from Ryin Khandoker to Ryan Hulett Re: SSD Clackamas 1 - Request for contract under Schedule 201
	[ 201

Ryan Hulett

I hereby declare that the above statement is within my own personal knowledge, and true to the best of my knowledge and belief, and that I understand it is made for use as evidence and is subject to penalty for perjury under the laws of the State of Oregon

Dated this 25 day of February 2018.

# **Attachment A**

From: Ryin Khandoker < Ryin.Khandoker@pgn.com >>

Date: Tuesday, August 15, 2017 at 9:55 PM

**To:** Ryan Hulett < ryan@upstreamcleanenergy.com >>

**Cc:** John Morton < John.Morton@pgn.com >> , Brett Greene < Brett.Greene@pgn.com

>>, Angeline Chong < Angeline.Chong@pgn.com >>

Subject: Transmittal of Final Draft Standard PPA - SSD Clackamas 1

Ryan,

Please see the attached letter and Final Draft PPA for the SSD Clackamas 1 project.

Regards,

Ryin Khandoker | Structuring and Origination

Portland General Electric | 121 SW Salmon Street, 3WTC0306, Portland, Oregon 97204

≈ : 503-464-8448 | ⋈ : ryin.khandoker@pgn.com

# **Attachment B**



Via Electronic Mail

RE: Transmittal of Final Draft Standard PPA

SSD Clackamas 1 project, a proposed 4 megawatt Solar QF

Mr. Hulett,

Thank you for your interest in entering into a Standard Power Purchase Agreement (Standard PPA) with Portland General Electric (PGE). We received your written request for a final draft Standard PPA on 7/26/17. PGE has determined that you have provided sufficient information to allow PGE to prepare a final draft Standard PPA.

Enclosed please find a final draft Standard PPA for your SSD Clackamas 1 project, 4 megawatt solar generating facility that was self-certified as a qualifying facility (QF) pursuant to 18 CFR 292.207. PGE understands that SSD Clackamas 1, a limited liability company formed under the laws of the State of North Carolina is the owner of the SSD Clackamas 1 project and will be the Seller under the Standard PPA. If any of this information or any of the factual details contained in the enclosed final draft Standard PPA are incorrect or change, please inform PGE immediately.

The enclosed final draft Standard PPA is a discussion draft; it is not a binding offer and PGE reserves the right to revise any of its variable terms, including exhibits. No binding Standard PPA will exist between PGE and SSD Clackamas 1 LLC unless and until PGE has provided SSD Clackamas 1 LLC with an executable Standard PPA and both SSD Clackamas 1 LLC and PGE have executed the document.

At this stage in the process you have several options: you can decide not to pursue a contract any further; you can propose in writing substantive changes to your project proposal or to the variable terms of the final draft Standard PPA; or you can send PGE a written request to prepare an executable Standard PPA without proposing any substantive changes to your project or the final draft contract.

If you propose substantive changes to your project or the variable terms of the final draft Standard PPA, PGE will treat your proposal as a new request for a draft Standard PPA. Within 15 business days of receiving your written proposal, PGE with send you either a new draft Standard PPA or PGE will request additional or clarifying information if PGE reasonably determines that it requires more information before it can prepare a new draft Standard PPA in response to your proposal to change contract terms or project details.

If you request an executable Standard PPA without proposing substantive changes to your project proposal or the variable terms of the final draft Standard PPA, then within 15

SSD Clackamas 1 Page 2 of 2

business days of receiving your written request, PGE will send you either an executable Standard PPA or request additional or clarifying information if PGE reasonably determines that additional information is necessary to prepare an executable Standard PPA.

Once you receive an executable Standard PPA, you can execute it without alteration and establish a legally enforceable obligation. Pursuant to PGE's Schedule 201 at Sheet No. 201-3 and OPUC Order No. 16-174 at 3, the power purchase prices you are entitled to receive under your Standard PPA will be based on PGE's Standard Avoided Costs or Renewable Avoided Costs in effect at the time that you execute an executable Standard PPA provided to you by PGE.

Lastly, on June 30, 2017, PGE applied to the Public Utility Commission of Oregon to modify eligibility for standard contracts and standard prices. That application has been assigned to Commission Docket No. UM 1854 and includes a motion for interim relief. The relief requested in UM 1854 could impact your eligibility for standard prices or a Standard PPA. PGE has requested expedited consideration of its motion for interim relief and does not expect to provide you with an executable Standard PPA before the Commission has ruled on PGE's motion for interim relief in UM 1854.

This letter summarizes certain aspects of the Standard PPA process; it does not address every detail of the process.

Sincerely,

#### Ryin Khandoker I Structuring and Origination

Portland General Electric I 121 SW Salmon Street, 3WTC0306, Portland, Oregon 97204 ☎: 503-464-8448 I ⊠: <a href="mailto:ryin.khandoker@pgn.com">ryin.khandoker@pgn.com</a>

Enclosure: Final Draft Standard PPA for SSD Clackamas 1 LLC's SSD Clackamas 1 Project

# **Attachment C**

## STANDARD RENEWABLE IN-SYSTEM VARIABLE POWER PURCHASE

#### AGREEMENT

THIS AGREEMENT is between <u>SSD Clackamas 1 LLC</u> ("Seller") and Portland General Electric Company ("PGE") (hereinafter each a "Party" or collectively, "Parties") and is effective upon execution by both Parties ("Effective Date").

## **RECITALS**

Seller intends to construct, own, operate and maintain a <u>Solar PV</u> facility for the generation of electric power located in <u>Clackamas (45.420, -122.333)</u> County, <u>Oregon</u>, with a Nameplate Capacity Rating of <u>4,000</u> kilowatt ("kW"), as further described in Exhibit A ("Facility"); and

Seller intends to operate the Facility as a "Qualifying Facility," as such term is defined in Section 3.1.3, below.

Seller shall sell and PGE shall purchase the entire Net Output, as such term is defined in Section 1.21, below, from the Facility in accordance with the terms and conditions of this Agreement.

#### <u>AGREEMENT</u>

NOW, THEREFORE, the Parties mutually agree as follows:

# **SECTION 1: DEFINITIONS**

When used in this Agreement, the following terms shall have the following meanings:

- 1.1. "As-built Supplement" means the supplement to Exhibit A provided by Seller in accordance with Section 4.3 following completion of construction of the Facility, describing the Facility as actually built.
- 1.2. "Base Hours" is defined as the total number of hours in each Contract Year (8,760 or 8,784 for leap year).
- 1.3. "Billing Period" means a period between PGE's readings of its power purchase billing meter at the Facility in the normal course of PGE's business. Such periods may vary and may not coincide with calendar months; however, PGE shall use best efforts to read the power purchase billing meter in 12 equally spaced periods per year.
- 1.4. "Cash Escrow" means an agreement by two parties to place money into the custody of a third party for delivery to a grantee only after the fulfillment of the conditions specified.
- 1.5. "Commercial Operation Date" means the date that the Facility is deemed by PGE to be fully operational and reliable. PGE may, at its discretion, require, among other things, that all of the following events have occurred:

- 1.5.1. (facilities with nameplate under 500 kW exempt from following requirement) PGE has received a certificate addressed to PGE from a Licensed Professional Engineer ("LPE") acceptable to PGE in its reasonable judgment stating that the Facility is able to generate electric power reliably in accordance with the terms and conditions of this Agreement (certifications required under this Section 1.5 can be provided by one or more LPEs);
- 1.5.2. Start-Up Testing of the Facility has been completed in accordance with Section 1.36;
- 1.5.3. (facilities with nameplate under 500 kW exempt from following requirement) After PGE has received notice of completion of Start-Up Testing, PGE has received a certificate addressed to PGE from an LPE stating that the Facility has operated for testing purposes under this Agreement and was continuously mechanically available for operation for a minimum of 120 hours. The Facility must provide ten (10) working days written notice to PGE prior to the start of the initial testing period. If the mechanical availability of the Facility is interrupted during this initial testing period or any subsequent testing period, the Facility shall promptly start a new Test Period and provide PGE forty-eight (48) hours written notice prior to the start of such testing period;
- 1.5.4. (facilities with nameplate under 500 kW exempt from following requirement) PGE has received a certificate addressed to PGE from an LPE stating that in accordance with the Generation Interconnection Agreement, all required interconnection facilities have been constructed all required interconnection tests have been completed; and the Facility is physically interconnected with PGE's electric system.
- 1.5.5. (facilities with nameplate under 500kW exempt from following requirement) PGE has received a certificate addressed to PGE from an LPE stating that Seller has obtained all Required Facility Documents and, if requested by PGE in writing, has provided copies of any or all such requested Required Facility Documents;
- 1.6. "Contract Price" means the applicable price, including on-peak and offpeak prices, as specified in the Schedule.
- 1.7. "Contract Year" means each twelve (12) month period commencing upon the Commercial Operation Date or its anniversary during the Term, except the final contract year will be the period from the last anniversary of the Commercial Operation Date during the Term until the end of the Term.
  - 1.8. "Effective Date" has the meaning set forth in Section 2.1.
- 1.9. "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 gasses (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.

- 1.10. "Facility" has the meaning set forth in the Recitals.
- 1.11. "Generation Interconnection Agreement" means the generation interconnection agreement to be entered into separately between Seller and PGE, providing for the construction, operation, and maintenance of interconnection facilities required to accommodate deliveries of Seller's Net Output.
- 1.12. "Generation Unit" means each separate electrical generator that contributes towards Nameplate Capacity Rating included in Exhibit A. For solar facilities, a generating unit is a complete solar electrical generation system within the Facility that is able to generate and deliver energy to the Point of Delivery independent of other Generation Units within the same Facility.
- 1.13. "Letter of Credit" means an engagement by a bank or other person made at the request of a customer that the issuer will honor drafts or other demands for payment upon compliance with the conditions specified in the letter of credit.
- 1.14. "Licensed Professional Engineer" or "LPE" means a person who is licensed to practice engineering in the state where the Facility is located, who has no economic relationship, association, or nexus with the Seller, and who is not a representative of a consulting engineer, contractor, designer or other individual involved in the development of the Facility, or of a manufacturer or supplier of any equipment installed in the Facility. Such Licensed Professional Engineer shall be licensed in an appropriate engineering discipline for the required certification being made and be acceptable to PGE in its reasonable judgment.
- 1.15. "Lost Energy" means ((the Guarantee of Mechanical Availability as set forth in 3.1.10 / MAP) X Net Output for a Calendar Year) Net Output for the Calendar Year. Lost Energy shall be zero unless the result of the calculation in this subsection results in a positive number.
- 1.16. "Lost Energy Value" means Lost Energy X the excess of the annual time-weighted average Mid-C Index Price for On-Peak and Off-Peak Hours over the time-weighted average Contract Price for On-Peak and Off-Peak Hours for the corresponding time period (provided that such excess shall not exceed the Contract Price and further provided that Lost Energy is deemed to be zero prior to reaching the Commercial Operation Date) plus any reasonable costs incurred by PGE to purchase replacement power and/or transmission to deliver the replacement power to the Point of Delivery. (For Start-Up Lost Energy Value see Section 1.35).
- 1.17. "Mechanical Availability Percentage" or "MAP" shall mean that percentage for any Contract Year for the Facility calculated in accordance with the following formula:
  - MAP = 100 X (Operational Hours) /(Base Hours X Number of Units)
- 1.18. "Mid-C Index Price" means the Day Ahead Intercontinental Exchange ("ICE") index price for the bilateral OTC market for energy at the Mid-C Physical for Average 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.

- 1.19. "Nameplate Capacity Rating" means the maximum capacity of the Facility as stated by the manufacturer, expressed in kW, which shall not exceed 10,000 kW.
- 1.20. "Net Dependable Capacity" means the maximum capacity the Facility can sustain over a specified period modified for seasonal limitations, if any, and reduced by the capacity required for station service or auxiliaries.
- 1.21. "Net Output" means all energy expressed in kWhs produced by the Facility, less station and other onsite use and less transformation and transmission losses. Net Output does not include any environmental attributes.
- 1.22. "Number of Units" means the number of Generating Units in the Facility described in Exhibit A.
  - 1.23. "Off-Peak Hours" has the meaning provided in the Schedule.
  - 1.24. "On-Peak Hours" has the meaning provided in the Schedule.
- 1.25. "Operational Hours" for the Facility means the total across all Generating Units of the number of hours each of the Facility's Generating Units are potentially capable of producing power at its Nameplate Capacity Rating regardless of actual weather, season and time of day or night, without any mechanical operating constraint or restriction, and potentially capable of delivering such power to the Point of Delivery in a Contract Year. During up to, but not more than, 200 hours of Planned Maintenance during a Contract Year for each Generation Unit and hours during which an event of Force Majeure exists, a Generation Unit shall be considered potentially capable of delivering such power to the Point of Delivery. For example, in the absence of any Planned Maintenance beyond 200 hours on any Generation Unit of Event of Force Majeure, the Operational Hours for a wind farm with five separate two MW turbines would be 43,800 for a Contract Year.
- 1.26. "Planned Maintenance" means outages scheduled 90 days in advance, with PGE's prior written consent, which shall not be unreasonably withheld.
- 1.27. "Point of Delivery" means the high side of the generation step up transformer(s) located at the point of interconnection between the Facility and PGE's distribution or transmission system, as specified in the Generation Interconnection Agreement.
- 1.28. "Pre-Commercial Operation Date Minimum Net Output" shall mean, unless such MWh is specifically set forth by Seller in Exhibit A, an amount in MWh equal to seventy-five percent (75%) of the Nameplate Capacity Rating X thirty percent (30%) for a wind or other renewable QF or fifty percent (50%) for a solar QF X (whole months since the date selected in Section 2.2.1 / 12) X (8760 hours 200 hours (assumed Planned Maintenance)) for each month. If Seller has provided specific expected monthly Net Output amounts for the Facility in Exhibit A, "Pre-Commercial Operation Date Minimum Net Output" shall mean seventy-five (75%) X expected Net Output set forth in Exhibit A for each month.

- 1.29. "Prime Rate" means the publicly announced prime rate or reference rate for commercial loans to large businesses with the highest credit rating in the United States in effect from time to time quoted by Citibank, N.A. If a Citibank, N.A. prime rate is not available, the applicable Prime Rate shall be the announced prime rate or reference rate for commercial loans in effect from time to time quoted by a bank with \$10 billion or more in assets in New York City, N.Y., selected by the Party to whom interest based on the prime rate is being paid.
- 1.30. "Prudent Electrical Practices" means those practices, methods, standards and acts engaged in or approved by a significant portion of the electric power industry in the Western Electricity Coordinating Council that at the relevant time period, in the exercise of reasonable judgment in light of the facts known or that should reasonably have been known at the time a decision was made, would have been expected to accomplish the desired result in a manner consistent with good business practices, reliability, economy, safety and expedition, and which practices, methods, standards and acts reflect due regard for operation and maintenance standards recommended by applicable equipment suppliers and manufacturers, operational limits, and all applicable laws and regulations. Prudent Electrical Practices are not intended to be limited to the optimum practice, method, standard or act to the exclusion of all others, but rather to those practices, methods and acts generally acceptable or approved by a significant portion of the electric power generation industry in the relevant region, during the relevant period, as described in the immediate preceding sentence.
- 1.31. "Required Facility Documents" means all licenses, permits, authorizations, and agreements necessary for construction, operation, interconnection, and maintenance of the Facility including without limitation those set forth in Exhibit B.
- 1.32. "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.
- 1.33. Schedule" shall mean PGE Schedule 201 filed with the Oregon Public Utilities Commission ("Commission") in effect on the Effective Date of this Agreement and attached hereto as Exhibit D, the terms of which are hereby incorporated by reference.
- 1.34. Senior Lien" means a prior lien which has precedence as to the property under the lien over another lien or encumbrance.
- 1.35. "Start-Up Lost Energy Value" means for the period after the date specified in Section 2.2.2 but prior to achievement of the Commercial Operation Date: zero, unless the Net Output is less than the pro-rated Pre-Commercial Operation Date Minimum Net Output for the applicable delay period, and the time-weighted average of the delay period's Mid-C Index Price for On-Peak Hours and Off-Peak Hours is greater than the time-weighted average of the delay period's Contract Price for On-Peak Hours and Off-Peak Hours, in which case Startup Lost Energy Value equals: (pro-rated Pre-

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Commercial Operation Date Minimum Net Output for the applicable period - Net Output for the applicable period) X (the lower of: the time-weighted average of the Contract Price for On-Peak hours and Off-Peak Hours during the applicable period; or (the time-weighted average of the Mid-C Index Price for On-Peak Hours and Off-Peak Hours during the applicable period – the time-weighted average of the Contract Price for On-Peak Hours and Off-Peak Hours during the applicable period)). The time-weighted average in this section will reflect the relative proportions of On-Peak Hours and Off-Peak Hours in each day.

- 1.36. "Start-Up Testing" means the completion of applicable required factory and start-up tests as set forth in Exhibit C.
- 1.37. "Step-in Rights" means the right of one party to assume an intervening position to satisfy all terms of an agreement in the event the other party fails to perform its obligations under the agreement.
- 1.38. "Term" shall mean the period beginning on the Effective Date and ending on the Termination Date.
- 1.39. "Test Period" shall mean a period of sixty (60) days or a commercially reasonable period determined by the Seller.

References to Recitals, Sections, and Exhibits are to be the recitals, sections and exhibits of this Agreement.

# SECTION 2: TERM; COMMERCIAL OPERATION DATE

- 2.1. This Agreement shall become effective upon execution by both Parties ("Effective Date").
- 2.2. Time is of the essence of this Agreement, and Seller's ability to meet certain requirements prior to the Commercial Operation Date and to complete all requirements to establish the Commercial Operation Date is critically important. Therefore,
  - 2.2.1 By March 1, 2020 Seller shall begin initial deliveries of Net Output; and
- 2.2.2 By April 1, 2020 Seller shall have completed all requirements under Section 1.5 and shall have established the Commercial Operation Date.
- 2.2.3 Unless the Parties agree in writing that a later Commercial Operation Date is reasonable and necessary, the Commercial Operation Date shall be no more than three (3) years from the Effective Date. PGE will not unreasonably withhold agreement to a Commercial Operation Date that is more than three (3) years from the Effective date if the Seller has demonstrated that a later Commercial Operation Date is reasonable and necessary.
- 2.3. This Agreement shall terminate on March 31, 2035, or the date the Agreement is terminated in accordance with Section 9 or 11, whichever is earlier ("Termination Date").

### <u>SECTION 3: REPRESENTATIONS AND WARRANTIES</u>

3.1. Seller and PGE represent, covenant, and warrant as follows:

- 3.1.1. Seller warrants it is a <u>LLC</u> duly organized under the laws of <u>North</u> <u>Carolina</u>.
- 3.1.2. Seller warrants that the execution and delivery of this Agreement does not contravene any provision of, or constitute a default under, any indenture, mortgage, or other material agreement binding on Seller or any valid order of any court, or any regulatory agency or other body having authority to which Seller is subject.
- 3.1.3. Seller warrants that the Facility is and shall for the Term of this Agreement continue to be a "Qualifying Facility" ("QF") as that term is defined in the version of 18 C.F.R. Part 292 in effect on the Effective Date. Seller has provided the appropriate QF certification, which may include a Federal Energy Regulatory Commission ("FERC") self-certification to PGE prior to PGE's execution of this Agreement. At any time during the Term of this Agreement, PGE may require Seller to provide PGE with evidence satisfactory to PGE in its reasonable discretion that the Facility continues to qualify as a QF under all applicable requirements.
- 3.1.4. Seller warrants that it has not within the past two (2) years been the debtor in any bankruptcy proceeding, and Seller is and will continue to be for the Term of this Agreement current on all of its financial obligations.
- 3.1.5. Seller warrants that during the Term of this Agreement, all of Seller's right, title and interest in and to the Facility shall be free and clear of all liens and encumbrances other than liens and encumbrances arising from third-party financing of the Facility other than workers', mechanics', suppliers' or similar liens, or tax liens, in each case arising in the ordinary course of business that are either not yet due and payable or that have been released by means of a performance bond acceptable to PGE posted within eight (8) calendar days of the commencement of any proceeding to foreclose the lien.
- 3.1.6. Seller warrants that it will design and operate the Facility consistent with Prudent Electrical Practices.
- 3.1.7. Seller warrants that the Facility has a Nameplate Capacity Rating not greater than 10,000 kW.
  - 3.1.8. Seller warrants that Net Dependable Capacity of the Facility is 4,000 kW.
- 3.1.9. Seller estimates that the average annual Net Output to be delivered by the Facility to PGE is 8,197,000 kilowatt-hours ("kWh"), which amount PGE will include in its resource planning.
- 3.1.10. Seller represents and warrants that the Facility shall achieve the following Mechanical Availability Percentages ("Guarantee of Mechanical Availability"):
- 3.1.10.1 Ninety percent (90%) beginning in the first Contract Year and extending through the Term for the Facility, if the Facility was operational and sold electricity to PGE or another buyer prior to the Effective Date of this Agreement; or
- 3.1.10.2 Ninety percent (90%) beginning in Contract Year three and extending throughout the remainder of the Term.

- 3.1.10.3 Annually, within 90 days of the end of each Contract Year Seller shall send to PGE a detailed written report demonstrating and providing evidence of the actual MAP for the previous Contract Year.
- 3.1.10.4 Seller's failure to meet the Guarantee of Mechanical Availability in a Calendar Year shall result in damages payable to PGE by Seller equal to the Lost Energy Value. PGE shall bill Seller for such damages in accordance with Section 8.
- 3.1.11. Seller will deliver from the Facility to PGE at the Point of Delivery Net Output not to exceed a maximum of 10,000,000 kWh of Net Output during each Contract Year ("Maximum Net Output").
- 3.1.12. By the Commercial Operation Date, Seller has entered into a Generation Interconnection Agreement for a term not less than the term of this Agreement.
- 3.1.13. PGE warrants that it has not within the past two (2) years been the debtor in any bankruptcy proceeding, and PGE is and will continue to be for the Term of this Agreement current on all of its financial obligations.
- 3.1.14. Seller warrants that (i) the Facility satisfies the eligibility requirements specified in the Definition of a Small Cogeneration Facility or Small Power Production Facility Eligible to Receive the Standard Renewable Rates and Standard Renewable PPA in PGE's Schedule and (ii) Seller will not make any changes in its ownership, control or management during the term of this Agreement that would cause it to not be in compliance with the Definition of a Small Cogeneration Facility or Small Power Production Facility Eligible to Receive the Standard Renewable Rates and Standard Renewable PPA in PGE's Schedule. Seller will provide, upon request by PGE not more frequently than every 36 months, such documentation and information as may be reasonably required to establish Seller's continued compliance with such Definition. PGE agrees to take reasonable steps to maintain the confidentiality of any portion of the above described documentation and information that the Seller identifies as confidential except PGE will provide all such confidential information to the Public Utility Commission of Oregon upon the Commission's request.
- 3.1.15. Seller warrants that it will comply with all requirements necessary for all Transferred RECs (as defined in Section 4.5) associated with Net Output to be issued, monitored, accounted for, and transferred by and through the Western Renewable Energy Generation System consistent with the provisions of OAR 330-160-0005 through OAR 330-160-0050. PGE warrants that it will reasonably cooperate in Seller's efforts to meet such requirements, including, for example serving as the qualified reporting entity for the Facility if the Facility is located in PGE's balancing authority.

# SECTION 4: DELIVERY OF POWER, PRICE AND ENVIRONMENTAL ATTRIBUTES

- 4.1. Commencing on the Effective Date and continuing through the Term of this Agreement, Seller shall sell to PGE the entire Net Output delivered from the Facility at the Point of Delivery.
  - 4.2. PGE shall pay Seller the Contract Price for all delivered Net Output.
- 4.3. Upon completion of construction of the Facility, Seller shall provide PGE an As-built Supplement to specify the actual Facility as built. Seller shall not increase

the Nameplate Capacity Rating above that specified in Exhibit A or increase the ability of the Facility to deliver Net Output in quantities in excess of the Net Dependable Capacity, or the Maximum Net Output as described in Section 3.1.11 above, through any means including, but not limited to, replacement, modification, or addition of existing equipment, except with prior written notice to PGE. In the event Seller increases the Nameplate Capacity Rating of the Facility to no more than 10,000 kW pursuant to this section, PGE shall pay the Contract Price for the additional delivered Net Output. In the event Seller increases the Nameplate Capacity Rating to greater than 10,000 kW, then Seller shall be required to enter into a new power purchase agreement for all delivered Net Output proportionally related to the increase of Nameplate Capacity above 10,000 kW.

- 4.4. To the extent not otherwise provided in the Generation Interconnection Agreement, all costs associated with the modifications to PGE's interconnection facilities or electric system occasioned by or related to the interconnection of the Facility with PGE's system, or any increase in generating capability of the Facility, or any increase of delivery of Net Dependable Capacity from the Facility, shall be borne by Seller.
- From the start of the Renewable Resource Deficiency Period through the 4.5. remainder of the Term of this Agreement, Seller shall provide and PGE shall acquire the RPS Attributes for the Contract Years as specified in the Schedule and Seller shall retain ownership of all other Environmental Attributes (if any). During the Renewable Resource Sufficiency Period, Seller shall retain all Environmental Attributes in accordance with the Schedule. The Contract Price includes full payment for the Net Output and any RPS Attributes transferred to PGE under this Agreement. With respect to Environmental Attributes not transferred to PGE under this Agreement ("Seller-Retained Environmental Attributes") Seller may report under §1605(b) of the Energy Policy Act of 1992 or under any applicable program as belonging to Seller any of the Seller-Retained Environmental Attributes, and PGE shall not report under such program that such Seller-Retained Environmental Attributes belong to it. With respect to RPS Attributes transferred to PGE under this Agreement ("Transferred RECs"), PGE may report under §1605(b) of the Energy Policy Act of 1992 or under any applicable program as belonging to it any of the Transferred RECs, and Seller shall not report under such program that such Transferred RECs belong to it.

## SECTION 5: OPERATION AND CONTROL

5.1. Seller shall operate and maintain the Facility in a safe manner in accordance with the Generation Interconnection Agreement, and Prudent Electrical Practices. PGE shall have no obligation to purchase Net Output from the Facility to the extent the interconnection of the Facility to PGE's electric system is disconnected, suspended or interrupted, in whole or in part, pursuant to the Generation Interconnection Agreement, or to the extent generation curtailment is required as a result of Seller's noncompliance with the Generation Interconnection Agreement. Seller is solely responsible for the operation and maintenance of the Facility. PGE shall not, by reason of its decision to inspect or not to inspect the Facility, or by any action or inaction taken with respect to any such inspection, assume or be held responsible for

any liability or occurrence arising from the operation and maintenance by Seller of the Facility.

- 5.2. Seller agrees to provide sixty (60) days advance written notice of any scheduled maintenance that would require shut down of the Facility for any period of time.
- 5.3. If the Facility ceases operation for unscheduled maintenance, Seller immediately shall notify PGE of the necessity of such unscheduled maintenance, the time when such maintenance has occurred or will occur, and the anticipated duration of such maintenance. Seller shall take all reasonable measures and exercise its best efforts to avoid unscheduled maintenance, to limit the duration of such unscheduled maintenance, and to perform unscheduled maintenance during Off-Peak hours.

## **SECTION 6: CREDITWORTHINESS**

In the event Seller: a) is unable to represent or warrant as required by Section 3 that it has not been a debtor in any bankruptcy proceeding within the past two (2) years; b) becomes such a debtor during the Term; or c) is not or will not be current on all its financial obligations, Seller shall immediately notify PGE and shall promptly (and in no less than 10 days after notifying PGE) provide default security in an amount reasonably acceptable to PGE in one of the following forms: Senior Lien, Step-in Rights, a Cash Escrow or Letter of Credit. The amount of such default security that shall be acceptable to PGE shall be equal to: (annual On Peak Hours) X (On Peak Price – Off Peak Price) X (Net Dependable Capacity). Notwithstanding the foregoing, in the event Seller is not current on construction related financial obligations, Seller shall notify PGE of such delinquency and PGE may, in its discretion, grant an exception to the requirements to provide default security if the QF has negotiated financial arrangements with the construction loan lender that mitigate Seller's financial risk to PGE.

# **SECTION 7: METERING**

- 7.1. PGE shall design, furnish, install, own, inspect, test, maintain and replace all metering equipment at Seller's cost and as required pursuant to the Generation Interconnection Agreement.
- 7.2. Metering shall be performed at the location and in a manner consistent with this Agreement and as specified in the Generation Interconnection Agreement. All Net Output purchased hereunder shall be adjusted to account for electrical losses, if any, between the point of metering and the Point of Delivery, so that the purchased amount reflects the net amount of power flowing into PGE's system at the Point of Delivery.
- 7.3. PGE shall periodically inspect, test, repair and replace the metering equipment as provided in the Generation Interconnection Agreement. If any of the inspections or tests discloses an error exceeding two (2%) percent of the actual energy delivery, either fast or slow, proper correction, based upon the inaccuracy found, shall be made of previous readings for the actual period during which the metering equipment rendered inaccurate measurements if that period can be ascertained. If the actual period cannot be ascertained, the proper correction shall be made to the measurements taken during the time the metering equipment was in service since last tested, but not

exceeding three (3) months, in the amount the metering equipment shall have been shown to be in error by such test. Any correction in billings or payments resulting from a correction in the meter records shall be made in the next monthly billing or payment rendered. Such correction, when made, shall constitute full adjustment of any claim between Seller and PGE arising out of such inaccuracy of metering equipment.

7.4. To the extent not otherwise provided in the Generation Interconnection Agreement, all of PGE's costs relating to all metering equipment installed to accommodate Seller's Facility shall be borne by Seller.

## SECTION 8: BILLINGS, COMPUTATIONS AND PAYMENTS

- 8.1. On or before the thirtieth (30th) day following the end of each Billing Period, PGE shall send to Seller payment for Seller's deliveries of Net Output to PGE, together with computations supporting such payment. PGE may offset any such payment to reflect amounts owing from Seller to PGE pursuant to this Agreement, the Generation Interconnection Agreement, and any other agreement related to the Facility between the Parties or otherwise. On or before the thirtieth (30<sup>th</sup>) day following the end of each Contract Year, PGE shall bill for any Lost Energy Value accrued pursuant to this Agreement.
- 8.2. Any amounts owing after the due date thereof shall bear interest at the Prime Rate plus two percent (2%) from the date due until paid; provided, however, that the interest rate shall at no time exceed the maximum rate allowed by applicable law.

# SECTION 9: DEFAULT, REMEDIES AND TERMINATION

- 9.1. In addition to any other event that may constitute a default under this Agreement, the following events shall constitute defaults under this Agreement:
- 9.1.1. Breach by Seller or PGE of a representation or warranty, except for Section 3.1.4, set forth in this Agreement.
- 9.1.2. Seller's failure to provide default security, if required by Section 6, prior to delivery of any Net Output to PGE or within 10 days of notice.
- 9.1.3. Seller's failure to meet the Guarantee of Mechanical Availability established in Section 3.1.10 for two consecutive Contract Years or Seller's failure to provide any written report required by that section.
  - 9.1.4. If Seller is no longer a Qualifying Facility.
  - 9.1.5. Failure of PGE to make any required payment pursuant to Section 8.1.
  - 9.1.6. Seller's failure to meet the Commercial Operation Date.
- 9.2. In the event of a default under Section 9.1.6, PGE may provide Seller with written notice of default. Seller shall have one year in which to cure the default during which time the Seller shall pay PGE damages equal to the Lost Energy Value. If Seller is unable to cure the default, PGE may immediately terminate this Agreement as provided in Section 9.3. PGE's resource sufficiency/deficiency position shall have no bearing on PGE's right to terminate the Agreement under this Section 9.2.

- 9.3. In the event of a default under this Agreement, except as otherwise provided in this Agreement, the non-defaulting party may immediately terminate this Agreement at its sole discretion by delivering written notice to the other Party. In addition, the non-defaulting party may pursue any and all legal or equitable remedies provided by law or pursuant to this Agreement including damages related to the need to procure replacement power. A termination hereunder shall be effective upon the date of delivery of notice, as provided in Section 20. The rights provided in this Section 9 are cumulative such that the exercise of one or more rights shall not constitute a waiver of any other rights.
- 9.4. If this Agreement is terminated as provided in this Section 9 PGE shall make all payments, within thirty (30) days, that, pursuant to the terms of this Agreement, are owed to Seller as of the time of receipt of notice of default. PGE shall not be required to pay Seller for any Net Output delivered by Seller after such notice of default.
- 9.5. In the event PGE terminates this Agreement pursuant to this Section 9, and Seller wishes to again sell Net Output to PGE following such termination, PGE in its sole discretion may require that Seller shall do so subject to the terms of this Agreement, including but not limited to the Contract Price until the Term of this Agreement (as set forth in Section 2.3) would have run in due course had the Agreement remained in effect. At such time Seller and PGE agree to execute a written document ratifying the terms of this Agreement.
- 9.6. Sections 9.1, 9.4, 9.5, 10, and 19.2 shall survive termination of this Agreement.

## SECTION 10: INDEMNIFICATION AND LIABILITY

- 10.1. Seller agrees to defend, indemnify and hold harmless PGE, its directors, officers, agents, and representatives against and from any and all loss, claims, actions or suits, including costs and attorney's fees, both at trial and on appeal, resulting from, or arising out of or in any way connected with Seller's delivery of electric power to PGE or with the facilities at or prior to the Point of Delivery, or otherwise arising out of this Agreement, including without limitation any loss, claim, action or suit, for or on account of injury, bodily or otherwise, to, or death of, persons, or for damage to, or destruction or economic loss of property belonging to PGE, Seller or others, excepting to the extent such loss, claim, action or suit may be caused by the negligence of PGE, its directors, officers, employees, agents or representatives.
- 10.2. PGE agrees to defend, indemnify and hold harmless Seller, its directors, officers, agents, and representatives against and from any and all loss, claims, actions or suits, including costs and attorney's fees, both at trial and on appeal, resulting from, or arising out of or in any way connected with PGE's receipt of electric power from Seller or with the facilities at or after the Point of Delivery, or otherwise arising out of this Agreement, including without limitation any loss, claim, action or suit, for or on account of injury, bodily or otherwise, to, or death of, persons, or for damage to, or destruction or economic loss of property belonging to PGE, Seller or others, excepting to the extent such loss, claim, action or suit may be caused by the negligence of Seller, its directors, officers, employees, agents or representatives.

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- 10.3. Nothing in this Agreement shall be construed to create any duty to, any standard of care with reference to, or any liability to any person not a Party to this Agreement. No undertaking by one Party to the other under any provision of this Agreement shall constitute the dedication of that Party's system or any portion thereof to the other Party or to the public, nor affect the status of PGE as an independent public utility corporation or Seller as an independent individual or entity.
- 10.4. NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR SPECIAL, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER ARISING FROM CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.

## SECTION 11: INSURANCE

- 11.1. Prior to the connection of the Facility to PGE's electric system, provided such Facility has a design capacity of 200 kW or more, Seller shall secure and continuously carry for the Term hereof, with an insurance company or companies rated not lower than "B+" by the A. M. Best Company, insurance policies for bodily injury and property damage liability. Such insurance shall include provisions or endorsements naming PGE, it directors, officers and employees as additional insureds; provisions that such insurance is primary insurance with respect to the interest of PGE and that any insurance or self-insurance maintained by PGE is excess and not contributory insurance with the insurance required hereunder; a cross-liability or severability of insurance interest clause; and provisions that such policies shall not be canceled or their limits of liability reduced without thirty (30) days' prior written notice to PGE. Initial limits of liability for all requirements under this section shall be \$1,000,000 million single limit, which limits may be required to be increased or decreased by PGE as PGE determines in its reasonable judgment economic conditions or claims experience may warrant.
- 11.2. Prior to the connection of the Facility to PGE's electric system, provided such facility has a design capacity of 200 kW or more, Seller shall secure and continuously carry for the Term hereof, in an insurance company or companies rated not lower than "B+" by the A. M. Best Company, insurance acceptable to PGE against property damage or destruction in an amount not less than the cost of replacement of the Facility. Seller promptly shall notify PGE of any loss or damage to the Facility. Unless the Parties agree otherwise, Seller shall repair or replace the damaged or destroyed Facility, or if the facility is destroyed or substantially destroyed, it may terminate this Agreement. Such termination shall be effective upon receipt by PGE of written notice from Seller. Seller shall waive its insurers' rights of subrogation against PGE regarding Facility property losses.
- 11.3. Prior to the connection of the Facility to PGE's electric system and at all other times such insurance policies are renewed or changed, Seller shall provide PGE with a copy of each insurance policy required under this Section, certified as a true copy by an authorized representative of the issuing insurance company or, at the discretion of PGE, in lieu thereof, a certificate in a form satisfactory to PGE certifying the issuance of such insurance. If Seller fails to provide PGE with copies of such currently effective insurance policies or certificates of insurance, PGE at its sole discretion and without

limitation of other remedies, may upon ten (10) days advance written notice by certified or registered mail to Seller either withhold payments due Seller until PGE has received such documents, or purchase the satisfactory insurance and offset the cost of obtaining such insurance from subsequent power purchase payments under this Agreement.

## **SECTION 12: FORCE MAJEURE**

- 12.1. As used in this Agreement, "Force Majeure" or "an event of Force Majeure" means any cause beyond the reasonable control of the Seller or of PGE which, despite the exercise of due diligence, such Party is unable to prevent or overcome. By way of example, Force Majeure may include but is not limited to acts of God, fire, flood, storms, wars, hostilities, civil strife, strikes, and other labor disturbances, earthquakes, fires, lightning, epidemics, sabotage, restraint by court order or other delay or failure in the performance as a result of any action or inaction on behalf of a public authority which by the exercise of reasonable foresight such Party could not reasonably have been expected to avoid and by the exercise of due diligence, it shall be unable to overcome, subject, in each case, to the requirements of the first sentence of this paragraph. Force Majeure, however, specifically excludes the cost or availability of resources to operate the Facility, changes in market conditions that affect the price of energy or transmission, wind or water droughts, and obligations for the payment of money when due.
- 12.2. If either Party is rendered wholly or in part unable to perform its obligation under this Agreement because of an event of Force Majeure, that Party shall be excused from whatever performance is affected by the event of Force Majeure to the extent and for the duration of the Force Majeure, after which such Party shall recommence performance of such obligation, provided that:
- 12.2.1. the non-performing Party shall, promptly, but in any case within one (1) week after the occurrence of the Force Majeure, give the other Party written notice describing the particulars of the occurrence; and
- 12.2.2. the suspension of performance shall be of no greater scope and of no longer duration than is required by the Force Majeure; and
- 12.2.3. the non-performing Party uses its best efforts to remedy its inability to perform its obligations under this Agreement.
- 12.3. No obligations of either Party which arose before the Force Majeure causing the suspension of performance shall be excused as a result of the Force Majeure.
- 12.4. Neither Party shall be required to settle any strike, walkout, lockout or other labor dispute on terms which, in the sole judgment of the Party involved in the dispute, are contrary to the Party's best interests.

## **SECTION 13: SEVERAL OBLIGATIONS**

Nothing contained in this Agreement shall ever be construed to create an association, trust, partnership or joint venture or to impose a trust or partnership duty, obligation or liability between the Parties. If Seller includes two or more parties, each

such party shall be jointly and severally liable for Seller's obligations under this Agreement.

## SECTION 14: CHOICE OF LAW

This Agreement shall be interpreted and enforced in accordance with the laws of the state of Oregon, excluding any choice of law rules which may direct the application of the laws of another jurisdiction.

## SECTION 15: PARTIAL INVALIDITY AND PURPA REPEAL

It is not the intention of the Parties to violate any laws governing the subject matter of this Agreement. If any of the terms of the Agreement are finally held or determined to be invalid, illegal or void as being contrary to any applicable law or public policy, all other terms of the Agreement shall remain in effect. If any terms are finally held or determined to be invalid, illegal or void, the Parties shall enter into negotiations concerning the terms affected by such decision for the purpose of achieving conformity with requirements of any applicable law and the intent of the Parties to this Agreement.

In the event the Public Utility Regulatory Policies Act (PURPA) is repealed, this Agreement shall not terminate prior to the Termination Date, unless such termination is mandated by state or federal law.

## SECTION 16: WAIVER

Any waiver at any time by either Party of its rights with respect to a default under this Agreement or with respect to any other matters arising in connection with this Agreement must be in writing, and such waiver shall not be deemed a waiver with respect to any subsequent default or other matter.

## SECTION 17: GOVERNMENTAL JURISDICTION AND AUTHORIZATIONS

This Agreement is subject to the jurisdiction of those governmental agencies having control over either Party or this Agreement. Seller shall at all times maintain in effect all local, state and federal licenses, permits and other approvals as then may be required by law for the construction, operation and maintenance of the Facility, and shall provide upon request copies of the same to PGE.

## **SECTION 18: SUCCESSORS AND ASSIGNS**

This Agreement and all of the terms hereof shall be binding upon and inure to the benefit of the respective successors and assigns of the Parties. No assignment hereof by either Party shall become effective without the written consent of the other Party being first obtained and such consent shall not be unreasonably withheld. Notwithstanding the foregoing, either Party may assign this Agreement without the other Party's consent as part of (a) a sale of all or substantially all of the assigning Party's assets, or (b) a merger, consolidation or other reorganization of the assigning Party.

## **SECTION 19: ENTIRE AGREEMENT**

19.1. This Agreement supersedes all prior agreements, proposals, representations, negotiations, discussions or letters, whether oral or in writing, regarding

PGE's purchase of Net Output from the Facility. No modification of this Agreement shall be effective unless it is in writing and signed by both Parties.

19.2. By executing this Agreement, Seller releases PGE from any third party claims related to the Facility, known or unknown, which may have arisen prior to the Effective Date.

## **SECTION 20: NOTICES**

20.1. All notices except as otherwise provided in this Agreement shall be in writing, shall be directed as follows and shall be considered delivered if delivered in person or when deposited in the U.S. Mail, postage prepaid by certified or registered mail and return receipt requested:

To Seller: Strata Solar Development LLC

Attn: Legal Counsel

50101 Govenors Drive, Suite 280

Chapel Hill, NC 27517

with a copy to: Tonkon Torp LLC

Attn: David Peterson 888 SW 5th Avenue Portland, OR 97204

To PGE: Contracts Manager

QF Contracts, 3WTC0306 PGE - 121 SW Salmon St. Portland, Oregon 97204

20.2 The Parties may change the person to whom such notices are addressed, or their addresses, by providing written notices thereof in accordance with this Section 20.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed in their respective names as of the Effective Date.

PGE	
By:	
By: Name:	
Title:	
Date:	

(Name Seller) By: Name:	LLC	_		
Title: Date:		_ _ _		
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# EXHIBIT A DESCRIPTION OF SELLER'S FACILITY

Contract Information	
a. Seller Legal Name	SSD Clackamas 1 LLC
b. Type of facility (solar, or wind for example)	Solar PV
c. County and GPS Coordinate to 3 decimals	Clackamas 45.420, -122.333
d. State	Oregon
e. Name Plate Rating in kW	4000
f. Section 1.11 Electric system to interconnect to and the Poir	
g. Section 2.2.1 date to be begin delivery	3/1/2020
h. Section 2.2.3 date of Commercial Operation Date	4/1/2020
i. Section 2.3 Termination Date	
j. Corporation type	3/31/2035
k. State of organization	LLC
I. Net Dependable Capacity in kW	North Carolina
m. Estimated average annual Net Output	4000
	8197000
n. Maximum of kWh	21,000,000
o. Notice address line 1	Strata Solar Development LLC
p. Notice address line 2	Attn: Legal Counsel
q. Notice address line 3	50101 Govenors Drive, Suite 280
r. Notice address line 4	Chapel Hill, NC 27517
s. Copy to address line 1	Tonkon Torp LLC
t. Copy to address line 2	Attn: David Peterson
u. Copy to address line 3	888 SW 5th Avenue
v. Copy to address line 4	Portland, OR 97204
w. On a separate sheet include a detailed facility description, i	See Attachement 1 and 2
Status of Seller's incorporation	Complete
3. Seller's financial statements:	
a. Income statement	See Attachment 3
b. Balance sheet	See Attachment 3
4. D & B report on seller, of the project sponsor if the seller is not in	See Attachment 4
5. List of all entities with an ownership interest in the facility	SSD Clackamas 1 LLC
6. List all natural persons or persons or any legal entity or entities w	See Organization Chart Tab
a. Share common ownership with Seller	Markus Wilhelm, Cathy Wilhelm, Strata Solar Development, LLC
b. Share common management with Seller	Markus Wilhelm, Cathy Wilhelm, Strata Solar Development, LLC
c. Act jointly or in concert with Seller	Markus Wilhelm, Cathy Wilhelm, Strata Solar Development, LLC
d. Execise influence over the policies or actions of Seller	Markus Wilhelm, Cathy Wilhelm, Strata Solar Development, LLC
7. The legal name of the manager of the Facility, if applicable	Strata Manager LLC
8. Proof of site control (lease, title to land, property tax bill, or other	See Attachment 5
9. FERC Form 556 and dockett number as proof of submittal and ac	See Attachment 6.1 and 6.2, FERC Docket #QF17-960-000
10. Map adjoining QF sites owned by the same seller at this time , c	Seller Has No Adjoining QF Sites
11. Staffing plan for getting the project online	Interal Labor and Consultants
12. Status of interconnection and transmission agreements	Tendered to PGE. Queue Position Assigned
13. Does Seller have FERC Market Based Rate Authority? If yes provi	de docket #.
Generation information	
Motive force plan	Solar PV
Expected energy delivery start date	4/1/2020
3. Expected Availability of generation	99%
4. PVSyst (or equivalent) simulation results detail, including but not	See 8760 Tab
a. Annual MWh (AC) for the first calendar year of commerci	8197, 0.5%
b. Average 24-hr profile of generation MWh (AC) for each m	See Average 12x24 Tab (Highlighted in Light Blue)
c. Maximum 24-hr profile of generation MWh (AC) for each	See Maximum 12x24 Tab (Highlighted in Light Blue)
d. Maximum annual output (monthly MWh detail)	See Maximum Annual Output Tab (Highlighted in Light Blue)
e. Loss Diagram	See 8760 Tab (Highlighted in Blue)
Location of facility	
1. GPS Coordinates (rounded to three decimal - please provide in de	45.420, -122.333
2. Facility physical address	None
3. Legal description of parcel (proof of site control to be attached)	See Attachment 7
Aerial Facility site boundary map	See Attachment 8

Note: On 7/7/17 Seller updated Maximum Net Output to 10,000,000 kWh

See 8760 8197, 0 See Average 12x24 Tab (Highlighted in Light B See Maximum 12x24 Tab (Highlighted in Light B See Maximum Annual Output Tab (Highlighted in Light B See 8760 Tab (Highlighted in B Hanwha Q Cell 37 16 33 16 50 5ingle-Axis Trac 50, 180 (50
8197, 0 See Average 12x24 Tab (Highlighted in Light B See Maximum 12x24 Tab (Highlighted in Light B See Maximum Annual Output Tab (Highlighted in Light B See 8760 Tab (Highlighted in B Hanwha Q Cell 37 16 33 16 50 Single-Axis Trac
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SPQ0049/SPC

Average of 0	Column Labels												
Row Labels <u></u>	1	2	3	4	5	6	7	8	9	10	11	12	<b>Grand Total</b>
1	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
2	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
3	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
4	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
5	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	0.00	0.00	0.00	0.01	0.26	0.58	0.41	0.02	0.00	0.00	0.00	0.00	0.11
7	0.00	0.00	0.03	0.53	1.24	1.65	1.84	1.05	0.36	0.01	0.00	0.00	0.56
8	0.00	0.08	0.89	1.57	1.94	2.35	2.89	2.53	1.86	0.59	0.06	0.00	1.24
9	0.25	0.73	1.61	2.11	2.29	2.58	3.18	3.11	2.67	1.54	0.62	0.23	1.75
10	0.88	1.22	1.89	2.23	2.61	2.93	3.33	3.08	2.83	1.73	0.90	0.86	2.05
11	1.25	1.46	2.13	2.45	3.01	2.92	3.48	3.25	3.16	1.99	1.08	0.85	2.26
12	1.24	1.66	2.31	2.75	3.20	3.22	3.47	3.14	3.13	2.08	1.26	0.97	2.37
13	1.17	1.69	2.26	2.76	2.97	3.41	3.44	3.15	3.18	2.19	1.27	0.99	2.37
14	1.27	1.58	2.28	2.82	2.93	3.32	3.50	3.14	3.17	2.13	1.17	0.97	2.36
15	1.18	1.66	2.01	2.77	2.98	3.07	3.43	3.21	3.21	2.09	0.90	0.87	2.28
16	0.78	1.44	1.91	2.44	2.91	2.92	3.30	3.29	3.04	1.64	0.56	0.65	2.08
17	0.13	0.83	2.03	2.29	2.59	2.89	3.34	3.19	2.29	0.65	0.04	0.00	1.69
18	0.00	0.07	0.46	1.19	1.82	2.41	2.91	2.12	0.74	0.02	0.00	0.00	0.98
19	0.00	0.00	0.00	0.13	0.70	1.21	1.39	0.47	0.02	0.00	0.00	0.00	0.33
20	0.00	0.00	0.00	0.00	0.01	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.02
21	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
22	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
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	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
<b>Grand Total</b>	0.34	0.52	0.83	1.09	1.31	1.48	1.67	1.45	1.24	0.69	0.33	0.27	0.94

## EXHIBIT B REQUIRED FACILITY DOCUMENTS

Sellers Generation Interconnection Agreement

All required transmission Agreements

All required environmental permits

All required agreement to record Renewable Energy

Certificates

Required site control documents

FERC Self-Certification and acceptance

Any Conditional Use Permits

Any Access Permit

**Construction Permits** 

Water quality permits

## EXHIBIT C START-UP TESTING

Required start-up test are those checks and tests necessary to determine that all features and equipment, systems, and subsystems have been properly designed, manufactured, installed and adjusted, function properly, and are capable of operating simultaneously in such condition that the Facility is capable of continuous delivery into BPA/EIM/PGE's electrical system for delivery to PGE, which may include but are not limited to (as applicable) the following:

- 1. Safety plan during startup and commissioning (including the expected number of individuals covered)
- 2. Review of all QA/QC testing
- 3. Confirm testing and energizing inverters in conformance with manufacturer's recommended procedures; note operating voltages; and confirm inverter is performing as expected
- 4. Energizing transformers
- 5. Under full sun conditions, and after at least 15 minutes of operation, taking and recording PV Plant operating data—such as but not limited to MWDC, MWAC, VDC, VAC, IDC, IAC, Solar Radiation, etc.
- 6. Testing the system control and monitoring system to verify that it is performing correctly
- 7. Testing the communication system for offsite monitoring and all requirements of the Western Energy Imbalance Market
- 8. Testing the Plant metering and protective relaying to verify they meet utility requirements
- 9. Documentation of successful startup and commissioning procedure
- 10. Written notification submitted by Contractor to Owner that the completion of Acceptance Testing and Commissioning has occurred
- 11. Testing to meet the requirements of Section 1.5.3.

- 5. Under full sun conditions, and after at least 15 minutes of operation, taking and recording PV Plant operating data—such as but not limited to MWDC, MWAC, VDC, VAC, IDC, IAC, Solar Radiation, etc.
- 6. Testing the system control and monitoring system to verify that it is performing correctly
- 7. Testing the communication system for offsite monitoring and all requirements of the Western Energy Imbalance Market
- 8. Testing the Plant metering and protective relaying to verify they meet utility requirements
- 9. Documentation of successful startup and commissioning procedure
- 10. Written notification submitted by Contractor to Owner that the completion of Acceptance Testing and Commissioning has occurred
- 11. Testing to meet the requirements of Section 1.5.3.

## **Exhibit D**



# 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 <a href="https://www.portlandgeneral.com">www.portlandgeneral.com</a>. 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						
					Avo	ided Cos	ts					
			St	andard F	ixed Pric	e Option	for Base	Load QF	•			
				0	n-Peak F	orecast (	(\$/MWH)					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	42.81	30.21	19.11	12.56	16.71	18.71	29.71	33.71	30.21	27.21	29.21	35.71
2018	31.71	31.11	28.10	19.97	19.21	19.21	28.16	31.40	28.82	25.64	28.54	31.96
2019	32.37	31.76	28.69	20.40	19.63	19.63	28.75	32.05	29.42	26.18	29.14	32.62
2020	34.85	34.19	30.88	21.93	21.10	21.10	30.95	34.51	31.67	28.17	31.37	35.13
2021	62.41	62.19	61.99	60.93	60.73	60.74	60.79	60.84	60.93	61.16	61.76	62.44
2022	64.10	64.19	64.27	63.87	63.84	63.93	64.00	64.10	64.20	64.30	65.26	65.35
2023	67.48	67.59	67.69	67.06	67.11	67.22	67.31	67.40	67.52	67.62	68.68	68.79
2024	69.99	70.11	70.22	69.82	69.50	69.62	69.72	69.83	69.95	70.62	70.85	70.98
2025	72.67	72.80	72.93	72.99	72.19	72.23	72.34	72.47	72.59	72.71	73.55	73.69
2026	75.30	75.45	75.57	74.87	74.74	74.85	74.96	75.09	75.22	75.35	76.40	76.54
2027	78.22	78.36	78.50	77.76	77.61	77.68	77.81	77.94	78.10	78.23	79.36	79.50
2028	81.14	81.30	81.45	80.70	80.63	80.69	80.83	80.97	81.15	81.28	82.65	82.83
2029	84.83	85.00	85.16	84.37	84.30	84.37	84.48	84.64	84.22	84.37	85.47	85.64
2030	87.51	87.70	87.57	86.46	86.68	85.53	85.69	85.84	86.03	86.19	87.36	87.55
2031	89.53	89.73	89.77	88.64	88.86	88.39	88.54	88.71	88.91	89.07	90.39	90.59
2032	92.27	92.47	92.59	91.42	91.60	91.64	91.81	91.99	92.20	92.38	93.65	93.87
2033	96.34	96.55	96.65	95.42	95.65	94.02	94.19	94.39	94.59	94.77	96.09	96.31
2034	98.49	98.72	97.24	96.01	96.24	95.79	95.98	96.17	96.38	96.57	98.03	98.25
2035	100.40	100.63	100.56	99.28	99.52	98.82	99.00	99.19	99.43	99.62	101.11	101.34
2036	102.77	103.00	102.93	101.62	101.89	101.16	101.36	101.55	101.79	101.99	103.52	103.73
2037	105.59	105.82	105.75	104.40	104.68	103.94	104.13	104.34	104.57	104.78	106.33	106.56
2038	108.31	108.55	108.46	107.11	107.39	106.62	106.83	107.04	107.27	107.49	109.07	109.30
2039	110.86	111.12	111.03	109.65	109.93	109.15	109.36	109.56	109.83	110.04	111.63	111.89
2040	113.79	114.03	113.96	112.54	112.81	112.04	112.24	112.45	112.71	112.93	114.58	114.82
2041	116.46	116.72	116.63	115.20	115.47	114.67	114.89	115.10	115.37	115.58	117.26	117.52

					TA	ABLE 1b						
					Avoi	ided Cost	ts					
			Sta	andard F	ixed Price	e Option	for Base	Load QF				
				0	ff-Peak F	orecast (	\$/MWH)					
	_			_		_		_	_			
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	30.96	25.46	12.96	4.46	7.71	9.21	17.71	24.96	25.21	23.71	24.96	29.71
2018	24.82	26.66	24.24	15.66	11.92	10.25	17.66	24.16	24.06	22.13	24.58	26.67
2019	25.39	27.27	24.80	16.04	12.22	10.52	18.08	24.72	24.62	22.65	25.15	27.28
2020	27.90	29.97	27.24	17.56	13.34	11.45	19.82	27.15	27.04	24.86	27.63	29.99
2021	23.86	23.65	23.45	22.38	22.19	22.20	22.25	22.30	22.38	22.62	23.21	23.90
2022	24.81	24.90	24.99	24.59	24.55	24.64	24.71	24.81	24.91	25.01	25.97	26.07
2023	27.30	27.42	27.52	26.88	26.94	27.04	27.14	27.23	27.35	27.44	28.51	28.62
2024	29.30	29.42	29.53	29.13	28.81	28.94	29.03	29.14	29.26	29.94	30.17	30.29
2025	31.06	31.20	31.32	31.39	30.58	30.63	30.74	30.86	30.98	31.11	31.95	32.08
2026	32.90	33.04	33.16	32.46	32.33	32.44	32.55	32.68	32.82	32.94	33.99	34.13
2027	34.99	35.13	35.27	34.54	34.38	34.45	34.58	34.71	34.87	35.00	36.13	36.27
2028	37.08	37.23	37.39	36.64	36.57	36.63	36.77	36.91	37.09	37.22	38.59	38.77
2029	39.92	40.09	40.25	39.46	39.39	39.46	39.57	39.72	39.31	39.46	40.56	40.73
2030	41.73	41.92	41.80	40.68	40.90	39.75	39.91	40.06	40.25	40.41	41.59	41.77
2031	42.86	43.07	43.10	41.98	42.20	41.73	41.88	42.04	42.25	42.41	43.72	43.93
2032	45.01	45.20	45.33	44.16	44.34	44.38	44.55	44.73	44.93	45.11	46.39	46.61
2033	47.85	48.06	48.17	46.94	47.17	45.54	45.71	45.91	46.11	46.29	47.61	47.83
2034	48.91	49.14	47.67	46.43	46.66	46.22	46.41	46.59	46.81	47.00	48.46	48.67
2035	50.03	50.26	50.19	48.91	49.15	48.45	48.63	48.82	49.06	49.25	50.74	50.97
2036	51.59	51.83	51.76	50.44	50.71	49.98	50.18	50.38	50.61	50.81	52.34	52.55
2037	53.26	53.48	53.41	52.06	52.35	51.61	51.79	52.01	52.23	52.45	54.00	54.22
2038	54.97	55.20	55.12	53.77	54.04	53.27	53.49	53.69	53.93	54.14	55.73	55.96
2039	56.49	56.74	56.65	55.28	55.56	54.78	54.98	55.19	55.46	55.66	57.26	57.51
2040	58.37	58.61	58.54	57.12	57.39	56.62	56.82	57.03	57.28	57.51	59.15	59.40
2041	59.97	60.23	60.14	58.70	58.98	58.18	58.40	58.61	58.87	59.09	60.77	61.03

					7	ΓABLE 2a	1					
					Ave	oided Co	sts					
				Standar	d Fixed I	Price Opt	ion for W	/ind QF				
					On-Peak	Forecast	(\$/MWH)	)				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	38.90	26.30	15.20	8.65	12.80	14.80	25.80	29.80	26.30	23.30	25.30	31.80
2018	27.72	27.12	24.11	15.98	15.22	15.22	24.17	27.41	24.83	21.65	24.55	27.97
2019	28.30	27.69	24.62	16.33	15.56	15.56	24.68	27.98	25.35	22.11	25.07	28.55
2020	30.70	30.04	26.73	17.78	16.95	16.95	26.80	30.36	27.52	24.02	27.22	30.98
2021	25.66	25.45	25.25	24.18	23.99	24.00	24.05	24.10	24.18	24.42	25.01	25.69
2022	26.64	26.74	26.82	26.42	26.39	26.47	26.55	26.64	26.75	26.84	27.81	27.90
2023	29.20	29.31	29.41	28.78	28.83	28.94	29.03	29.12	29.24	29.34	30.40	30.51
2024	31.19	31.31	31.42	31.03	30.71	30.83	30.93	31.04	31.16	31.83	32.06	32.18
2025	33.01	33.15	33.27	33.34	32.53	32.57	32.69	32.81	32.93	33.06	33.90	34.03
2026	34.88	35.03	35.14	34.44	34.32	34.42	34.54	34.66	34.80	34.92	35.98	36.11
2027	37.01	37.15	37.29	36.56	36.41	36.48	36.60	36.73	36.90	37.02	38.16	38.30
2028	39.14	39.30	39.45	38.70	38.63	38.69	38.83	38.97	39.15	39.28	40.65	40.83
2029	42.02	42.19	42.35	41.56	41.49	41.56	41.67	41.83	41.42	41.56	42.67	42.84
2030	43.87	44.06	43.94	42.82	43.04	41.89	42.05	42.20	42.39	42.55	43.73	43.91
2031	45.04	45.24	45.28	44.16	44.37	43.91	44.06	44.22	44.42	44.59	45.90	46.10
2032	47.19	47.39	47.52	46.34	46.52	46.56	46.73	46.91	47.12	47.30	48.57	48.79
2033	50.13	50.34	50.44	49.21	49.44	47.82	47.99	48.18	48.38	48.56	49.88	50.10
2034	51.25	51.47	50.00	48.77	49.00	48.55	48.74	48.93	49.14	49.33	50.79	51.01
2035	52.38	52.62	52.55	51.26	51.51	50.81	50.99	51.18	51.41	51.61	53.10	53.33
2036	53.96	54.20	54.13	52.82	53.08	52.36	52.55	52.75	52.99	53.18	54.72	54.92
2037	55.70	55.93	55.86	54.51	54.79	54.05	54.24	54.45	54.68	54.89	56.44	56.67
2038	57.46	57.70	57.61	56.26	56.54	55.77	55.98	56.19	56.42	56.64	58.22	58.45
2039	59.04	59.29	59.20	57.82	58.10	57.32	57.53	57.73	58.00	58.21	59.81	60.06
2040	60.96	61.20	61.12	59.71	59.98	59.21	59.40	59.62	59.87	60.10	61.74	61.98
2041	62.61	62.87	62.78	61.35	61.63	60.83	61.04	61.26	61.52	61.73	63.41	63.67

					7	TABLE 2b	)					
						oided Co						
				Standar	d Fixed I	Price Opt	ion for W	/ind QF				
				(	Off-Peak	<b>Forecast</b>	(\$/MWH)	)				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	27.05	21.55	9.05	0.55	3.80	5.30	13.80	21.05	21.30	19.80	21.05	25.80
2018	20.83	22.67	20.25	11.67	7.93	6.26	13.67	20.17	20.07	18.14	20.59	22.68
2019	21.32	23.20	20.73	11.97	8.15	6.45	14.01	20.65	20.55	18.58	21.08	23.21
2020	23.75	25.82	23.09	13.41	9.19	7.30	15.67	23.00	22.89	20.71	23.48	25.84
2021	19.63	19.42	19.22	18.15	17.96	17.97	18.02	18.07	18.15	18.39	18.98	19.67
2022	20.50	20.59	20.68	20.28	20.24	20.33	20.40	20.50	20.60	20.70	21.66	21.76
2023	22.91	23.03	23.13	22.49	22.55	22.65	22.75	22.84	22.96	23.05	24.12	24.23
2024	24.83	24.95	25.06	24.66	24.34	24.47	24.56	24.67	24.79	25.47	25.70	25.82
2025	26.50	26.64	26.76	26.83	26.02	26.07	26.18	26.30	26.42	26.55	27.39	27.52
2026	28.25	28.39	28.51	27.81	27.68	27.79	27.90	28.03	28.17	28.29	29.34	29.48
2027	30.25	30.39	30.53	29.80	29.64	29.71	29.84	29.97	30.13	30.26	31.39	31.53
2028	32.25	32.40	32.56	31.81	31.74	31.80	31.94	32.08	32.26	32.39	33.76	33.94
2029	35.00	35.17	35.33	34.54	34.47	34.54	34.65	34.80	34.39	34.54	35.64	35.81
2030	36.71	36.90	36.78	35.66	35.88	34.73	34.89	35.04	35.23	35.39	36.57	36.75
2031	37.74	37.95	37.98	36.86	37.08	36.61	36.76	36.92	37.13	37.29	38.60	38.81
2032	39.80	39.99	40.12	38.95	39.13	39.17	39.34	39.52	39.72	39.90	41.18	41.40
2033	42.54	42.75	42.86	41.63	41.86	40.23	40.40	40.60	40.80	40.98	42.30	42.52
2034	43.49	43.72	42.25	41.01	41.24	40.80	40.99	41.17	41.39	41.58	43.04	43.25
2035	44.51	44.74	44.67	43.39	43.63	42.93	43.11	43.30	43.54	43.73	45.22	45.45
2036	45.96	46.20	46.13	44.81	45.08	44.35	44.55	44.75	44.98	45.18	46.71	46.92
2037	47.52	47.74	47.67	46.32	46.61	45.87	46.05	46.27	46.49	46.71	48.26	48.48
2038	49.12	49.35	49.27	47.92	48.19	47.42	47.64	47.84	48.08	48.29	49.88	50.11
2039	50.53	50.78	50.69	49.32	49.60	48.82	49.02	49.23	49.50	49.70	51.30	51.55
2040	52.29	52.53	52.46	51.04	51.31	50.54	50.74	50.95	51.20	51.43	53.07	53.32
2041	53.78	54.04	53.95	52.51	52.79	51.99	52.21	52.42	52.68	52.90	54.58	54.84

					1	TABLE 3a	1					
					Ave	oided Co	sts					
				Standar	d Fixed I	Price Opt	ion for S	olar QF				
				•	On-Peak	Forecast	(\$/MWH)					
	_			_				_				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	42.81	30.21	19.11	12.56	16.71	18.71	29.71	33.71	30.21	27.21	29.21	35.71
2018	31.71	31.11	28.10	19.97	19.21	19.21	28.16	31.40	28.82	25.64	28.54	31.96
2019	32.37	31.76	28.69	20.40	19.63	19.63	28.75	32.05	29.42	26.18	29.14	32.62
2020	34.85	34.19	30.88	21.93	21.10	21.10	30.95	34.51	31.67	28.17	31.37	35.13
2021	28.96	28.74	28.54	27.48	27.28	27.29	27.34	27.39	27.48	27.71	28.31	28.99
2022	30.00	30.09	30.18	29.78	29.75	29.83	29.90	30.00	30.11	30.20	31.16	31.26
2023	32.61	32.73	32.83	32.19	32.25	32.35	32.45	32.54	32.65	32.75	33.82	33.93
2024	34.67	34.80	34.91	34.51	34.19	34.31	34.41	34.52	34.64	35.31	35.54	35.66
2025	36.56	36.70	36.82	36.89	36.08	36.12	36.24	36.36	36.48	36.61	37.45	37.58
2026	38.50	38.65	38.76	38.06	37.94	38.04	38.16	38.28	38.42	38.54	39.60	39.73
2027	40.70	40.84	40.98	40.25	40.10	40.17	40.29	40.42	40.59	40.71	41.85	41.99
2028	42.90	43.06	43.21	42.46	42.39	42.45	42.59	42.74	42.91	43.04	44.41	44.59
2029	45.85	46.02	46.18	45.39	45.32	45.39	45.50	45.66	45.25	45.39	46.50	46.67
2030	47.78	47.97	47.84	46.73	46.95	45.80	45.96	46.11	46.30	46.46	47.63	47.82
2031	49.03	49.23	49.27	48.15	48.36	47.89	48.05	48.21	48.41	48.58	49.89	50.09
2032	51.26	51.45	51.58	50.41	50.59	50.63	50.79	50.97	51.18	51.36	52.63	52.85
2033	54.26	54.47	54.58	53.34	53.58	51.95	52.12	52.32	52.51	52.70	54.01	54.23
2034	55.46	55.69	54.22	52.98	53.21	52.77	52.96	53.15	53.36	53.55	55.01	55.22
2035	56.68	56.91	56.85	55.56	55.81	55.11	55.29	55.48	55.71	55.90	57.39	57.63
2036	58.35	58.59	58.52	57.21	57.47	56.75	56.94	57.14	57.38	57.57	59.10	59.31
2037	60.17	60.40	60.33	58.98	59.26	58.52	58.71	58.92	59.15	59.36	60.91	61.14
2038	62.02	62.25	62.16	60.82	61.09	60.32	60.54	60.74	60.98	61.19	62.77	63.01
2039	63.68	63.93	63.84	62.46	62.74	61.96	62.17	62.37	62.64	62.85	64.45	64.70
2040	65.69	65.94	65.86	64.44	64.71	63.94	64.14	64.35	64.61	64.83	66.48	66.72
2041	67.43	67.69	67.60	66.17	66.45	65.65	65.86	66.08	66.34	66.55	68.23	68.49

	TABLE 3b												
					Ave	oided Co	sts						
				Standar	d Fixed I	Price Opt	ion for S	olar QF					
					Off-Peak	Forecast	(\$/MWH)	1					
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2017	30.96	25.46	12.96	4.46	7.71	9.21	17.71	24.96	25.21	23.71	24.96	29.71	
2018	24.82	26.66	24.24	15.66	11.92	10.25	17.66	24.16	24.06	22.13	24.58	26.67	
2019	25.39	27.27	24.80	16.04	12.22	10.52	18.08	24.72	24.62	22.65	25.15	27.28	
2020	27.90	29.97	27.24	17.56	13.34	11.45	19.82	27.15	27.04	24.86	27.63	29.99	
2021	23.86	23.65	23.45	22.38	22.19	22.20	22.25	22.30	22.38	22.62	23.21	23.90	
2022	24.81	24.90	24.99	24.59	24.55	24.64	24.71	24.81	24.91	25.01	25.97	26.07	
2023	27.30	27.42	27.52	26.88	26.94	27.04	27.14	27.23	27.35	27.44	28.51	28.62	
2024	29.30	29.42	29.53	29.13	28.81	28.94	29.03	29.14	29.26	29.94	30.17	30.29	
2025	31.06	31.20	31.32	31.39	30.58	30.63	30.74	30.86	30.98	31.11	31.95	32.08	
2026	32.90	33.04	33.16	32.46	32.33	32.44	32.55	32.68	32.82	32.94	33.99	34.13	
2027	34.99	35.13	35.27	34.54	34.38	34.45	34.58	34.71	34.87	35.00	36.13	36.27	
2028	37.08	37.23	37.39	36.64	36.57	36.63	36.77	36.91	37.09	37.22	38.59	38.77	
2029	39.92	40.09	40.25	39.46	39.39	39.46	39.57	39.72	39.31	39.46	40.56	40.73	
2030	41.73	41.92	41.80	40.68	40.90	39.75	39.91	40.06	40.25	40.41	41.59	41.77	
2031	42.86	43.07	43.10	41.98	42.20	41.73	41.88	42.04	42.25	42.41	43.72	43.93	
2032	45.01	45.20	45.33	44.16	44.34	44.38	44.55	44.73	44.93	45.11	46.39	46.61	
2033	47.85	48.06	48.17	46.94	47.17	45.54	45.71	45.91	46.11	46.29	47.61	47.83	
2034	48.91	49.14	47.67	46.43	46.66	46.22	46.41	46.59	46.81	47.00	48.46	48.67	
2035	50.03	50.26	50.19	48.91	49.15	48.45	48.63	48.82	49.06	49.25	50.74	50.97	
2036	51.59	51.83	51.76	50.44	50.71	49.98	50.18	50.38	50.61	50.81	52.34	52.55	
2037	53.26	53.48	53.41	52.06	52.35	51.61	51.79	52.01	52.23	52.45	54.00	54.22	
2038	54.97	55.20	55.12	53.77	54.04	53.27	53.49	53.69	53.93	54.14	55.73	55.96	
2039	56.49	56.74	56.65	55.28	55.56	54.78	54.98	55.19	55.46	55.66	57.26	57.51	
2040	58.37	58.61	58.54	57.12	57.39	56.62	56.82	57.03	57.28	57.51	59.15	59.40	
2041	59.97	60.23	60.14	58.70	58.98	58.18	58.40	58.61	58.87	59.09	60.77	61.03	

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 from the start of the Renewable Resource Deficiency Period through the remainder of the PPA term.

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 for all years up to five in excess of the initial 15.

## PRICING OPTIONS FOR STANDARD PPA (Continued)

Renewable Fixed Price Option (Continued)

	TABLE 4a													
					Renewab									
			Re	newable	Fixed Pr	ice Optio	n for Bas	e Load C	<b>P</b>					
				(	On-Peak	Forecast	(\$/MWH)							
	Voor In Ech May Any May Iun Iul Aug Con Oct Nov Dec													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
2017	31.96	31.36	28.35	20.22	19.46	19.46	28.41	31.65	29.07	25.89	28.79	32.21		
2018	32.63	32.02	28.95	20.66	19.89	19.89	29.01	32.31	29.68	26.44	29.40	32.88		
2019	35.13	34.47	31.16	22.21	21.38	21.38	31.23	34.79	31.95	28.45	31.65	35.41		
2020	105.59	105.58	104.91	105.31	108.12	107.33	107.05	106.95	105.82	104.97	105.70	104.81		
2021	107.97	108.18	106.86	107.80	110.30	109.63	109.13	109.57	108.25	107.36	108.50	107.34		
2022	110.29	110.18	108.51	110.03	112.64	111.74	111.34	111.31	110.35	109.47	110.72	109.45		
2023	112.83	112.45	110.71	112.53	114.68	114.03	113.73	113.41	112.67	111.65	113.16	112.19		
2024	114.30	114.43	112.71	114.48	116.87	115.98	115.88	115.65	115.49	113.39	114.27	114.38		
2025	116.91	117.20	115.28	117.34	120.36	119.33	118.49	118.61	117.89	115.92	116.94	116.63		
2026	119.80	119.51	118.23	120.15	124.05	121.00	121.00	121.36	121.11	118.42	120.03	119.20		
2027	122.14	121.76	120.31	122.17	127.41	123.38	123.05	124.32	123.30	120.82	121.96	121.54		
2028	124.42	123.50	121.73	124.67	129.54	125.27	125.89	125.90	125.14	123.37	124.32	123.63		
2029	127.02	126.81	124.48	127.44	136.23	128.72	128.78	128.78	128.83	125.88	126.59	126.49		
2030	129.65	129.39	127.38	129.92	139.73	132.73	130.84	130.74	131.95	128.33	128.82	128.86		
2031	132.04	131.60	130.17	133.11	142.39	136.41	133.28	134.11	134.29	130.94	131.91	131.53		
2032	134.05	133.61	132.16	135.15	144.58	138.50	135.32	136.16	136.35	132.94	133.93	133.54		
2033	137.18	136.73	135.24	138.30	147.94	141.72	138.47	139.33	139.53	136.04	137.05	136.65		
2034	139.98	139.52	138.00	141.12	150.95	144.61	141.30	142.17	142.37	138.82	139.85	139.44		
2035	142.53	142.06	140.51	143.69	153.71	147.25	143.87	144.76	144.97	141.35	142.39	141.98		
2036	144.86	144.38	142.81	146.04	156.22	149.66	146.23	147.13	147.34	143.66	144.72	144.30		
2037	148.08	147.59	145.99	149.29	159.70	152.99	149.48	150.41	150.62	146.85	147.94	147.51		
2038	150.94	150.44	148.81	152.17	162.78	155.94	152.36	153.31	153.52	149.69	150.80	150.36		
2039	153.85	153.34	151.68	155.11	165.92	158.95	155.30	156.27	156.48	152.58	153.71	153.26		
2040	156.54	156.02	154.33	157.81	168.81	161.72	158.01	158.99	159.21	155.24	156.39	155.94		
2041	159.85	159.32	157.59	161.15	172.39	165.14	161.36	162.36	162.58	158.52	159.70	159.24		

						ABLE 4b						-
	Renewable Avoided Costs											
	Renewable Fixed Price Option for Base Load QF											
	Off-Peak Forecast (\$/MWH)											
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	25.07	26.91	24.49	15.91	12.17	10.50	17.91	24.41	24.31	22.38	24.83	26.92
2018	25.65	27.53	25.06	16.30	12.48	10.78	18.34	24.98	24.88	22.91	25.41	27.54
2019	28.18	30.25	27.52	17.84	13.62	11.73	20.10	27.43	27.32	25.14	27.91	30.27
2020	55.06	55.29	56.65	55.55	52.58	52.78	53.04	54.06	54.85	55.93	55.76	56.14
2021	56.97	56.29	57.78	56.57	54.03	54.07	54.64	54.94	55.96	57.75	55.61	57.11
2022	57.78	57.49	59.46	57.46	54.79	55.12	56.44	55.58	57.03	58.82	56.52	58.16
2023	58.53	58.57	60.63	59.03	55.13	56.16	57.38	56.90	58.03	60.02	57.37	59.34
2024	59.00	59.06	61.83	58.87	55.44	57.84	56.81	57.13	58.45	60.26	59.15	59.71
2025	60.20	60.19	63.12	59.74	55.43	58.15	58.02	58.89	58.99	61.58	61.14	60.59
2026	60.49	61.29	63.41	60.15	56.02	58.98	58.83	59.45	58.83	62.40	61.28	61.32
2027	62.57	62.55	64.16	61.72	55.88	60.06	60.36	59.81	60.16	64.24	62.01	62.45
2028	63.42	63.96	66.16	63.26	55.35	61.40	61.55	60.38	61.59	64.74	62.71	64.41
2029	63.86	64.58	67.38	64.49	51.11	61.67	62.62	61.41	62.76	65.44	64.59	65.53
2030	64.85	65.65	68.76	64.61	50.89	62.20	63.19	63.34	63.17	66.67	66.12	66.88
2031	66.26	67.30	69.67	64.93	51.92	62.00	64.53	64.67	63.31	67.77	67.62	66.96
2032	67.35	68.41	70.82	66.00	52.77	63.03	65.60	65.74	64.36	68.89	68.74	68.06
2033	68.84	69.92	72.38	67.46	53.94	64.42	67.05	67.19	65.78	70.41	70.26	69.57
2034	70.17	71.27	73.78	68.76	54.98	65.66	68.34	68.49	67.05	71.77	71.61	70.91
2035	71.52	72.65	75.20	70.09	56.04	66.93	69.66	69.81	68.34	73.16	73.00	72.28
2036	72.70	73.85	76.45	71.25	56.97	68.03	70.81	70.97	69.47	74.37	74.20	73.47
2037	74.31	75.48	78.13	72.82	58.22	69.54	72.37	72.53	71.01	76.01	75.84	75.10
2038	75.74	76.94	79.64	74.23	59.35	70.88	73.77	73.93	72.38	77.48	77.30	76.55
2039	77.20	78.42	81.18	75.66	60.49	72.25	75.20	75.36	73.77	78.97	78.80	78.02
2040	78.48	79.72	82.52	76.91	61.49	73.44	76.44	76.61	74.99	80.27	80.10	79.31
2041	80.21	81.48	84.34	78.61	62.85	75.06	78.13	78.30	76.65	82.05	81.87	81.06

					т.	ABLE 5a						
	Renewable Avoided Costs  Renewable Fixed Price Option for Wind QF  On-Peak Forecast (\$/MWH)											
						1		1				
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	28.05	27.45	24.44	16.31	15.55	15.55	24.50	27.74	25.16	21.98	24.88	28.30
2018	28.64	28.03	24.96	16.67	15.90	15.90	25.02	28.32	25.69	22.45	25.41	28.89
2019	31.06	30.40	27.09	18.14	17.31	17.31	27.16	30.72	27.88	24.38	27.58	31.34
2020	65.63	65.62	64.95	65.35	68.16	67.37	67.09	66.99	65.86	65.01	65.74	64.85
2021	67.13	67.33	66.01	66.95	69.45	68.79	68.28	68.73	67.40	66.52	67.66	66.49
2022	68.65	68.54	66.88	68.40	71.01	70.11	69.71	69.68	68.71	67.83	69.09	67.82
2023	70.27	69.89	68.16	69.98	72.13	71.48	71.17	70.85	70.12	69.10	70.60	69.63
2024	71.17	71.30	69.58	71.35	73.75	72.85	72.75	72.52	72.36	70.27	71.15	71.26
2025	72.83	73.12	71.19	73.26	76.28	75.24	74.41	74.52	73.80	71.83	72.86	72.55
2026	74.86	74.57	73.29	75.21	79.12	76.06	76.06	76.42	76.17	73.48	75.09	74.26
2027	76.34	75.95	74.50	76.36	81.61	77.57	77.25	78.51	77.50	75.01	76.15	75.73
2028	77.73	76.81	75.04	77.98	82.85	78.58	79.21	79.22	78.45	76.68	77.63	76.94
2029	79.43	79.22	76.89	79.86	88.64	81.13	81.20	81.20	81.24	78.29	79.00	78.91
2030	81.14	80.88	78.87	81.41	91.22	84.22	82.33	82.23	83.44	79.82	80.31	80.35
2031	82.59	82.15	80.72	83.66	92.94	86.96	83.83	84.66	84.84	81.49	82.46	82.08
2032	83.94	83.50	82.05	85.04	94.47	88.39	85.21	86.05	86.24	82.83	83.82	83.43
2033	85.81	85.36	83.88	86.93	96.58	90.36	87.11	87.97	88.16	84.68	85.69	85.29
2034	87.46	87.00	85.49	88.60	98.43	92.09	88.78	89.66	89.85	86.30	87.33	86.93
2035	89.16	88.68	87.14	90.32	100.34	93.88	90.50	91.39	91.59	87.97	89.02	88.61
2036	90.61	90.13	88.56	91.79	101.97	95.41	91.98	92.88	93.09	89.41	90.47	90.05
2037	92.63	92.14	90.53	93.83	104.24	97.53	94.02	94.95	95.16	91.40	92.49	92.06
2038	94.41	93.91	92.28	95.64	106.25	99.41	95.84	96.78	97.00	93.16	94.27	93.83
2039	96.24	95.73	94.07	97.49	108.31	101.33	97.69	98.65	98.87	94.96	96.09	95.65
2040	97.81	97.29	95.60	99.08	110.08	102.99	99.28	100.26	100.48	96.51	97.66	97.21
2041	99.99	99.46	97.73	101.29	112.53	105.29	101.50	102.50	102.73	98.67	99.84	99.38

					T/	ABLE 5b						
	Renewable Avoided Costs											
	Renewable Fixed Price Option for Wind QF Off-Peak Forecast (\$/MWH)											
		1						_		0.1	1	
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	21.23	23.07	20.65	12.07	8.33	6.66	14.07	20.57	20.47	18.54	20.99	23.08
2018	21.74	23.62	21.15	12.39	8.57	6.87	14.43	21.07	20.97	19.00	21.50	23.63
2019	24.19	26.26	23.53	13.85	9.63	7.74	16.11	23.44	23.33	21.15	23.92	26.28
2020	50.91	51.14	52.50	51.40	48.43	48.63	48.89	49.91	50.70	51.78	51.61	51.99
2021	52.74	52.06	53.55	52.34	49.80	49.84	50.41	50.71	51.73	53.52	51.38	52.88
2022	53.47	53.18	55.15	53.15	50.48	50.81	52.13	51.27	52.72	54.51	52.21	53.85
2023	54.14	54.18	56.24	54.64	50.74	51.77	52.99	52.51	53.64	55.63	52.98	54.95
2024	54.53	54.59	57.36	54.40	50.97	53.37	52.34	52.66	53.98	55.79	54.68	55.24
2025	55.64	55.63	58.56	55.18	50.87	53.59	53.46	54.33	54.43	57.02	56.58	56.03
2026	55.84	56.64	58.76	55.50	51.37	54.33	54.18	54.80	54.18	57.75	56.63	56.67
2027	57.83	57.81	59.42	56.98	51.14	55.32	55.62	55.07	55.42	59.50	57.27	57.71
2028	58.59	59.13	61.33	58.43	50.52	56.57	56.72	55.55	56.76	59.91	57.88	59.58
2029	58.94	59.66	62.46	59.57	46.19	56.75	57.70	56.49	57.84	60.52	59.67	60.61
2030	59.83	60.63	63.74	59.59	45.87	57.18	58.17	58.32	58.15	61.65	61.10	61.86
2031	61.14	62.18	64.55	59.81	46.80	56.88	59.41	59.55	58.19	62.65	62.50	61.84
2032	62.14	63.20	65.61	60.79	47.56	57.82	60.39	60.53	59.15	63.68	63.53	62.85
2033	63.53	64.61	67.07	62.15	48.63	59.11	61.74	61.88	60.47	65.10	64.95	64.26
2034	64.75	65.85	68.36	63.34	49.56	60.24	62.92	63.07	61.63	66.35	66.19	65.49
2035	66.00	67.13	69.68	64.57	50.52	61.41	64.14	64.29	62.82	67.64	67.48	66.76
2036	67.07	68.22	70.82	65.62	51.34	62.40	65.18	65.34	63.84	68.74	68.57	67.84
2037	68.57	69.74	72.39	67.08	52.48	63.80	66.63	66.79	65.27	70.27	70.10	69.36
2038	69.89	71.09	73.79	68.38	53.50	65.03	67.92	68.08	66.53	71.63	71.45	70.70
2039	71.24	72.46	75.22	69.70	54.53	66.29	69.24	69.40	67.81	73.01	72.84	72.06
2040	72.40	73.64	76.44	70.83	55.41	67.36	70.36	70.53	68.91	74.19	74.02	73.23
2041	74.02	75.29	78.15	72.42	56.66	68.87	71.94	72.11	70.46	75.86	75.68	74.87

						ABLE 6a						
	Renewable Avoided Costs											
	Renewable Fixed Price Option for Solar QF											
	On-Peak Forecast (\$/MWH)											
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	31.96	31.36	28.35	20.22	19.46	19.46	28.41	31.65	29.07	25.89	28.79	32.21
2018	32.63	32.02	28.95	20.66	19.89	19.89	29.01	32.31	29.68	26.44	29.40	32.88
2019	35.13	34.47	31.16	22.21	21.38	21.38	31.23	34.79	31.95	28.45	31.65	35.41
2020	68.87	68.85	68.18	68.58	71.40	70.61	70.33	70.23	69.09	68.24	68.98	68.09
2021	70.42	70.63	69.31	70.25	72.74	72.08	71.57	72.02	70.70	69.81	70.95	69.79
2022	72.01	71.90	70.23	71.76	74.37	73.47	73.07	73.04	72.07	71.19	72.44	71.17
2023	73.69	73.31	71.57	73.39	75.54	74.89	74.59	74.27	73.53	72.51	74.02	73.05
2024	74.65	74.79	73.07	74.84	77.23	76.33	76.24	76.01	75.85	73.75	74.63	74.74
2025	76.38	76.67	74.74	76.81	79.83	78.79	77.96	78.07	77.35	75.38	76.41	76.10
2026	78.48	78.19	76.91	78.83	82.74	79.68	79.68	80.04	79.79	77.11	78.71	77.88
2027	80.03	79.64	78.19	80.05	85.30	81.26	80.94	82.20	81.19	78.71	79.84	79.42
2028	81.49	80.57	78.80	81.74	86.61	82.35	82.97	82.98	82.21	80.45	81.39	80.71
2029	83.26	83.05	80.72	83.69	92.47	84.96	85.03	85.03	85.07	82.12	82.83	82.74
2030	85.04	84.79	82.78	85.32	95.13	88.13	86.24	86.14	87.35	83.73	84.22	84.26
2031	86.57	86.14	84.71	87.65	96.93	90.95	87.82	88.65	88.83	85.48	86.45	86.07
2032	88.01	87.56	86.11	89.10	98.54	92.45	89.27	90.11	90.30	86.90	87.88	87.49
2033	89.95	89.49	88.01	91.06	100.71	94.49	91.24	92.10	92.29	88.81	89.82	89.42
2034	91.68	91.22	89.70	92.82	102.65	96.31	93.00	93.87	94.07	90.52	91.55	91.14
2035	93.45	92.98	91.44	94.61	104.63	98.17	94.80	95.69	95.89	92.27	93.32	92.91
2036	95.00	94.52	92.95	96.18	106.36	99.79	96.36	97.27	97.48	93.80	94.86	94.44
2037	97.10	96.61	95.00	98.30	108.71	102.00	98.49	99.42	99.63	95.87	96.96	96.53
2038	98.97	98.47	96.84	100.20	110.81	103.97	100.39	101.34	101.55	97.72	98.83	98.39
2039	100.88	100.37	98.71	102.13	112.95	105.97	102.33	103.29	103.51	99.60	100.74	100.29
2040	102.54	102.02	100.33	103.82	114.81	107.72	104.02	105.00	105.22	101.25	102.40	101.94
2041	104.81	104.28	102.55	106.11	117.35	110.10	106.32	107.32	107.55	103.49	104.66	104.20

					TA	ABLE 6b						
	Renewable Avoided Costs Renewable Fixed Price Option for Solar QF Off-Peak Forecast (\$/MWH)											
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	25.07	26.91	24.49	15.91	12.17	10.50	17.91	24.41	24.31	22.38	24.83	26.92
2018	25.65	27.53	25.06	16.30	12.48	10.78	18.34	24.98	24.88	22.91	25.41	27.54
2019	28.18	30.25	27.52	17.84	13.62	11.73	20.10	27.43	27.32	25.14	27.91	30.27
2020	55.06	55.29	56.65	55.55	52.58	52.78	53.04	54.06	54.85	55.93	55.76	56.14
2021	56.97	56.29	57.78	56.57	54.03	54.07	54.64	54.94	55.96	57.75	55.61	57.11
2022	57.78	57.49	59.46	57.46	54.79	55.12	56.44	55.58	57.03	58.82	56.52	58.16
2023	58.53	58.57	60.63	59.03	55.13	56.16	57.38	56.90	58.03	60.02	57.37	59.34
2024	59.00	59.06	61.83	58.87	55.44	57.84	56.81	57.13	58.45	60.26	59.15	59.71
2025	60.20	60.19	63.12	59.74	55.43	58.15	58.02	58.89	58.99	61.58	61.14	60.59
2026	60.49	61.29	63.41	60.15	56.02	58.98	58.83	59.45	58.83	62.40	61.28	61.32
2027	62.57	62.55	64.16	61.72	55.88	60.06	60.36	59.81	60.16	64.24	62.01	62.45
2028	63.42	63.96	66.16	63.26	55.35	61.40	61.55	60.38	61.59	64.74	62.71	64.41
2029	63.86	64.58	67.38	64.49	51.11	61.67	62.62	61.41	62.76	65.44	64.59	65.53
2030	64.85	65.65	68.76	64.61	50.89	62.20	63.19	63.34	63.17	66.67	66.12	66.88
2031	66.26	67.30	69.67	64.93	51.92	62.00	64.53	64.67	63.31	67.77	67.62	66.96
2032	67.35	68.41	70.82	66.00	52.77	63.03	65.60	65.74	64.36	68.89	68.74	68.06
2033	68.84	69.92	72.38	67.46	53.94	64.42	67.05	67.19	65.78	70.41	70.26	69.57
2034	70.17	71.27	73.78	68.76	54.98	65.66	68.34	68.49	67.05	71.77	71.61	70.91
2035	71.52	72.65	75.20	70.09	56.04	66.93	69.66	69.81	68.34	73.16	73.00	72.28
2036	72.70	73.85	76.45	71.25	56.97	68.03	70.81	70.97	69.47	74.37	74.20	73.47
2037	74.31	75.48	78.13	72.82	58.22	69.54	72.37	72.53	71.01	76.01	75.84	75.10
2038	75.74	76.94	79.64	74.23	59.35	70.88	73.77	73.93	72.38	77.48	77.30	76.55
2039	77.20	78.42	81.18	75.66	60.49	72.25	75.20	75.36	73.77	78.97	78.80	78.02
2040	78.48	79.72	82.52	76.91	61.49	73.44	76.44	76.61	74.99	80.27	80.10	79.31
2041	80.21	81.48	84.34	78.61	62.85	75.06	78.13	78.30	76.65	82.05	81.87	81.06

## WIND INTEGRATION

TABLE 7								
Wind In	tegration							
Year	Cost							
2015	3.77							
2016	3.84							
2017	3.91							
2018	3.99							
2019	4.07							
2020	4.15							
2021	4.23							
2022	4.31							
2023	4.39							
2024	4.47							
2025	4.56							
2026	4.65							
2027	4.74							
2028	4.83							
2029	4.92							
2030	5.02							
2031	5.12							
2032	5.21							
2033	5.31							
2034	5.42							
2035	5.52							
2036	5.63							
2037	5.74							
2038	5.85							
2039	5.96							
2040	6.08							

#### 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.
- 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.

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: <a href="https://www.theice.com/products/OTC/Physical-Energy/Electricity">https://www.theice.com/products/OTC/Physical-Energy/Electricity</a>. 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 (C02), 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 from 2021 through 2034.

## **Definition of Renewable Resource Sufficiency Period**

This is the period from the current year through 2019.

## **Definition of Renewable Resource Deficiency Period**

This is the period from 2020 through 2034.

## **SCHEDULE 201 (Concluded)**

#### **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.

## **Attachment D**

From: Ryan Hulett irion@sanger-law.com

Subject: Transmittal of Final Draft Standard PPA - SSD Clackamas 1

Date: August 16, 2017 at 8:50 AM

To: Ryin Khandoker irion@sanger-law.com

Cc: JohnMorton , BrettGreene , AngelineChong , IrionSanger , JohnKnight , jkrawczel@stratasolar.com , GarrettLehman

#### Hi Ryin -

On 7/7/27, SSD Clackamas 1 notified PGE that it had agreed to all outstanding issues in the draft PPA and that PGE should tender an executable PPA as outlined in Schedule 201. PGE did not do this and tendered a third draft PPA on 7/25/17 to delay the Schedule 201 process. In PGE's letter dated 7/25/17, PGE stated that SSD Clackamas 1 can now request a final draft PPA. SSD Clackamas 1 elected to skip the final draft PPA per Schedule 201 and proceed directly to the executable PPA. PGE flagrantly ignored its Schedule 201 and sent a final draft PPA, even though SSD Clackamas 1 elected to proceed directly to the executable PPA.

Again, SSD Clackamas 1 and PGE are in agreement with all terms of the draft PPA as well as the final draft PPA and SSD Clackamas 1 requests that PGE immediately tender an executable PPA per it's Schedule 201 obligation.

SSD Clackamas 1 continues to unequivocally commit itself to sell the net output to PGE at the Schedule 201 avoided cost rates and standard PPA terms and conditions that are currently in effect, as codified in the PPA. This includes SSD Clackamas 1 obligating itself to provide power or be subject to penalty pursuant to the standard PPA terms and conditions for failing to deliver energy on the scheduled commercial on-line date.

#### Ryan

Rvan Hulett, PE Principal | Upstream Energy Services 7650 Girard Avenue, Suite 300 La Jolla, CA 92037 Cell: 858.260.0149

# **Attachment E**

From: Ryin Khandoker < <a href="mailto:Ryin.Khandoker@pgn.com">Ryin.Khandoker@pgn.com</a>>>

**Date:** September 7, 2017 at 16:00:03 PDT

To: " ryan@upstreamcleanenergy.com " < ryan@upstreamcleanenergy.com > >

Cc: Brett Greene < <a href="mailto:Brett.Greene@pgn.com">Brett.Greene@pgn.com</a>>>, John Morton <

<u>John.Morton@pgn.com</u>>>

Subject: RE: SSD Clackamas 1 - Request for contract under Schedule 201

Ryan,

Thank you for your interest in obtaining a Standard Power Purchase Agreement (Standard PPA) from Portland General Electric Company (PGE). PGE provided a Final Draft PPA for the SSD Clackamas 1 project on 8/15/17 and received your request for an executable on 8/16/17. On August 18, 2017, the Public Utility Commission of Oregon issued Order No. 17-310 modifying eligibility for standard prices. Effective July 14, 2017, solar Qualifying Facility (QF) projects with nameplate capacity in excess of 3 MW are not eligible for Standard Prices. The SSD Clackamas 1 project is a proposed 4 MW solar generating facility. PGE disagrees with your assessment that SSD Clackamas 1 remains eligible for Schedule 201 prices and rates. SSD Clackamas 1 had not entered into an executable PPA with PGE or otherwise established a legally enforceable obligation by July 14, 2017. Therefore, consistent with Commission Order No. 17-310 it is not eligible for Standard Prices.

On August 31, 2017, I sent you an email inquiring as to whether you were interested in receiving non-standard indicative prices for SSD Clackamas 1. PGE cannot move forward with the PPA application process unless and until you confirm that you would like us to send indicative pricing.

Regards,

Ryin Khandoker | Structuring and Origination
Portland General Electric | 121 SW Salmon Street, 3WTC0306, Portland, Oregon 97204